(Lithology) UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG X ELECTRIC LOGS X FILE X WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/abd. _____

RE-ENTRY/ORIG. OPERATOR PACIFIC TRANSMISSION SUP./ORIG. SURVEY WAS INCORRECT.

920929 Oper. fr. EPS eff. 9-23-92: 930511 Btm/SI, no spud or wcr info, see file:
950822 fr Valley Op. to Gerrity Eff 7-6-95
960222 Commenced Injection WATER DISPOSAL WELL eff. - 10/19/95
*RE-ENTRY 'WDW'

DATE FILED	1-25-79 *12-4-89
LAND: FEE & PATENTED	STATE LEASE NO. PUBLIC LEASE NO ~~U-0149~~327 *U-59149 INDIAN
DRILLING APPROVED:	1-23-79 *5-22-90
SPUDDED IN:	2-26-80
COMPLETED:	6-19-80 P&A PUT TO PRODUCING:
INITIAL PRODUCTION:	
GRAVITY A.P.I.	
GOR:	
PRODUCING ZONES:	*2390-2530' (GRRV) Injection Interval
TOTAL DEPTH:	6163' *2581
WELL ELEVATION:	5232' KB
DATE ABANDONED:	6-19-80 P&A TA
FIELD:	UN~~DESIGN~~ATED 575 DEVILS PLAYGROUND
UNIT:	DEVILS PLAYGROUND *DIRTY DEVIL
COUNTY:	UINTAH
WELL NO.	FEDERAL 14-10 API NO. 43-047-30566
LOCATION	~~714' FSL~~ FT. FROM (N) (S) LINE, 786' FWL FT. FROM (E) (W) LINE. SWSW 1/4 — 1/4 SEC. 10
	*712' FSL

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
9S	24E	10	Gerrity Oil & Gas Corp.				

GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
EVACUATION CK-800'	Dakota	Park City	McCracken
PARACHUTE CK-1400'	Burro Canyon	Rico (Goodridge)	Aneth
WASATCH-4016'	Cedar Mountain	Supai	Simonson Dolomite
MESAVERDE-5357'	Buckhorn	Wolfcamp	Sevy Dolomite
"H" MARKER 2753'	JURASSIC	CARBON I FEROUS	North Point
Wasatch	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafeal Gr.	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE - CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIASSIC		

ACME VISIBLE CROZET VIRGINIA 100730

cc: Approved copy to RJF

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OCT 29 1979

NGS-CASPER

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: 0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Devils Playground

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: Pacific Transmission Supply Company

9. WELL NO.: 14-10

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, Wyo. 82602

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 714' FSL, 786' FWL, SW SW Section 10, T9S, R24E, S.L.B. & M.
At proposed prod. zone:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 45 miles SE of Vernal, Utah

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 714'

16. NO. OF ACRES IN LEASE: 640

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 6200'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5218' Ungraded ground, 5232' KB estimated

22. APPROX. DATE WORK WILL START*: Upon receipt of approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48.0	150	200 sacks
12-1/4	9-5/8	36.0	2500	275 sacks
7-7/8	4-1/2	11.6	6200	As necessary to protect all productive intervals.

Operator proposes to drill to 6200' or 1000' into the Mesaverde formation. Intermediate casing will be run and cemented to protect the oil shale section of the Green River formation. All water flows and significant hydrocarbon shows will be evaluated and reported. The well will be operated according to the attached prognosis and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attached Pressure Containment Data Specifications. If commercial production is encountered, production casing will be run and cemented to adequately protect all potentially productive intervals. No abnormal pressures or temperatures or other potential hazards are anticipated. Duration of drilling operations will be about 24 days.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: 10-16-79

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED: R. J. Firth TITLE: Petroleum Engineer DATE: October 12, 1979

RECEIVED OCT 15 1979 DIVISION OF OIL, GAS & MINING

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

3-USGS, SLC,UT: 1-Div. of OG&M, SLC,UT; 1-JLWroble; 1-ERHenry; 1-EEMulholland; 1-File

*See Instructions On Reverse Side

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: 0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Devils Playground

8. FARM OR LEASE NAME: Federal

9. WELL NO.: 14-10

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, Wyo. 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 714' FSL, 786' FWL, SW SW Section 10, T9S, R24E, S.L.B. & M.
At proposed prod. zone:

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 45 miles SE of Vernal, Utah

12. COUNTY OR PARISH: Uintah

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APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: 10-16-79
BY: [illegible]

RECEIVED OCT 15 1979 DIVISION OF OIL, GAS, & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

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APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

3-USGS, SLC,UT: ~~1-Div. of OG&M, SLC,UT~~; 1-JLWroble; 1-ERHenry; 1-EEMulholland; 1-File

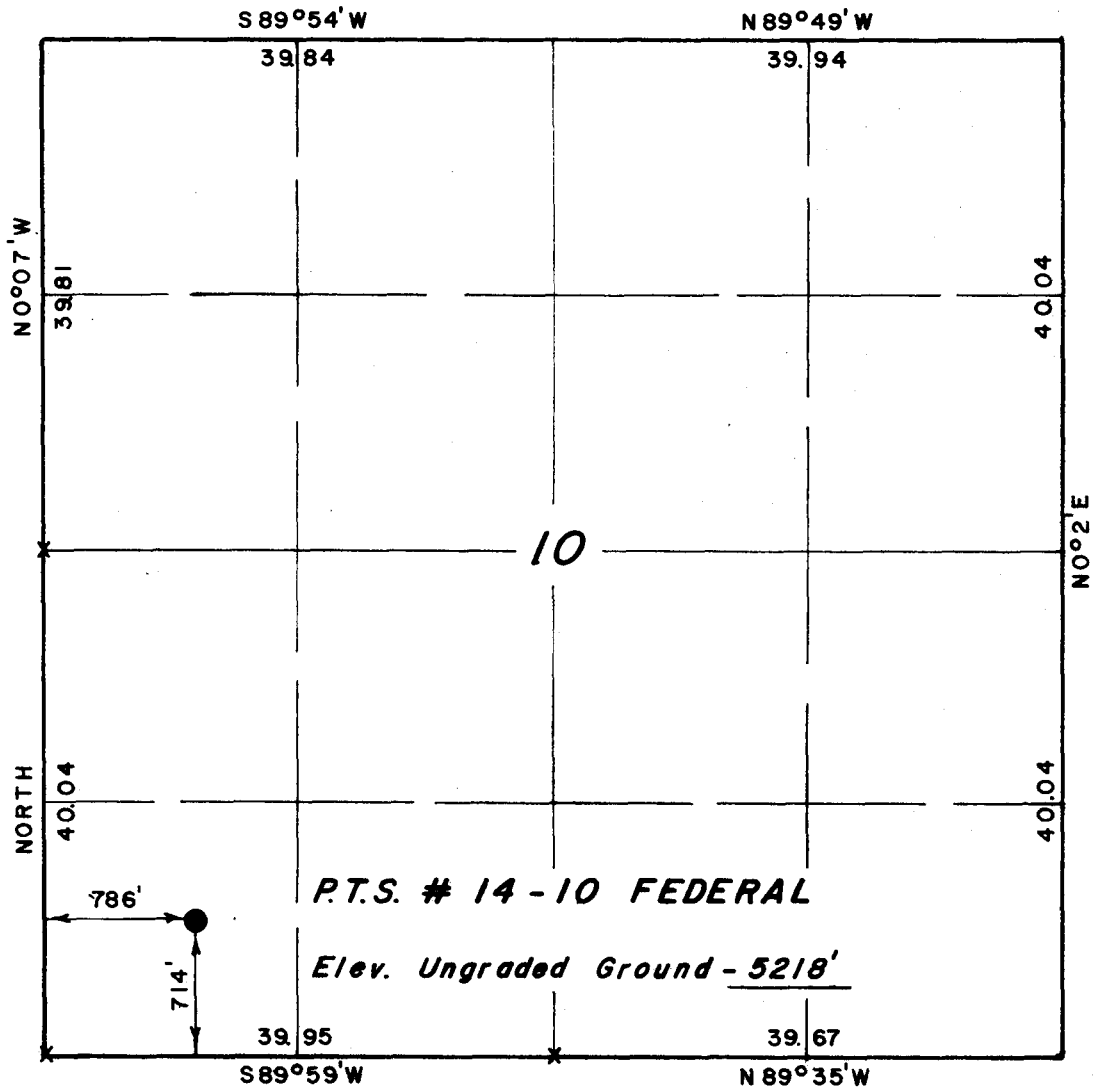
*See Instructions On Reverse Side

PROJECT

PACIFIC TRANSMISSION SUPPLY CO.

Well location, *P.T.S. #14-10 FEDERAL* located as shown in the SW 1/4 SW 1/4 Section 10, T9S, R24E, S.L.B.&M. Uintah County, Utah.

T9S, R24E, S.L.B.&M.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Dana Stewart

REGISTERED LAND SURVEYOR
REGISTRATION № 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 12/7/78
PARTY L.D.T. D.S. W.J. S.M	REFERENCES GLO Plat
WEATHER Cold & Windy	FILE PACIFIC TRANSMISSION

PACIFIC TRANSMISSION SUPPLY COMPANY

SUPPLEMENT

to

13 Point Surface Use Plan

Well Location

P.T.S. #14-10 Federal

Section 10, T9S, R24E, S.L.B. & M.

Uintah County, Utah

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing access road described in Item #1 in the NE 1/4 NW 1/4 Section 15, T9S, R24E, S.L.B. & M., and proceeds in a northwesterly direction 0.5 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

(5) No major cuts, fills or culverts are necessary for constructing the proposed access road.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", the other know wells within a one mile radius are indentified as follows:

(1) Water Wells - None
(2) Abandoned Wells - None
(3) Temporarily abandoned wells - None
(4) Disposal Wells - None
(5) Drilling Wells - None
(6) Producing Wells - 1 (one), PTS #41-9, NE NE, Section 9, T9S, R24E, S.L.B. & M. Uintah County, Utah
(7) Shut in Wells - None
(8) Injection Wells - None
(9) Monitoring or observation wells for other purposes - None

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES AND PRODUCTION GATHERING LINES AND SERVICE LINES

B. In the event production is established:

(1) Any plans for a gas flow line from this location to existing gathering lines or a main production line will be submitted to the appropriate agencies for approval.
(2) All production facilities will be located on the existing pad.
(3) Construction materials will be native borrow or cut exposed on the site, and will be consistent with accepted oil field standards and good engineering practices.
(4) As described in Item 7, the reserve pit will be fenced on three sides during drilling and completion operations and will be rehabilitated to conform with the provisions of plans for surface restorations. In the event a disposal pit is required for producing this well, it will be completely fenced to protect livestock and wildlife.

5. LOCATION OF AND TYPE OF WATER SUPPLY

B. Water required for drilling operations will be transported by truck over the existing and proposed access roads from Bonanza, Utah. No additional roads or pipelines will be required.

C. No water well will be drilled on the location site or lease.

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #14-10 Federal
Section 10, T9S, R24E, S.L.B. & M.

6. SOURCE OF CONSTRUCTION MATERIALS

B. Construction materials will be obtained from Federal lands.

D. The proposed access road under Item 2 will be crossing Federal lands.

7. METHODS OF HANDLING WASTE DISPOSAL

(5) Garbage and other waste materials will be contained in an enclosed wire mesh trash bin on the location and hauled to the nearest sanitary land fill as necessary.

9. WELL SITE LAYOUT

(2) Described in Item 7.
(3) The access road enters the location from the east or at approximately point 8 on the attached Location Layout and Cut Sheet.

10. PLANS FOR RESTORATION OF SURFACE

(4) Any appreciable amount of oil on the reserve pit will be removed prior to restoration activities.

11. OTHER INFORMATION

(2) The surface area is used primarily for grazing domestic sheep and cattle.

FROM : DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, OGC, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT LEASE NO. U0149327

OPERATOR: Pacific Transmission Supply WELL NO. 14-10

LOCATION: ¼ SW ¼ SW ¼ sec. 10, T. 9 S, R. 24E, SLM

Uintah County, Utah

1. Stratigraphy:

Surface - Uintah Fm., Green River approximately 800'
other operator picked tops reasonable

2. Fresh Water: usable water in Green River Fmtn to depths of 3900 feet - aquifers at top of Parachute Creek mbr at 1300' and in basal 1000 feet of Green River

3. Leasable Minerals:

oil shale in Parachute Creek 1300 - 2500'
(especially at approximately 1830')
oil or gas in Wasatch ~~to~~ Mesaverde

4. Additional Logs Needed: adequate

5. Potential Geologic Hazards: ~~none ex~~
slight geopressuring from mid-Wasatch to TD (to approximately 0.5 psi/ft.)

6. References and Remarks: O+G Journal 1-16-78

Signature: [signature] Date: 2 - 2 - 79

Oil and Gas Drilling EA #028-80

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

Usual Environmental Analysis

Lease No. U-149327

Operator: Pacific Transmission Supply Co. Well No. 14-10

Location: 714' FSL & 786' FWL Sec. 10 T. 9S. R. 24E.

County: Uintah State: Utah Field: Devils Playground

Status: Surface Ownership: Public Minerals: Federal

Joint Field Inspection Date: November 2, 1979

Participants and Organizations:

Greg Darlington	USGS-Vernal, Utah
Ron Rogers	BLM-Vernal, Utah
Brad Palmer	BLM-Vernal, Utah
Ron Firth	Pacific Transmission
Red Case	Ross Construction

Access rte changed
Pad 175 x 325
Pit 100 x 150
5/10 mi x 18' wide new access
Flow line not in d
Stockpile topsoil
2 7/10 a
Mitigations Pg 6
(3) A-C

Related Environmental Analyses and References:

(1) Unit Resource Analysis, Bonanza Planning Unit, BLM, Vernal, Utah.

Analysis Prepared by: Greg Darlington, Environmental Scientist, Vernal, Utah
Date: November 6, 1979

Reviewed by: George Diwachak, Environmental Scientist, Salt Lake City, Utah

Noted - G. Diwachak

Proposed Action:

On October 16, 1979, Pacific Transmission Supply Company filed an Application for Permit to Drill the No. 14-10 development well, a 6200 ft. gas test of the Wasatch and Mesa Verde Formations; located at an elevation of 5218 ft. in the SW¼ SW¼ Section 10, T. 9S., R. 24E. on Federal mineral lands and public surface; lease No. U-149327. There was no objection raised to the wellsite. As an objection was raised to the access road, it was changed. See attached map for new access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the BLM, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 175 ft. wide x 325 ft. long and a reserve pit 100 ft x 150 ft. A new access road would be constructed 18 ft. wide x .5 miles long from a maintained road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad.

If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is upon approval and duration of drilling activities would be about 30 days.

Location and Natural Setting:

The proposed drill site is approximately 45 miles Southeast of Vernal, Utah, the nearest town. A good road runs to within .5 miles of the location. This well is in the Davils Playground Unit.

Topography:

The location is in a fairly level area. There is a sizeable wash at the South side of the proposed pad which intersects the Southwest corner of the pad.

Geology:

The surface geology is the Green River Formation.

The soil is a sandy clay with some shale and sandstone gravels.

No geologic hazards are known near the drillsite.

Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric and density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist and is possible in the sandstone units of the Mesa Verde. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 2.7 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rain fall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occuring predominately from West to East. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

The location drains Northwest into Coyote Wash and from there to the White River. The White River is a tributary of the Green River.

Because of a sizeable wash on the South side of the pad the Southwest corner of the proposed pad would be rounded off to avoid rerouting this existing drainage.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is

normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Plants in the area are cactus, sage brush and other salt-desert-shrub types.

Proposed action would remove about 2.7 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

An animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area but would not present a major intrusion.

The economic effect on one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Uintah County.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Bonanza Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash cage would be utilized for any solid wastes generated at the site and would be hauled away at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

(1) Not approving the proposed permit-The oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabili-

tation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

(2) Minor relocation of the wellsite or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

(3) Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.

A. The Southwest corner of the proposed pad would be rounded off to avoid an existing drainage.

B. The proposed access road would be changed to avoid potential winter problems and likely deep snowdrifting.

C. Caution is to be used when operating machinery near the powerline which intersects the Southeast corner of the pad and crosses the proposed access road in front of the parking area.

Adverse Environmental Effects Which Cannot Be Avoided:

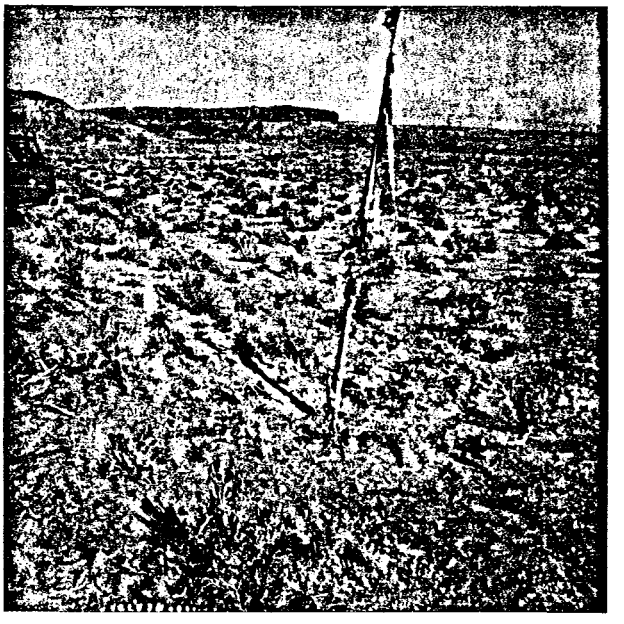
Surface disturbance and removal of vegetation from approximately 2.7 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable committment of resources would be made. Erosion from the site would eventually be carried as sediment in the White River. The potential for pollution to the Coyote Wash would exist through leaks and spills.

Determination:

This requested action does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102 (2) (C).

Date 11/27/79

District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District



Well 14-10 PTS
Sec. 10, T9S, R24E

PACIFIC TRANSMISSION SUPPLY COMPANY

13 Point Surface Use Plan

for

Well Location

P.T.S. 14-10 Federal

Located In

Section 10, T9S, R24E, S.L.B. & M.

Uintah County, Utah

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #14-10 Federal
Section 10, T9S, R24E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A", to reach the Pacific Transmission Supply Company well location, P.T.S. #14-10 Federal, located in Section 10, T9S, R24E, S.L.B.& M., from Vernal, Utah.

Proceed East out of Vernal, Utah along U.S. Highway 40, 24 miles to the junction of this Highway and Utah State Highway 45 to the South; proceed South along this road 19.9 miles to the junction of this road and a gravel surface road to the West; proceed Westerly along this road 0.9 miles to the junction of this road and the proposed access road to be discussed in Item #2.

There is no construction anticipated on any of the above described road. It will meet the standards necessary, for the hauling of equipment during the drilling and production of this well.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing access road described in Item #1 in the NE 1/4 NW 1/4 Section 15, T9S, R24E, S.L.B. & M., and proceeds in a Northwesterly direction 0.5 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

This proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from any normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 1/2 to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction. The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during construction.

If deemed necessary by the local governmental agencies or their representatives turnout will be installed for safety purposes every 0.25 miles or on the top of ridges that will provide the greatest sight distance. These turnouts will be 200' in length and 12' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and the outlet ends.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.

2. PLANNED ACCESS ROAD - continued

The terrain that is traversed by this road is relatively flat and is vegetated with sparce amounts of sagebrush and grasses.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no other wells within a one mile radius of the proposed well site. (See location plat for placement of Pacific Transmission Supply Company, well within the Section).

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

All petroleum production facilities are to be contained within the proposed location site. There are no Pacific Transmission Supply Company flow gathering, injection or disposal lines within a one-mile radius of this location.

In the event production is established, plan for a gas flow line from this location to existing gathering lines or a main production line shall be submitted to the appropriate agencies for approval.

The rehabilitation of the disturbed area that is not required for the production of this well, will meet the requirements of Items #7 and #10 and these requirements and standards will be adhered to.

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water for this well will be hauled by truck from Bonanza, Utah from a water well owned by American Gilsonite approximately 4 miles Southeast of the location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

See location layout sheet.

A reserve pit will be constructed.

The reserve pit will be approximately 8' deep and at least one half of this depth shall be below the surface of the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

7. METHODS FOR HANDLING WASTE DISPOSAL - continued

The pits will have overhead flagging, installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling this reserve pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

All garbage and other waste will be hauled to a sanitary land fill.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLAN FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. See Location Layout Sheet and Item #9, When all drilling production activities have been completed, and the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the distrubed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 5' of cover.

As mentioned in Item #7, the reserve pit will be completely fenced and wired and overhead wire and flagging installed, if there is oil in the pits, and then allowed to completely dry before covering.

10. PLANS FOR RESTORATION OF SURFACE

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommeded by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further convenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Item #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area (See Topographic Map "A")

The area is a basin formed by the Blue Mountain Plateau and Green River to the North and White River and Roan Plateau to the South.

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstones, conglomerates, and shale deposits are extremely common to the area.

The geologic structures of the area that are visible are of the Uintah Formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger Alluvial deposits from the Quaternary Period.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoil in the area range from a light brownish-gray sandy clay (SM-ML) type soil poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area in only 8".

The White River to the South of this location is the only perennial stream that is affected by this location site.

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in. It consists of areas of sagebrush, rabbitbrush, some grasses and cacti as the primary flora. This is also true for the lower elevations.

The fauna of the area consists predominantly of the mule deer, coyotes, rabbits and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area (Topographic Map "B")

P.T.S. #14-10 Federal is located at the base of a relatively unlevel hill side

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #14-10 Federal
Section 10, T9S, R24E, S.L.B. & M.

11. OTHER INFORMATION - continued

P.T.S. #14-10 Federal is located at the base of a relatively unlevel hill side which slopes to the Northwest.

The majority of the drainages in the area around this location run in a Northerly direction into Coyote Wash which is a tributary to the White River, and are non-perennial streams.

The terrain in the vicinity of the location slopes to the North from a small ridge through the location site at approximately a 1% grade into a small wash to the Northwest.

The vegetation in the immediate area surrounding the location site is predominantly sagebrush, and grasses. There are no occupied dwelling or other facilities of this nature in the general area. There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B"). Little Bonanza is approximatley 4000' South of the proposed location site.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

R.J. Firth
85 South 200 East
Vernal, Utah 84078

PHONE: 789-4573

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; that the work associated with the operations proposed herein will be performed by Pacific Transmission Supply Company and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

OCT 12 1979
Date

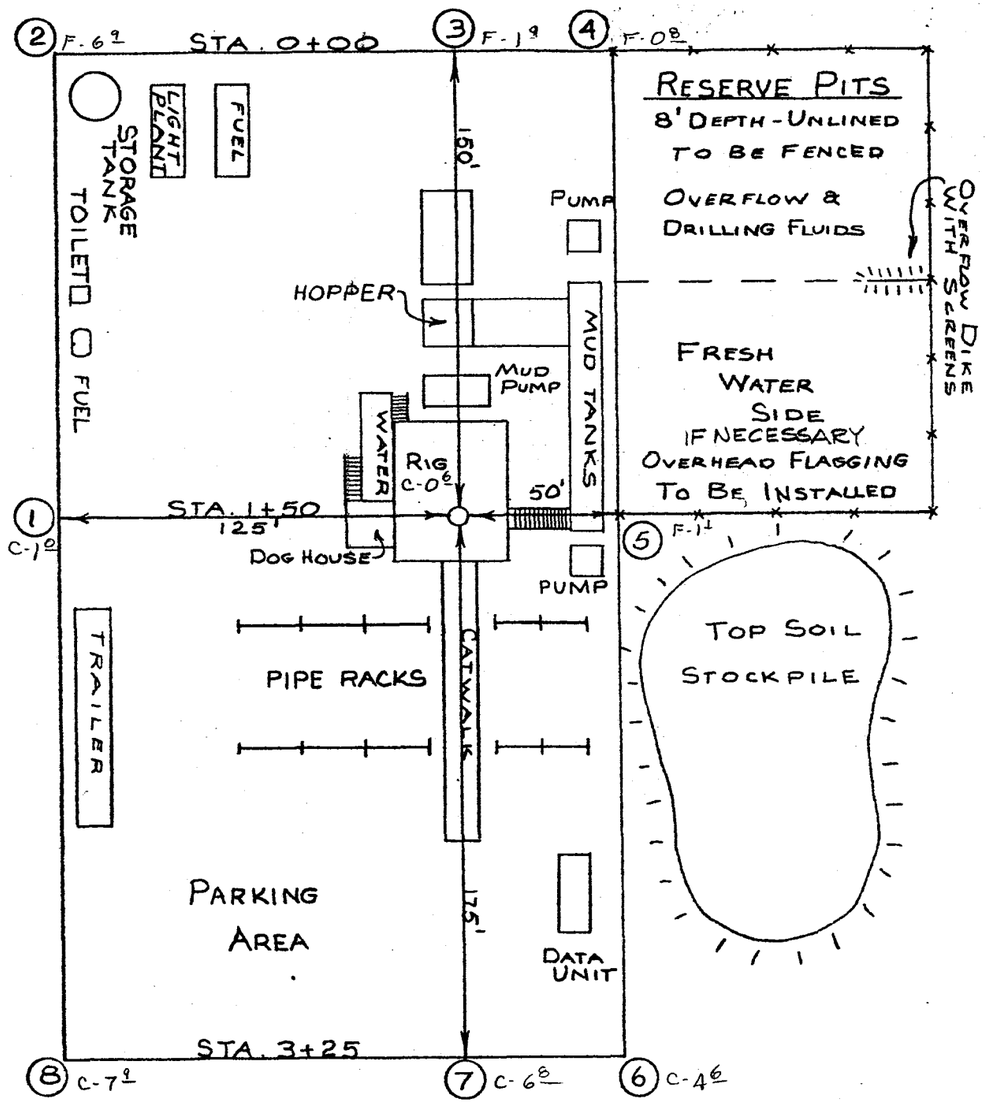
R.J. Firth
Petroleum Engineer

PACIFIC TRANSMISSION SUPPLY CO.

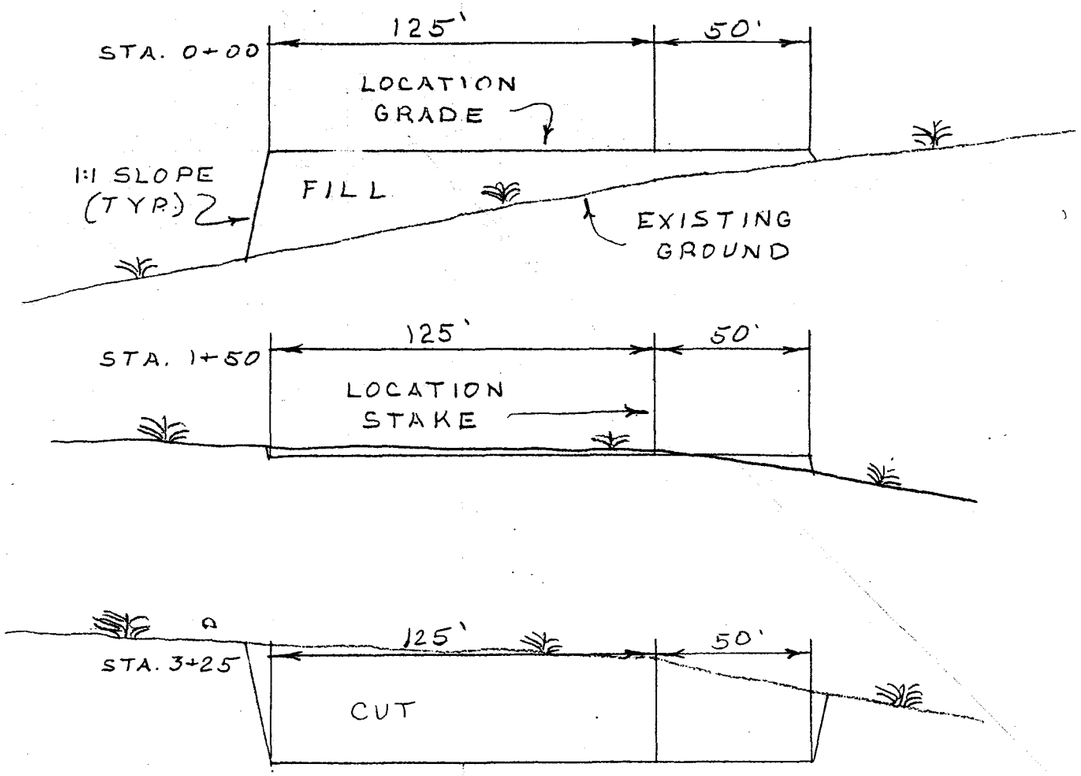
P.T.S. #14-10 FEDERAL

LOCATION LAYOUT & CUT SHEET

SEC. 10, T9S, R24E, S.L.B. & M.

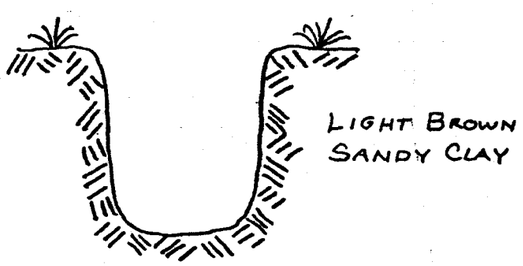


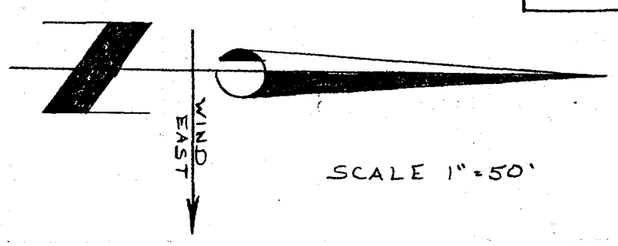
CROSS SECTIONS

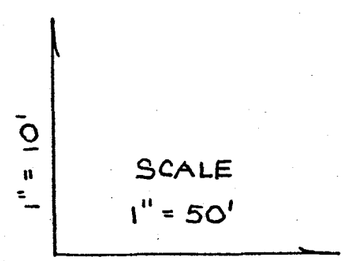


SOILS. LITHOLOGY

-NO SCALE-







APPROX. YARDAGES

CUT -	4,708	CU. YDS.
FILL -	1,870	CU. YDS.

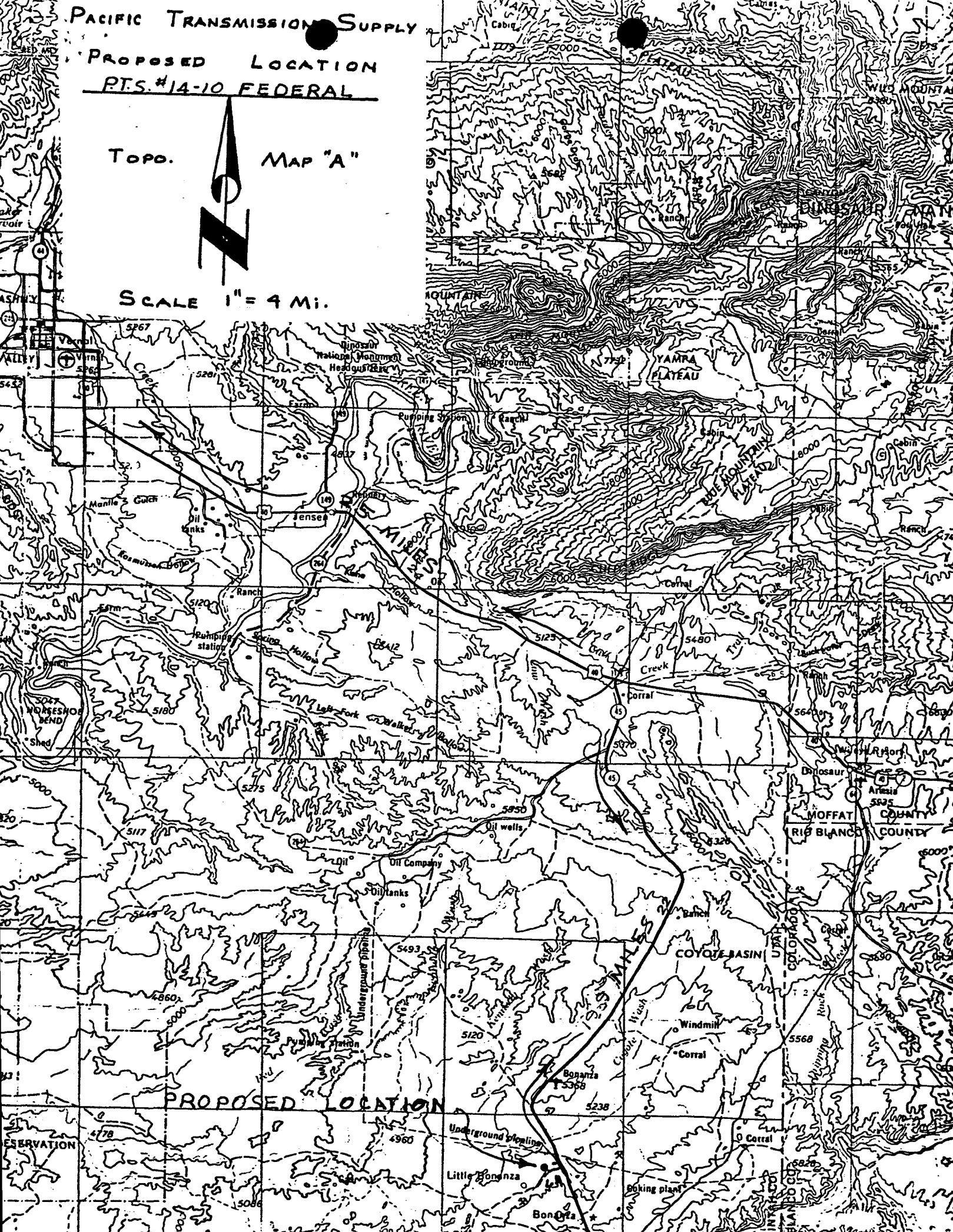
PACIFIC TRANSMISSION SUPPLY

PROPOSED LOCATION

PTS. #14-10 FEDERAL

TOPO. MAP "A"

SCALE 1" = 4 MI.



Form 9-331 C
(May 1963)

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

DUPLICATE COPY

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Devils Playground

8. FARM OR LEASE NAME: Federal

9. WELL NO.: 14-10

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, Wyo. 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 714' FSL, 786' FWL, SW SW Section 10, T9S, R24E, S.L.B. & M.
At proposed prod. zone:

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 45 miles SE of Vernal, Utah

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 714'

16. NO. OF ACRES IN LEASE: 640

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 6200'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5218' Ungraded ground, 5232' KB estimated

22. APPROX. DATE WORK WILL START*: Upon receipt of approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48.0	150	200 sacks
12-1/4	9-5/8	36.0	2500	~~275 sacks~~ BACK TO 1300'
7-7/8	4-1/2	11.6	6200	As necessary to protect all productive intervals.

Operator proposes to drill to 6200' or 1000' into the Mesaverde formation. Intermediate casing will be run and cemented to protect the oil shale section of the Green River formation. All water flows and significant hydrocarbon shows will be evaluated and reported. The well will be operated according to the attached prognosis and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attache Pressure Containment Data Specifications. If commercial production is encountered, production casing will be run and cemented to adequately protect all potentially productive intervals. No abnormal pressures or temperatures or other potential hazards are anticipated. Duration of drilling operations will be about 24 days.

RECEIVED
JAN 17 1980
DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED R. A. Firth TITLE Petroleum Engineer DATE October 12, 1979

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY (Orig. Sgd.) R. A. Henricks TITLE ACTING DISTRICT ENGINEER DATE JAN 16 1980

CONDITIONS OF APPROVAL, IF ANY:

3-USGS, SLC,UT: 1-Div. of OG&M, SLC,UT; 1-JLWroble; 1-ERHenry; 1-EEMulholland; 1-File

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

NOTICE OF APPROVAL

Utah O&G

Form 9-331 C
(May 1963)

SUBMIT IN [illegible]LICATE*
(Other instr[illegible]ons on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [X]

2. NAME OF OPERATOR: Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, Wyo. 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 714' FSL, 786' FWL, SW SW Section 10, T9S, R24E S.L.B. & M.
At proposed prod. zone

RECEIVED JAN 19 1979 DIVISION OF OIL, GAS, & MINING

5. LEASE DESIGNATION AND SERIAL NO.: 0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Devils Playground

8. FARM OR LEASE NAME: Federal

9. WELL NO.: 14-10

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 45 miles SE of Vernal, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 714'

16. NO. OF ACRES IN LEASE: 640

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 6200'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5218' Ungraded Ground

22. APPROX. DATE WORK WILL START*:

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	54.5	150	175 Sxs.
12-1/4	9-5/8	36.0	3000	500 Sxs.
7-7/8	4-1/2	11.6	7000	400 Sxs.

Operator proposes to drill to and test the Mesaverde formation. Intermediate casing will be run and cemented to protect the oil shale section of the Green River formation. All water flows and significant hydrocarbon shows will be evaluated and reported. The well will be operated according to the attached prognosis and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attached Pressure Containment Data Specifications. If commercial production is encountered, production casing will be run and cemented to adequately protect all potentially productive intervals.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: 1-23-79
BY: Cleon B. Feight

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED R. J. Firth TITLE Petroleum Engineer DATE January 17, 1979

(This space for Federal or State office use)

PERMIT NO. 43-047-30566 APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:
3-USGS, SLC,UT; 1-Div.of OG&M,SLC,UT; 1-JLWroble; 1-ERHENRY; 1-EE Mulholland; 1-File

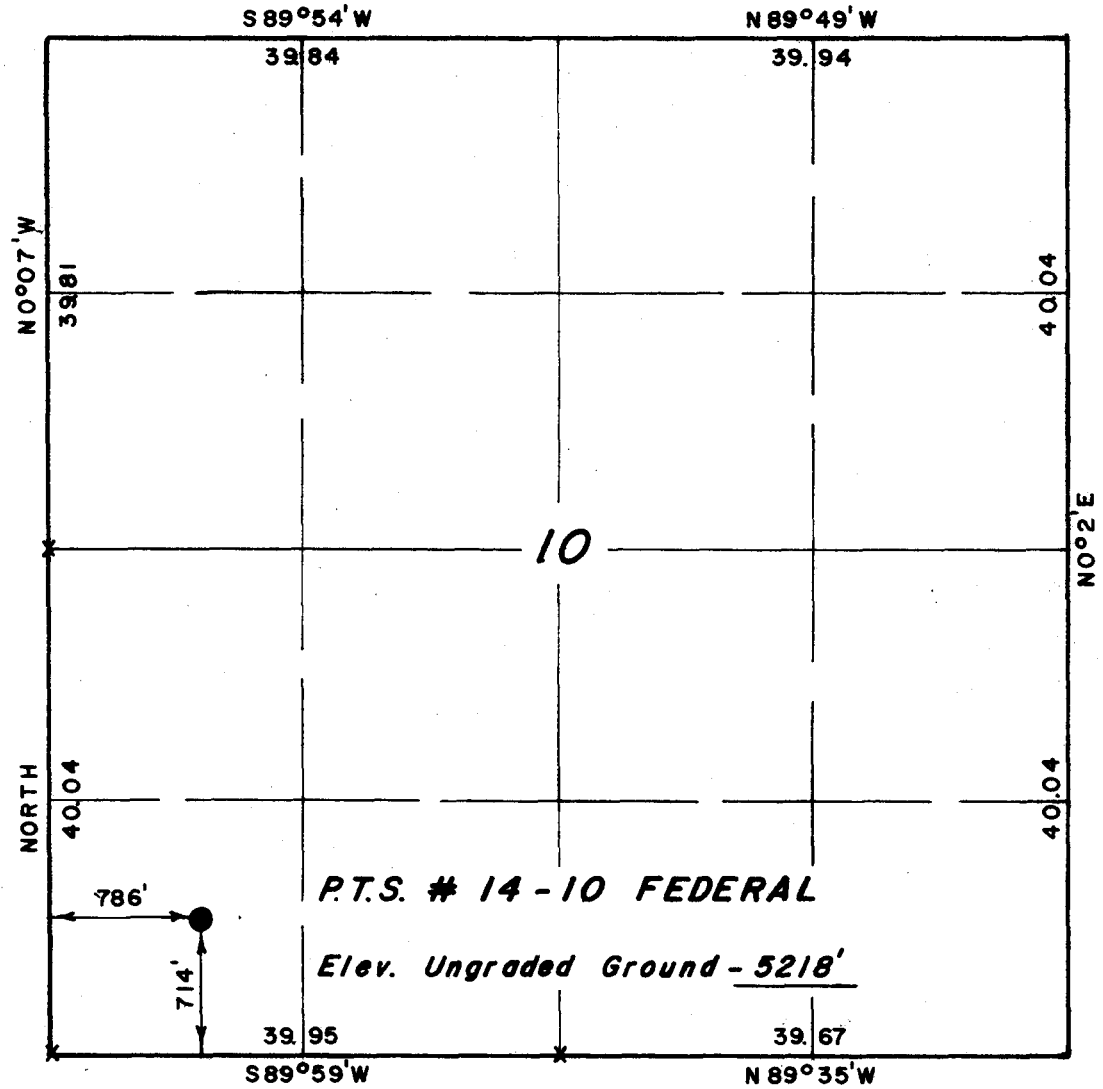
*See Instructions On Reverse Side

PROJECT

PACIFIC TRANSMISSION SUPPLY CO.

Well location, *P.T.S. #14-10 FEDERAL* located as shown in the SW 1/4 SW 1/4 Section 10, T9S, R24E, S.L.B.&M. Uintah County, Utah.

T9S, R24E, S.L.B.&M.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Lewis Stewart

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 12/7/78
PARTY L.D.T. D.S. W.J. S.M	REFERENCES GLO Plat
WEATHER Cold & Windy	FILE PACIFIC TRANSMISSION

PACIFIC TRANSMISSION SUPPLY

PROPOSED LOCATION

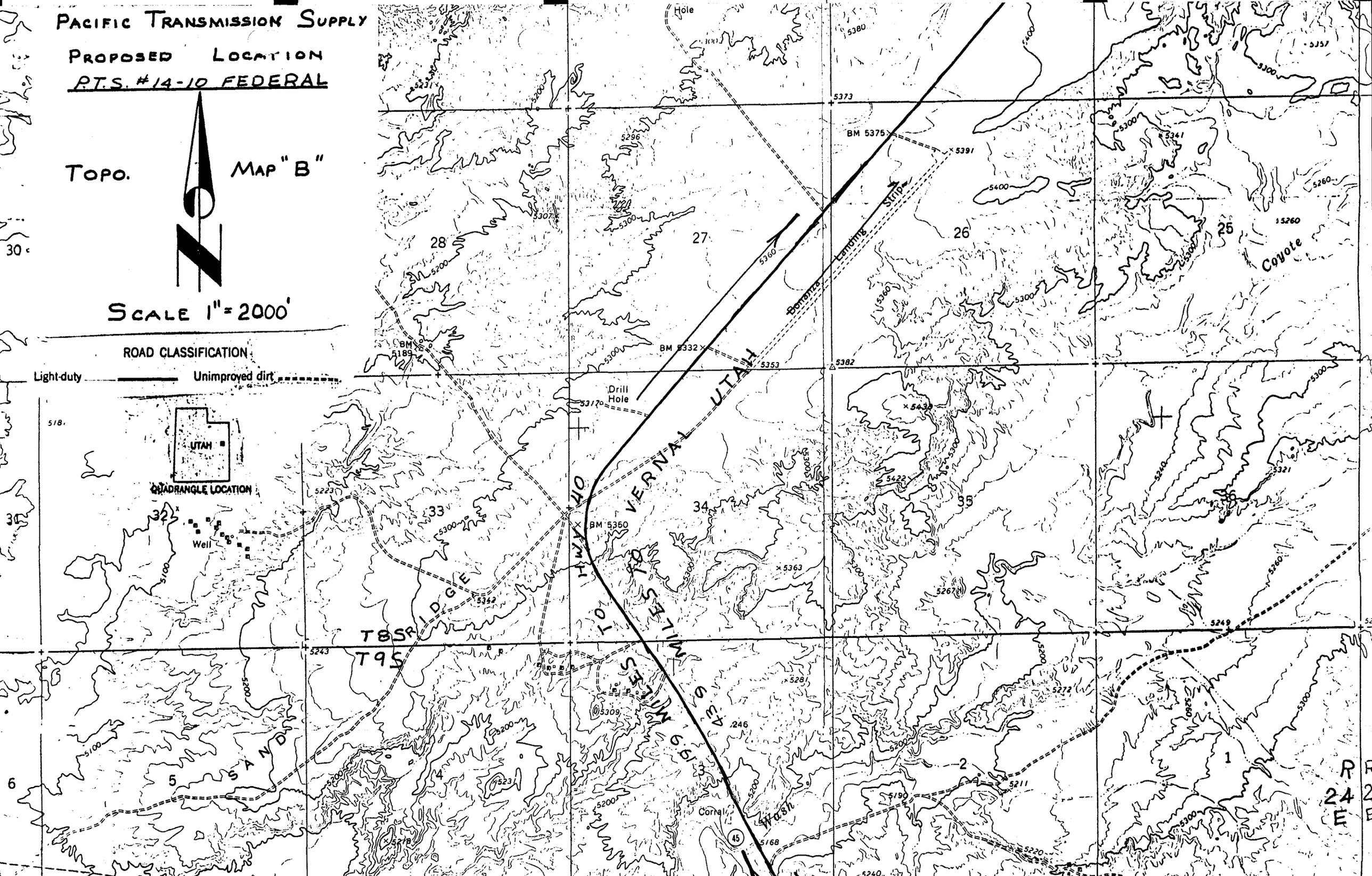
P.T.S. #14-10 FEDERAL

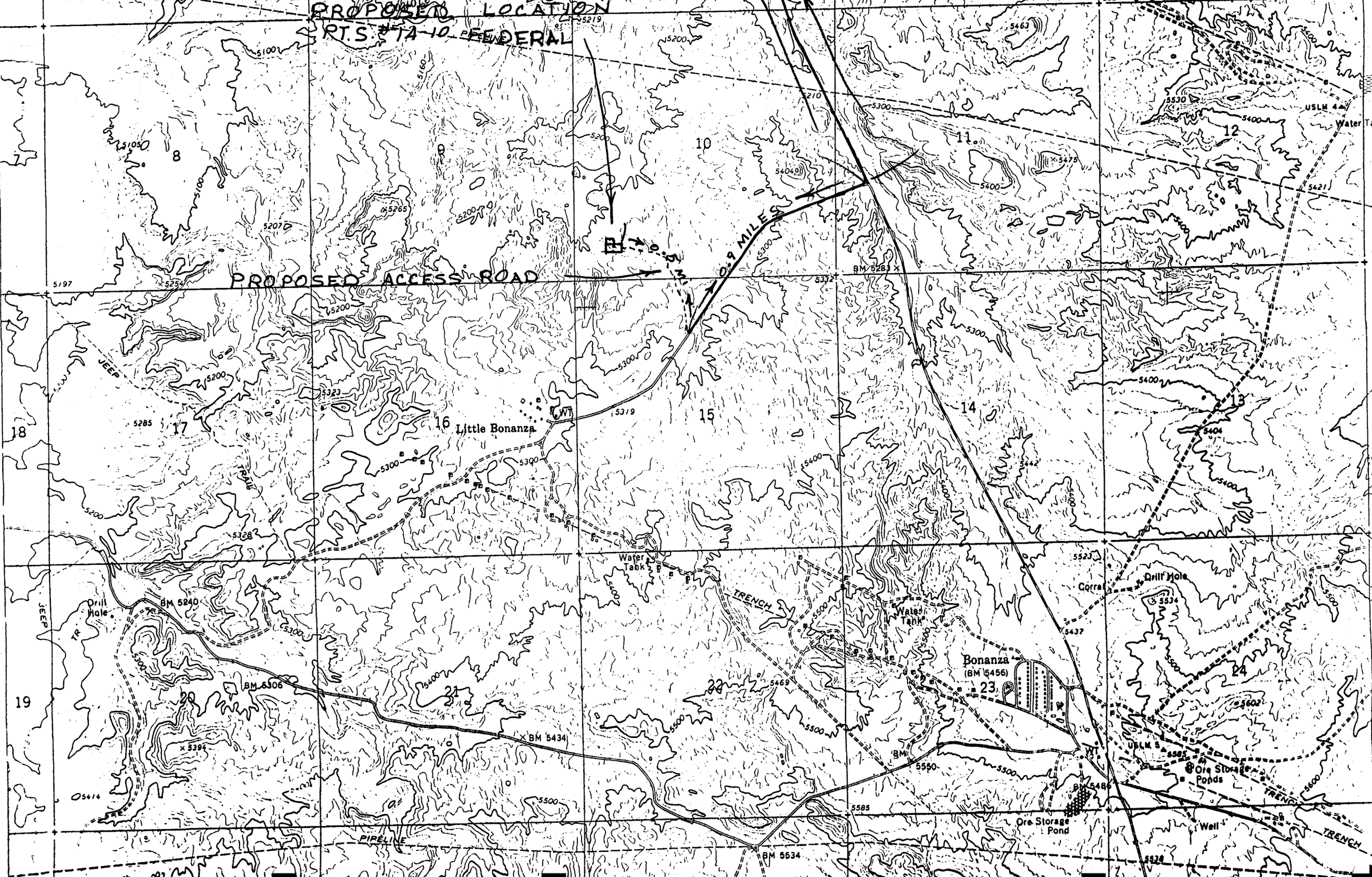
TOPO. MAP "B"

SCALE 1" = 2000'

ROAD CLASSIFICATION

Light-duty ——— Unimproved dirt - - - - -




PROPOSED LOCATION
PT.S. #14-10 FEDERAL
PROPOSED ACCESS ROAD
0.9 MILES
Little Bonanza
Water Tank
Drill Hole
Corral
Bonanza
(BM 5456)
Ore Storage Ponds
Ore Storage Pond
Well
TRENCH
PIPELINE
JEEP
TRAIL
BM 5283
BM 5240
BM 5306
BM 5434
BM 5550
BM 5486
BM 5534
USLM 4
USLM 5
Water T
7
8
9
10
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WELL PROGNOSIS
PTS #14-10 FEDERAL
Uintah County, Utah

LOCATION: 714' FSL, 786' FWL, (SW SW), Section 10, T9S, R24E

OPERATOR: Pacific Transmission Supply Company

LEASE: 0149327

DRILLING CONTRACTOR: To be selected.

ELEVATION: Ungraded Ground - 5218'

FORMATION TOPS AND DATUM:

Formation	Depth	Datum
Green River		
Parachute Creek	1296'	+3922'
H-Marker	2608'	+2610'
Wasatch	3908'	+1310'
Mesaverde	5168'	+ 50'
TOTAL DEPTH	6200'	

SAMPLE COLLECTION: Collect cutting samples at ten (10) foot intervals from under surface to total depth. Samples will be collected by drilling crews for the wellsite geologist. Two (2) sets of samples will be collected in the oil shale section of the Green River formation with one (1) set to be sent to the Bureau of Mines, Laramie Energy Research Center, 9th and Lewis, Laramie, WY 82070; Attention: Mr. Pete Dana. Frequency of sample collection may be changed at the wellsite geologist's discretion.

LOGGING PROGRAM: Dual Induction Laterolog, Borehole Compensated Sonic with Gamma Ray and Caliper, Compensated Neutron-Formation Density with Gamma Ray and Caliper.

MUD LOGGING: Portable mud logging unit operated by wellsite geologist from below surface casing to total depth.

DRILLSTEM TESTING: All significant shows of oil and gas will be drillstem tested. Use floor manifold with positive choke assembly, hydraulic jars, safety joint, reverse circulating sub, sampler assembly and dual packers. Collect samples of all fluids recovered for further analysis.

MUD PROGRAM:

Interval (Feet)	Mud Weight (lbs./gal.)	Viscosity (Sec./qt.)	Fluid Loss (MI/30 min.)	Mud Type
0-150	8.4-9.0	26-45	No Control	Water
150-3000	8.7-9.0	26-30	No Control	Salt Water (40-60000 ppm NaCl)
3000-5200	8.7-9.0	26-30	No Control	Salt Water (40-60000 ppm NaCl)
5200-TD	9.1-9.6	32-45	12-15cc	Salt Mud (60-80000 ppm NaCl)

DRILLING PROGRAM:

1) Move in air precussion rig. Drill 17-1/2" hole and set ±150', 13-3/8" surface casing. Cement to surface.
2) Move in rotary drilling rig and drill 12-1/4" hole to ±3000'. Log and prepare hole for intermediate casing.
3) Set and cement ±3000', 9-5/8", 36.0#, K-55 casing. WOC.
4) Drill 7-7/8" hole to total depth. Perform drillstem testing as necessary. Log and evaluate well.
5) In the event productive intervals are present, run 4-1/2", 11.6#, N-80 casing and cement as necessary across potential zones.
6) Release rotary drilling rig and develop completion procedure.

PERSONNEL & MAILING INFORMATION:

D. E. Beardsley, Manager of Operations
Pacific Transmission Supply Company
P.O. Box 3093
Casper, Wyoming 82602
Telephone: Office (307) 265-1027
Home (307) 234-7666

E. E. Mulholland, Operations Engineer
Pacific Transmission Supply Company
P.O. Box 3093
Casper, Wyoming 82602
Telephone: Office (307) 265-1027
Home (307) 265-4191

R. J. Firth
Pacific Transmission Supply Company
64 East Main Street
Vernal, Utah 84078
Telephone: Office (801) 789-4573
Home (801) 789-5575

NOTIFICATION OF SHOWS, DST'S & UNUSUAL PROBLEMS:

D. E. Beardsley	Office:	(307) 265-1027	Home:	(307) 234-7666
J. L. Wroble		(303) 571-1662		(303) 770-2667
E. E. Mulholland		(307) 265-1027		(307) 265-4191
R. J. Firth		(801) 789-4573		(801) 789-5575

DISTRIBUTION OF INFORMATION:

Pacific Transmission Supply Company
P.O. Box 3093
Casper, WY 82602
Attn: D. E. Beardsley

Pacific Transmission Supply Company
64 East Main Street
Vernal, UT 84078
Attn: R. J. Firth

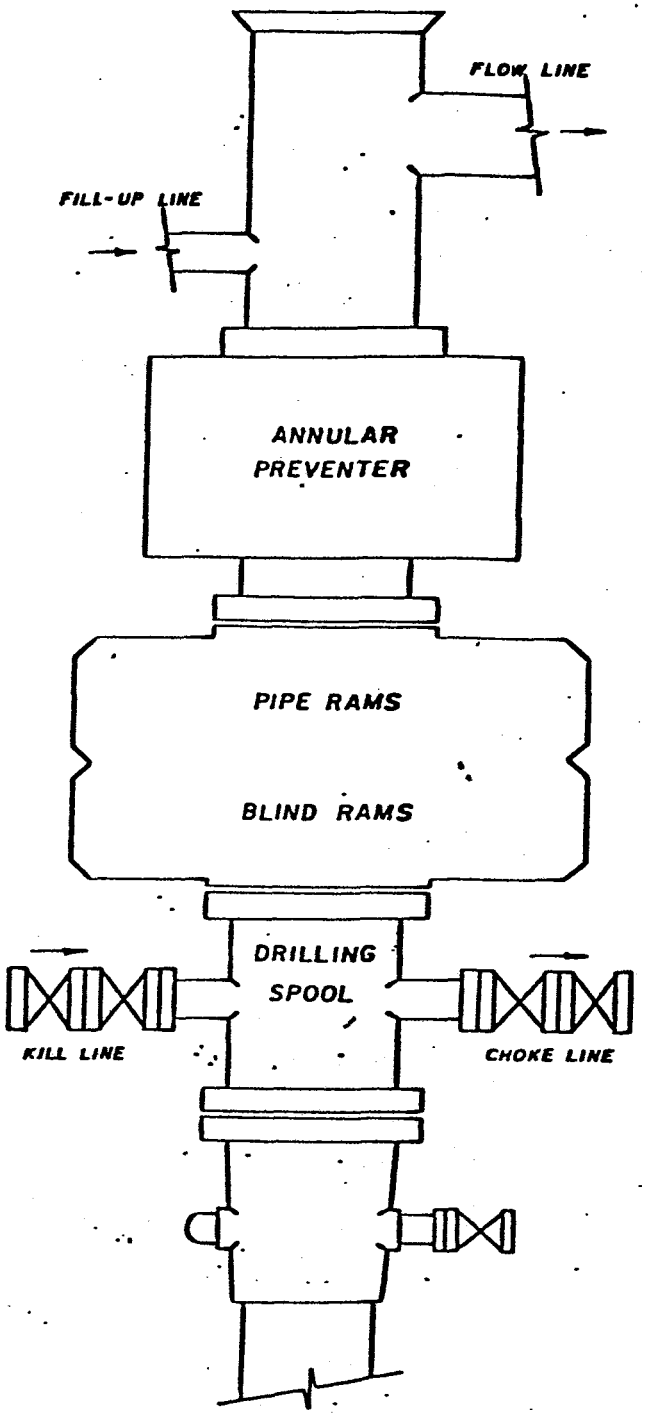
Pacific Transmission Supply Company
717 Seventeenth Street, Suite 2300
Denver, CO 80202
Attn: J. L. Wroble

U. S. Geological Survey
8426 Federal Building
Salt Lake City, UT 84138
Attn: E. W. Guynn, District Engineer

State of Utah
Division of Oil, Gas, & Mining
1588 West North Temple
Salt Lake City, UT 84116
Attn: Chief Petroleum Engineer

PACIFIC TRANSMISSION SUPPLY

BOP AND PRESSURE CONTAINMENT DATA



1. BOP equipment shall consist of a double gate, hydraulically operated preventer with pipe and blind rams or two single ram type preventers, one equipped with pipe rams, the other with blind rams and an annular type preventer, all to be 10" - 3000 W.P.

2. BOP's are to be well braced with hand controls extended clear of substructure.

3. Accumulator to provide closing pressure in excess of that required with sufficient volume to operate all components.

4. Auxiliary equipment: Lower kelly cock, full opening stabbing valve, 2½" choke manifold, pit level indicator and/or flow sensors with alarms.

5. All BOP equipment, auxiliary equipment stand pipe and valves and rotary hose to be tested to the rated pressure of the BOP's at time of installation and every 30 days thereafter. BOP's to be mechanically checked daily.

6. Modification of hook-up or testing procedure must be approved in writing on tour reports by wellsite representative.

PACIFIC TRANSMISSION SUPPLY COMPANY

13 Point Surface Use Plan

for

Well Location

P.T.S. 14-10 Federal

Located In

Section 10, T9S, R24E, S.L.B. & M.

Uintah County, Utah

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #14-10 Federal
Section 10, T9S, R24E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A", to reach the Pacific Transmission Supply Company well location, P.T.S. #14-10 Federal, located in Section 10, T9S, R24E, S.L.B.& M., from Vernal, Utah.

Proceed East out of Vernal, Utah along U.S. Highway 40, 24 miles to the junction of this Highway and Utah State Highway 45 to the South; proceed South along this road 19.9 miles to the junction of this road and a gravel surface road to the West; proceed Westerly along this road 0.9 miles to the junction of this road and the proposed access road to be discussed in Item #2.

There is no construction anticipated on any of the above described road. It will meet the standards necessary, for the hauling of equipment during the drilling and production of this well.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing access road described in Item #1 in the NE 1/4 NW 1/4 Section 15, T9S, R24E, S.L.B. & M., and proceeds in a Northwesterly direction 0.5 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

This proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from any normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 1/2 to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction. The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during construction.

If deemed necessary by the local governmental agencies or their representatives turnout will be installed for safety purposes every 0.25 miles or on the top of ridges that will provide the greatest sight distance. These turnouts will be 200' in length and 12' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and the outlet ends.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.

2. PLANNED ACCESS ROAD - continued

The terrain that is traversed by this road is relatively flat and is vegetated with sparce amounts of sagebrush and grasses.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no other wells within a one mile radius of the proposed well site. (See location plat for placement of Pacific Transmission Supply Company, well within the Section).

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

All petroleum production facilities are to be contained within the proposed location site. There are no Pacific Transmission Supply Company flow gathering, injection or disposal lines within a one-mile radius of this location.

In the event production is established, plan for a gas flow line from this location to existing gathering lines or a main production line shall be submitted to the appropriate agencies for approval.

The rehabilitation of the disturbed area that is not required for the production of this well, will meet the requirements of Items #7 and #10 and these requirements and standards will be adhered to.

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water for this well will be hauled by truck from Bonanza, Utah from a water well owned by American Gilsonite approximately 4 miles Southeast of the location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

See location layout sheet.

A reserve pit will be constructed.

The reserve pit will be approximately 8' deep and at least one half of this depth shall be below the surface of the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

7. METHODS FOR HANDLING WASTE DISPOSAL - continued

The pits will have overhead flagging, installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling this reserve pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

All garbage and other waste will be hauled to a sanitary land fill.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLAN FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. See Location Layout Sheet and Item #9, When all drilling production activities have been completed, and the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the distrubed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 5' of cover.

As mentioned in Item #7, the reserve pit will be completely fenced and wired and overhead wire and flagging installed, if there is oil in the pits, and then allowed to completely dry before covering.

10. PLANS FOR RESTORATION OF SURFACE

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommeded by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further convenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Item #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area (See Topographic Map "A")

The area is a basin formed by the Blue Mountain Plateau and Green River to the North and White River and Roan Plateau to the South.

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstones, conglomerates, and shale deposits are extremely common to the area.

The geologic structures of the area that are visible are of the Uintah Formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger Alluvial deposits from the Quaternary Period.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoil in the area range from a light brownish-gray sandy clay (SM-ML) type soil poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area in only 8".

The White River to the South of this location is the only perennial stream that is affected by this location site.

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in. It consists of areas of sagebrush, rabbitbrush, some grasses and cacti as the primary flora. This is also true for the lower elevations.

The fauna of the area consists predominantly of the mule deer, coyotes, rabbits and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area (Topographic Map "B")

P.T.S. #14-10 Federal is located at the base of a relatively unlevel hill side

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #14-10 Federal
Section 10, T9S, R24E, S.L.B. & M.

11. OTHER INFORMATION - continued

P.T.S. #14-10 Federal is located at the base of a relatively unlevel hill side which slopes to the Northwest.

The majority of the drainages in the area around this location run in a Northerly direction into Coyote Wash which is a tributary to the White River, and are non-perennial streams.

The terrain in the vicinity of the location slopes to the North from a small ridge through the location site at approximately a 1% grade into a small wash to the Northwest.

The vegetation in the immediate area surrounding the location site is predominantly sagebrush, and grasses. There are no occupied dwelling or other facilities of this nature in the general area. There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B"). Little Bonanza is approximatley 4000' South of the proposed location site.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

R.J. Firth
64 East Main
Vernal, Utah 84078

PHONE: 789-4573

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; that the work associated with the operations proposed herein will be performed by Pacific Transmission Supply Company and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

January 17, 1979
Date

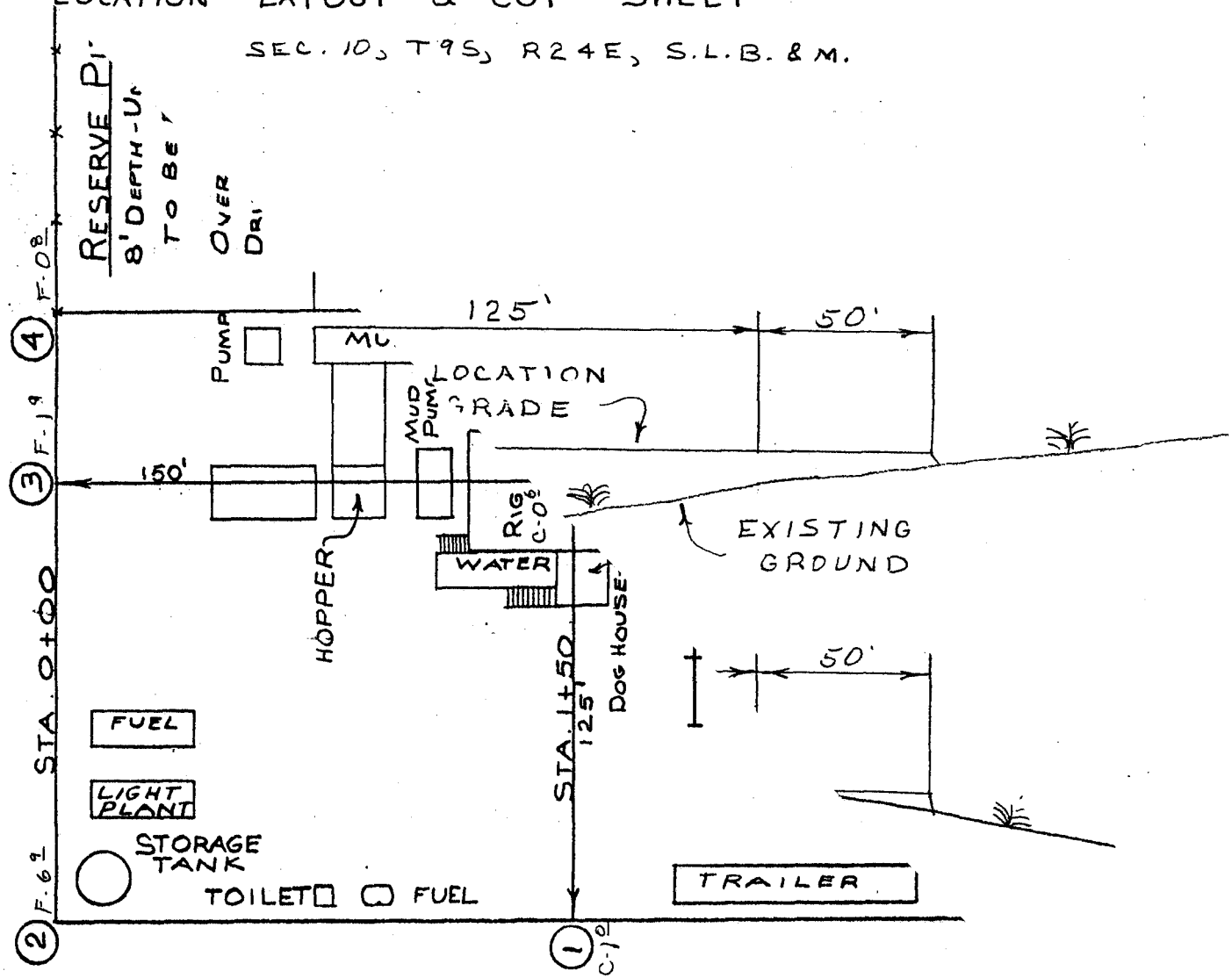
R.J. Firth
R.J. Firth
Petroleum Engineer

PACIFIC TRANSMISSION SUPPLY CO.

P.T.S. # 14-10 FEDERAL

LOCATION LAYOUT & CUT SHEET

SEC. 10, T9S, R24E, S.L.B. & M.



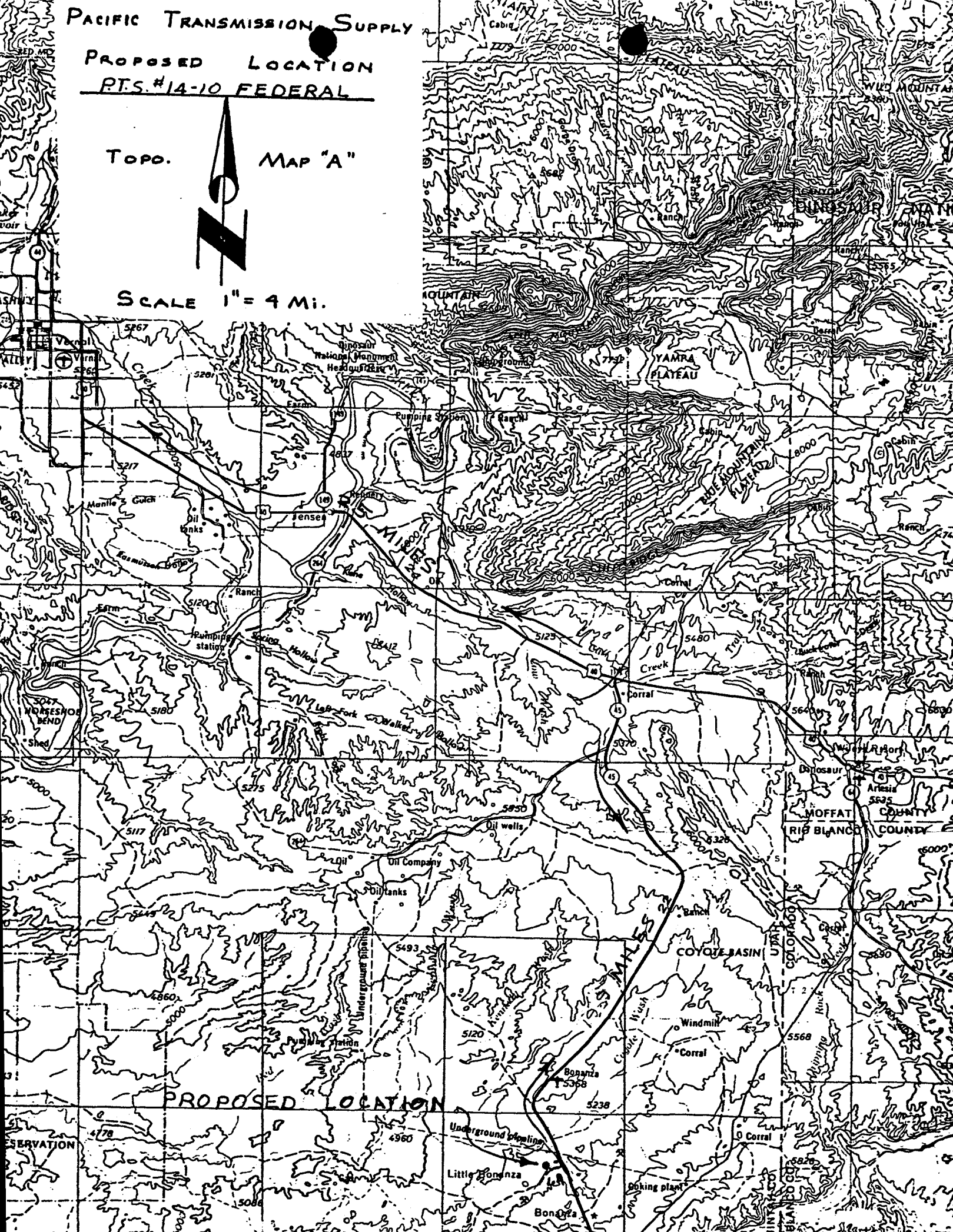
PACIFIC TRANSMISSION SUPPLY

PROPOSED LOCATION

P.T.S. #14-10 FEDERAL

TOPO. MAP "A"

SCALE 1" = 4 MI.



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

** FILE NOTATIONS **

Date: Jan. 22 -

Operator: Pacific Transmission

Well No: Fed. 14-10

Location: Sec. 10 T. 9S R. 24E County: Uintah

File Prepared: / ✓ / *Entered on N.I.D.:* / ✓ /

Card Indexed: / ✓ / *Completion Sheet:* / ✓ /

✓ *API NUMBER:* 43-047-30566

CHECKED BY:

Administrative Assistant [illegible]

Remarks: Unit well -

Petroleum Engineer M.J.M.

Remarks:

Director [illegible]

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: Ok Fed *Survey Plat Required:* / /

Order No. / / *Surface Casing Change to* / /

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site / /

O.K. Rule C-3 / / *O.K. In* Devils Playground Unit / ✓ /

Other:

/ ✓ / ~~Letter Written~~/Approved

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Pacific Transmission Supply Company

WELL NAME: Federal #14-10

SECTION 10 SW SW TOWNSHIP 9S RANGE 24E COUNTY Uintah

DRILLING CONTRACTOR Ross Drilling

RIG #

SPUDDED: DATE 2/26/80

TIME 12:00 p.m.

HOW dry hole spudder

DRILLING WILL COMMENCE ASAP

REPORTED BY Ron Firth

TELEPHONE #

DATE February 29, 1980 SIGNED Original Signed By M. T. Minder

cc: USGS

PACIFIC TRANSMISSION SUPPLY COMPANY
Natural Gas Corporation of California

85 South 200 East
Vernal, Utah 84078
(801) 789-4573

March 5, 1980

Mr. E. W. Guynn (3)
GEOLOGICAL SURVEY-CONSERVATION DIV.
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104

Mr. Frank M. Hamner (1)
DIVISION OF OIL, GAS & MINING
1588 West North Temple
Salt Lake City, UT 84116

Mr. E. L. Latham, Jr. (1)
Lea County Airport
Hobbs, New Mexico 88240

Mr. R. W. Sharp (1)
ENSERCH EXPLORATION, INC.
Metrobank Bldg., Suite 1322
Denver, CO 80202

J. Milton Wege (1)
RALPH E. DAVIS & ASSOCIATES
500 Jefferson, Suite 2031
Houston, TX 77002

Re: PTS #14-10 Fed., Devils Playground
NW SE Section 10, T9S, R24E
Uintah County, UT

Gentlemen:

Enclosed are your required number of copies of Form 9-331, Sundry Notices and Reports on Wells for the above referenced well requesting approval to alter casing setting depth.

Very truly yours,

R. J. Firth
Petroleum Engineer

RJF/kh
Encls.
cc: J. L. Wroble
E. R. Henry
E. E. Mulholland
C. T. Clark (Cover Letter Only)

RECEIVED
MAR 7 1980
DIVISION OF
OIL, GAS & MINING

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR
P.O. Box 3093, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 714' FSL, 786' FWL, SW SW,
AT TOP PROD. INTERVAL: Section 10, T9S, R24E
AT TOTAL DEPTH:

5. LEASE
U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Devils Playground

8. FARM OR LEASE NAME
Federal

9. WELL NO.
14-10

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10, T9S, R24E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5230' KDB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☒	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Alter casing setting depth		

RECEIVED
MAR 17 1980
NGC-CASPER

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Application for Permit to Drill approved January 16, 1980 indicated setting depth of 9-5/8" casing at 2500'. Operator proposes to change 9-5/8" casing setting depth to 2700' to adequately protect the Green River oil shale interval. The cementing program will also be adjusted for protection of fresh water aquifers.

RECEIVED
MAR 7 1980
DIVISION OF
OIL, GAS & MINING

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: 3/11/80
BY: [signature]

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED B. J. Firth TITLE Petroleum Engineer DATE March 5, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

cc: RJF

*See Instructions on Reverse Side

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR
P.O. Box 3093, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 714' FSL, 786' FWL, SW SW,
AT TOP PROD. INTERVAL: Section 10, T9S, R24E
AT TOTAL DEPTH:

5. LEASE
U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Devils Playground

8. FARM OR LEASE NAME
Federal

9. WELL NO.
14-10

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10, T9S, R24E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5230' KDB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☒	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Alter casing setting depth		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Application for Permit to Drill approved January 16, 1980 indicated setting depth of 9-5/8" casing at 2500'. Operator proposes to change 9-5/8" casing setting depth to 2700' to adequately protect the Green River oil shale interval. The cementing program will also be adjusted for protection of fresh water aquifers.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: 3/11/80
BY: M. J. Minder

RECEIVED
MAR 7 1980
DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. J. Firth TITLE Petroleum Engineer DATE March 5, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR
P.O. Box 3093, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 714' FSL, 786' FWL, SW SW,
AT TOP PROD. INTERVAL: Section 10, T9S, R24E
AT TOTAL DEPTH:

5. LEASE
U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Devils Playground

8. FARM OR LEASE NAME
Federal

9. WELL NO.
14-10

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10, T9S, R24E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5230' KB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Spudding Operations		X

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded 17-1/2" surface hole on February 26, 1980. Spudding operations reported to USGS, Salt Lake City on February 29, 1980. Drilled 17-1/2" surface hole to 142'. Ran 4 jts. 13-3/8" 48.0# H-40 surface casing to 138' KB and cemented with 175 sacks Class G cement. Cement circulated to surface. Job completed March 1, 1980. Waiting on rotary drilling rig availibility.

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MAR 7 1980
DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. J. Firth TITLE Petroleum Engineer DATE March 5, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Phone
713-790-9132

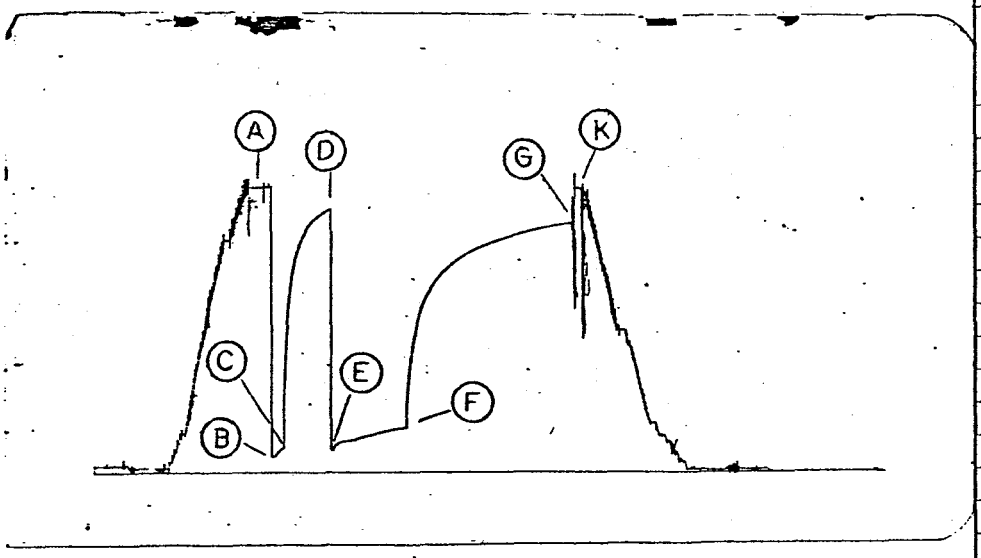
LYNES, INC

Box 12486
Houston, TX 77017

Operator: Pacific Transmission Supply Co.
Address: See Distribution
Well Name and No.: Devil's Playground-Federal #14-10
Ticket No.: 20777
Date: 3-18-80
DST No.: 1
No. Final Copies: 5

Contractor	Olsen Drilling Co.	Top Choke	1/4"	Flow No. 1	15 Min.
Rig No.	2	Bottom Choke	9/16"	Shut-in No. 1	60 Min.
Spot	SW-SW	Size Hole	7 7/8"	Flow No. 2	90 Min.
Sec.	10	Size Rat Hole	--	Shut-in No. 2	200 Min.
Twp.	9 S	Size & Wt. D. P.	4 1/2" 16.60	Flow No. 3	-- Min.
Rng.	24 E	Size Wt. Pipe	--	Shut-in No. 3	-- Min.
Field	Natural Buttes	I. D. of D. C.	2 1/8"		
County	Uintah	Length of D. C.	503'		
State	Utah	Total Depth	4418'	Bottom Hole Temp.	133°F
Elevation	5232' K.B.	Interval Tested	4386-4418'	Mud Weight	9.0
Formation	Wasatch	Type of Test	Bottom Hole Conventional	Gravity	--
				Viscosity	36

Tool opened @ 3:58AM



Inside Recorder

PRD Make Kuster K-3
No. 16463 Cap. 3450 @ 4370'

Press		Corrected
Initial Hydrostatic	A	2046
Final Hydrostatic	K	2041
Initial Flow	B	89
Final Initial Flow	C	157
Initial Shut-in	D	1888
Second Initial Flow	E	135
Second Final Flow	F	303
Second Shut-in	G	1789
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, Wy.
Our Tester: Myron Whiting
Witnessed By: Joe Mounce

RECEIVED
MAR 28 1980
DIVISION OF
OIL, GAS & MINING

Did Well Flow – Gas yes Oil no Water no

RECOVERY IN PIPE: 700' Total Fluid.
100' Slightly gas cut, water cut mud = 1.42 bbl.
600' Gas cut water = 3.59 bbl.

Top Sample R.W.: .12 @ 64°F = 70,000 ppm. chl.
Middle Sample R.W.: .18 @ 70°F = 39,000 ppm. chl.
Bottom Sample R.W.: .20 @ 68°F = 36,000 ppm. chl.

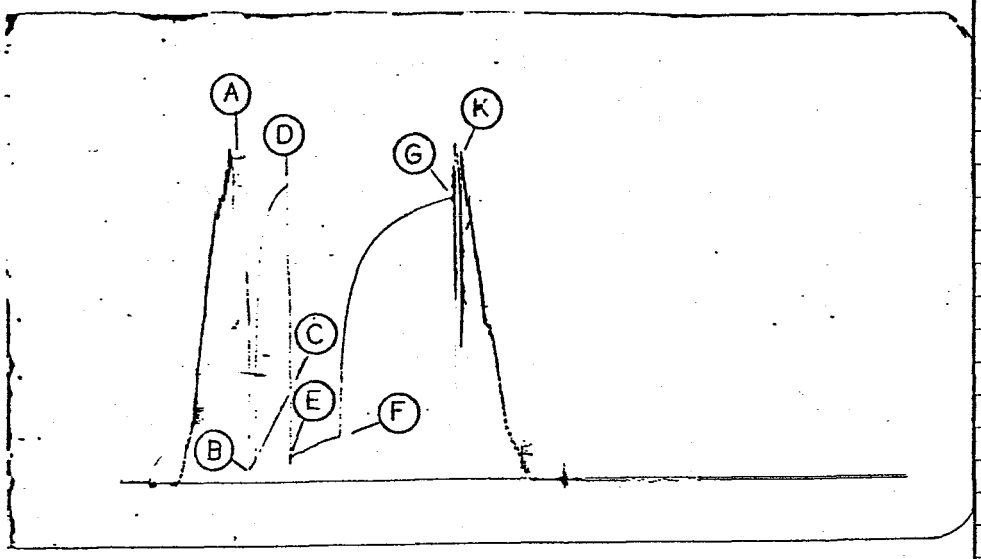
Blow Description:

1st Flow: Tool opened with a strong blow, increased to bottom of bucket immediately and continued to increase to 30.0 psi in 10 minutes. Opened 1/4" choke, blow decreased to 24.0 psi in 13 minutes and remained thru flow period. After shut-in, gas to surface in 1 minute.

2nd Flow: Tool opened with gas to surface. See Gas Volume Report.

LYNES, INC.

Pacific Transmission Supply Co.	Devil's Playground-Federal #14-10	1
Operator	Well Name and No.	DST No.

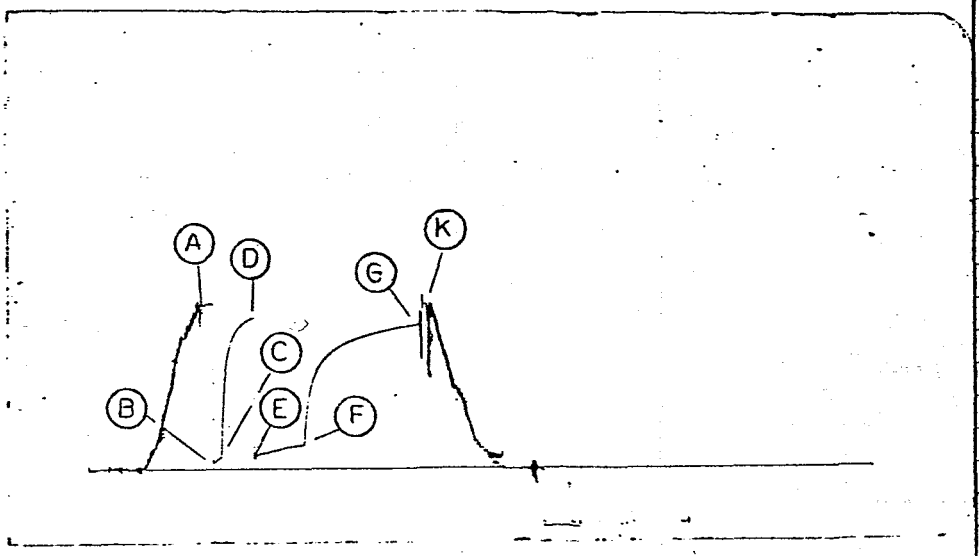


Inside Recorder

PRD Make Kuster K-3

No. 9987 Cap. 3000 @ 4365'

Press		Corrected
Initial Hydrostatic	A	2040
Final Hydrostatic	K	2036
Initial Flow	B	82
Final Initial Flow	C	151
Initial Shut-in	D	1885
Second Initial Flow	E	129
Second Final Flow	F	297
Second Shut-in	G	1785
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--
Pressure Below Bottom Packer Bled To		



Outside Recorder

PRD Make Kuster K-3

No. 20169 Cap. 5900 @ 4411'

Press		Corrected
Initial Hydrostatic	A	2063
Final Hydrostatic	K	2060
Initial Flow	B	104
Final Initial Flow	C	171
Initial Shut-in	D	1904
Second Initial Flow	E	152
Second Final Flow	F	321
Second Shut-in	G	1806
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--
Pressure Below Bottom Packer Bled To		

LYNES, INC.

Operator Pacific Transmission Supply Co. Lease & No. Devil's Playground-Fed 14-10 DST No. 1

Comments relative to the analysis of the pressure chart from DST #1, Interval: 4386-4418', which was run in the above captioned well located in the SW-SW Section 10, T 9S, R 24E, Uintah County, Utah:

This analysis has been made on the basis of the gas recovery only, the Horner extrapolation method and the gas equations shown on the inside of the back cover of this report folder.

For purposes of this analysis, the following gas and reservoir properties and test parameters have been used:

$T_f = 593^{\circ}$ R., $\mu = 0.015$ cp., h = 10 feet (estimated), t = 105 minutes, m = 4288930 psi/log cycle.

1. Extrapolation of the Initial Shut-in pressure build-up curve indicates a maximum reservoir pressure of 2046 psi at the recorder depth of 4370 feet. Extrapolation of the Final Shut-in pressure build-up curve indicates a maximum reservoir pressure of 1997 psi. The character of both Shut-in pressure build-up curves indicate "steady-state" conditions may not have been attained during either shut-in period, therefore, the reliability of both extrapolated pressures may be subject to question. The difference between the extrapolated Initial and Final Shut-in pressures (49 psi) indicates that depletion may have been caused by the 90 minute second flow period.

   The indicated maximum reservoir pressure at the recorder depth is equivalent to a subsurface pressure gradient of 0.468 psi/ft. This pressure gradient is reasonably consistent with a "normal" hydrostatic pressure gradient which generally ranges from about 0.43 to 0.47 psi/ft.

2. The calculated Average Production Rate which was used in this analysis, 32.03 MCF/D, is based upon an average of the reported gas flow rates which were gauged during the second flow period.

3. The calculated Estimated Damage Ratio of 0.2 indicates that no significant well-bore damage was present at the time of this formation test.

4. The calculated Effective Transmissibility of 6.2 md.-ft./cp. indicates an Average Permeability to gas of .01 md. for the estimated 10 feet of effective porosity within the total 32 feet of interval tested.

5. The evaluation criteria used in the Drill Stem Test Analysis System indicate that the results obtained in this analysis should be reliable within reasonable limits relative to the assumptions which have been made.

Michael Hudson

Michael Hudson
Technical Data Manager

WELL NAME: DEVIL'S PLAYGROUND FEDERAL 14-10

DST NUMBER: 001

RECORDER NUMBER: 016463

INTERVAL TESTED: 4386FT TO 4418FT

RECORDER DEPTH: 4370.000FT

TOTAL FLOW TIME: 15.0MIN

FIRST SHUT IN PRESSURE (GAS)

TIME (MIN) PHI	(T+PHI) /PHI	PRESSURE (PSI)	PRESSURE (PSI^2)/10^6
.0	.0000	157.0	.02465
1.0	16.0000	648.0	.41990
2.0	8.5000	820.0	.67240
3.0	6.0000	954.0	.91012
4.0	4.7500	1056.0	1.11514
5.0	4.0000	1147.0	1.31561
6.0	3.5000	1216.0	1.47866
7.0	3.1429	1274.0	1.62308
8.0	2.8750	1326.0	1.75828
9.0	2.6667	1376.0	1.89338
10.0	2.5000	1415.0	2.00222
12.0	2.2500	1481.0	2.19336
14.0	2.0714	1527.0	2.33173
16.0	1.9375	1573.0	2.47433
18.0	1.8333	1609.0	2.58888
20.0	1.7500	1644.0	2.70273
22.0	1.6818	1672.0	2.79558
24.0	1.6250	1695.0	2.87302
26.0	1.5769	1716.0	2.94466
28.0	1.5357	1737.0	3.01717
30.0	1.5000	1756.0	3.08353
35.0	1.4286	1789.0	3.20052
40.0	1.3750	1818.0	3.30512
45.0	1.3333	1841.0	3.38928 *
50.0	1.3000	1858.0	3.45216 *
55.0	1.2727	1874.0	3.51188 *
60.0	1.2500	1888.0	3.56454 *

* VALUES USED IN HORNER ANALYSIS

EXTRAPOLATED PRESSURE: 2046.49

WELL NAME: DEVIL'S PLAYGROUND FEDERAL 14-10

DST NUMBER: 001

RECORDER NUMBER: 016463

INTERVAL TESTED: 4386FT TO 4418FT

RECORDER DEPTH: 4370.000FT

TOTAL FLOW TIME: 105.0MIN

SECOND SHUT IN PRESSURE (GAS)

TIME (MIN) PHI	(T+PHI) /PHI	PRESSURE (PSI)	PRESSURE (PSI^2)/10^6
.0	.0000	303.0	.09181
1.0	106.0000	499.0	.24900
2.0	53.5000	601.0	.36120
3.0	36.0000	678.0	.45968
4.0	27.2500	739.0	.54612
5.0	22.0000	796.0	.63362
6.0	18.5000	838.0	.70224
7.0	16.0000	879.0	.77264
8.0	14.1250	955.0	.91202
9.0	12.6667	983.0	.96629
10.0	11.5000	1016.0	1.03226
12.0	9.7500	1071.0	1.14704
14.0	8.5000	1121.0	1.25664
16.0	7.5625	1160.0	1.34560
18.0	6.8333	1193.0	1.42325
20.0	6.2500	1219.0	1.48596
22.0	5.7727	1245.0	1.55002
24.0	5.3750	1270.0	1.61290
26.0	5.0385	1294.0	1.67444
28.0	4.7500	1316.0	1.73186
30.0	4.5000	1336.0	1.78490
40.0	3.6250	1416.0	2.00506
50.0	3.1000	1476.0	2.17858
60.0	2.7500	1520.0	2.31040
70.0	2.5000	1560.0	2.43360
80.0	2.3125	1592.0	2.53446
90.0	2.1667	1618.0	2.61792
100.0	2.0500	1642.0	2.69616
110.0	1.9545	1664.0	2.76890
120.0	1.8750	1684.0	2.83586
130.0	1.8077	1701.0	2.89340
140.0	1.7500	1717.0	2.94809
150.0	1.7000	1731.0	2.99636 *
160.0	1.6563	1745.0	3.04502 *
170.0	1.6176	1758.0	3.09056 *
180.0	1.5833	1770.0	3.13290 *

CONTINUED ON NEXT PAGE

SECOND SHUT IN PRESSURE (GAS)

TIME (MIN) PHI	(T+PHI) /PHI	PRESSURE (PSI)	PRESSURE (PSI^2)/10^6
190.0	1.5526	1780.0	3.16840 *
200.0	1.5250	1789.0	3.20052 *

* VALUES USED IN HORNER ANALYSIS

SLOPE: 4288930 psi/log cycle

EXTRAPOLATED PRESSURE: 1996.63

RESERVOIR PARAMETERS:

RESERVR TEMP	593.000	BTTM HOL TMP	133.000	SPEC GRAVITY	.700
VISCOSITY	.015	Z FACTOR	.850	DST GAS RATE	32.030
WELL RADIUS	.328	PAY THICKNES	10.000	SUBSEA DEPTH	862.000
WATER GRADNT	.433				

REPORT #2930

WELL NAME - DEVIL'S PLAYGROUND-FEDERAL 14-10

WELL OPERATOR - PACIFIC TRANSMISSION SUPPLY CO.

DST NUMBER - 1

RECORDER NUMBER - 16463

CALCULATIONS: SECOND SHUT IN

EXTRAPOLATED RESERVOIR PRESS.(PSIG)	1996.6
NO. OF POINTS ENTERED.....	10.0
NO. OF POINTS USED IN EXTRAPOLATION	6.0
ROOT MEAN SQUARE DEVIATION OF BEST FIT LINE(PSI) .	.000
TOTAL FLOW TIME(MIN)	105.0
TRANSMISSIBILITY(MD-FT/CP)	6.2
IN SITU CAPACITY(MD-FT)	.1
AVERAGE EFFECTIVE PERMEABILITY(MD)	.01
RADIUS OF INVESTIGATION(FT)	1.0
ACTUAL CAPACITY(MD-FT)	.01
ESTIMATED DAMAGE RATIO	.2
MAXIMUM AOF(MCF/D)	32.8
MINIMUM AOF(MCF/D)	32.4
DRAWDOWN FACTOR(%)	2.4
POTENTIOMETRIC SURFACE(FT)	5473.2

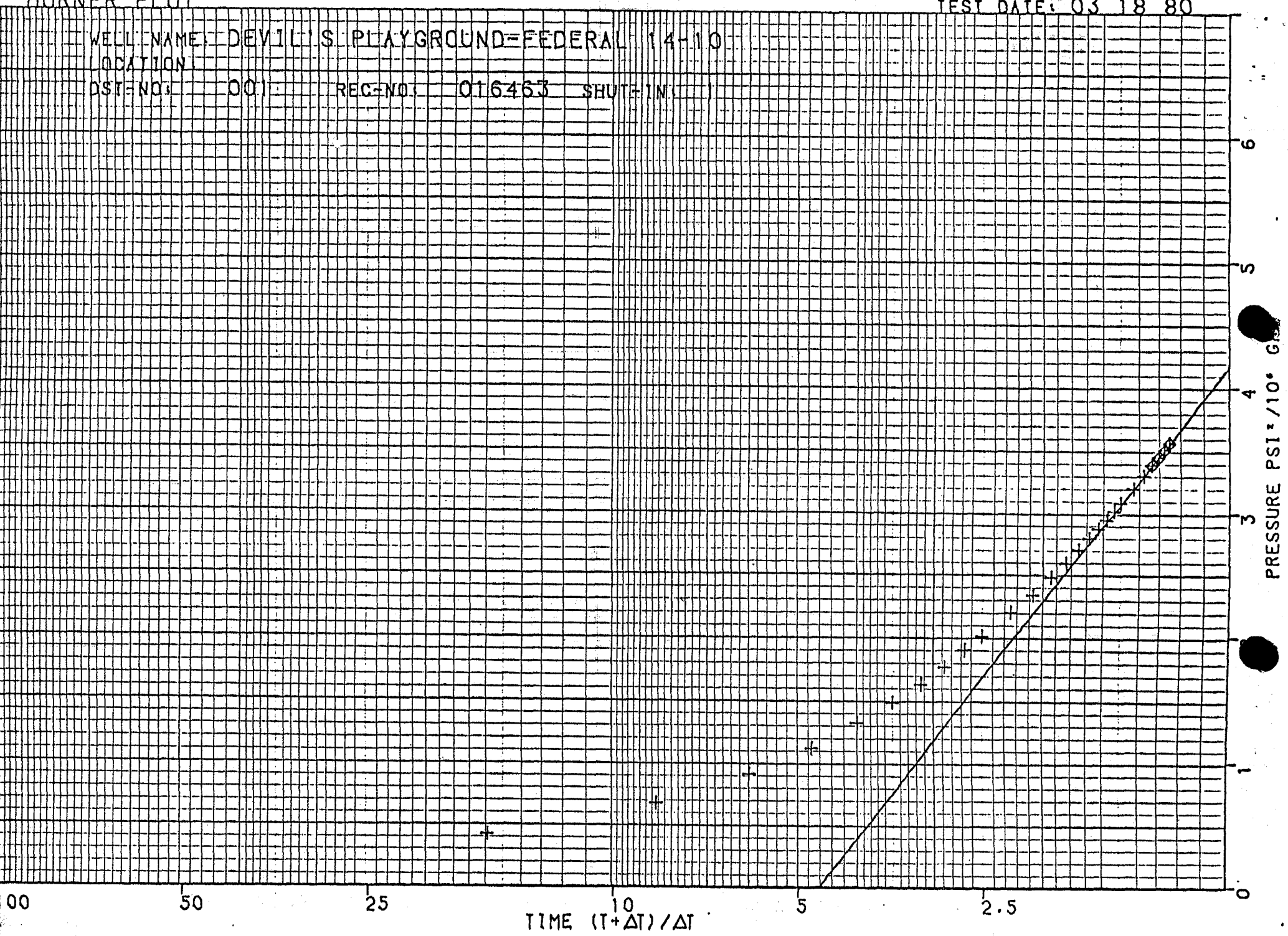
HORNER PLOT

TEST DATE: 03 18 80

WELL NAME: DEVIL'S PLAYGROUND-FEDERAL 14-10

LOCATION:

DST-NO: 001 REC-NO: 016463 SHUT-IN:



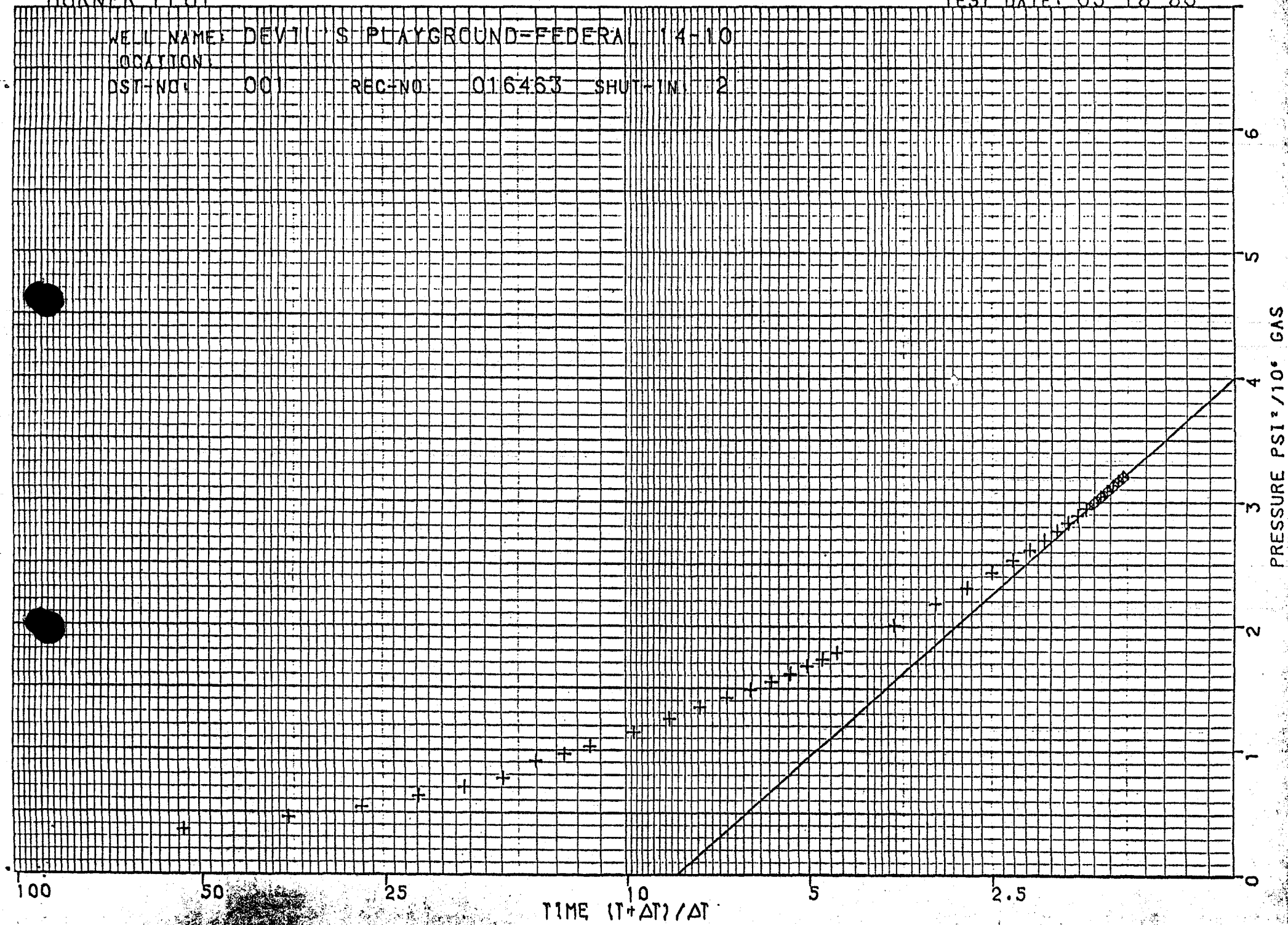
HORNER PLOT

TEST DATE: 03 18 80

WELL NAME: DEVIL'S PLAYGROUND-FEDERAL 14-10

LOCATION:

DST-NO: 001 REC-NO: 016463 SHUT-IN: 2



LYNES, INC.

Gas Volume Report

Operator Pacific Transmission Supply Company Lease & No. Devil's Playground-Federal #14-10 DST No. 1

Min.	PSIG	Orifice Size	MCF/D	Min.	PSIG	Orifice Size	MCF/D
5	8	1/4"	27.0				
10	8	"	27.0				
15	8	"	27.0				
20	8	"	27.0				
25	10	"	30.8				
30	12	"	34.0				
35	12	"	34.0				
40	12	"	34.0				
45	12	"	34.0				
50	12	"	34.0				
55	12	"	34.0				
60	11	"	32.4				
65	14	"	37.6				
70	14	"	37.6				
75	12	"	34.0				
80	11	"	32.4				
85	10	"	30.8				
90	9	"	29.0				

Remarks:

LYNES, INC.

Sampler Report

Company: Pacific Transmission Supply Co. Date: 3-18-80

Well Name & No.: Devil's Playground-Federal #14-10 Ticket No.: 20777

County: Uintah State: Utah

Test Interval: 4386-4418' DST No.: 1

Total Volume of Sampler: 2150 cc.

Total Volume of Sample: 1700 cc.

Pressure in Sampler: 4.0 psig

Oil: None cc.

Water: 1700 cc.

Mud: None cc.

Gas: .125 cu. ft.

Other: None

Sample R.W.: .20 @ 64°F = 38,000 ppm. chl.

Resistivity

Make Up Water R.W.: 5.2 @ 50°F of Chloride Content 1400 ppm.

Mud Pit Sample R.W.: 1.6 @ 70°F of Chloride Content 3800 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On location.

Remarks:

NATURAL GAS CORPORATION OF CALIFORNIA

OPERATIONS HEADQUARTERS
308 DURBIN CENTER BUILDING
145 SOUTH DURBIN STREET
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

April 1, 1980

Mr. E. W. Guynn
GEOLOGICAL SURVEY-CONSERVATION DIV.
2000 Administration Bldg.
1745 W. 1700 S.
Salt Lake City, UT 84104

Mr. J. Milton Wege
RALPH E. DAVIS & ASSOCIATES
500 Jefferson, Suite 2031
Houston, TX 77002

Mr. Frank Hamner
DIVISION OF OIL, GAS, & MINING
1588 West North Temple
Salt Lake City, UT 84116

Mr. E. L. Latham, Jr.
Lea County Airport
Hobbs, New Mexico 88240

Mr. R. W. Sharp
ENSERCH EXPLORATION, INC.
Metrobank Bldg., Suite 1322
Denver, CO 80202

Re: PTS #14-10 Federal, Devil's Playground
Section 10, T9S, R24E
Uintah County, UT

Gentlemen:

Enclosed for your files are copies of the Gas Analysis Report, dated 3-25-80, and the Water Analysis Report, dated 2-28-80, sampled from DST #1 for the above referenced well.

Very truly yours,

E. E. Mulholland

E. E. Mulholland
Operations Engineer

/pv

Encls.

cc: J. L. Wroble
E. R. Henry
R. J. Firth
C. T. Clark (Cover Letter Only)

RECEIVED
APR 03 1980
DIVISION OF
OIL, GAS & MINING

CHEMICAL & GEOLOGICAL LABORATORIES

P.O. Box 2794
Casper, Wyoming 82602

GAS ANALYSIS REPORT

Company: Pacific Transmission Supply Date: 3-25-80 Lab. No. 33695-2
Well No.: 14-10 Devils Playground Federal Location: SW SW 10-9S-24E
Field: Natural Buttes Formation:
County: Uintah Depth: 4386-4418
State: Utah Sampling point: DST No.1 (Sampler)
Line pressure ____ psig; Sample pressure ____ psig; Temperature ____ ° F; Container number: Lynes
Remarks:

Component	Mole % or Volume %	Gallons per MCF
Oxygen	0	
Nitrogen	0.51	
Carbon dioxide	0	
Hydrogen sulfide	*	
Methane	92.51	
Ethane	4.55	
Propane	1.75	0.480
Iso-butane	0.28	0.091
N-butane	0.31	0.098
Iso-pentane	0.04	0.015
N-pentane	0.03	0.011
Hexanes & higher	0.02	0.009
Total	100.00	0.704

GPM of pentanes & higher fraction: 0.035

Gross btu/cu. ft. @60° F. & 14.7 psia (dry basis): 1083
Specific gravity (calculated from analysis): 0.606
Specific gravity (measured): 0.605

Remarks: *H_2S negative to lead acetate paper.

CL1-12A (REV. 1964)

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

RECEIVED
APR 03 1980
DIVISION OF OIL, GAS & MINING

WATER ANALYSIS REPORT

OPERATOR: Pacific Transmission Supply
WELL NO.: Federal 14-10
FIELD: Devils playground
COUNTY: Uintah
STATE: Utah

DATE: 2-28-80 No. 33695-1
LOCATION: SW SW 10-9S-24E
FORMATION:
INTERVAL: 4386-4418
SAMPLE FROM: DST #1 (Sampler)

REMARKS & CONCLUSIONS:

Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	8840	384.52	Sulfate	706	14.68
Potassium	47	1.20	Chloride	13500	380.70
Lithium	-	-	Carbonate	-	-
Calcium	289	14.42	Bicarbonate	647	10.60
Magnesium	71	5.84	Hydroxide	-	-
Iron	Present	+	Hydrogen sulfide	-	-
Total Cations		405.98	Total Anions		405.98

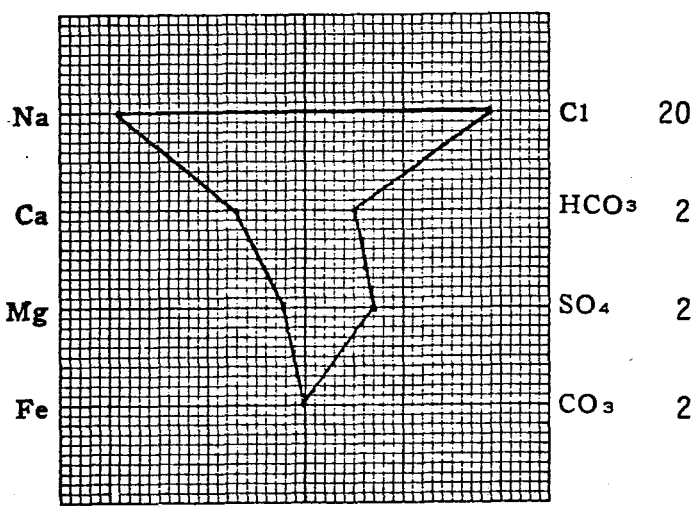
Total dissolved solids, mg/1: 23771
NaCl equivalent, mg/1: 23331
Observed pH: 7.7

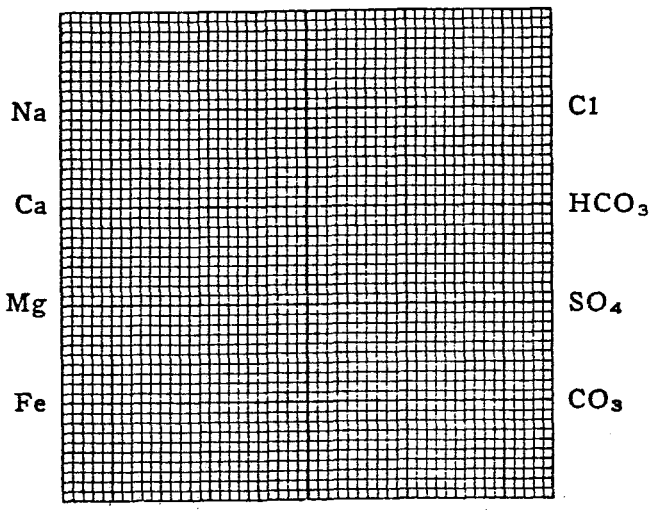
Specific resistance @ 68°F.:
Observed: 0.29 ohm-meters
Calculated: 0.32 ohm-meters

WATER ANALYSIS PATTERN

Sample above described

Scale
MEQ per Unit





(Na value in above graphs includes Na, K, and Li)
NOTE: Mg/1=Milligrams per liter Meq/1= Milligram equivalents per liter
Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [ ] GAS WELL [X] OTHER

7. UNIT AGREEMENT NAME: Devils Playground

2. NAME OF OPERATOR: Pacific Transmission Supply Company

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, WY 82602

9. WELL NO.: 14-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

714' FSL, 786' FWL, SW SW Section 10, T9S, R24E

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5230' KB

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			[ ]

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other) Drlg. Progress Reports			[X]

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Daily Progress Reports Attached. (2-27-80 thru 3-31-80)

18. I hereby certify that the foregoing is true and correct

SIGNED R. J. Firth TITLE Petroleum Engineer DATE April 4, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

3-USGS, SLC,UT; 1-Div. of OG&M, SLC,UT; 1-Enserch Explo.; 1-Ralph E. Davis; 1-E.L.Latham; 1-JLWroble; 1-ERHenry; 1-EEMulholland

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [ ] GAS WELL [X] OTHER

7. UNIT AGREEMENT NAME: Devils Playground

2. NAME OF OPERATOR: Pacific Transmission Supply Company

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, WY 82602

9. WELL NO.: 14-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 714' FSL, 786' SWL, SW SW, Section 10, T9S, R24E

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5230' KB

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Setting & Cementing Casing			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 7-7/8" hole to TD at 6163'. Conducted electric logging operations. Ran 163 joints 4-1/2", 11.6#, N-80 production casing with guide shoe, float collar, stage cementing collar and 10 centralizers. Land casing at 6162' with stage cementing collar at 4981'. Cemented thru casing shoe at 6162' with 250 sacks regulated fillup cement and 100 sacks Class G cement. Preceded 14.2#/gal. and 15.6#/gal. slurries with 10 bbls. mud flush. Circulated thru stage cementing collar at 4981' with drilling mud and cemented with 300 sacks regulated fillup cement. Preceded 14.2#/gal. cement slurry with 10 bbls. mud flush. Good circulation throughout cementing procedures and floats held. Job completed March 30, 1980. Set casing slips and land casing. Rig down drilling rig and equipment.

RECEIVED
APR 09 1980
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED R. J. Firth TITLE Petroleum Engineer DATE April 7, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

3-USGS,SLC,UT; 1-Div. of OG&M, SLC,UT; 1-Enserch Explo; 1-Ralph E. Davis; 1-E.L.Latham; 1-JLWroble; 1-ERHenry; 1-EEMulholland

*See Instructions on Reverse Side

PACIFIC TRANSMISSION SUPPLY COMPANY
Natural Gas Corporation of California

85 South 200 East
Vernal, Utah 84078
(801) 789-4573

May 2, 1980

Mr. E. W. Guynn (3)
GEOLOGICAL SURVEY-CONSERVATION DIV.
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104

Mr. Frank M. Hamner (1)
DIVISION OF OIL, GAS & MINING
1588 West North Temple
Salt Lake City, UT 84116

Mr. E. L. Latham, Jr. (1)
Lea County Airport
Hobbs, New Mexico 88240

Mr. R. W. Sharp (1)
ENSERCH EXPLORATION, INC.
Metrobank Bldg., Suite 1322
Denver, CO 80202

J. Milton Wege (1)
RALPH E. DAVIS & ASSOCIATES
500 Jefferson, Suite 2031
Houston, TX 77002

Re: PTS #14-10 Fed., Devils Playground
NW SE Section 10, T9S, R24E
Uintah County, UT

Gentlemen:

Enclosed are your required number of copies of Form 9-331, Sundry Notices and Reports on Wells, Notice of Intention to Perform Completion Operations dated May 2, 1980 for the above referenced well.

Very truly yours,

R. J. Firth
Petroleum Engineer

RJF/kh
Encls.
cc: J. L. Wroble
E. R. Henry
E. E. Mulholland
C. T. Clark (Cover Letter Only)
Rod Boschee

Form 3-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [ ] GAS WELL [X] OTHER

7. UNIT AGREEMENT NAME: Devils Playground

2. NAME OF OPERATOR: Pacific Transmission Supply Company

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, WY 82602

9. WELL NO.: 14-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 714' FSL, 786' SWL, SW SW Section 10, T9S, R24E

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5232' KB

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other) Perform Completion Operations	[X]			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator proposes to commence completion operations as outlined in the attached Completion Procedures. No surface disturbance or damage will result from these operations. Operations are expected to commence about May 5, 1980 and will continue for about 20 days.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: 5-19-80
BY: M.J. Minder

RECEIVED
MAY 5 1980
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED R.J. Firth TITLE Petroleum Engineer DATE May 2, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

3-USGS, UT; 1-Div. of OG&M, UT; 1-Enserch; 1-Ralph Davis; 1-E.L. Latham; 1-JLWroble; 1-ERHenry; 1-EEMuholland; 1-Rod Boschee

*See Instructions on Reverse Side

Pacific Transmission Supply Company
Devils Playground Unit
#14-10 Federal
Drilling Reports

2-27-80	TD 50'. Drlg. 17-1/2" surface hole. Spudded at 12 noon, March 26, 1980.
2-28-80	TD 105'. Drlg. 17-1/2" surface hole.
2-29-80	TD 125'. Drlg. 17-1/2" surface hole.
3-1-80	TD 142'. Drlg. 17-1/2" surface hole.
3-2-80	Ran 4 jts. 13-3/8" 48.0# H40 surface casing with guide shoe, baffle plate and 1 centralizer. Land casing at 138' KBM and cemented with 175 sacks Class G cement. Cement circulated to surface. WORT.
3-3-80	WORT.
3-4-80	MI & RURT.
3-5-80	MI & RURT.
3-6-80	RURT.
3-7-80	TD 522'. Drlg. 12-1/4" hole. Tested BOP equipment to 1500#. Hydril 1000#. Started drlg. below 13-3/8" surface casing at 8 a.m. March 6, 1980.
3-8-80	TD 1322'. Drlg. 12-1/4" hole.
3-9-80	TD 1788'. Drlg. 12-1/4" hole. Mixed mud and lost circulation materials.
3-10-80	TD 2076'. Drlg. 12-1/4" hole.
3-11-80	TD 2483". Drlg. 12-1/4" hole.
3-12-80	TD 2720'. Logging.
3-13-80	TD 2720'. WOC. Completed logging operations. Ran 68 jts. 9-5/8", 36.0#, K55 intermediate casing with guide shoe, float collar, and 5 centralizers. Land casing at 2716' KB and cemented with 700 sacks 50-50 Pozmix cement with 6% gel, 12-1/2#/sx Kolite and 2% calcium chloride followed by 100 sacks Class G cement with 2% calcium chloride. Good circulation throughout job with cement circulated to surface.

Pacific Transmission Supply Company
Devils Playground Unit
#14-10 Federal
Drilling Reports

3-14-80	TD 2771'. Drlg. 7-7/8" hole. Set casing slips and cut off casing. NU 10" BOP equipment and tested to 2500#, Hydril 1500#. Drilled cement, collar and shoe.
3-15-80	TD 3392'. Drlg. 7-7/8" hole.
3-16-80	TD 3980'. Drlg. 7-7/8" hole.
3-17-80	TD 4287'. Drlg. 7-7/8" hole. Wasatch sample top @ 4056'.
3-18-80	TD 4418'. Testing - DST no. 1 4386'-4418'.
3-19-80	TD 4592'. Drlg. 7-7/8" hole.
3-20-80	TD 4805'. Drlg. 7-7/8" hole.
3-21-80	TD 5083'. Drlg. 7-7/8" hole.
3-22-80	TD 5262'. Drlg. 7-7/8" hole.
3-23-80	TD 5589'. Drlg. 7-7/8" hole.
3-24-80	TD 5817'. Drlg. 7-7/8" hole.
3-25-80	TD 5889'. Testing - DST no. 2 5850'-5889'.
3-26-80	TD 6067'. Drlg. 7-7/8" hole.
3-27-80	TD 6163'. Logging.
3-28-80	TD 6163'. Testing DST no. 3 6082'-6163'.
3-29-80	TD 6163'. Circulating and wait on casing delivery.
3-30-80	TD 6163'. Cementing casing. Ran 163 jts. 4-1/2", 11.6#, N80 production casing with guide shoe, float collar, stage cementing collar and 10 centralizers. Land casing at 6162' KBM with stage cementing collar at 4981'. Cemented thru shoe with 250 sacks RFC and 100 sacks Class G cement.
3-31-80	TD 6163'. Rig released at 3 p.m. March 30, 1980. Cemented thru stage cementing collar with 300 sacks RFC. Set casing slips and rig down drilling rig.

cc: Aprvd copy to RJFirth

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [ ] GAS WELL [X] OTHER

7. UNIT AGREEMENT NAME: Devils Playground

2. NAME OF OPERATOR: Pacific Transmission Supply Company

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, WY 82602

9. WELL NO.: 14-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

714' FSL, 786' FWL, SW SW Section 10, T9S, R24E

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5232' KB

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Plug-back Operations			[X]
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 6163'. PBTD 6120'.
4-1/2", 11.6#, N-80 production casing at 6162' with stage cementing collar at 4972'. Cemented thru shoe with 350 sacks cement and thru stage cementing collar with 300 sacks cement.

Perforated Mesaverde formation 5996'-6010' and 6082'-90' with 1 SPF. Acidized with 2,000 gals. 7-1/2% HCl acid at 4-1/2 bpm rate and 3900 psig pressure. Swabbed and flow tested for 4 day period at approximately 1/2 bwph with weak gas flare TSTM. Set cast iron bridge plug in 4-1/2" casing at 5970' with 1 sack cement on top.

Above described plug-back procedures discussed with Mr. E. W. Guynn, United States Geological Survey, May 19, 1980.

RECEIVED
JUN 4 1980
NGC-CASPER

18. I hereby certify that the foregoing is true and correct

SIGNED R. J. Firth TITLE Petroleum Engineer DATE May 27, 1980

(This space for Federal or State office use)

APPROVED BY FOR E. W. GUYNN DISTRICT ENGINEER TITLE DATE MAY 30 1980

CONDITIONS OF APPROVAL, IF ANY:

3-USGS,UT; 1-OG&M, UT; 1-Enserch; 1-Ralph E. Davis; 1-E. L. Latham; 1-J. Osmond; 1-E.R. Henry; 1-D. E. Beardsley; 1-Rod Boschee

*See Instructions on Reverse Side

oper

APPROVED FOR UNIT PURPOSES ONLY

CONDITIONS OF APPROVAL FOR WELL ABANDONMENT

Company Pacific Transmission Supply Co. Location SW SW 10-9S-24E

Well No. 14-10 Lease No. U-0149327

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

1. This office should be notified sufficiently in advance of actual plugging work so that a representative may have an opportunity to witness the operation.

2. Upon completion of approved plugging, erect the regulation marker in accordance with 30 CFR 221.22 and clean up the location. The marker should not be less than 4 inches in diameter and extend approximately 4 feet above general ground level. Heap up the dirt around the base of the marker about 18 inches to take care of any settling of the cellar. The top of the marker must be closed or capped. Pits must be fenced unless approved otherwise by the district engineer.

3. The following minimum information shall be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch:

   "Fed" or "Ind", as applicable.
   "Well number, location by ¼¼ section, township and range."

4. Within 15 days after well bore plugging operations are completed, form 9-331 (Subsequent Report of Abandonment) must be filed showing location of plugs, amount of cement in each, amount of casing left in hole, and status of surface restoration. If a temporary delay in removal of equipment or surface cleanup is deemed necessary and acceptable to this office, so note on this report and notify this office when such work has been completed to your satisfaction. This final abandonment report will not be approved until a physical inspection by this office and the surface management agency finds the well site in satisfactory condition.

5. If not previously filed, submit in duplicate Well Completion or Recompletion Report and Log (form 9-330), well history, electric logs, and other surveys, and if taken, core analysis and water analysis. These reports must also be filed within 15 days after completion of plugging operations.

6. You or your authorized representative should inspect the abandoned location prior to notification to this office by form 9-331 that it is ready for inspection, and note especially:

   (a) That the regulation dry-hole marker bears the correct legend as required in item 3.

   (b) That rathole and mousehole are filled, not just bridged, and pits are filled and leveled.

   (c) That all material and junk are gone. This includes deadmen protruding above the level ground surface.

   (d) That reseeding or other required restoration work has been completed.

7. The U. S. Geological Survey district office address is:

2000 Administration Building, 1745 West 1700 South
Salt Lake City, Utah 84104 Phone 524-4590
Dist. Engr. E. W. Guynn Home Phone 582-7042
Asst. Engr. W. P. Martens Home Phone 466-2780

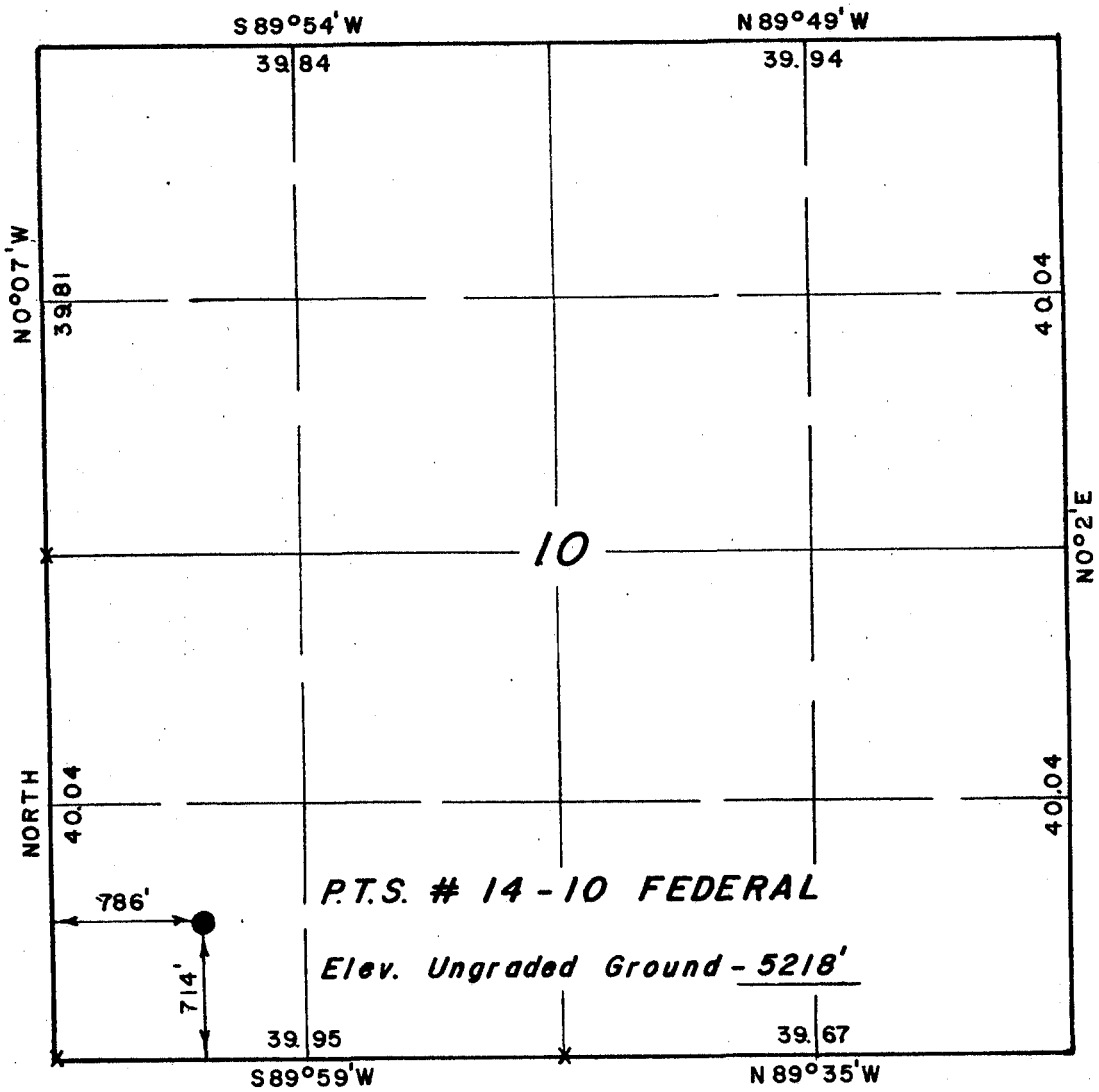
8. The BLM contact man is: _____
Phone _____ (home)
Phone _____ (office)

PROJECT

PACIFIC TRANSMISSION SUPPLY CO.

Well location, *P.T.S. #14-10 FEDERAL* located as shown in the SW 1/4 SW 1/4 Section 10, T9S, R24E, S.L.B.&M. Uintah County, Utah.

T9S, R24E, S.L.B.&M.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Dave Stewart

REGISTERED LAND SURVEYOR
REGISTRATION No. 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 12/7/78
PARTY L.D.T. D.S. W.J. S.M	REFERENCES GLO Plat
WEATHER Cold & Windy	FILE PACIFIC TRANSMISSION

PACIFIC TRANSMISSION SUPPLY

PROPOSED LOCATION

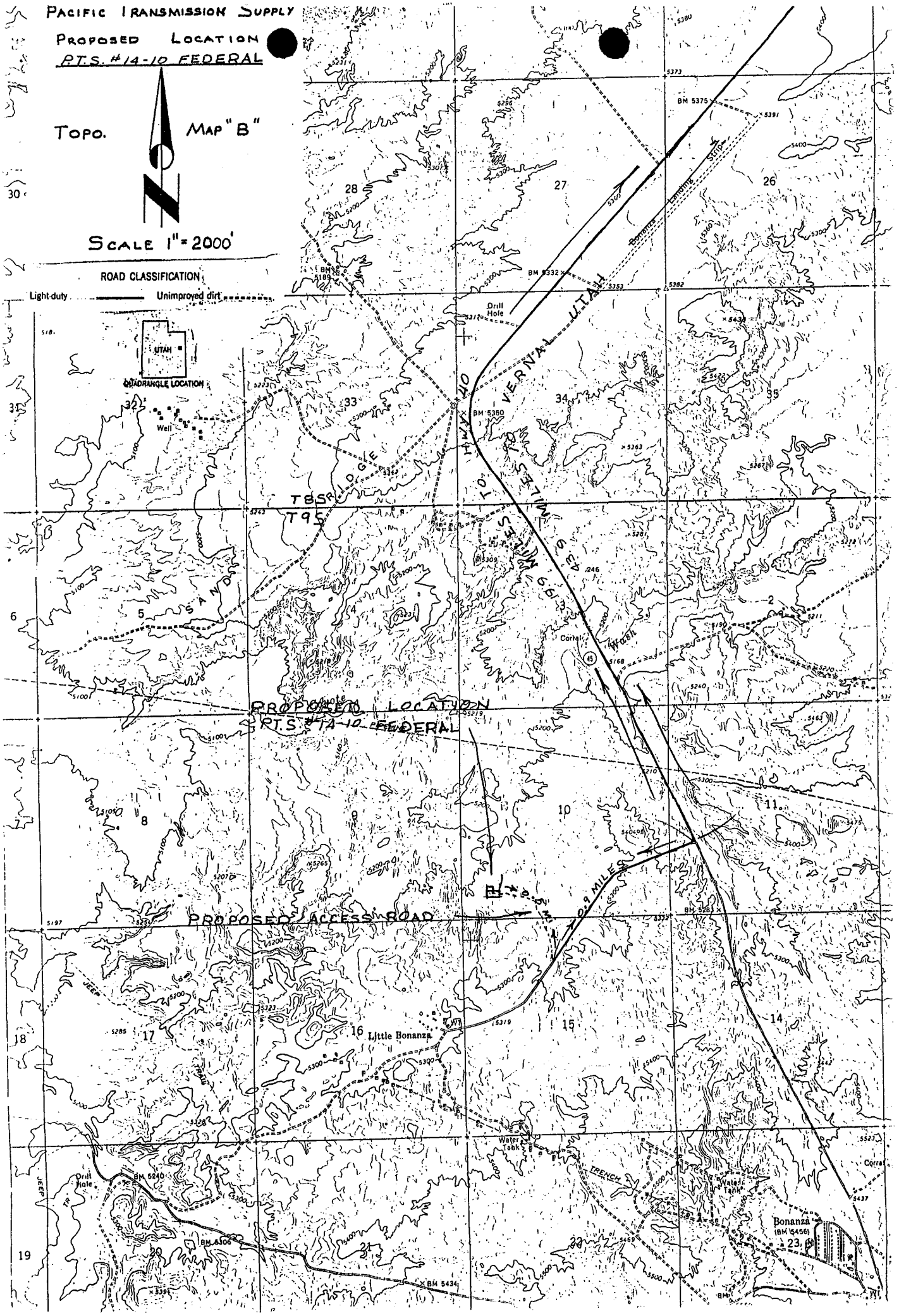
P.T.S. #14-10 FEDERAL

TOPO. MAP "B"

SCALE 1" = 2000'

ROAD CLASSIFICATION

Light-duty ——— Unimproved dirt - - - - -



SMITH ENERGY SERVICES

RESEARCH AND DEVELOPMENT

		Report No:	2373R
		Date:	June 8, 1987
Company:	EPS Resources Corp.	County:	Uintah, Utah
Address:		Field:	Bonanza
		Formation:	Wasatch Green River
Attention:	Ed Neibauer	Lease:	
Date Sampled:		Well:	Dirty Devel 31-15A

WATER ANALYSIS

Specific Gravity:	1.015	pH:	7.40
Resistivity:	0.28	Ohm Meters @:	60° F
Chloride:	14,197 mg/l	Calcium:	120 mg/l
Bicarbonate:	1,464 mg/l	Magnesium:	49 mg/l
Sulfate:	75 mg/l	Total Iron:	trace amount
Sulfide:	N.D.	Sodium:	9,560 mg/l
Total Hardness: (As $CaCO_3$)	500 mg/l	Total Dissolved Solids:	25,465 mg/l
Potassium:	<10,000* mg/l	Carbonate:	N.D.

Sample Source:

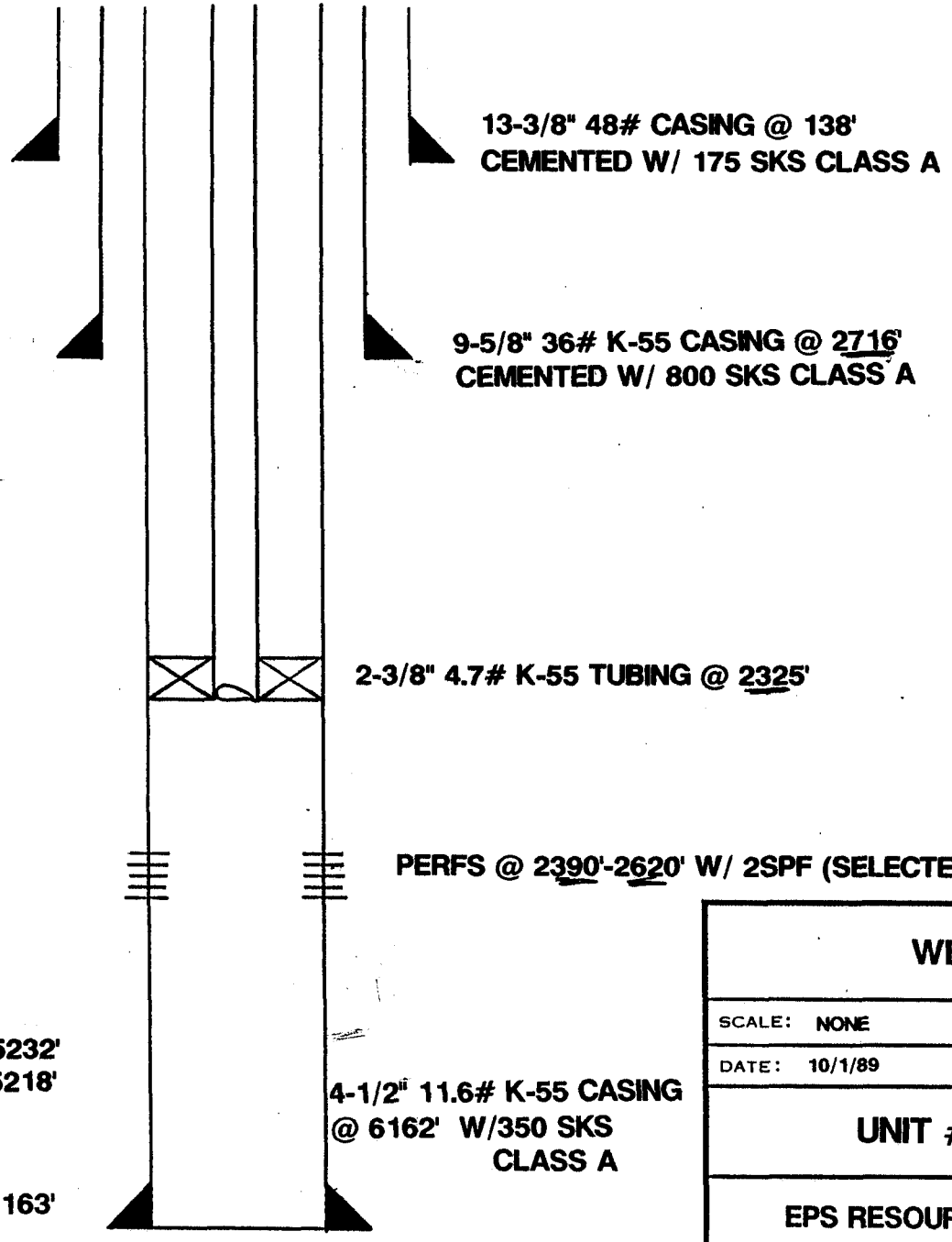
Remarks: See the accompanying report for an more complete analysis of this sample.

* The test used to determine the potassium content is accurate for amounts of 10,000 mg/l or more. There is some amount less than 10,000 mg/l of potassium present in this water.

Analyst: Melissa Kasel

Smith Representative: Bob Mathews

ses 750/10-79



WELL COMPLETION SKETCH		
SCALE: NONE	FIELD DIRTY DEVIL UNIT	COUNTY UINTAH
DATE: 10/1/89		STATE UTAH
UNIT #14-10 WATER INJECTION WELL		
EPS RESOURCES CORP. DENVER, CO		DRAWING NUMBER 1250

8½ X 11 PRINTED ON NO. 1000H CLEARPRINT

HALLIBURTON
SERVICES

DISTRICT LABORATORY
BOX 339, VERNAL, UTAH 84078

LABORATORY REPORT

No.

To Jack Mercer
EPS Resources
Denver, CO

Date 11-29-86

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

We give below results of our examination of produced fluid

Submitted by same

Marked Dirty Devil #23-20

pH	7.1
SPGR	1.012
Rw	.62 ohm-m @ 75°F
Calcium	900 mg/l
Magnesium	NIL
Chlorides	6636 mg/l
Bicarbonates	2670
Carbonates	NIL

Total Dissolved Solids ± 17400 mg/l based on S.G.

Respectfully submitted,

HALLIBURTON SERVICES

By Rick Jacquier, District Engineer

RECEIVED
DEC 04 1986

NOTICE: This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether due to act or omission, resulting from such report or its use.

HALLIBURTON
SERVICES

DISTRICT LABORATORY
BOX 339, VERNAL, UTAH 84078

LABORATORY REPORT

No.

To Jack Mercer
EPS Resources
Denver, CO

Date 11-29-86

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

We give below results of our examination of produced fluid

Submitted by same

Marked Dirty Devil #23-20

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Carbonates	NIL

Total Dissolved Solids ± 17400 mg/l based on S.G.

Respectfully submitted,

HALLIBURTON SERVICES

By
Rick Jacquier, District Engineer

RECEIVED
DEC 1 1986

NOTICE: This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether due to act or omission, resulting from such report or its use.

FORMATION TOPS

Formation or Marker	Sample Top	Log Top	Datum
Evacuation Creek		800'	+4432'
Parachute Creek	1276'	1400'	+3832'
"H" Marker		2753'	+2479'
"K" Marker		3127'	+2105'
Wasatch	4050'	4016'	+1216'
"Y" Marker		4880'	+ 352'
Mesaverde	5370'	5357'	- 125'

2390-2620

DRILLSTEM TESTS

Drillstem Test No. 1, 4386-4418' (32')

Tool opened with strong blow off bottom of bucket immediately on bubble hose; 10 pounds in 2 minutes, 20 pounds in 5 minutes, 30 pounds in 10 minutes; opened 1/4" choke in 13 minutes with 24 pounds where it remained throughout flow (gas to surface in 16 minutes during second flow).

	Time	PSI	Choke	MCF/D
Second flow:	5 minutes	8	1/4"	27
	10 minutes	8	1/4"	27
	15 minutes	8	1/4"	27
	20 minutes	8	1/4"	27
	25 minutes	10	1/4"	30.8
	30 minutes	12	1/4"	34
	40 minutes	12	1/4"	34
	50 minutes	12	1/4"	34
	55 minutes	12	1/4"	34
	60 minutes	11	1/4"	32.4
	65 minutes	14	1/4"	37.6
	70 minutes	14	1/4"	37.6
	75 minutes	12	1/4"	34
	80 minutes	11	1/4"	32.4
	85 minutes	10	1/4"	30.8
	90 minutes	9	1/4"	29

Sampler

Pressure in sampler	4 psig
Total volume in sampler	2100 cc
Total volume in sample	1700 cc
Water	1700 cc
Gas	.125 cubic feet

Sample R_W	.20 @ 64 degrees	38,000 ppm cl
Water R_W	5.2 @ 50 degrees	1,400 ppm cl
Mud pit sample R_W	1.6 @ 70 degrees	4,750 ppm cl

Sample Recovery -	Top sample	R_W .12 @ 64 degrees	70,000 ppm
	Middle sample	R_W .18 @ 70 degrees	50,000 ppm
	Bottom sample	R_W .20 @ 68 degrees	45,000 ppm

No cushion

Fluid recovery	700' muddy water
Water-cut mud (slightly gas cut)	100'
Gas-cut water	600'

Drillstem Test No. 1 - continued

Pressures:	IH	2063#	
	FH	2068#	
	IF-1	107#	(15 minutes)
	FF-1	179#	
	IF-2	158#	(90 minutes)
	FF-2	323#	
	ISIP	1905#	(60 minutes)
	FSIP	1818#	(200 minutes)
	BHT	133 degrees F.	

Mud weight 9.0#
Viscosity 36

Drillstem Tests - continued

Drillstem Test No. 2, 5850-5889' (39')

First Flow: Tool opened with a strong blow, increased to 15.0 psi at end of flow period. After shut-in, gas to surface in 6 minutes.

Second Flow: Tool opened with gas to surface. See gas volume chart below:

Time	PSIG	Orifice Size	MCF/D
1 minute	19	1/4"	45.5
5 minutes	21	1/4"	48.7
10 minutes	20	1/4"	47.1
15 minutes	18	1/4"	43.9
20 minutes	16	1/4"	40.9
25 minutes	14	1/4"	37.6
30 minutes	13	1/4"	35.9
35 minutes	12	1/4"	34.0
40 minutes	11	1/4"	32.4
45 minutes	10	1/4"	30.8
50 minutes	9	1/4"	29.0
55 minutes	8	1/4"	22.1
60 minutes	8	1/4"	22.1
70 minutes	8	1/4"	22.1
80 minutes	6	1/4"	22.9
90 minutes	6	1/4"	22.9

Sampler

Pressure in sampler	60 psig
Total volume of sampler	2100 cc
Total volume of sample	1200 cc
Oil	None
Water	None
Mud	1200 cc (heavy)
Gas	Trace

Sample R_W	2.3 @ 80 degrees F.	2200 ppm cl
Water R_W	10.0 @ 70 degrees F.	530 ppm cl
Mud Pit R_W	10.0 @ 70 degrees F.	530 ppm cl

Recovery in Pipe

Top sample	R_W:	10.0 @ 80 degrees F.	475 ppm cl
Middle sample	R_W:	2.3 @ 80 degrees F.	2200 ppm cl
Bottom sample	R_W:	10.0 @ 80 degrees F.	475 ppm cl

Drillstem Test No. 2 - continued

No cushion
Fluid Recovery: 180' mud = .079 barrels

Pressures:	IH	2790#	
	FH	2772#	
	IF-1	136#	(15 minutes)
	FF-1	132#	
	IF-2	88#	(90 minutes)
	FF-2	104#	
	ISIP	2252#	(60 minutes)
	FSIP	2524#	(210 minutes)
	BHT	152 degrees F.	

Mud weight 9.1#
Viscosity 33

Drillstem Tests - continued

Drillstem Test No. 3, 6082-6163' (81')

First Flow: Tool opened with strong blow to bottom of bucket and remained through flow period.

Second Flow: Tool opened with strong blow, gas to surface in 5 minutes. See gas volume chart below:

Time	PSIG	Orifice Size	MCF/D
5 minutes	1.0	1/4"	8.95
10 minutes	1.5	1/4"	11.02
15 minutes	1.5	1/4"	11.02
20 minutes	1.5	1/4"	11.02
25 minutes	1.0	1/4"	8.95
30 minutes	1.0	1/4"	8.95
35 minutes	1.0	1/4"	8.95
40 minutes	1.0	1/4"	8.95
45 minutes	1.0	1/4"	8.95
50 minutes	1.0	1/4"	8.95
55 minutes	1.0	1/4"	8.95
60 minutes	1.0	1/4"	8.95
65 minutes	1.0	1/4"	8.95
70 minutes	.75	1/4"	6.75
75 minutes	.75	1/4"	6.75
80 minutes	.75	1/4"	6.75
85 minutes	.75	1/4"	6.75
90 minutes	.75	1/4"	6.75

Sampler

Pressure in sampler	100 psig
Total valume in sampler	2150 cc
Total volume of sample	800 cc
Oil	None
Water	None
Mud	800' slightly gas-cut
Gas	.05 cubic feet

Sample R_W	2.0 @ 68 degrees F.	3,000 ppm cl
Water R_W	10.0 @ 50 degrees F.	725 ppm cl
Mud pit R_W	2.1 @ 60 degrees F.	3,200 ppm cl, 110 ppm nitrates

Recovery in Pipe

Top sample	R_W: 2.0 @ 68 degrees F.	3,000 ppm cl,	19 ppm nitrates
Middle sample	R_W: 2.0 @ 68 degrees F.	3,000 ppm cl,	38 ppm nitrates
Bottom sample	R_W: 2.0 @ 68 degrees F.	3,000 ppm cl,	23 ppm nitrates

Drillstem Test No. 3 - continued

No cushion
Fluid Recovery: 376' slightly gas-cut mud = 1.84 barrels

Pressures:	IH	2850#	
	FH	2837#	
	IF-1	119#	(15 minutes)
	FF-1	117#	
	IF-2	97#	(90 minutes)
	FF-2	146#	
	ISIP	522#	(60 minutes)
	FSIP	762#	(180 minutes)
	BHT	154 degrees F.	

Mud weight 9.0#
Viscosity 46

LITHOLOGIC DESCRIPTIONS

4370-4380' Sandstone 20%. Salt and pepper, light gray, light green, fair grained, occasionally medium grained, sub-angular, firm, with moderately well sorted, tight, slightly calcareous, slightly glauconitic.

Shale 80%. Medium to light gray, light green, lavendar, light brown, buff, firm to hard, blocky to flakey, occasionally splintery, slightly calcareous, glauconitic in part.

4380-4390' Sandstone 50%. Milky, salt and pepper, light gray, medium green, occasionally very fine grained, sub-angular to sub-rounded, firm, tight, calcareous.

Shale 50%.

4380-4400' Sandstone 70%. As above.

Shale 30%.

4400-4420' Sandstone 20%. As above.

Shale 80%. Light to medium gray, light green, lavendar, yellow-brown, light brown, firm, blocky to flakey.

4450-4460' Sandstone 20%. Salt and pepper, milky, light gray, medim grained, occasionally fine grained, sub-angular, predominantly well sorted, occasionally moderately sorted, slightly friable, slightly firm, predominantly tight, occasionally trace porosity, occasionally silty, occasionally glauconitic, very calcareous.

Shale 80%. Medium to light gray, light brown, light green, lavendar, yellow-brown, occasionally dark gray, firm to hard to brittle, blocky to flakey to splintery, slightly calcareous.

Limestone trace. White, micro-crystalline, firm, good porosity, earthy.

4460-4470' Sandstone 10%. As above.

Shale 90%. As above, occasionally maroon.

Limestone trace. White, micro-crystalline, firm, glossy, occasionally lavendar-gray, micro-crystalline, oolitic, hard, transparent.

4470-4490' Sandstone 30%. Light gray, salt and pepper, course to medium to very fine grained, sub-angular, firm to friable, well sorted, tight, occasionally silty, calcareous.

Shale 70%. As above.

Coal trace.

Lithologic Descriptions - continued

4490-4500'	Sandstone 20%. Milky, salt and pepper, medium grained, sub-angular, firm to friable, well sorted, tight, calcareous. Shale 80%. Predominantly medium to light gray, occasionally light brown, lavendar-brown, hard to brittle, blocky to flakey to splintery.
4500-4520'	Sandstone 60%. Clear, milky, salt and pepper, medium grained, occasionally very fine grained, well sorted, firm, tight, predominantly very clean, calcareous, very glauconitic. Shale 40%. As above.
4520-4550'	Sandstone 10%. As above. Shale 90%. Medium to light gray, maroon, lavendar, light green, light brown, yellow-brown, firm to brittle, blocky to splintery to platey, silty, slight to very calcareous.
4550-4640'	Shale 100%. Predominantly medium gray, occasionally light green, brick-red, lavendar-brown, yellow-brown, maroon, firm to brittle, blocky to flakey to splintery, slightly glauconitic. Sandstone trace. As above.
4640-4720'	Shale 100%. Brick-red, orange-brown, gray, light green, lavendar, yellow-brown, white, firm to brittle, blocky to flakey to splintery, occasionally glauconitic. Sandstone trace. As above.
4720-4730'	Sandstone 10%. Salt and pepper, occasionally light gray, fine grained, sub-angular, firm to friable, occasionally very hard, well sorted, tight, glauconitic, very calcareous. Shale 90%.
4730-4830'	Shale 100%. Gray, brick-red, occasionally yellow-brown, blocky to platey, to splintery, slightly calcareous, sandy in part, occasionally silty, occasionally slightly glauconitic.
4830-4850'	Sandstone 10%. Salt and pepper, light gray, fine grained, sub-rounded, hard, well sorted, tight, very calcareous, occasionally glauconitic. Shale 90%. As above.
4850-4870'	Shale 100%. Gray, light green, salmon red, occasionally lavendar, yellow-brown, flakey to blocky, occasionally splintery to fissile in part, silty in part. Limestone trace. White, micro-crystalline, firm, translucent.

Lithologic Descriptions - continued

4870-4880'	Sandstone 10%. Light gray, light green, milky, fine grained, sub-angular, firm, well sorted, tight, calcareous. Shale 90%. As above.
4880-4920'	Shale 100%. Sandstone trace. As above.
4920-4930'	Sandstone 30%. Clear, milky, salt and pepper, light gray, medium to fine grained, sub-angular, firm to friable, well sorted, some tight, some with poor porosity, calcareous. Shale 70%. Gray, brick-red, light green, lavendar, occasionally yellow-brown, hard to firm, blocky to flakey. Trace dolomite, white, light gray, micro-crystalline, firm to hard, dense, translucent to earthy.
4930-4940'	Sandstone 20%. As above. Shale 90%. As above. Limestone trace. White, micro-crystalline, firm, translucent.
4940-5000'	Shale 100%. Medium to dark gray, light green, brick-red, occasionally light brown, lavendar, firm to brittle, platey to blocky to splintery, silty in part, slightly glauconitic. Sandstone trace. Salt and pepper, light gray, fine grained, sub-angular, firm to friable, well sorted, tight, calcareous.
5000-5060'	Shale 100%. Gray, light green, lavendar, brick-red, occasionally yellow-brown, white, firm, blocky to flakey, calcareous in part, occasionally pyritic. Coal trace.
5060-5070'	Sandstone 20%. Salt and pepper, light gray, fine grained, sub-angular, hard to firm, well sorted, tight, calcareous. Shale 80%. As above.
5070-5080'	Shale 100%. As above.
5080-5100'	Sandstone 10%. Light gray, fine grained, sub-angular, firm to friable, well sorted, tight, calcareous. Shale 90%. Gray, light green, light brown, brick-red, lavendar, firm to brittle, blocky to silty to platey, slightly calcareous, silty in part.
5100-5130'	Shale 100%. As above.

Lithologic Descriptions - continued

5130-5140'	Sandstone 10%. Light gray, salt and pepper, beige, fine to medium grained, sub-angular, firm, well sorted, tight, calcareous. Shale 90%. As above. Dolomite trace, white, micro-crystalline, firm, dense, translucent.
5140-5150'	Shale 100%. As above.
5150-5170'	Sandstone 10%. Light gray, fine grained, sub-angular, firm, well sorted, tight, calcareous. Shale 90%. As above.
5170-5220'	Shale 100%. Medium to light gray, brick-red, salmon-red, light brown, blocky to splintery to flakey, firm, slightly calcareous. Sandstone trace. As above. Dolomite trace. As above.
5220-5260'	Sandstone 10%. Milky, white, fine grained, angular, firm, well sorted, tight, calcareous, occasionally pyritic. Shale 90%. Light to medium to dark gray, light green-gray, light brown, buff, occasionally lavendar, brick-red, very pyritic in part, very sandy in part, slight to very calcareous. Limestone white, micro-crystalline, brittle, translucent.
5260-5270'	Sandstone 20%. Clear, milky, light gray, salt and pepper, sub-angular, firm to friable, well sorted, poor to fair porosity, very calcareous. Shale 80%. Light to medium to dark gray, light to medium brown, brick-red, lavendar, yellow-brown, firm to hard to soft, occasionally brittle, blocky to flakey to platey to fissile to hackly. Coal trace.
5270-5280'	Sandstone 30%. White, milky, light gray, fine to very fine grained, occasionally medium grained, sub-angular, firm, well sorted, tight, very calcareous. Shale 70%. As above.
5280-5300'	Sandstone 20%. As above. Shale 80%. As above.
5300-5310'	Sandstone 30%. Clear, milky, salt and pepper, medium to fine grained, occasionally very fine grained, sub-rounded to rounded, well sorted, friable, fair porosity, calcareous.

Lithologic Descriptions - continued

Shale 70%. Predominantly medium gray, occasionally brick-red, light brown, yellow-brown, blocky to splintery to fissile to flakey, slightly calcareous.

5310-5330' Sandstone 40%. As above.

Shale 60%. As above.

5330-5340' Sandstone 10%. As above.

Shale 90%. As above.

5340-5360' Sandstone 30%. Clear, milky, fine to medium grained, occasionally coarse grained, sub-rounded, firm to friable, moderately well sorted, poor porosity, calcareous.

Shale 70%. As above.

5360-5380' Sandstone 10%. As above.

Shale 90%. Light to medium gray, light brown, brick-red, occasionally yellow-brown, dark gray, hard to firm, blocky to platey to flakey, fissile in part, slightly calcareous.

Coal trace.

5380-5390' Sandstone 30%. As above.

Shale 70%. As above.

5390-5400' Sandstone 10%. As above.

Shale 90%. As above.

5400-5410' Shale 10%. As above.

Coal 90%. Vitreous, brittle.

Sandstone trace.

5410-5420' Shale 90%. Light to medium gray, occasionally brick-red, yellow-brown, light brown, white, black, carbonaceous, firm to hard, blocky to flakey to splintery.

Coal 10%. Vitreous, brittle

Sandstone trace.

5420-5430' Sandstone 20%. Light gray, fine grained, sub-rounded, firm to hard, well sorted, tight, slightly calcareous.

Shale 70%. As above.

Coal 10%. Slightly fissile, slightly vitreous, brittle.

Lithologic Descriptions - continued

5430-5440'	Sandstone 10%. As above. Shale 90%. As above
5440-5450'	Sandstone 50%. Clear, milky, predominantly medium grained, occasionally fine to very fine grained, sub-angular, firm to hard, moderately well sorted, tight, calcareous. Shale 50%. As above.
5450-5460'	Sandstone 30%. As above. Shale 70%. Light to medium to dark gray, light to medium brown, brick-red, lavendar, yellow-brown, buff, white, firm to hard, blocky to flakey, occasionally fissile, slightly calcareous.
5460-5470'	Sandstone 20%. As above. Shale 80%. As above.
5470-5480'	Sandstone 10%. As above. Shale 90%. As above.
5480-5490'	Sandstone 30%. Clear, light to medium gray, medium to very fine grained, sub-rounded to rounded, firm to hard, moderately well sorted, tight, calcareous. Shale 70%. As above.
5490-5500'	Sandstone 20%. As above. Shale 80%. As above.
5500-5510'	No sample
5510-5560'	Sandstone 10%. Light gray, salt and pepper, white, fine grained, occasionally medium grained, sub-angular, firm, well sorted, tight, slightly calcareous. Shale 90%. Light to medium to dark gray, light green, buff, brick-red, brown, yellow-brown, blocky to flakey, occasionally hackly, occasionally black, fissile, carbonaceous. Coal trace.
5560-5570'	No sample.
5570-5580'	Shale 60%. Medium gray, light to medium brown, occasionally lavendar, light gray, firm to hard, blocky to flakey to platey, slightly calcareous, silty in part. Sandstone 10%. Salt and pepper, white, light gray, fine to medium grained, sub-angular to angular, firm to hard, well sorted, tight, calcareous.

Lithologic Descriptions - continued

	Coal 30%. Vitreous, brittle
5580-5600'	Sandstone 10%. As above.
	Shale 90%. As above.
5600-5640'	Sandstone 20%. Salt and pepper, light gray, tan, clear, medium to fine grained, sub-rounded to sub-angular, firm, well sorted, tight, calcareous.
	Shale 80%. Medium to light gray, brown, yellow-brown, occasionally black carbon, firm to hard, blocky to flakey, predominantly calcareous.
	Coal trace.
5640-5660'	Sandstone 20%. As above.
	Shale 60%. As above.
	Coal 20%. Slightly vitreous, slightly fissile, brittle.
5660-5710'	Sandstone 20%. Light gray, salt and pepper, clear, milky, fine to medium grained, sub-angular to sub-rounded, occasionally round, friable to firm, some moderately well sorted, some well sorted, tight, calcareous, occasionally glauconitic.
	Shale 80%. Medium to dark gray, brown, occasionally white, brick-red, black carbon, firm to hard, blocky to flakey, predominantly calcareous.
5710-5740'	Sandstone 30%. as above.
	Shale 70%. As above.
5740-5750'	Sandstone 20%. Salt and pepper, light gray, milky, fine grained, occasionally medium to very fine grained, sub-angular, firm, well sorted, tight, calcareous.
	Shale 80%. As above.
5750-5770'	Sandstone 30%. As above, occasionally blue-green, very fine grained, firm, well sorted, very glauconitic.
	Shale 70%. Predominantly medium gray, occasionally salmon-red, light brown, firm to hard, blocky to flakey.
5770-5790'	Sandstone 10%. As above.
	Shale 90%. As above.
	Pyrite trace.
5790-5800'	Sandstone 20%. As above.
	Shale 80%. As above.

Lithologic Descriptions - continued

5800-5810'	Shale 100%. As above Sandstone trace. As above.
5810-5830'	Sandstone 10%. White, cream, fine grained, sub-angular to sub-rounded, firm, occasionally friable, well sorted, tight, calcareous. Shale 90%. Predominantly medium to dark gray, black, carbonaceous, occasionally light brown, brick-red, firm, blocky to platey, occasionally hackly to fissile, slightly calcareous. Coal trace, slightly vitreous, brittle, slightly fissile.
5830-5850'	Shale 100%. As above. Sandstone trace. As above.
5850-5860'	Sandstone 10%. White, clear, light gray, fine to medium grained, sub-rounded, firm, well sorted, tight, calcareous. Shale 90%. As above.
5860-5870'	Sandstone 70%. Clear, medium to coarse grained, occasionally fine grained, sub-rounded to rounded, friable, well sorted, good porosity, slightly calcareous, unconsolidated. Shale 30%. As above.
5870-5880'	Sandstone 80%. As above. Shale 20%. Predominantly medium gray, occasionally maroon, salmon-red, light brown, yellow-brown, firm, blocky, occasionally platey.
5880-5900'	Sandstone 20%. Salt and pepper, light gray, medium to fine grained, sub-angular to angular, firm to hard. Shale 80%. As above, well sorted, tight, predominantly calcareous.
5900-5910'	Sandstone 10%. As above. Shale 90%. Medium to dark gray, light green, salmon-red, occasionally yellow-brown, firm to hard, blocky to flakey to platey, slightly calcareous.
5910-5920'	Sandstone 30%. White, clear, medium to fine grained, occasionally very fine to coarse grained, sub-rounded to sub-angular, occasionally round, firm to friable, well sorted, some tight, slight to poor porosity, predominantly calcareous. Shale 70%. As above.
5920-5930'	Sandstone 20%. As above Shale 80%. As above.

Lithologic Descriptions - continued

5930-5940'	Sandstone 40%. Predominantly salt and pepper, occasionally light gray, fine to medium grained, sub-angular to angular, firm to hard, well to moderately well sorted, tight, calcareous. Shale 60%. Predominantly medium to dark gray, occasionally light brown, salmon-red, yellow-brown, firm to hard, blocky to flakey, slightly calcareous.
5940-5950'	Sandstone 30%. As above. Shale 70%. As above.
5950-5960'	Sandstone 50%. As above. Shale 50%. As above.
5960-5970'	Sandstone 40%, As above. Shale 60%. As above.
5970-5980'	Sandstone 60%, predominantly white, occasionally salt and pepper, predominantly fine grained, occasionally medium grained, sub-angular, firm, predominantly well sorted, occasionally moderately to well sorted, tight. Shale 40%. As above.
5980-6000'	Sandstone 50%. As above. Shale 50%. Predominantly dark to medium gray, occasionally salmon-red, light brown, firm to hard, blocky to platey, occasionally splintery, slightly calcareous.
6000-6010'	Sandstone 60%. As above. Shale 30%. As above. Coal 10%.
6010-6020'	Sandstone 70%. White, occasionally clear, fine to medium grained, sub-rounded to sub-angular, firm, occasionally friable, well sorted, slightly tight, some with poor porosity, calcareous. Shale 30%. As above.
6020-6060'	Sandstone 60%. As above. Shale 40%. Medium to dark gray, black carbon, occasionally brick-red, lavendar, orange-brown, firm to hard, blocky, slightly calcerous.
6060-6090'	Sandstone 50%. White, cream, occasionally salt and pepper, fine grained, occasionally medium grained, firm, well sorted, occasionally

Lithologic Descriptions - continued

moderately well sorted, tight, calcareous.

Shale 50%. As above.

6090-6120' Sandstone 70%. Cream, salt and pepper, medium to fine grained, round to sub-rounded, slightly sub-angular, firm, occasionally friable, well sorted, slightly tight, slight to poor porosity, calcareous.

Shale 30%. As above.

Coal trace.

6120-6140' Sandstone 60%. As above.

Shale 40%. Predominantly dark gray, black, carbonaceous, occasionally medium to dark brown, tight, green, brick-red, salmon-red, yellow-brown, firm to hard, blocky, slightly calcareous,

6140-6150' Sandstone 50%. As above.

Shale 50%. As above.

6150-6160' Sandstone 70%. Predominantly cream, occasionally salt and pepper, predominantly fine grained, occasionally medium grained, sub-rounded to sub-angular, well sorted, some with poor to fair porosity.

Shale 30%. Dark gray, occasionally salmon-red, lavendar, firm to hard, predominantly blocky, occasionally hackly, slightly calcareous.

PTS #14-10 Federal
Uintah Co., Utah

QUANTITATIVE LOG INTERPRETATION

Point No	Depth Interval	Porosity Sonic	Porosity Density	Porosity Neutron	R_w	R_t	S_w	Max. Gas Units	Back-ground Gas Units	Remarks
1	4398-06'	16%	12%	14%	.1	14	60%	600	50	
2	4411-17'	14%	7%	14%	.1	13	63%	?	?	
3	4686-01'	22%	16%	21%	.1	10	53%	400	25	
4	5262-78'	20%	15%	17%	.1	12	54%	500	5	Gross plot indicate sandstone.
5	5305-36'	20%	17%	17%	.1	10	55%	600	30	Gross plot indicate sandstone.
6	5348-57'	17%	?	17%	.1	16	47%	280	50	Densilog washed out
7	5483-94'	15%	15%	15%	.1	26	41%	310	40	Rugose borehole.
8	5791-97'	17%	13%	17%	.1	18	50%	260	20	
9	5848-84'	17%	16%	15%	.1	27	38%	840	25	Cross plot indicate gas side of sand strong.
10	5907-19'	19%	15%	19%	.1	10	59%	360	80	
11	5964-66'	23%	24%	26%	.1	9	42%	115	70	Rugose borehole.
12	5977-86'	14%	8%	15%	.1	21	58%	170	95	
13	5996-14'	15%	13%	16%	.1	20	47%	380	100	
14	6082-96'	14%	10%	15%	.1	19	56%	420	210	
15	6102-04'	17%	13%	18%	.1	15	51%	620-?	210	
16	4920-28'	17%	13%	19%	.1	15	51%	340	5	

References:

T_m = 19,500 ft/s

T_f = 5,300 ft/s

D_g = 2.68 g/cc

D_f = 1.00 g/cc

NATURAL GAS CORPORATION OF CALIFORNIA

OPERATIONS HEADQUARTERS
308 DURBIN CENTER BUILDING
145 SOUTH DURBIN STREET
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

DEE E. BEARDSLEY
MANAGER OF OPERATIONS

May 23, 1980

Mr. R. W. Sharp
ENSERCH EXPLORATION, INC.
Metrobank Building, Suite 1322
Denver, Colorado 80202

Mr. E. L. Latham, Jr.
Lea County Airport
Hobbs, New Mexico 88240

Mr. J. Milton Wege
RALPH E. DAVIS & ASSOCIATES
500 Jefferson, Suite 2031
Houston, Texas 77002

Re: Geological Well Report
PTS #14-10 Federal
Sec. 10, T9S, R24E
Uintah County, Utah
Dveils Playground Area

Gentlemen,

Please find enclosed your required number of copies of the Geological Well Report for the above-reference well.

Yours very truly,

Original Signed By
DEE E. BEARDSLEY

DEE E. BEARDSLEY
Manager of Operations

DEB:a
cc: Mr. J. C. Osmond
Mr. E. R. Henry
Mr. R. J. Firth
Geological Survey-Conservation Div.
(Mr. E. W. Guynn)
Division of Oil, Gas & Mining
(Mr. Frank Hamner)

encl.

RECEIVED
MAY 27 1980
DIVISION OF
OIL, GAS & MINING

P A C I F I C T R A N S M I S S I O N S U P P L Y

Pacific Transmission Federal #14-10

SW SW Section 10: T9S - R24E

Uintah County, Utah

Prepared by: HELTON ENGINEERING & GEOLOGICAL SERVICES, INC.
Suite 329 - 2929 3rd Avenue North
Billings, Montana 59101

Telephone: (406) 248-3101

HELTON ENGINEERING & GEOLOGICAL SERVICES, INC.

DEVIATION SURVEY SUMMARY

WELL NAME: Federal #14-10 LOCATION: Sec. 10: T9S-R24E
Uintah Co., Utah

DEPTH FEET	DEVIATION DEGREES	CHANGE DEGREES	INTERVAL FEET	Rate of Change Degrees/100 Ft.
204	1/4	1/4	204	0.123
493	1/4	0	289	- - -
750	1/4	0	257	- - -
978	1/4	0	228	- - -
1480	1/2	1/4	502	0.050
2720	1	1/2	1240	0.040
3405	1 1/4	1/4	685	0.036
3999	2 1/4	1	594	0.168
4245	2	1/4	246	0.102
4377	1 1/2	1/2	132	0.379
5407	3 3/4	2 1/4	1030	0.218
5889	3	3/4	482	0.156
6163	3	0	274	- - -

Form HE-D5

HELTON ENGINEERING & GEOLOGICAL SERVICES, INC.

CASING SUMMARY

WELL NAME: Pacific Transmission Federal #14-10 DATE: March 12, 1980

LOCATION: Section 10: T9S - R24E, Uintah Co., Utah

SURFACE CASING _____ INTERMEDIATE CASING X PRODUCTION CASING _____ LINER _____ OD 9 5/8"

JTS ON LOCATION	FT ON LOCATION	CASING WEIGHT	GRADE	RANGE	THREAD	T & C	MAKE	JTS RUN	DEPTH LANDED	FT RUN IN WELL
68	2715.83	36#	K	III	8rd	ST&C	ARMCO	68	2716.08	2715.83

Shoe:	Make BAKER	Type CEMENT GUIDE SHOE	Length	1.20
Collar:	Make BAKER	Type MODEL "G" FILL-UP	Length	2.05
DV Tool	Make	Type	Length	
Landing Joint (when used) Length				
Overall Length of Casing String				2719.08
Feet above KB (Subtract)				3.00
Setting Depth: Log		Driller	Tally	2716.08
Shoe Joint: Overall			(Subtract)	44.00
Float Collar Landed Log		Driller	Tally	2672.08

KB to Csg Flg 13 ft Cut off 16.00 ft

CENTRALIZERS

Make BAKER Number 5

Positions 2632, 2218, 1812, 1421 & 1029 ft.

SCRATCHERS

Make _____ Number _____

Positions _____

No. of Joints Welded Baker locked - cement guide shoe and fill-up collar.

Remarks

SUPERVISOR JOE MONCE

HELTON ENGINEERING & GEOLOGICAL SERVICES, INC.

RUNNING AND CEMENTING

Well Name: Pacific Transmission Federal #14-10 Date: March 12, 1980

Location: Section 10: T9S - R24E, Uintah County, Utah

Surface Casing _____ Intermediate Casing X Production Casing _____ Liner _____ OD 9 5/8"

KB Elevation 5232 feet KB Csg Flg 13 Total Depth (Driller) 2720 feet

Hole Size	12 1/4"			Casing in Hole	9 5/8"	
Depth	2720'			Depth Set	2716'	

Mud: Type Low solids-non dispersed Wt 8.8 Vis 40 WL _____

BOPs _____

RUNNING

Power Tongs 9 5/8" Torque: Max 5290# Nom 4230# Min 3170#

Time pipe started 4:00 PM Time on Bottom 8:30 PM Time Circulated 1 Hour

Fill-up Points -None- Btm by Csg 2716' Ft up from KB 3.0'

Remarks _____

CEMENTING

Cement Co. DOWELL Operator GLEN McKEE Time on Location 4:00 PM

Types & Quantities of Cement 700 sacks 50-50 Pozmix, 6% gel, 12½# D-24 Koolite plus 2% $CaCl_2$, plus 100 sacks Class "G" cement plus 2% $CaCl_2$. Ht to be Cemented Surface

Water ahead 10 bbls Mix Times: Start 9:50 PM Finish 10:40 PM Slurry Wt 12.7 - 15.8

Calc Disp 206 bbls Measured Disp 206 bbls Displacement: Start 10:40 PM Finish 11:15 PM

Max. Pumping Press 1000 Bump Press 1500 Bumped by Dowell Times Bumped 1

Cement Returns: Yes/No NO Float held YES Work Casing NO feet while Circulating/Cementing

Remarks: _____

LANDING

Time Landed 6:00 AM Date 3/13/80 String Wt Before Cementing 100 After _____

Wt of Blocks _____ Wt on Slips 60 Slip & Seal _____

Make of Bowl WKM Series 3000# Type _____ Size 10"

Remarks _____

SUPERVISOR JOE MONCE

HELTON ENGINEERING & GEOLOGICAL SERVICES, INC.

CASING SUMMARY

WELL NAME: Pacific Transmission Federal #14-10 DATE: March 30, 1980

LOCATION: Section 10: T9S - R24E, Uintah Co., Utah

SURFACE CASING _____ INTERMEDIATE CASING _____ PRODUCTION CASING X LINER _____ O D 4 1/2"

JTS ON LOCATION	FT ON LOCATION	CASING WEIGHT	GRADE	RANGE	THREAD	T & C	MAKE	JTS RUN	DEPTH LANDED	FT RUN IN WELL
170	6434.16	11.6	N-80	III	8rd	LT&C		163	6164.39	6166.49

Shoe:	Make Dowell	Type Cement Guide Shoe	Length	1.00
Collar:	Make Dowell	Type Automatic Fill-Up	Length	2.10
DV Tool	Make Dowell	Type 2-Stage Collar	Length	2.40
Landing Joint (when used) Length				
Overall Length of Casing String				6171.99
Feet above KB (Subtract)				7.60
Setting Depth: Log		Driller	Tally	6164.39
Shoe Joint: Overall			(Subtract)	38.24
Float Collar Landed Log		Driller	Tally	6126.15

KB to Csg Flg 12 ft Cut off 18.0 ft

CENTRALIZERS

Make Dowell Number 10

Positions 6088, 5896, 5706, 5515, 5326, 5134, 5019, 4943, 4752, 4561.

SCRATCHERS

Make _____ Number _____

Positions _____

No. of Joints Welded Dowell locked all float equipment.

Remarks 2-Stage collar at 4981.76 feet and cement basket at 5018 feet.

SUPERVISOR JOE MONCE

HELTON ENGINEERING & GEOLOGICAL SERVICES, INC.

RUNNING AND CEMENTING

Well Name: Pacific Transmission Federal #14-10 Date: March 30, 1980

Location: Section 10: T9S - R24E, Uintah County, Utah

Surface Casing _____ Intermediate Casing _____ Production Casing X Liner _____ OD 4 1/2"

KB Elevation 5232 feet KB Csg Flg 13 Total Depth (Driller) 6163 feet

Hole Size	7 7/8"			Casing in Hole	4 1/2"	
Depth	6165'			Depth Set	6164.39'	

Mud: Type Low solids-non dispersed Wt 9.0 Vis 40 WL _____

BOPs 10" 3000# Schaffer

RUNNING

Power Tongs Parrish Torque: Max 2850# Nom 2280# Min 1710#

Time pipe started 10:00 PM Time on Bottom 3:00 AM Time Circulated 2 1/2 hours

Fill-up Points None Btm by Csg 6164 feet Ft up from KB 7.60

Remarks _____

CEMENTING

Cement Co. DOWELL Operator Ken Carpenter Time on Location 12:00 MN

Types & Quantities of Cement 1st Stage-250 Sacks FRC 10-0 plus 100 sacks Class "G" cement.

2nd Stage-300 sacks RFC 10-0 cement. Ht to be Cemented 3000'

Water ahead 10 flush bbls Mix Times: Start 1st-5:35 AM 2nd-9:20 AM Finish 1st-5:50 AM 2nd-9:35 AM Slurry Wt 13.7 - 15.5#

Calc Disp 1st-95 2nd-77 bbls Measured Disp 1st-94 2nd-76 bbls Displacement: Start 1st-5:55 AM 2nd-9:40 AM Finish 1st-6:15 AM 2nd-9:55 AM

Max. Pumping Press 1500 Bump Press 2500 Bumped by Water Times Bumped 1

Cement Returns: Yes/No NO Float held YES Work Casing NO feet while Circulating/Cementing

Remarks: Dropped bomb at 6:18 AM and opened 2nd Stage ports at 6:40 AM. Circulated for three hours.

LANDING

Time Landed 12:30 PM Date 3/30/80 String Wt Before Cementing 80 After _____

Wt of Blocks _____ Wt on Slips 60 Slip & Seal _____

Make of Bowl WKM Series 3000 Type _____ Size 10"

Remarks _____

SUPERVISOR JOE MONCE

LOGS

INJECTION FLUID ANALYSIS

PACIFIC TRANSMISSION SUPPLY COMPANY
NATURAL GAS CORPORATION OF CALIFORNIA
308 DURBIN CENTER BUILDING
145 SOUTH DURBIN STREET
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

GEOLOGICAL WELL REPORT

PACIFIC TRANSMISSION SUPPLY COMPANY

DEVILS PLAYGROUND-PTS #14-10 FEDERAL

SECTION 10, TOWNSHIP 9 SOUTH, RANGE 24 EAST

UINTAH COUNTY, UTAH

Submitted by: Erik Enquist, Geologist
Natural Gas Corp of Calif
April 15, 1980

PACIFIC TRANSMISSION SUPPLY COMPANY
NATURAL GAS CORPORATION OF CALIFORNIA
308 DURBIN CENTER BUILDING
145 SOUTH DURBIN STREET
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

DEE E. BEARDSLEY
MANAGER OF OPERATIONS

WELL DATA

PTS #14-10 FEDERAL
Sec. 10, T9S, R24E
Uintah County, Utah
Devils Playground Unit

OPERATOR:	Pacific Transmission Supply Company
LEGAL LOCATION:	714' FSL, 786' FWL SW SW Sec. 10, T9S, R24E
WELL NAME:	PTS #14-10 Federal Devils Playground Unit
COUNTY AND STATE:	Uintah County, Utah
ELEVATIONS:	5218' Ground (ungraded) 5232' K.B.
CONTRACTOR:	Olsen Drilling Company, Rig #2
SPUD DATE:	Dry Hole 2/27/80 Drilling Contractor 3/6/80
SURFACE CASING:	13-3/8" to 124' 9-5/8" (36#, K-55) to 2716' 4-1/2" (11.6#, N-80) to 6163'
HOLE SIZE:	12-1/4" to 2720' 7-7/8" to 6163'
FLUIDS CONTRACTOR:	Magcobar Drilling Fluid Services Vernal, Utah
DRILLSTEM TESTS:	Lynes, Rock Springs, Wyoming (See DST reports)
LOGGING DATA:	Dresser Atlas, Roosevelt, Utah 140-2726' - DIFL w/SP, Densilog w/GR and Caliper, Comp. Neutron-Density w/GR and Caliper, BHC Acoustilog w/GR and Caliper 2718-6165' - DIFL w/GR, Densilog w/GR and Caliper, Comp. Neutron-Density w/GR and Caliper

Well Data - continued

MUD LOGGING:	Rocky Mountain Geo-Engineering Company Grand Junction, Colorado
CORES:	None
TOTAL DEPTH:	6163' - Driller 6165' - Logger
CEASED DRILLING:	March 26, 1980 - rig released March 30, 1980

CHRONOLOGICAL WELL HISTORY

Date	Drilled to	Hours Drilling	Activity
3-6-80	128'		Spud 8 A.M.
3-7-80	522'	14-1/2	Test BOP's; drill cement; drilling.
3-8-80	1322'	22-1/4	Drilling.
3-9-80	1788'	20	Drilling; lost circulation problem.
3-10-80	2076'	15-3/4	Mix LCM; trip for bit #1; drilling.
3-11-80	2483'	23-1/4	Drilling.
3-12-80	2720'	12-1/4	Drilling; trip for logs; logging
3-13-80	2720'	0	Logging; run 9-5/8" casing; WOC, nipple down BOP's.
3-14-80	2771'	4	Set casing slips; cut off casing; test BOP's; drilling cement; drilling.
3-15-80	3392'	21-3/4	Drilling.
3-16-80	3980'	23	Drilling.
3-17-80	4287'	20-3/4	Drilling.
3-18-80	4418'	8	Drilling; trip for DST #1; run DST.
3-19-80	4592'	11-1/2	Run DST; trip out DST; drilling.
3-20-80	4805'	17-1/4	Drilling; trip to change collars.
3-21-80	5083'	23-1/4	Drilling.
3-22-80	5262'	17-1/4	Drilling; trip for bit #4.
3-23-80	5589'	22-1/2	Drilling.
3-24-80	5817'	23-1/2	Drilling.
3-25-80	5889'	5-1/2	Drilling; trip for DST #2; run DST.
3-26-80	6067'	13-1/4	Run DST; drilling.
3-27-80	6163'	5	Drilling; condition hole for logs; trip for logs; logging.
3-28-80	6163'	0	Logging; run DST #2

BIT RECORD

No.	Make	Type	Size	In	Out	Total Ftg.	Hours
1	Smith	F-4	12-1/4"	128'	1790'	1662'	56-3/4
2	Smith	F-3	12-1/4	1790'	2720'	930'	51-1/4
3	Smith	F-45	7-7/8"	2720'	4418'	1698'	77-1/2
4	Hughes	J-33	7-7/8"	4418'	5225'	807'	66-1/4
5	Smith	F-45	7-7/8"	5225'	5889'	664'	54-1/2
6	Security	S-86F	7-7/8"	5889'	6163'	274'	18-1/2

DEVIATION

Depth	Deviation
204'	1/4 deg.
493'	1/4 deg.
750'	1/4 deg.
978'	1/4 deg.
1480'	1/2 deg.
2720'	1 degree
3405'	1-1/4 deg.
3999'	2-1/4 deg.
4245'	2 degrees
4377'	1-1/2 deg.
5407'	3-3/4 deg.
5889'	3 degrees
6163'	3 degrees

Natural Gas Corporation of California

85 South 200 East
Vernal, Utah 84078
(801) 789-4573

May 27, 1980

Mr. E. W. Guynn (3)
GEOLOGICAL SURVEY-CONSERVATION DIV.
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104

Mr. Frank M. Hamner (1)
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, UT 84116

Mr. E. L. Latham, Jr. (1)
Lea County Airport
Hobbs, New Mexico 88240

Richard Smith (1)
ENSERCH EXPLORATION, INC.
Metrobank Bldg., Suite 1322
Denver, CO 80202

J. Milton Wege (1)
RALPH E. DAVIS & ASSOCIATES
500 Jefferson, Suite 2031
Houston, TX 77002

Re: PTS #14-10 Fed., Devils Playground
SW SW Section 10, T9S, R24E
Uintah County, UT

Gentlemen:

Enclosed are your required number of copies of Form 9-331, Sundry Notices and Reports on Wells, Subsequent Report of Plug-back Operations dated May 27, 1980 for the above referenced well.

Very truly yours,

R. J. Firth
Petroleum Engineer

RECEIVED
MAY 29 1980
DIVISION OF OIL, GAS, & MINING

RJF/kh
Encls.
cc: J. C. Osmond
E. R. Henry
D. E. Beardsley
C. T. Clark (Cover Letter Only)
Rod Boschee

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [ ] GAS WELL [X] OTHER

7. UNIT AGREEMENT NAME: Devils Playground

2. NAME OF OPERATOR: Pacific Transmission Supply Company

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, WY 82602

9. WELL NO.: 14-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

714' FSL, 786' SWL, SW SW Section 10, T9S, R24E

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5232' KB

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Plug-back Operations			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 6163'. PBTD 6120'.
4-1/2", 11.6#, N-80 production casing at 6162' with stage cementing collar at 4972'. Cemented thru shoe with 350 sacks cement and thru stage cementing collar with 300 sacks cement.

Perforated Mesayerde formation 5996'-6010' and 6082'-90' with 1 SPF. Acidized with 2,000 gals. 7-1/2% HCl acid at 4-1/2 bpm rate and 3900 psig pressure. Swabbed and flow tested for 4 day period at approximately 1/2 bwph with weak gas flare TSTM. Set cast iron bridge plug in 4-1/2" casing at 5970' with 1 sack cement on top.

Above described plug-back procedures discussed with Mr. E. W. Guynn, United States Geological Survey, May 19, 1980.

RECEIVED MAY 29 1980 DIVISION OF OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED R. J. Firth TITLE Petroleum Engineer DATE May 27, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

3-USGS,UT; 1-OG&M, UT; 1-Enserch; 1-Ralph E. Davis; 1-E. L. Latham; 1-J. Osmond; 1-E.R. Henry; 1-D. E. Beardsley; 1-Rod Boschee

*See Instructions on Reverse Side

Form 9-331
(May 1968)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [ ] GAS WELL [X] OTHER

Conditionally APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: 6-19-80
BY: M J Minder

7. UNIT AGREEMENT NAME: Devils Playground

2. NAME OF OPERATOR: Pacific Transmission Supply Company

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, WY 82602

9. WELL NO.: 14-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
714' FSL, 786' SWL, SW SW Section 10, T9S, R24E

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5232' KB

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[X]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 6163' PBTD 6120'
4-1/2", 11.6#, N-80 production casing at 6162' with stage cementing collar at 4972'. Cemented thru shoe with 350 sacks cement and thru stage cementing collar with 300 sacks cement. Estimated TOC 4100'. 9-5/8", 36.0#, K-55 intermediate casing at 2716' and cemented to surface with 800 sacks cement.

Use 10#, 45-50 vis mud between plugs

Perforations: Mesaverde - 5996'-6010' & 6082'-90'
Plugged off with CIBP at 5970' with 10 sacks cement on top.
Mesaverde - 5852'-68' & 5872'-82'
Wasatch - 5264'-74', 5312'-20', 5326'-34'

Propose to equalize abandonment cement plugs as follows:

Plug no. 1 Squeeze perforations 5852'-82' with minimum of 50' cement above-35 sxs cement
Plug no. 2 Squeeze perforations 5264'-5334' with a minimum of 50' cement above-35 sxs cement
Shoot off and pull 4-1/2" casing at 4000'.
Plug no. 3 50' in and 100' out of casing stub.- 55 sxs cement
Plug no. 4 150' in and 50' out of 9-5/8" casing - 75 sxs cement
Plug no. 5 At surface with marker - 25 sxs cement

A regulation dryhole marker will be installed and the location site cleaned, restored and rehabilitated in conformance with the surface use plan. The above described abandonment procedures approved by Mr. R. A. Henricks, June 16, 1980.

18. I hereby certify that the foregoing is true and correct

SIGNED R. J. Firth TITLE Petroleum Engineer DATE June 17, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

3-USGS,UT; 1-OG&M,UT; 1-Enserch; 1-DeGolyer & MacNaughton; 1-E. L. Latham; 1-JCOsmond; 1-ERHenry; 1-D.E.Beardsley; 1-Rod Boschee

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Devils Playground

8. FARM OR LEASE NAME: Federal

9. WELL NO.: 14-10

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 10, T9S, R24E

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, WY 82602

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 714' FSL, 786' FWL, SW SW, Section 10, T9S, R24E
At top prod. interval reported below
At total depth

14. PERMIT NO. | DATE ISSUED

15. DATE SPUDDED: 2/26/80 | 16. DATE T.D. REACHED: 3/26/80 | 17. DATE COMPL. (*Ready to prod.*): P&A 6/19/80 | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 5232' KB | 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD: 6163' | 21. PLUG, BACK T.D., MD & TVD | 22. IF MULTIPLE COMPL., HOW MANY* | 23. INTERVALS DRILLED BY → | ROTARY TOOLS: 142'-6163' | CABLE TOOLS: 0-142'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: None

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIFL, Densilog, Comp. Neutron-Density, BHC Acoustilog

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48.0	138'	17-1/2"	175 sacks	None
9-5/8"	36.0	2716'	12-1/4"	800 sacks	None
4-1/2"	11.6	6162'	7-7/8"	350 sacks	4030'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None		

31. PERFORATION RECORD (*Interval, size and number*)

Wasatch
5264'-74' 1 SPF
5312'-20' 1 SPF
5326'-34' 1 SPF

Mesaverde
5852'-68' 1 SPF
5872'-82' 1 SPF
5996'-6010' 1 SPF
6082'-90' 1 SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5996'-6090'	2000 gals. 7-1/2% HCl acid
5852'-5868'	2500 gals. 7-1/2% HCl acid
5312'-5334'	800 gals. 7-1/2% HCl acid

33.* PRODUCTION

DATE FIRST PRODUCTION: P&A 6/19/80 | PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): | WELL STATUS (*Producing or shut-in*): P & A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

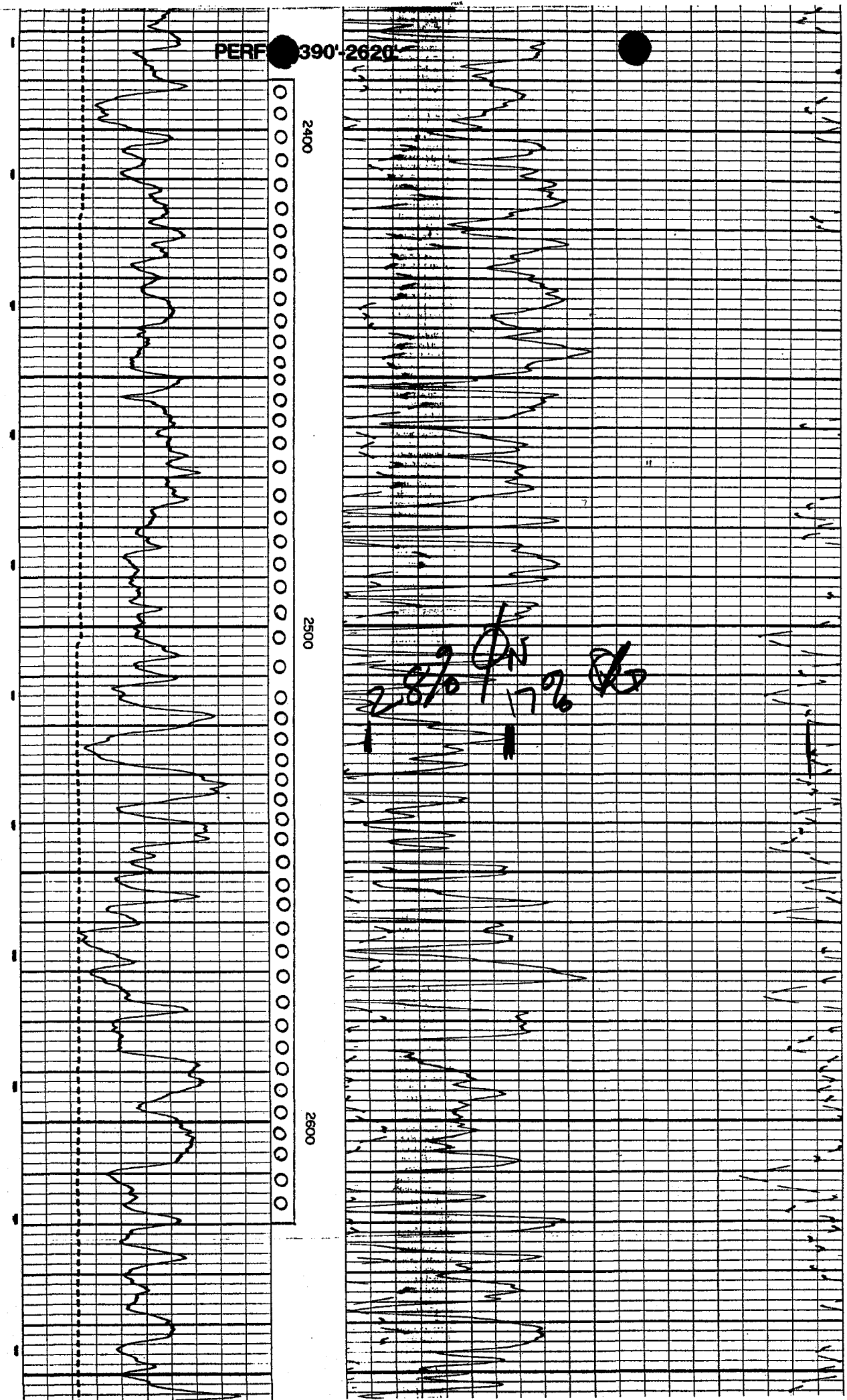
34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): | TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Geological well report submitted 5/23/80.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED: R. J. Firth | TITLE: Petroleum Engineer | DATE: June 30, 1980

*(See Instructions and Spaces for Additional Data on Reverse Side)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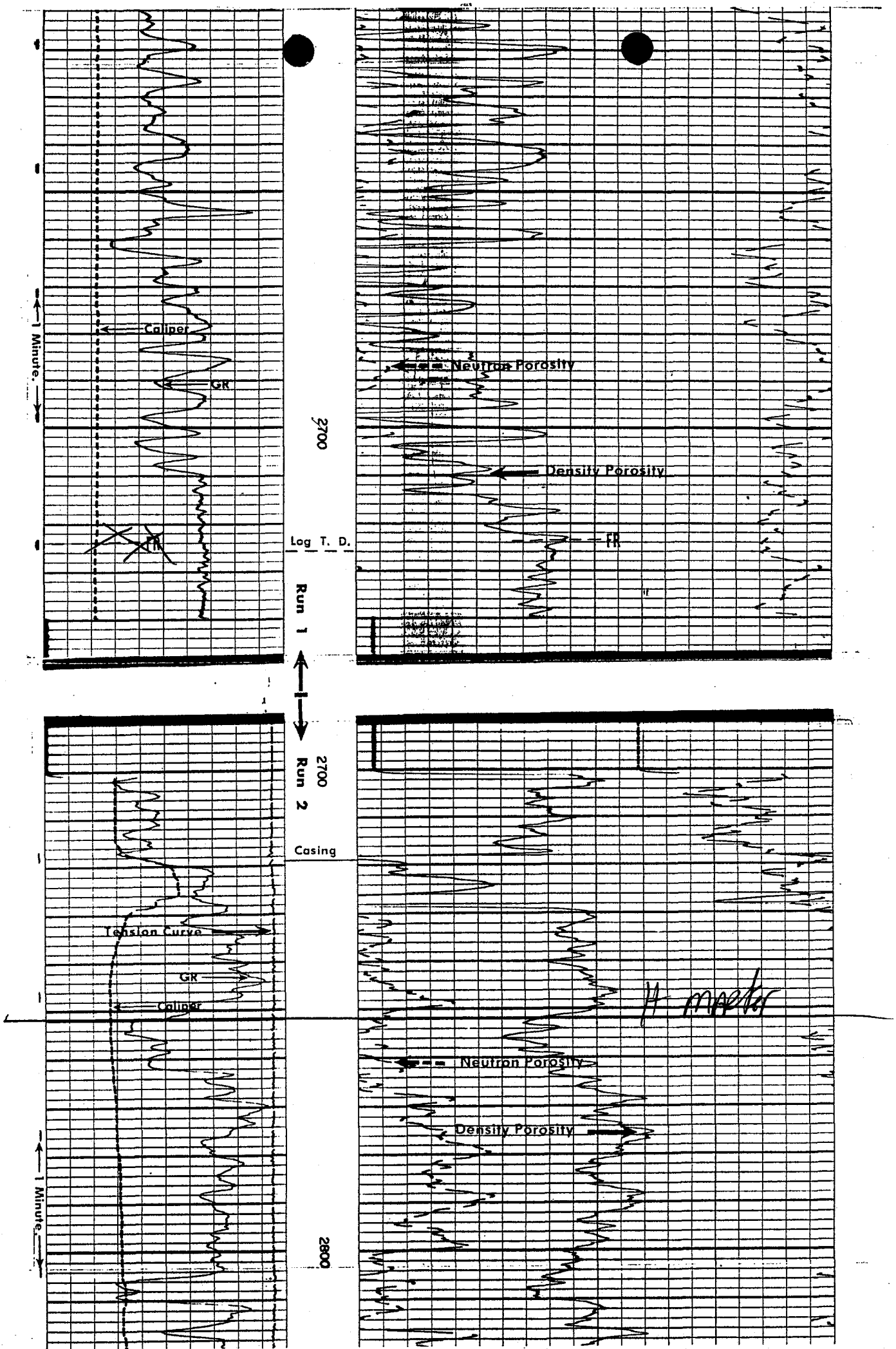

Caliper
GR
FR
1 Minute
2700
Log T. D.
Run 1
Neutron Porosity
Density Porosity
FR
2700
Run 2
Casing
Tension Curve
GR
Caliper
H meter
Neutron Porosity
Density Porosity
1 Minute
2800

FORM 926265

Dresser Atlas — DRESSER

Combination Logging Systems

Compensated **Densilog**
Compensated **Neutron**

FILE NO. 737

COMPANY PACIFIC TRANSMISSION SUPPLY

WELL PTS #14-10 FEDERAL

FIELD NATURAL BUTTES

COUNTY UINTAH STATE UTAH

LOCATION:

SEC 10 TWP 9S RGE 24E

Other Services: DIFL/GR, BHC/GR/CAL

Permanent Datum G.L. Elev. 5218

Log Measured from K.B. Ft. Above Permanent Datum

Drilling Measured from K.B.

Elevations: KB 5232, DF 5231, GL 5218

Date	3/12/80	[illegible]/27/80		
Run No.	ONE	TWO		
Service Order	30994	86314		
Depth—Driller	2720	6163		
Depth—Logger	2726	6165		
Bottom Logged Interval	2724	6163		
Top Logged Interval	140	2718		
Casing—Driller	13[illegible]@ 1[illegible]0	[illegible]@ 2718	@	@
Casing—Logger	140	2718		
Bit Size	12 1/4	7 7/8"		
Type Fluid in Hole	WATER	LSND		
Density and Viscosity	- -	8.8 31		
pH and Fluid Loss	- - cc	[illegible].1 11.2 cc	cc	cc
Source of Sample	FLOWLINE	FLOWLINE		
Rm @ Meas. Temp.	5.54@ 80 °F	2.57@ [illegible] °F	@ °F	@ °F
Rmf @ Meas. Temp.	4.62@ 74 °F	2.81@ [illegible] °F	@ °F	@ °F
Rmc @ Meas. Temp.	6.30@ 74 °F	3.07@ [illegible] °F	@ °F	@ °F
Source of Rmf and Rmc	M M	MEAS MEAS	°F	
Rm @ BHT	- @ - °F	1.[illegible]@1[illegible] °F	@ °F	@ °F
Time Since Circ.	1[illegible]	[illegible] HOURS		
Max. Rec. Temp. Deg. F.	100 °F	1[illegible] °F	°F	°F
Equip. No. and Location	[illegible] RSVT	[illegible]		
Recorded By	PAULSON	TORGERSON		
Witnessed By	FLEMING	ENQUIST		

FOLD HERE

Remarks CALIPER SCALE 10-20 ON RUN 1 & 6-16 ON RUN 2

EQUIPMENT DATA

	RUN NO. 1			RUN NO. 2			RUN NO. 3		
	CDL	CNLog	GR	CDL	CNLog	GR	CDL	CNLog	GR
Series No	2212	2413	1309	2213	2413	1306			
Serial No	42470	42587	41733	44746	29304	24543			
Diameter	4 5/8	3 5/8	3 5/8	3"	3 5/8"	3 5/8"			
Elec. No.	42470	42587	41733						
Detect: Model No.	1G14-1G15	[illegible]	8704	1G11-1G16	D6N3	D6G4			
Type	[illegible]	CINT	SCINT	G-M	HE-3	SCINT			
Dist. to Source			6"			6"			
Source Model No.	S3T20	S17520		S3E20	S17520				
Serial No.	549	[illegible]60		C-116	30431				
Computer No.	3457	[illegible]7	3621	3457	3457	3621			
Serial No	37059	37059	37284	37004	37004	34481			

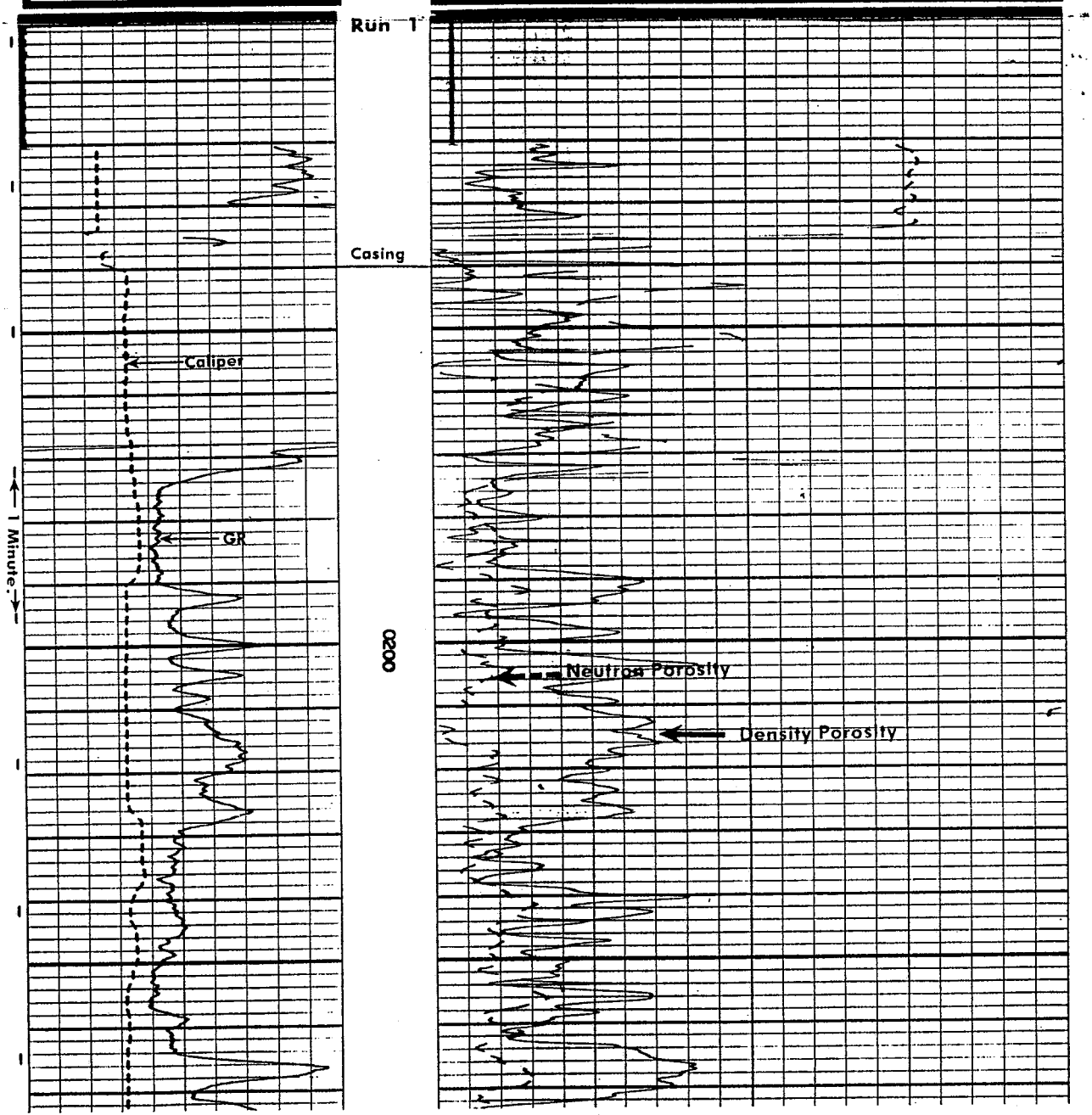
Logging Data

General				Compensated Densilog					Gamma Ray			
Run No.	Depths From	Depths To	Speed Ft./Min.	T.C. Sec.	Density Scale	Correction Scale	Porosity Scale Data	T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units/Div.
1	2726	150	24		2.0-3.0	-+ .5	-10.30	C	276	0	1
2	6163	2718	30	2			0-3% 2.68	2	448	0	15

General				Compensated Neutron							Caliper
Run No.	Depths From	Depths To	Speed Ft./Min.	T.C. SS	T.C. LS	Sens. SS	Sens. LS	Zero	Porosity Units/Div.	Porosity Scale	Scale
1	7[illegible]	150	24	C	[illegible]	127	127	R15	2		10" - 20"
2	6163	2718	30	2	2	142	139	R15	2[illegible]		6" - 16"

GAMMA RAY	DEPTH	DENSITY – POROSITY %
API UNITS 0 – 150 / 150 – 300		ρ_{ma} 2.68 ρ_f 1.0 / 30 20 10 0
CALIPER		NEUTRON POROSITY % SANDSTONE MATRIX
HOLE-SIZE-INCHES 10 – 20		30 20 10 0

FORM 925265-A



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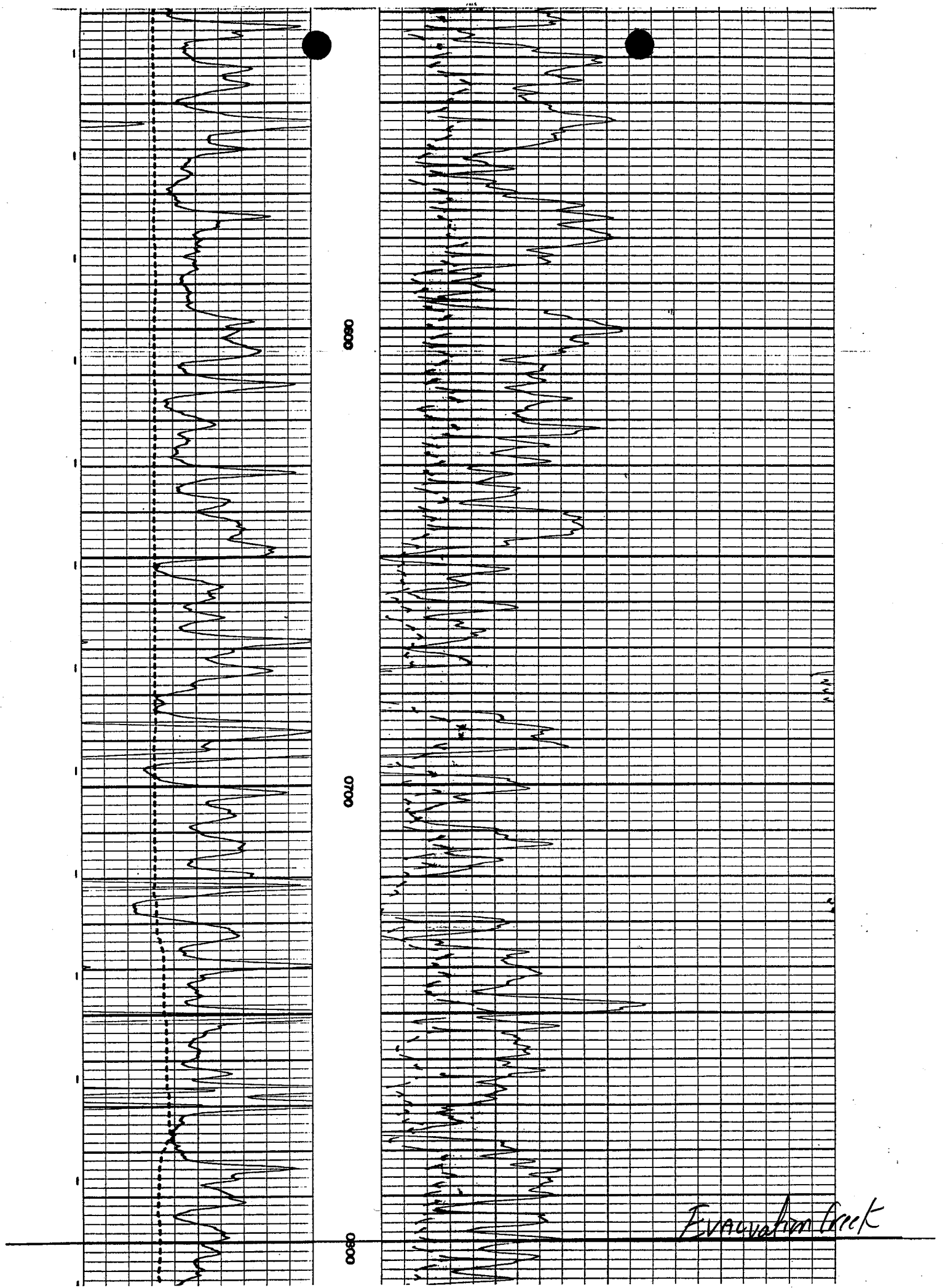
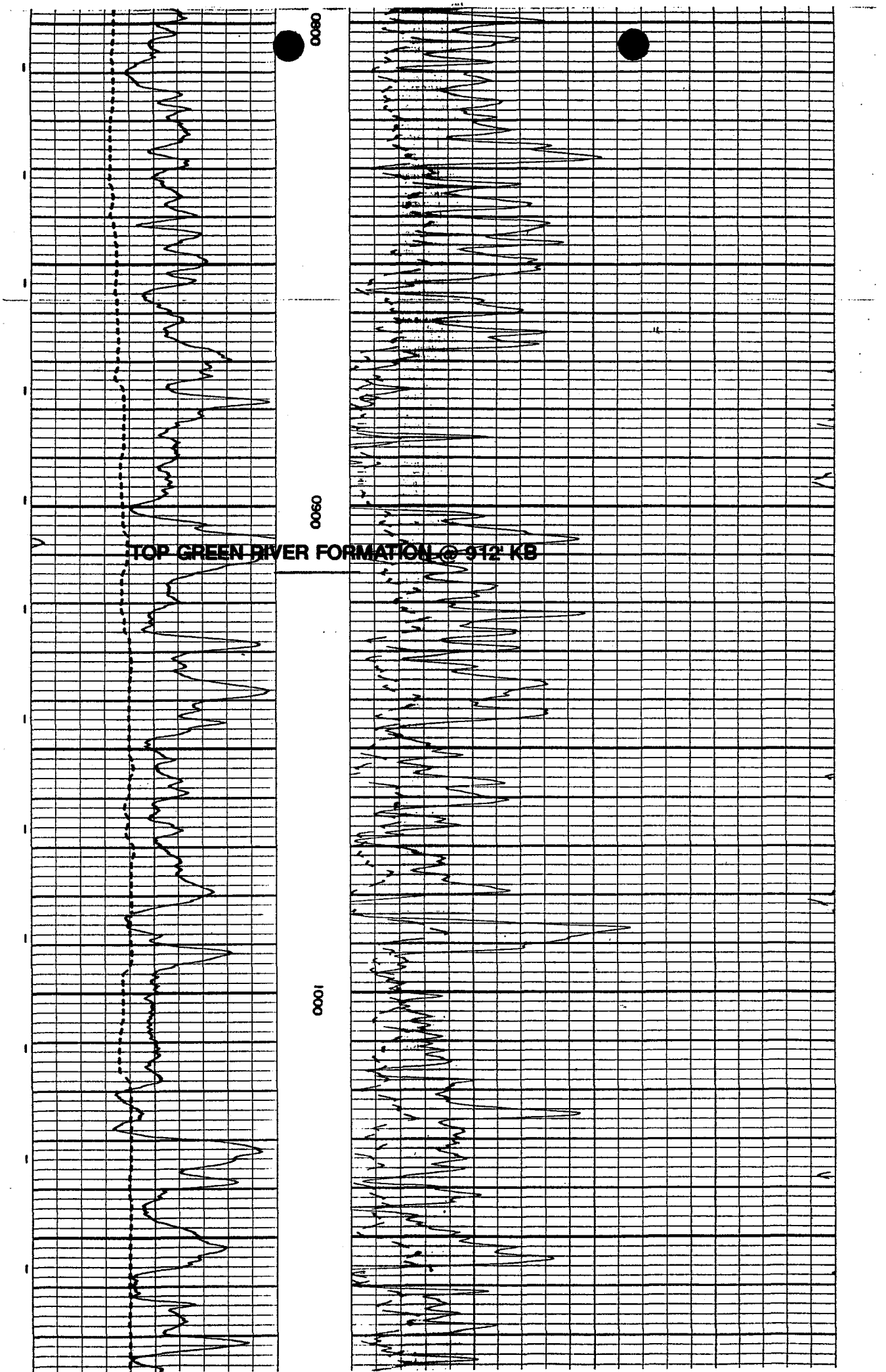
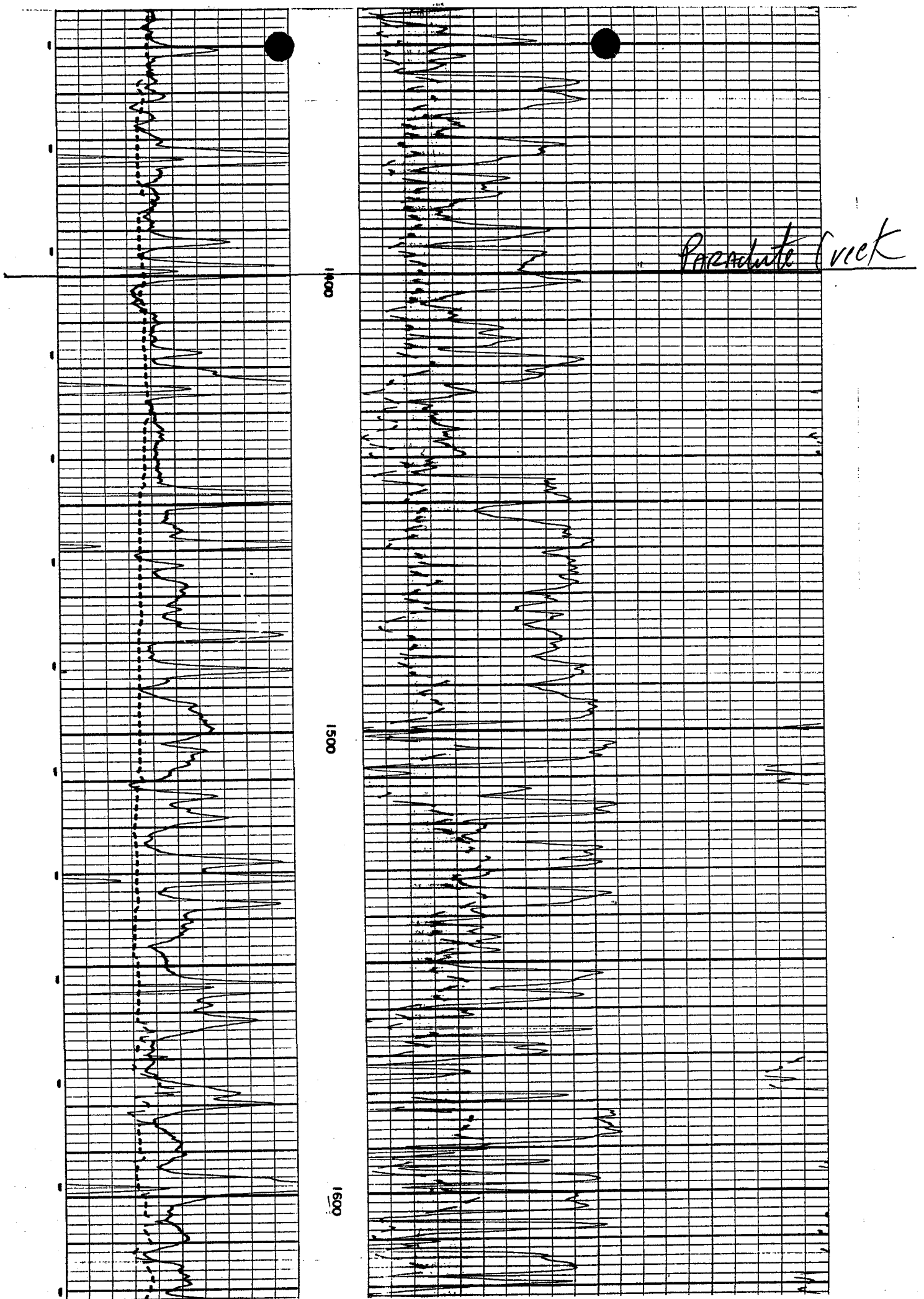
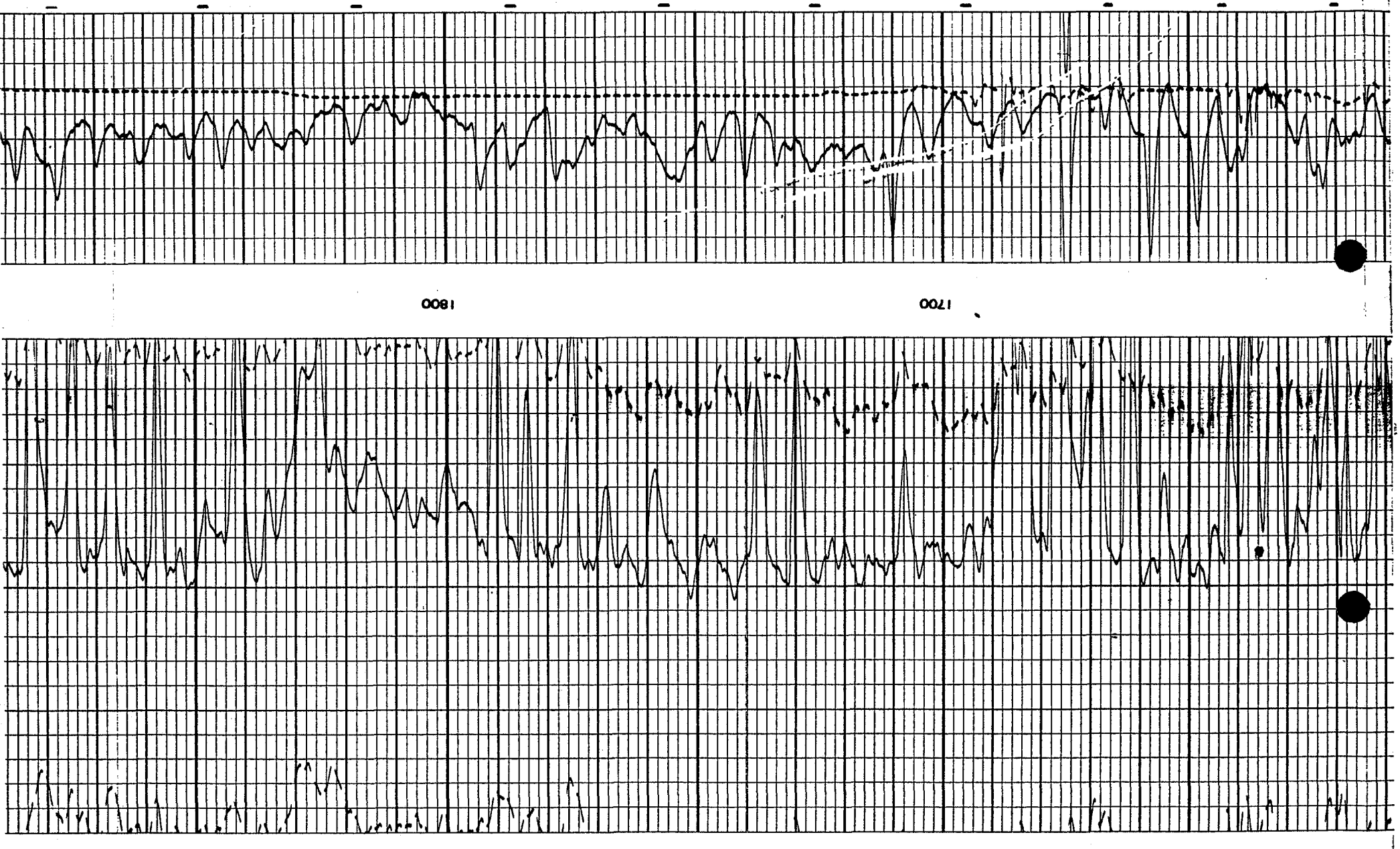
0400
0500


0600
0700
0800
Evacuation Creek

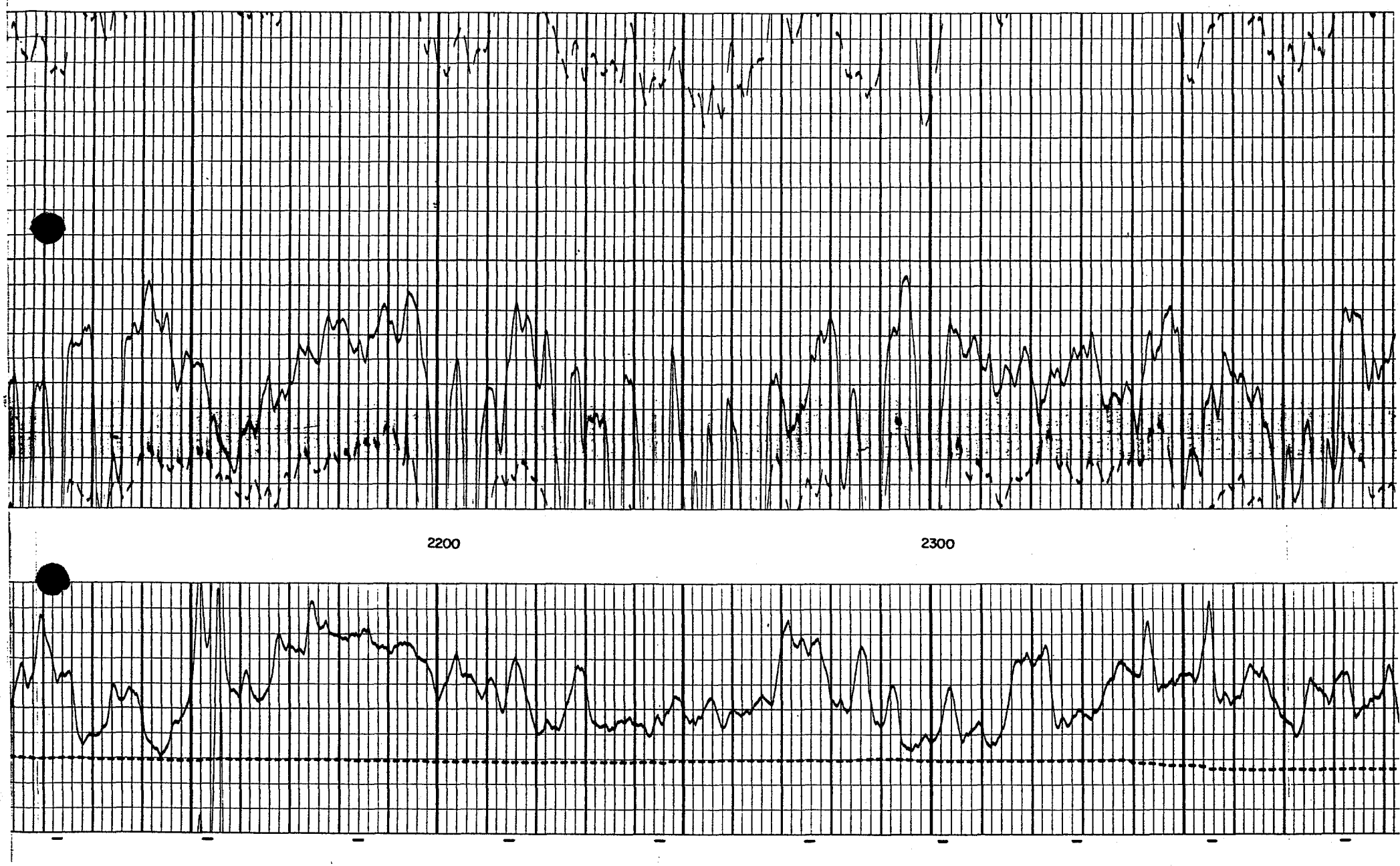

0800
0600
TOP GREEN RIVER FORMATION @ 912' KB
1000

1100
1200
1300


Porcupine Creek
1400
1500
1600


1800
1700

1900
2000
2100


2200
2300

FORM 925244

DresserAtlas

Dual Induction Focused Log

WITH LINEAR CORRELATION LOG

FILE NO. 737

COMPANY PACIFIC TRANSMISSION SUPPLY

WELL RTS 1[illegible]10 FEDERAL

FIELD NATURAL BUTTES

COUNTY MINTAH STATE UTAH

LOCATION:

SEC 10 TWP 9S RGE 24E

Other Services: CDLC/GR, CNLOC, DHC/GR/CAL

Permanent Datum G.L. Elev. 5218

Log Measured from K.B. Ft. Above Permanent Datum

Drilling Measured from K.B.

Elevations: KB 5232, DF 5231, GL 5218

Date	3/11/80	3/27/80		
Run No.	ONE	TWO		
Depth—Driller	2720	6163		
Depth—Logger	272[illegible]	6165		
Bottom Logged Interval	272[illegible]	6163		
Top Logged Interval	1[illegible]0	171[illegible]		
Casing—Driller	133.8 1[illegible]0	[illegible]8 2716	@	@
Casing—Logger	1[illegible]0	1718		
Bit Size	12 1/4	7 7/[illegible]		
Type Fluid in Hole	WATER	LSND		
	@	@	@	@
Density and Viscosity	- -	[illegible] 1		
pH and Fluid Loss	- - cc	[illegible].1 11.2 cc	cc	cc
Source of Sample	FLOWLINE	FLOWLINE		
Rm @ Meas. Temp.	55 @ 80 °F	[illegible]7 @ [illegible] °F	@ °F	@ °F
Rmf @ Meas. Temp.	4.62 @ 74 °F	[illegible]1 @ [illegible] °F	@ °F	@ °F
Rmc @ Meas. Temp.	[illegible] @ 7[illegible] °F	[illegible]7 @ [illegible] °F	@ °F	@ °F
Source of Rmf and Rmc	[illegible]	[illegible]		
Rm @ BHT	@ °F	1 @ 1 °F	@ °F	@ °F
Time Since Circ.	[illegible]			
Max. Rec. Temp. Deg. F.	[illegible] 100 °F	1 °F	°F	°F
Equip. No. and Location	[illegible]	[illegible]		
Recorded By	[illegible]	TORGERSON		
Witnessed By	[illegible]	[illegible]		

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-31

REMARKS

Equipment Used

Series No.	1503	1503	1[illegible]
Run No.	ONE	TWO	TWO
S.O.	30994	[illegible]631[illegible]	[illegible]
Tool No.	41961	42009	
Elec. No.	41961	42009	
Panel No.	36965	[illegible]	1
C.S.	160	160	

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth-Driller			
Type Fluid in Hole			
Dens.	Visc.		
pH	Fluid Loss	cc	cc
Source of Sample			
Rm @ Meas. Temp.		@ °F	@ °F
Rmf @ Meas. Temp.		@ °F	@ °F
Rmc @ Meas. Temp.		@ °F	@ °F
Source Rmf Rmc			
Rm @ BHT		@ °F	@ °F
Rmf @ BHT		@ °F	@ °F
Rmc @ BHT		@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Run No.	Tool Type	Pad Type	Tool Position	Other
1	DIFL	-	1.[illegible].0	-
2	1503 DIFL	-	1.[illegible].0	-
2	1308 GR	-	1.[illegible].0	-

SPONTANEOUS POTENTIAL
Millivolts

- 15 +

DEPTH

RESISTIVITY
Ohms m²/m

SHALLOW FOCUSED LOG: 0 — 100; 0 — 1000

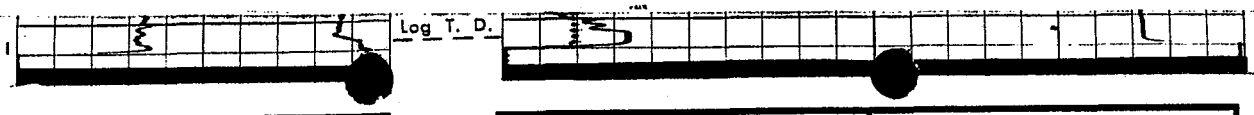
DEEP INDUCTION LOG: 0 — 100; 0 — 1000

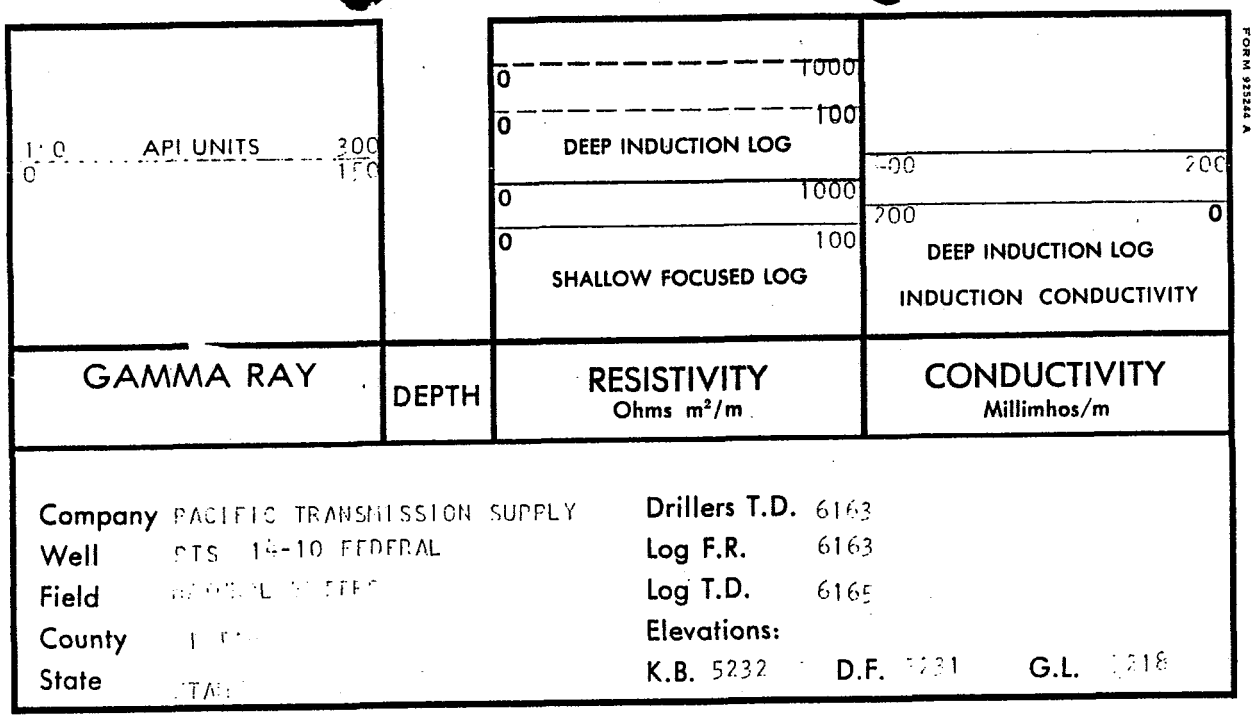
CONDUCTIVITY
Millimhos/m

INDUCTION CONDUCTIVITY

DEEP INDUCTION LOG: 200 — 0; 200 — 200

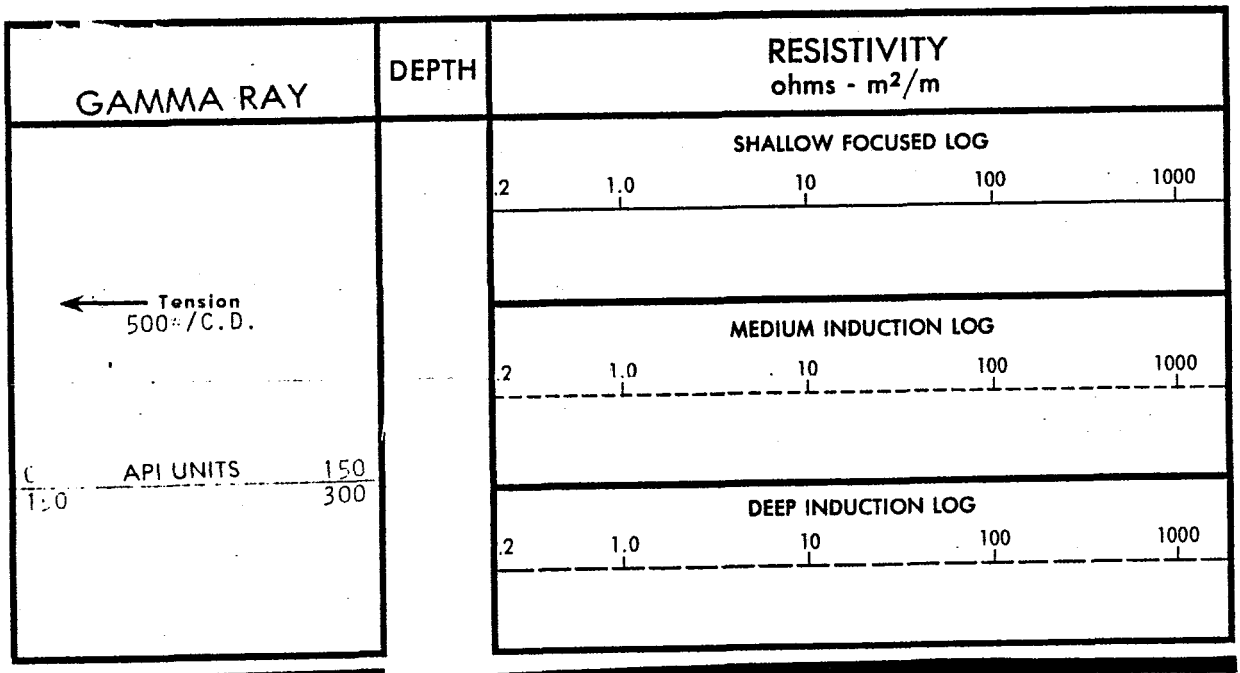
Run 1

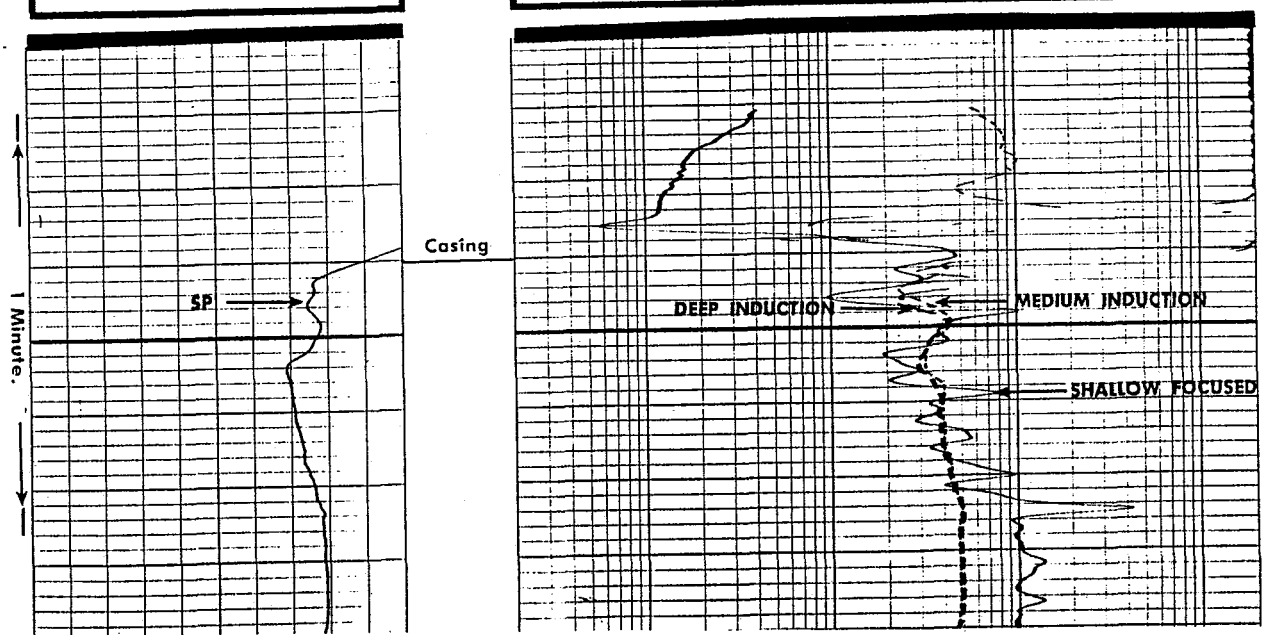


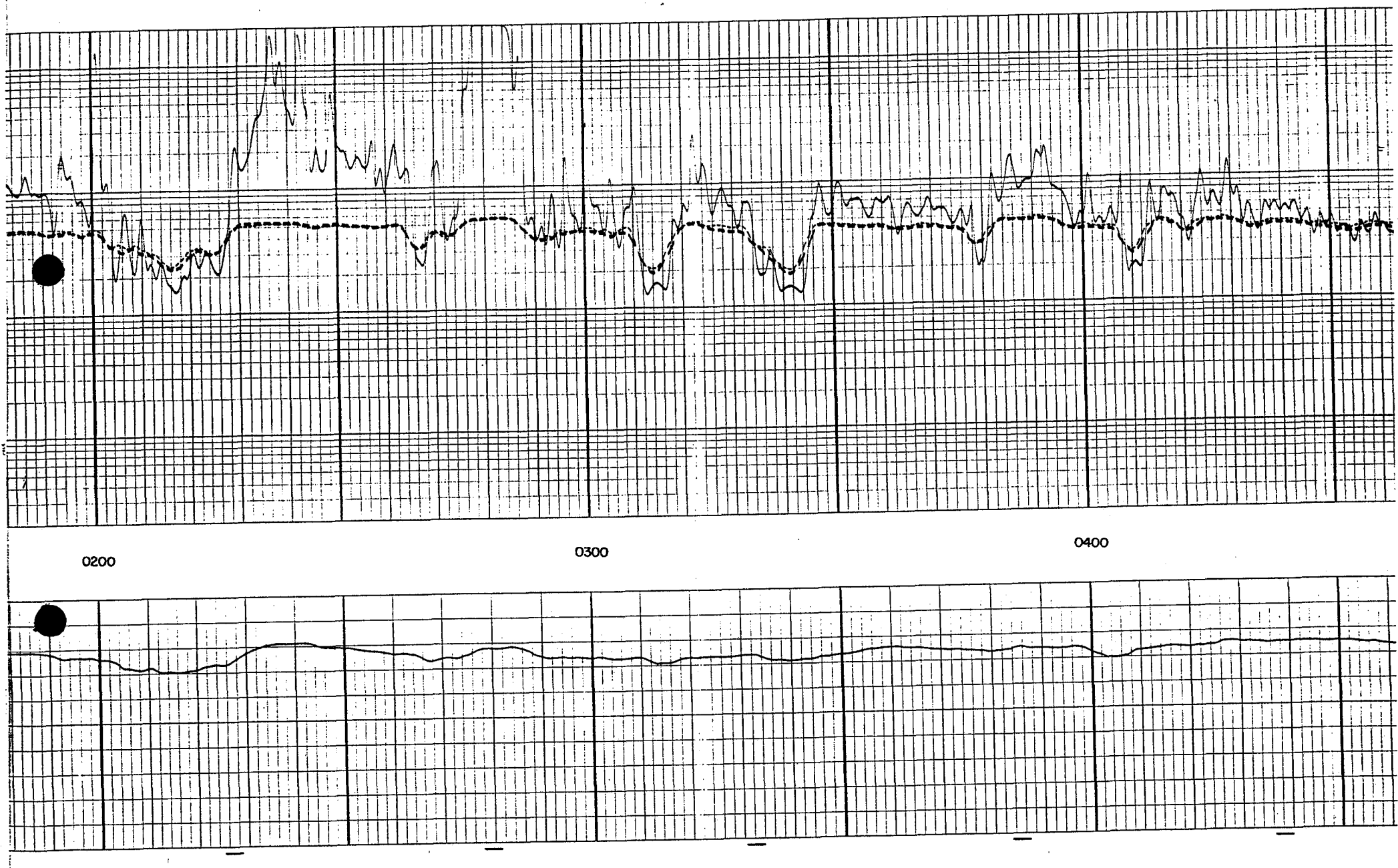


Company PACIFIC TRANSMISSION SUPPLY
Well PTS 14-10 FEDERAL
Field [illegible]
County [illegible]
State [illegible]

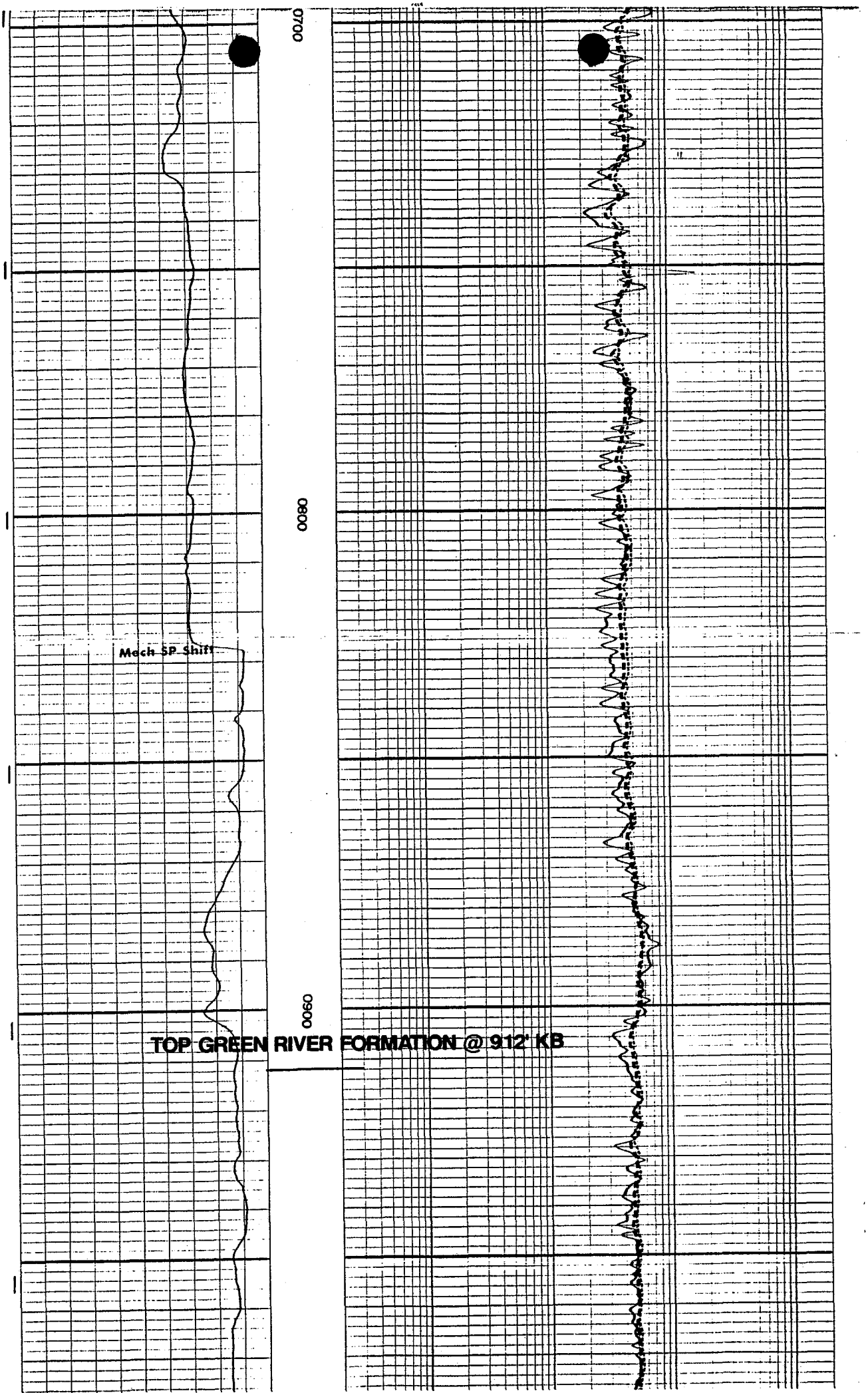
Drillers T.D. 6163
Log F.R. 6163
Log T.D. 6165
Elevations:
K.B. 5232 D.F. [illegible] G.L. [illegible]



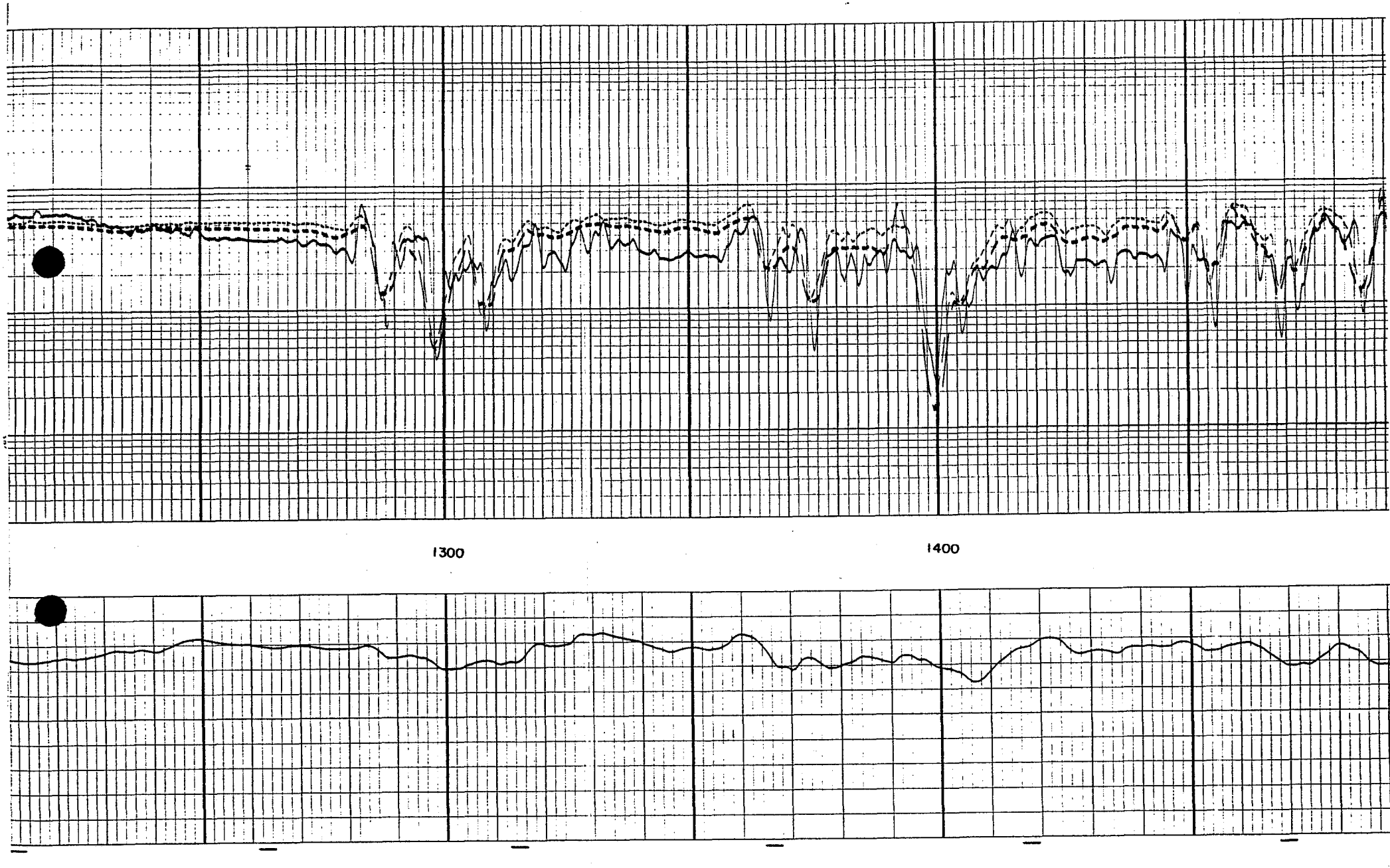


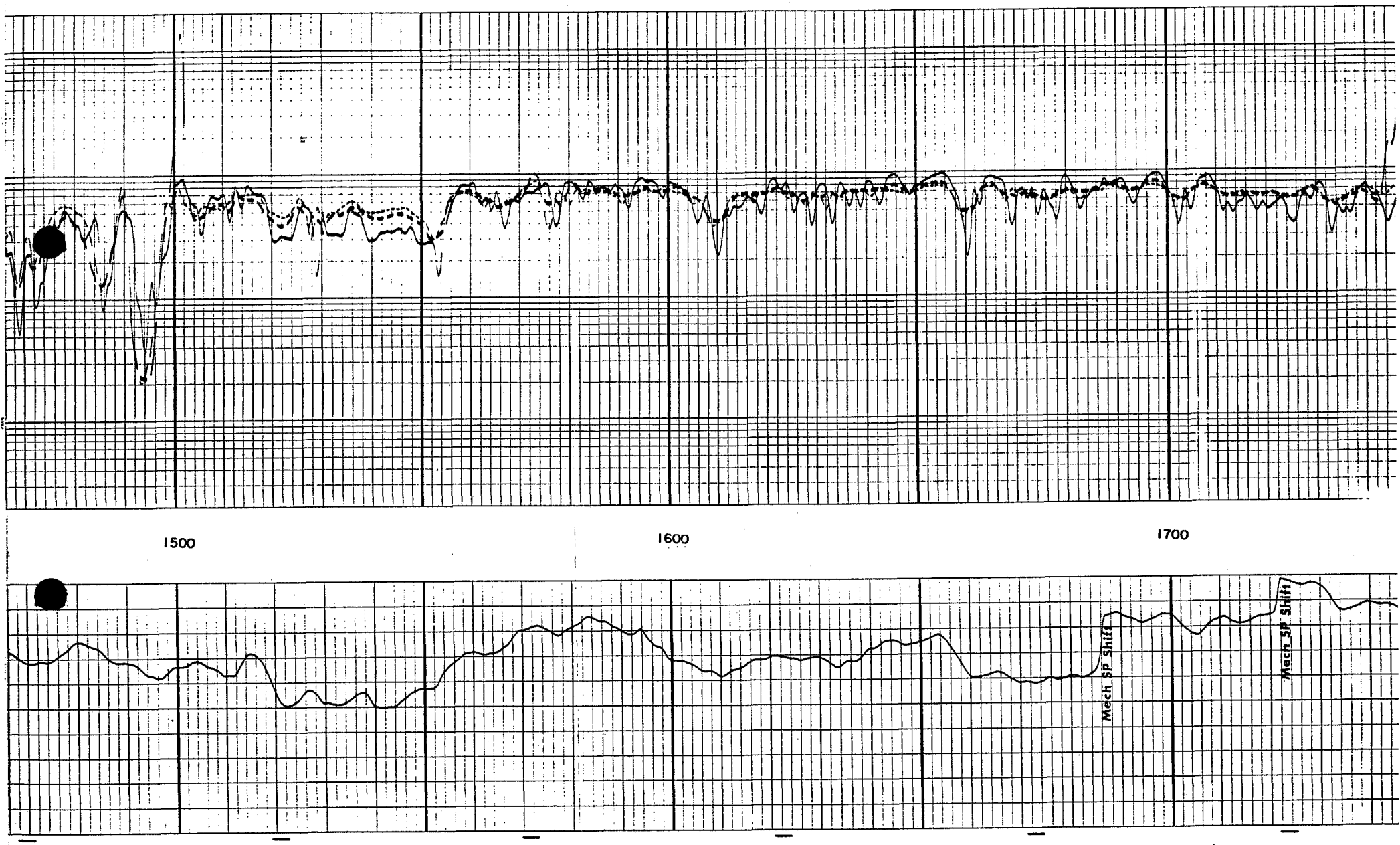

0200
0300
0400

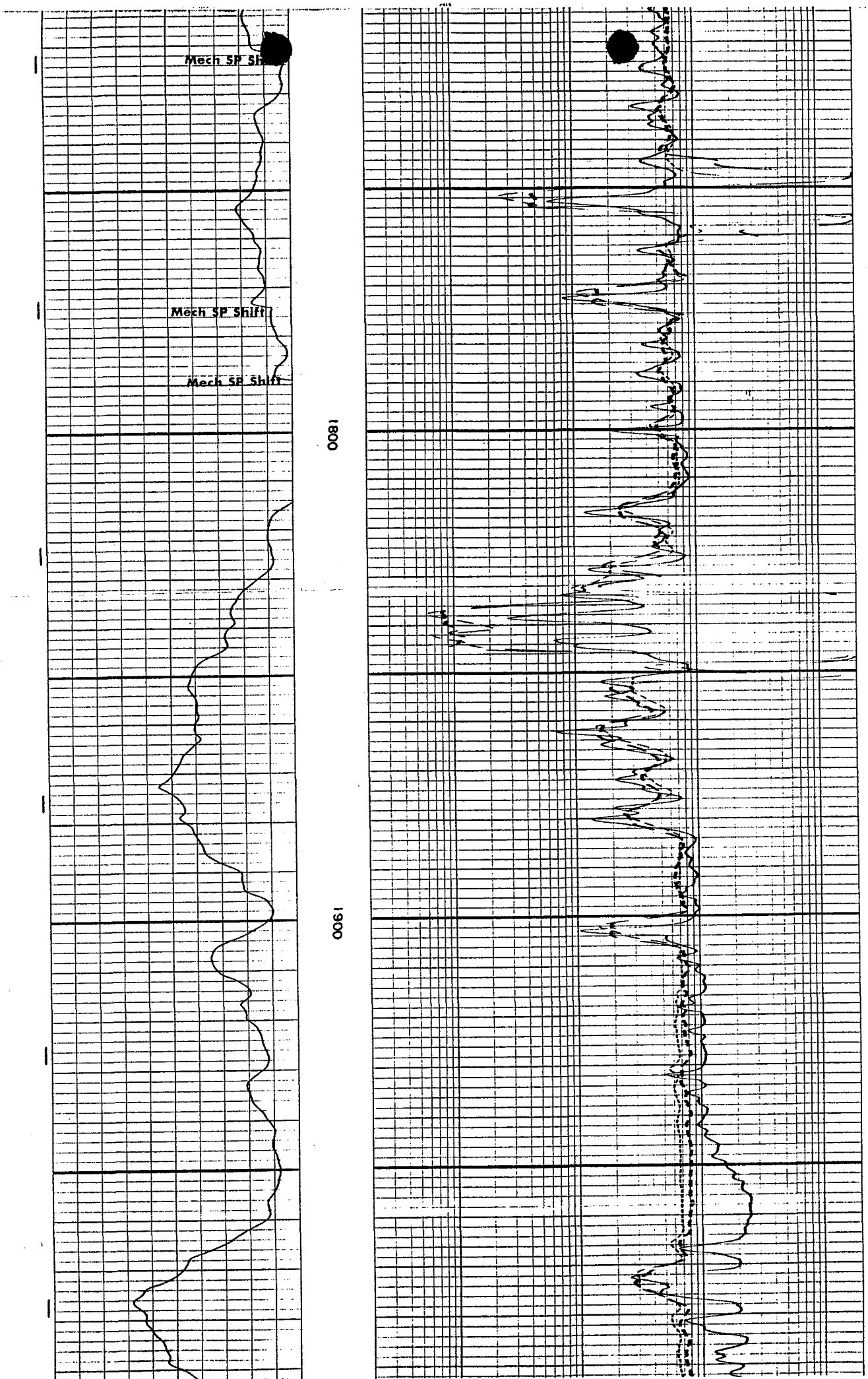
0500
0600
0700

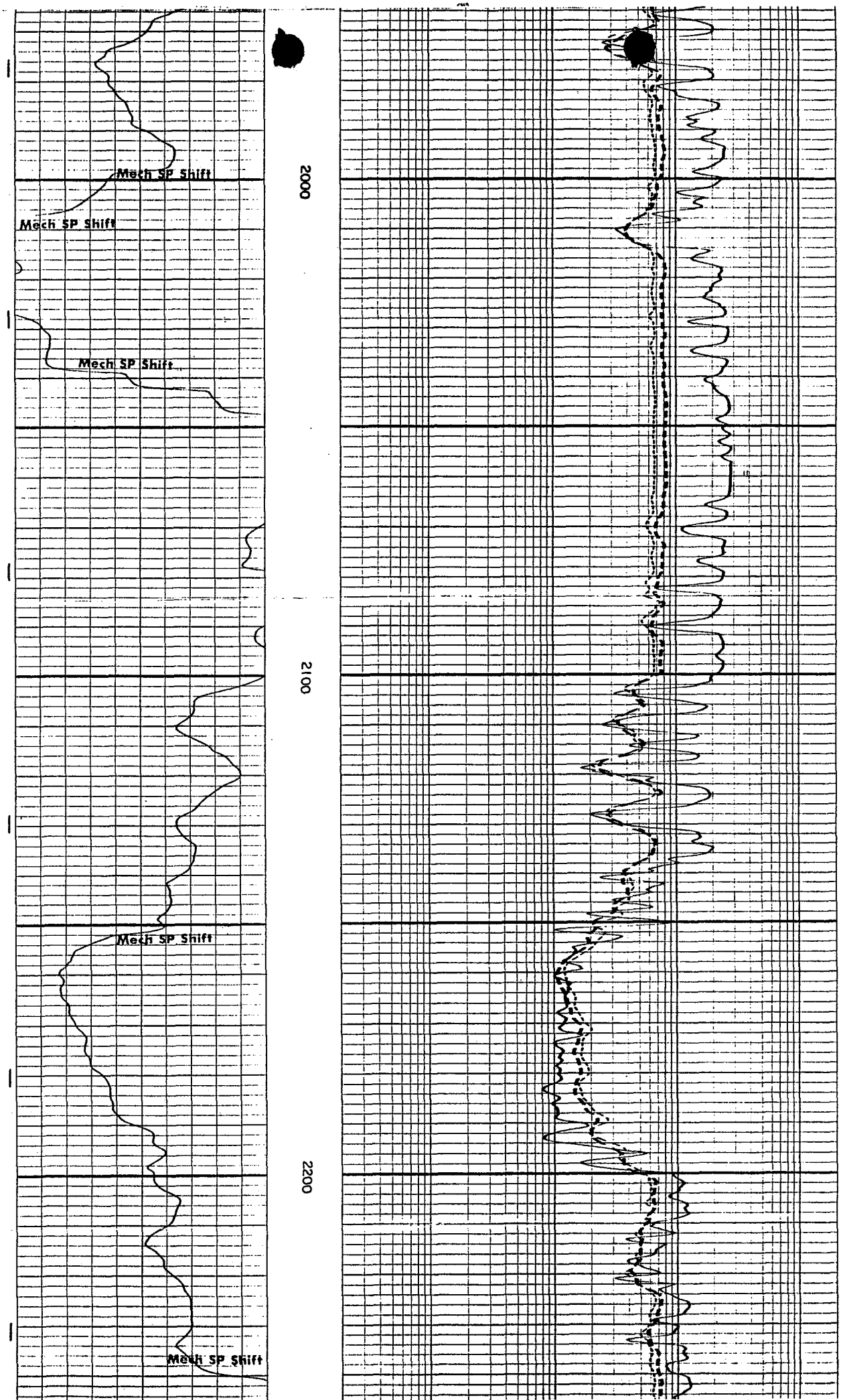

0700
0800
0900
Mech SP Shift
TOP GREEN RIVER FORMATION @ 912' KB

1000
1100
1200


1300
1400


1500
1600
1700
Mech SP Shift
Mech SP Shift


Mech SP Sh
Mech SP Shift
Mech SP Shift
1800
1900


Mech SP Shift
Mech SP Shift
Mech SP Shift
Mech SP Shift
Mech SP Shift
2000
2100
2200

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [ ] GAS WELL [X] OTHER Dry Hole

7. UNIT AGREEMENT NAME: Devils Playground

2. NAME OF OPERATOR: Pacific Transmission Supply Company

8. FARM OR LEASE NAME: Federal

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, WY 82602

9. WELL NO.: 14-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 714' FSL, 786' FWL, SW SW Section 10, T9S, R24E

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10, T9S, R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5232' KB

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[X]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]				

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 6163' PBTD 6120'
4-1/2", 11.6#, N-80 production casing at 6162' with stage cementing collar at 4972'. Cemented thru shoe with 350 sacks cement and thru stage cementing collar with 300 sacks cement. Estimated TOC 4100'. 9-5/8", 36.0#, K-55 intermediate casing at 2716' and cemented to surface with 800 sacks cement. Perforations: Mesaverde - 5996'-6010' & 6082'-90'
Plugged off w/CIBP at 5970' w/1 sack cement on top.
Mesaverde - 5852'-68' & 5872'-82'
Wasatch - 5264'-74', 5312'-20', 5326'-34'

Equalized abandonment cement plugs as follows:
Plug no. 1 Squeezed perforations 5852'-82' - 35 sacks cement.
Plug no. 2 Squeezed perforations 5264'-5334'-35 sacks cement.
Cut off 4-1/2" casing at 4030'. Pulled and recovered 106 jts. casing.
Plug no. 3 4080'-3980' at casing stub - 35 sacks cement.
Plug no. 4 2765'-2565' at bottom of intermediate casing - 75 sacks cement.
Plug no. 5 At surface with marker - 25 sacks cement.
Drilling mud was left between all cement plugs. A regulation dryhole marker was installed, the location site cleaned and the reserve pit fenced. The location site surface restoration and rehabilitation work is presently underway and will be completed in conformance with the prescribed abandonment regulations. Reseeding operations to complete the surface restoration requirements of the surface use plan will be performed during the fall after which a final inspection notification will be submitted.

RECEIVED
JUL 03 1980
DIVISION OF OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED R. A. Firth TITLE Petroleum Engineer DATE July 1, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

3-USGS,UT; 1-OG&M,UT; 1-Enserch; 1-DeGolyer & MacNaughton; 1-E.L. Latham, Jr.; 1-JCOsmond; 1-ERHenry; 1-DEBeardsley; 1-Rod Boschee

*See Instructions on Reverse Side

Form 9-330 (Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR: P.O. Box 3093, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 714' FSL, 786' FWL, SW SW, Section 10, T9S, R24E
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Devils Playground

8. FARM OR LEASE NAME: Federal

9. WELL NO.: 14-10

10. FIELD AND POOL, OR WILDCAT: UNDESIGNATED

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 10, T9S, R24E

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

14. PERMIT NO.: 43-047-30566 DATE ISSUED: 1-23-79

15. DATE SPUDDED: 2/26/80 16. DATE T.D. REACHED: 3/26/80 17. DATE COMPL. (Ready to prod.): P&A 6/19/80 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 5232' KB 19. ELEV. CASINGHEAD:

20. TOTAL DEPTH, MD & TVD: 6163' 21. PLUG, BACK T.D., MD & TVD: 22. IF MULTIPLE COMPL., HOW MANY*: 23. INTERVALS DRILLED BY → ROTARY TOOLS: 142'-6163' CABLE TOOLS: 0-142'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: None

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIFL, Densilog, Comp. Neutron-Density, BHC Acoustilog (Sample)

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48.0	138'	17-1/2"	175 sacks	None
9-5/8"	36.0	2716'	12-1/4"	800 sacks	None
4-1/2"	11.6	6162'	7-7/8"	350 sacks	4030'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None		

31. PERFORATION RECORD (Interval, size and number)

Wasatch
5264'-74' 1 SPF
5312'-20' 1 SPF
5326'-34' 1 SPF

Mesaverde
5852'-68' 1 SPF
5872'-82' 1 SPF
5996'-6010' 1 SPF
6082'-90' 1 SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5996'-6090'	2000 gals. 7-1/2% HCl acid
5852'-5868'	2500 gals. 7-1/2% HCl acid
5312'-5334'	800 gals. 7-1/2% HCl acid

33.* PRODUCTION

DATE FIRST PRODUCTION: P&A 6/19/80 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): WELL STATUS (Producing or shut-in): P & A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
		→				

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TEST WITNESSED BY

35. LIST OF ATTACHMENTS: Geological well report submitted 5/23/80.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED: R. J. Firth TITLE: Petroleum Engineer DATE: June 30, 1980

DISCLAIMED JUL 03 1980 DIVISION OF OIL, GAS & MINING

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River	800'	
Evacuation Ck.	1400'	
Parchute Cr.	2753'	
H Marker		
Wasatch	4016'	
Mesaverde	5357'	

3-USGS, UT; 1-OG&M, UT; 1-Enserch; 1-DeGolyer & MacNaughton; 1-E.L. Latham; 1-JCOsmond; 1-ERHenry; 1-DEBeardsley; 1-Rod Boschee

U.S. GOVERNMENT PRINTING OFFICE : 1963—O-683836

GPO 870-401

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

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U.S. GOVERNMENT PRINTING OFFICE : 1963—O—683636

Completion Program
PTS #14-10 Federal

Well Name: PTS #14-10 Federal

Location: NW 1/4 SE 1/4, Section 10, T9S, R24E

Elevation: 5218' GL
5232' KB

TD: 6163'

PBTD: 6120' estimated

Production Casing: 4-1/2", 11.6#, N-80 landed with guide shoe at 6162', float collar at 6126', cement stage collar at 4981', 10 centralizers and 1 cement basket at 5018'.

1.00	Guide Shoe
38.24	Shoe Jt.
2.10	Fillup Float Collar
1146.49	30 Jts. Casing
2.40	Cement Stage Collar
4981.76	133 Jts. Casing
6171.99	Total
9.60'	Above KB
6162.39	Casing landed at KB

Cemented thru shoe with 250 sacks regulated fillup cment with 0.1% retarder and 100 sacks Class B cement. Displaced cement slurry with 20 bbls. water and 73 bbls. drilling mud. Preceded cement slurry with 10 bbls. mud flush. Bumped plug with 2200#, float held. Good circulation throughout job.

Cemented thru stage collar with 300 sacks regulated fillup cement with 0.1% retarder. Displaced cement slurry with 76 bbls. water preceded with 10 bbls. mud flush. Bumped plug with 3000#, held ok. Good circulation throughout job.

Casing data: 4-1/2", 11.6#, N-80

Collapse strength	6350 psi
Burst strength	7780 psi
Casing capacity	.0155 bbls/ft.
Casing annulus capacity w/2-3/8" tubing	.0101 bbls/ft.
Tubing capacity	.00387 bbls/ft.

Completion Procedure
PTS #14-10 Federal

1. Move in completion unit and equipment.

2. Cut off 4-1/2" casing, install tubing head assembly and pressure test.

3. Nipple up and pressure test 6" - 5000# BOP equipment.

4. PU 3-3/4" bit, casing scraper and 2-3/8" tubing and tally in hole.

5. Drill cement and stage collar at 4981'. Continue to PU 2-3/8" tubing and tally in hole to tag PBTD at 6120'.

6. Displace hole with 2% potassium chloride water after cleaning out to PBTD. Pressure test casing to 5000 psi.

7. Pull tubing, scraper and bit.

8. RU Dresser-Atlas logging equipment and run Cement Bond log with Gamma Ray and collar correlation from PBTD thru intervals as necessary to determine cement top. Run Dresser-Atlas 2-3/8" O.D. Neutron logging tool thru intervals of interest. (Note: Advise Dresser-Atlas when completion operations commence to assure the availability of the neutron logging tool.)

9. Run tubing with packer and spot 7-1/2% HCl acid across intervals to be perforated. Set packer at 5900'.

10. Perforate Mesaverde interval with through tubing perforating equipment from 6082'-6090' and 5996'-6010' with 1 SPF.

11. Acidize perforated intervals with 2000 gallons 7-1/2% HCl acid. Use ball sealers to assure both intervals are taking fluid.

12. Swab and flow test to obtain accurate rate and volume information. It may be necessary to isolate and test the lower interval if excessive water production is obtained and perform plug back or squeeze operations if water entry can be verified.

13. Following a sufficient test period, interprete results and procede with further completion procedures.

14. Pull tubing and packer. Run tubing, packer and retrievable bridge plug. Set RBP at 5950', spot 7-1/2% HCl acid across interval to be perforated and set packer at 5750'.

15. Perforate Mesaverde interval with through tubing perforating equipment from 5852'-68' and 5872'-82' with 1 SPF.

16. Acidize perforated intervals with 2500 gallons 7-1/2% HCl acid. Use ball sealers to assure the entire interval is taking fluid.

17. Swab and flow test. Following a sufficient testing period, analyze results to determine further completion procedures. Fracturing operations may be warranted if gas volumes are sufficient and water production is not excessive. The entire Mesaverde interval should be considered for fracturing operations.

18. Following stimulation and testing of the Mesaverde interval, further completion operations should be conducted in the Wasatch formations.

Completion Procedure
PTS #14-10 Federal

Wasatch Formation

1. After completion operations of the Mesaverde formation are concluded; selective Wasatch intervals should be perforated, acidized and flow tested.

2. The following intervals are recommended for perforating, acidizing and flow testing:

   a) 5326'-34' (8') w/ 1 SPF
   b) 5312'-20' (8') w/ 1 SPF
   c) 5264'-74' (10') w/ 1 SPF

3. Acidize all perforated intervals with 2500 gallons 7-1/2% HCl acid with ball sealers as necessary.

4. Swab and flow test. Fracturing operation procedures may be formulated following evaluation of the test results.

4/25/80

EPS Resources Corporation

5655 South Yosemite
Suite 460
Englewood, CO 80111
(303) 721-7920

RECEIVED
OCT 24 1989
DIVISION OF
OIL, GAS & MINING

October 23, 1989

Mr. Gil Hunt
Department of Natural Resources
Division of Oil, Gas and Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Mr. Hunt:

Please find enclosed the Application for "Underground Injection Control of Recovery Operations and Class II Injection Wells."

As you can see on the area of review map, there are State lands involved with the application, however, we have forwarded a copy of this application to the EPA office in Denver for their records.

Please call if your require further information or have any questions.

Sincerely,

Edward Neibauer
President

EN/ntm

Enclosure

UIC	
GLH ✓	
DJJ	
BGH	
COMPUTER	
MICROFILM	
FILE	

APPLICATION FOR PERMIT
TO CONSTRUCT AND OPERATE A
NEW WATER INJECTION WELL & RELATED FACILITIES
IN THE DIRTY DEVIL UNIT
UINTAH COUNTY, UTAH

PREPARED BY
EDWARD NEIBAUER
PETROLEUM ENGINEER
EPS RESOURCES CORPORATION
5655 S. YOSEMITE
SUITE 460
ENGLEWOOD, COLORADO 80111

SUBMITTED TO
UTAH BOARD OF OIL, GAS AND MINING
SUITE 350, 3 TRIAD CENTER
355 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84180-1203

OCTOBER 1, 1989

EXHIBIT 'A'

2.1 Plat Showing Location

5/24/89
Change of operator
to EPS Resources

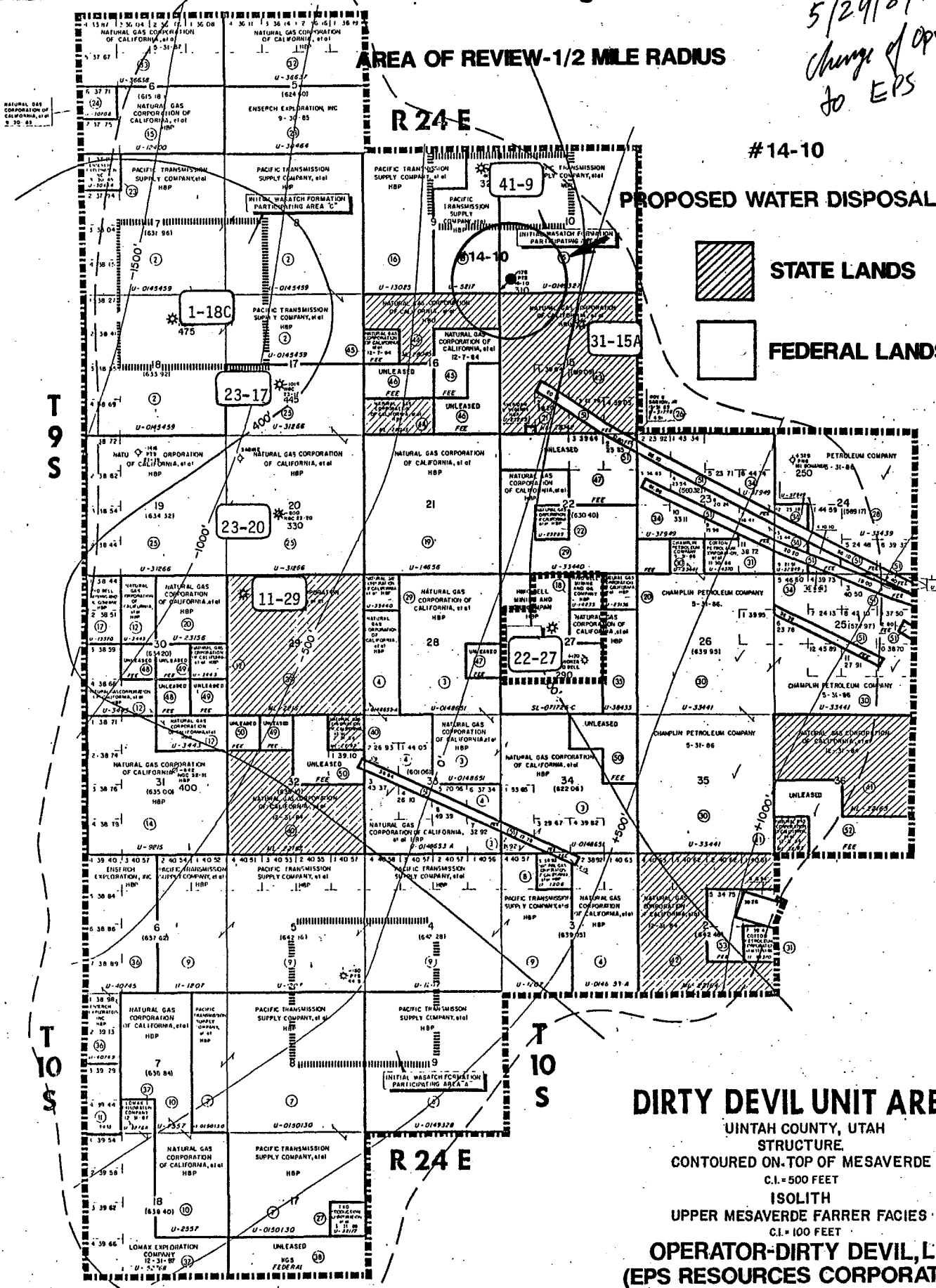
AREA OF REVIEW-1/2 MILE RADIUS

#14-10

PROPOSED WATER DISPOSAL WELL

STATE LANDS

FEDERAL LANDS



DIRTY DEVIL UNIT AREA

UINTAH COUNTY, UTAH

STRUCTURE

CONTOURED ON TOP OF MESAVERDE

C.I. = 500 FEET

ISOLITH

UPPER MESAVERDE FARRER FACIES

C.I. = 100 FEET

OPERATOR-DIRTY DEVIL, LP
(EPS RESOURCES CORPORATION)

STRUCTURE CONTOUR

BAND ISOLITH CONTOUR

AREA WITH ≥ 200 OF SAND WITH ≥ 8% POROSITY

REGULATORY REQUIREMENTS

EPS Resources Corporation, operator of the Dirty Devil Unit located in Uintah County, Utah, plans to construct and operate a water disposal plant with a 2000 barrels per day (BPD) capacity within the unit on Section 10 T9S R24E. The #14-10 well SW/4SW/4 Section 10, T9S-24E, will be converted to a water injection well in the Green River Formation. The water disposal well will be located on State lands and subject to State regulatory requirements. (R615-5-2 Requirements for Class II Injection Wells including Water Disposal, Storage and Enhanced Recovery Wells). The #14-10 injection well will be completed, equipped, operated and maintained such that will prevent pollution and/or damage to any USDW, or other resources and will confine injection to the interval approved.

The State of Utah Board of Oil, Gas and Mining has adopted new regulations and procedures that impose requirements on construction projects involving water disposal. The proposed water disposal plant may come under the following state oil and gas conservation regulatory programs: R615-5 Underground Injection Control of Recovery Operations and Class II Injection Wells.

The Oil and Gas Conservation General Rules (raised March, 1989) are adopted under the authority of the Oil and Gas Conservation Act, 40-6-1 Et. Seq. U.C.A. (1977 as amended).

R615-5-2 Requirements for Class II Injection Wells Including Water Disposal, Storage and Enhanced Recovery Wells.

The name and address of the operator of the project is as follows:

EPS Resources Corporation
5655 S. Yosemite
Suite 460
Englewood, Colorado 80111
303-721-7920

Map of Wells in Area of Review

Exhibit A shows the location of the injection well identifying all wells within the project area and within a one-half mile (1/2) radius of the injection well. The #14-10 well is located at the center of the project area. There are no other wells drilled within the one-half mile radius. EPS Resources Corporation (Dirty Devil LP) is the sole operator of the oil and gas leases (lands) within the Dirty Devil Unit which would include the area within one-half mile radius of the proposed injection well.

The surface owners within the one-half mile radius would be the State of Utah and the United States of America (Department of the Interior).

The Dirty Devil Unit consists of 24,000 acres in which several oil and gas wells have been completed in the Mesaverde and Wasatch formations, to date. All of the wells produce associated formation water (see water analysis) in various amounts. The environmentally safest and economical way to rid of the water is by a water disposal well. EPS Resources has determined that the Unit #14-10 well (a dry and abandoned well) is the most feasible well to convert to water disposal. There is 2716' of 9-5/8", 36 lb. casing cemented to surface across the Green River Formation. This will allow full development of the Unit with proper water disposal.

Description of Project

The Green River Formation, which is Eocene in age, overlies the Wasatch Formation and can be divided into the Douglas Creek and Garden Gulch members undivided, and the Parachute Creek and Evacuation Creek members undivided. The Douglas Creek and Garden Gulch members undivided consist of thick brown lenticular sands, gray shales, grayish-green shales, purple shales, green mottled red shales, and oolitic and algal limestones. Oil shales are fairly abundant in this zone. All oil and gas production from the Green River Formation, except for the recent low pour point oil discovery of the Continental Oil Company near Duchesne, has been from this zone.

Corrective Action Plan

Should any upward fluid migration occur through the well bore of any previously improperly plugged or unplugged well due to injection of permitted fluids, injection will be shut-in until proper plugging can be accomplished. Should any problem develop in the casing of the ~~injection well,~~ injection will be shut-in until such repairs can be made as to remedy the situation.

Tabulation of wells penetrating the injection zone.

	Well Name	Well Type	Operator	Date Drilled	Total Depth
1.	DDU #14-10	Conversion to injection well.	EPS Resources Corporation	6/19/80	6163'

OPERATING DATA

Injection Rates and Volumes

The proposed average injection rate is to be 500 barrels of water per day. The maximum anticipated rate should be no greater than 2000 bbls of water per day.

Injection Pressures

Injection pressures are anticipated to be average, primarily in the 750 psig to 1000 psig range. This pressure will be due primarily to friction pressure in the piping system. It is anticipated that the bottom hole pressure would never increase beyond 2000 psig. This is anticipated relative to the data known on the Green River Formation. The fracture pressure gradient is 0.5 psi/ft. with a fracture pressure of 2500 psig. However it is not anticipated that this pressure will ever be reached based on core data, operating history and experience in the field.

Nature of the Annulus Fluid

The annulus fluid which will be used is Tretolete's XC-320. This fluid is a liquid polyamine and works as a brocide and corrosion inhibitor. The ratio will be approximately 5 gallons of XC-320 to 4200 gallons of fresh water. The compound is listed under E.P.A. registration number 5009-4. A positive pressure will be maintained on the annulus for purpose of monitoring mechanical integrity.

Source and Analysis of Injection Fluid

Please see attached sheet.

The Douglas Creek and Garden Gulch members undivided consist of thick brown lenticular sands, gray shales, grayish-green shales, purple shales, green mottled red shales, and oolitic and algal limestones. Oil shales are fairly abundant in this zone. All oil and gas production from the Green River Formation has been from this zone.

The Parachute Creek and Evacuation Creek members of the Green River Formation undivided consist of extensive rich oil shale beds, thin tuff beds, light to medium brown shales, siltstones, dolomite, and lenticular sandstone beds. The famous Mahogany Ledge, which is the richest and most extensive oil shale bed, occurs in the Parachute Creek member. The Parachute Creek member is approximately a time equivalent zone throughout the Uinta Basin.

Average porosities and permeabilities range from 7-15% and 5-100 millidarcy, respectively. The Green River can be described as sandstones with moderate average porosity as well as enhanced fracture porosity. A water/oil contact is difficult to measure within the Green River sandstones.

of 1000 feet. The lenticular sands that interfinger throughout the entire Green River Formation are bound by the rick oil shale beds.

The porosity interval, in which water will be injected, has matrix values ranging from 10% - 20%. The fracture porosity would increase these percentages when encountered.

FORMATION TESTING PROGRAM

1. Fluid Pressure

Bottom hole pressures have been determined from various wells in the Green River formation in this area. Pressure build-ups were recorded either by Amerada Hess pressure recorders or by acoustic well sounders that determine fluid levels in wells. Reservoir pressure ranges from a high of 747 psig at the edge of the field to a low of 138 psig. Average reservoir pressure in the field is approximately 250 psig.

2. Fracture Pressure

The fracture gradient in the Green River is 0.5 psig/ft. calculated from a step-rate injectivity test. Test results and calculations are in the appendix. A fracture gradient of 0.5 psig/ft. gives a reservoir fracture pressure of 1500 psig for the Green River. This gives a surface injection pressure of 1975 psig for the Green River (assuming a fresh water column of fluid).

3. Physical Characteristics

The Green River Formation, which is Eocene in age, overlies the Wasatch Formation and can be divided into the Douglas Creek and Garden Gulch members undivided, and the Parachute Creek and Evacuation Creek members undivided.

Construction Details

Well Name: DDU #14-10

Location: 714' FSL 786' FWL
SWSW Section 10 T9S R24E
Uintah County, Utah

Permit Number: 43-047-30566

Date Drilling Began: 2/26/80

Date Completed: 6/19/80

Drilling Technique: Rotary from surface to total depth.

Total Depth: 6163'

Completion Information: 5264' - 6090' various intervals with 1 SPF (see completion report).

Casing Record: 13-3/8" 48# K-55 @ 138' cemented w/175 sks Class A

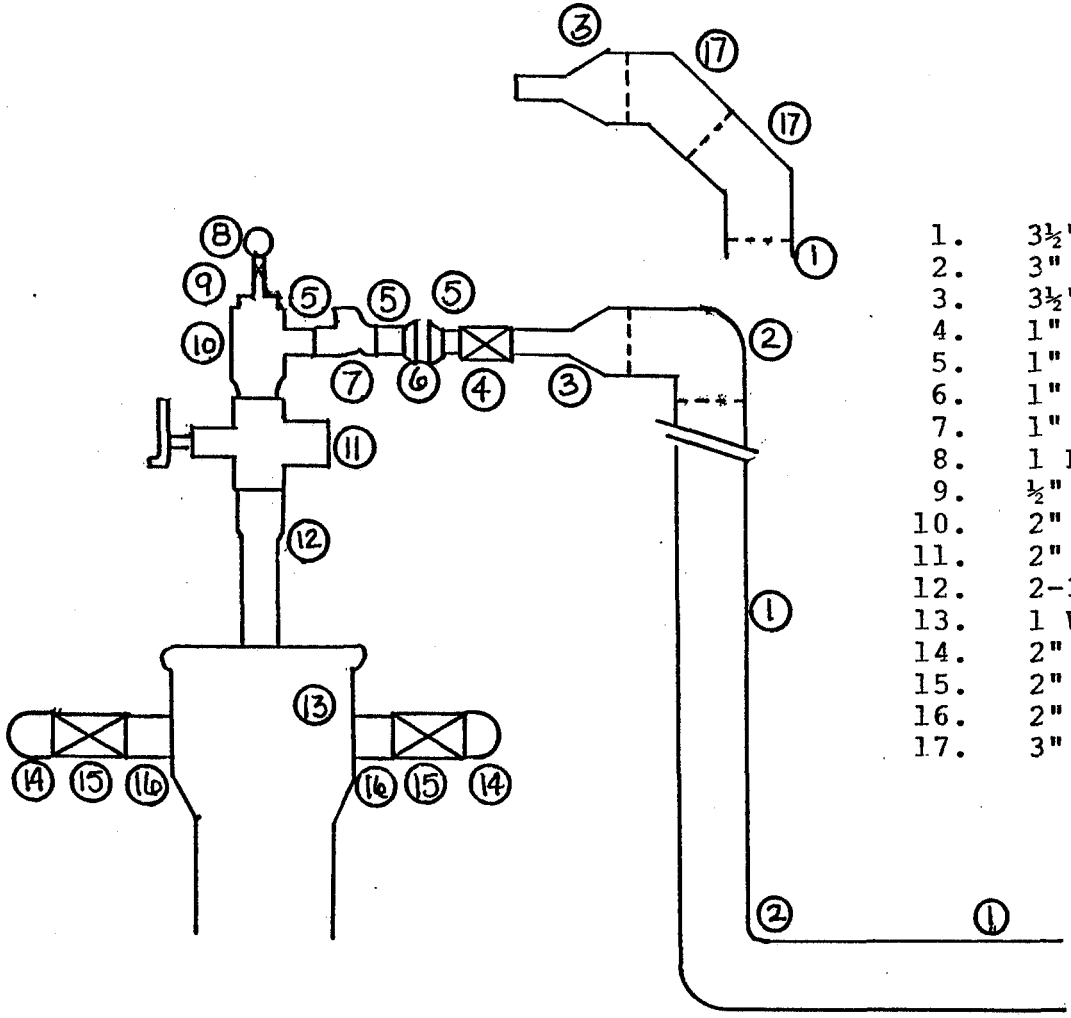
9-5/8" 36# K-55 @ 2716' cemented w/800 sks Class A

4-1/2" 11.6# K-55 @ 6162' cemented w/350 sks Class A

Present Status: P & A (Will be converted to water disposal).

Other Date:

Attachments: See Well Sketch



LEGEND

1. 3½" 0.158" Linepipe
2. 3" Sch. 40 90° Ell Weld
3. 3½" x 1" Sch. 40 Swedge Weld & Thd.
4. 1" Ball 2500 psig
5. 1" x 4" Nipple, Thd.
6. 1" x Sch. 40 Union
7. 1" Check Valve 2500 psig
8. 1 Pressure Gauge
9. ½" Needle Valve - 2500 psig
10. 2" Tee
11. 2" Gate Valve - 2500 psig
12. 2-3/8" Tubing
13. 1 Wellhead
14. 2" Bullplug
15. 2" Ball Valve - 2500 psig
16. 2" x 4" Nipple Thd.
17. 3" Sch. 40 - 45° Ell Weld

WELLHEAD SCHEMATIC

SCALE: NONE	FIELD DIRTY DEVIL UNIT	COUNTY UINTAH
DATE: 10/1/89		STATE UTAH

UNIT #14-10 WATER INJECTION WELL

EPS RESOURCES CORP. DENVER, CO	DRAWING NUMBER 1050

8½ X 11 PRINTED ON NO. 1000H CLEARPRINT

FORMATION TESTING PROGRAM

Stimulation Program

Stimulation Procedure:

1. Run tubing and packer below open interval.
2. Spot sufficient 15% non emulsifying, iron-stabilized HCl acid mixed with suitable solvent to cover perforated interval.
3. Raise tubing and packer to a point 100' above the top perforation.
4. Reverse circulate with 1.25 times tubing volume or until all acid has been displaced from annulus and from tubing.
5. Pump 50 gallons per foot of open interval acid-solvent as in Step 2 down tubing to within 250 feet of the packer; set packer.
6. Displace 50 gal./ft. of acid solvent as in Steps 2 and 5 to perforations.
7. If diverters are necessary, use 8" of graded rock salt (NaCl) per perforation in as many stages as are deemed necessary. Rock salt to be mixed with gelled saturated salt (NaCl) water. If open hole in interval is to be temporarily blocked, use 16# per foot of graded rock salt (NaCl). Ball sealers can be used as well.
8. Allow 30 minutes for acid to spend and swab back load and acid water.
9. Prepare well for injection.

Injection Procedures

1. The selected injection pump is a CAT 318 with an injection capacity of 4 gal/minute maximum.
2. The water supply storage tank is located next to the injection well and is a 400 bbl steel tank. Produced water and extraneous make-up water will be mixed in this tank prior to injection.

Construction Procedures

1. The #14-10 well was drilled to a depth of 6163'.
2. The well was drilled and abandoned on 6/19/80.
3. 9-5/8" intermediate casing (K-55; 36 lbs. weight) was set at 2716' in a 12/4" hole. Centralizers and scratchers were used and cemented with 800 and sacks of Class A.
4. The long string casing is 4-1/2" K-55 type; 11.6 lbs. weight and was set at 6162' in a 7-7/8" hole and cemented with 350 sacks Class A cement.
5. No liner or "other" casing was run in this location.
6. No logs were run on the (open) surface hole before or after surface casing installation since the lithology is well known in this area.

   A Dual Induction - Laterolog and gamma ray log was run and is included in the appendix, with formation tops marked.

   A Density, Compensated Neutron Density was also run.

Construction Details

An illustration of the well construction and wellhead equipment follows in the appendix.

Plans for Well Failures

If a well failure is detected, the well will be shut-in until the faulty equipment is replaced and the well returned to a safe operating condition. If the failure and operation pose no environment hazard, then nothing further will be done.

In the case of casing leaks or some other major failure, the well will be shut-in and the Utah Oil & Gas Commission and EPA will be contacted. The well will remain shut-in until the condition is corrected. This correction will involve squeezing off the leak with cement or replacing the bad casing. The well will not be returned to active status until its integrity has been determined. Any fluid produced during injection well shut-in will either be stored on site or removed by a commercial disposer depending on the amount produced.

Monitoring Program

This project shall be monitored throughout its entire life. All EPA monitoring guidelines and minimum reporting requirements shall be complied with.

a) a quarterly analysis and report by an independent laboratory shall be completed on the injected fluids. The sampling location shall be at the 1/2 inch needle valve at the wellhead.

b) the injection pressure and annulus pressure will be monitored weekly and reported monthly.

c) the flow rate will be monitored weekly and reported monthly.

d) the cumulative volume shall be monitored weekly and reported monthly.

Monthly reports shall be to the State and EPA at the end of each monthly period as soon as data is received (no later than the 10th day of the following month).

Plugging and Abandonment Procedure

1. Move in and rig up workover rig. Kill well as necessary with lease water.
2. Nipple up blowout preventer and test pipe rams to 1000 psi.
3. Pull out of hole with 2-3/8" tubing and packer.
4. Run in hole with cement retainer on 2-3/8" tubing. Set cement retainer +50' above top perforation in Green River. Establish injection rate into perforations with fresh water and squeeze perforations with 40 sacks Class A cement (weight 15.7 ppg; yield 1.18 cf/sk) through retainer.
5. Stab out of retainer and leave 10 sacks cement on top of retainer (+86 linear feet).
6. Pull up to 750' (100' below surface casing shoe depth). Spot 25 sacks of same cement from 750-535'.
7. Pull up to 50'. Spot 10 sacks cement to surface. Pull out of hole with tubing.
8. Cut off 9-5/8" and 4-1/2" casing 4' below ground level. Weld 1/2" steel plate on 4-1/2" casing stub.
9. Backfill and clean up location.

PLUGGING AND ABANDONMENT COSTS

Workover Rig (including rig move) ($120/hr)	$ 3,000
Cementing & Service	2,000
Rentals (BOP & FW tank)	500
Water Transportation	300
Welder	200
Supervision	750
Cement Retainer	1,300
Surface Restoration	750
Total P & A Costs	$ 8,800

FORMATION FLUID ANALYSIS

AREA OF REVIEW

LIST OF WORKING & ROYALTY INTEREST OWNERS
1/2 MILE RADIUS

14-10 Water Disposal Well
located in T9S-R24E Sec. 10: SWSW

Lease U-59089

T9S-R24E
Sec. 9: SE/4SE/4

Working Interest Owners

Dirty Devil L.P.
5655 S. Yosemite, Suite 460
Englewood, Colorado 80111

Landowners Royalty Interest Owner

United States Department of the Interior
Bureau of Land Management
324 South State Street, Fourth Floor
Salt Lake City, Utah 84111-2363

Overriding Royalty Interest Owners

Roy G. Stouffer
211 W. 9th Street
Cheyenne, Wyoming 82001

Robert W. Scott
1275 Lupine Way
Genesse, Golden, Colorado 80401

Eugene A. O'Brien
5461 West Kent Place
Denver, Colorado 80235

Sam T. Boltz, Jr.
509 Princeton Drive
Tyler, Texas 75703

Larry R. Gaston
18189 Shady Hollow Way
West Linn, Oregon 97068

O.L. Rickard
12935 Piney Lake Road
Parker, Colorado 80134

14-10 Disposal Well
State Lease ML-28045

T9S-R24E
Sec. 16: NE/4NE/4

Working Interest Owner

Dirty Devil L.P.
5655 S. Yosemite, Suite 460
Englewood, Colorado 80111

Landowners Royalty Interest Owner

State of Utah
State Lands & Forestry
355 W. North Temple
3 Triad Center, Suite 400
Salt Lake City, Utah 84180-1204

Overriding Royalty Interest Owners

PG&E Resources
2001 Bryan Tower, Suite 953
Dallas, Texas 75201

Jane E. Chorney & Jacqueline E. Chorney
Suite 1000
555 Seventeenth Street
Denver, Colorado 80202

Enserch Exploration, Inc.
as Managing General Partner
of E.P. Operating
4849 Greenville Avenue
Dallas, Texas 75206

Williard J. Pearson, Jr.
3312 Costilla Avenue
Littleton, Colorado 80122

L. Stanley
5070 Nassau Circle
Englewood, Colorado 80110

Enserch Exploration, Inc.
as Managing General Partner
of E.P. Operating
4849 Greenville Avenue
Dallas, Texas 75206

PG&E Resources
2001 Bryan Tower, Suite 953
Dallas, Texas 75201

The State of Colorado

County/Parish of Arapahoe

Before Me, the undersigned, a Notary Public in and for said County or Parish, State of Colorado, on this day personally appeared Edward Neibauer to me well known, and who, after being by me duly sworn, deposes and says that EPS Resources Corporation has notified all working and royalty interest owners of its intent to convert the Dirty Devil Unit #14-10 well, located in the SW/4SW/4 Section 10, T9S R24E, Uintah County, Utah, into a water disposal well.

Witnesses:

Nellie T. Muncy

Affiant

Subscribed and Sworn to Before Me, this 22nd day of October A.D. 19 89.

Notary Public in and for Arapahoe County/Parish

State of Colorado

APPENDIX

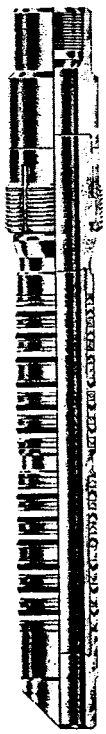
MANUFACTURERS SPECS

Hostile Environment Packer Systems

BAKER OIL TOOLS
A Baker Hughes company

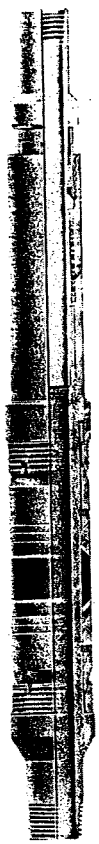
MODEL "HP-1AH" RETRIEVABLE HYDRAULICALLY SET PACKER (488-06)

The first retrievable packer rated to 12,000 psi/82 735 kPa, it is also rated for bottom-hole temperatures up to 450°F/232°C. Sets in tension, neutral, or compression. With the proper accessories, the Model "HP-1AH" can accommodate unlimited tubing movement. Set with pump pressure at any depth, the tubing can be displaced and the packer set after the well is flanged up.



MODEL "M-22" K-RYTE™ ANCHOR SEAL ASSEMBLY (447-01)

Used where well conditions require tubing to be landed in tension or where there is insufficient tubing weight available to keep the seal assembly in the packer bore. Can be used with Models "D" and "F-1" Retainer Production Packers.



MODEL "HEA" (421-03)

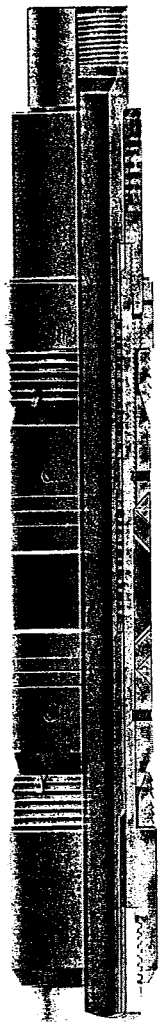
Designed for the same hostile environments as the "HE" but has an upper sealing bore incorporated into the top. The "NM" Anchor Tubing Seal Assembly designed for the "HEA" provides maximum attainable bore through the completion.

MODEL "L-22" LOCATOR TUBING SEAL ASSEMBLY (446-01)

Designed specifically for use with our K-Ryte™ Seal System. Uses set-down weight to prevent seal movement but can provide long service even if tubing movement occurs. Normally used with Models "DB" and "FB-1" and "HE" Retainer Production Packers and seal bore extensions.

MODEL "N-22" K-RYTE™ ANCHOR SEAL ASSEMBLY (447-51)

Used where well conditions require tubing to be landed in tension or where there is insufficient tubing weight available to keep the seal assembly in the packer bore. Can be used to seal the upper bore of Models "DA," "FA," and "SAB" Seal Bore Packers



MODEL "HE" (421-01)

This hostile environment packer has been proven under pressure differentials of 15,000-psi-plus and temperatures to 550°F and withstands corrosive environments like H_2S, CO_2, and amine type inhibitors.

When used with the Model "L" Locator Tubing Seal Assembly, the "HE" provides a dynamic seal bore which extends below the packer in any length required, for dynamic movement of seals during injection, fracturing or reservoir treatment.

HOSTILE ENVIRONMENT SEAL STACKS

K-HEET™ SEAL STACK with Kalrez™

- 15,000-psi-plus differential (103 421 kPa)
- 550°F/288°C

A-HEET™ SEAL STACK with Aflas

- 15,000-psi-plus differential (103 421 kPa)
- 450°F/232°C

™Aflas is a trademark of Asahi Glass Company. Kalrez, Teflon, and Viton are trademarks of DuPont.

BAKER OIL TOOLS

Permanent Packer Systems

MODEL "DW-1" WHIPSTOCK PACKER (415-21) AND MODEL "W-2" ANCHOR ASSEMBLY (499-34)

This combination is used to permanently and reliably place a whipstock in the desired location in a cased hole to allow a sidetrack operation. The "W-2" anchor is the first system designed to allow whipstock orientation on the rig floor after the packer has been set in the casing.

MODEL "E-4" WIRELINE PRESSURE SETTING ASSEMBLY (437-02)

Used for setting Models "D", "DA", "F", "F-1", "FA", and "FA-1" Retainer Production Packers and "SC-2P" and "Retrieva-DA" Lok-Set Retrievable Casing Packers on electric wireline.

MODEL "L" HI TEMP WIRELINE PRESSURE SETTING ASSEMBLY (437-12)

Designed to perform the same function as the Model "E-4," but where the wells are too hot for the "E-4" (above 400°F, 204°C).

MODEL "DR" LOCATOR-TYPE PACKER PLUG (665-01)

Used to convert a Model "D," "DA," "F-1," "FA-1," "N," "SB-3," or "SAB" Retainer Production Packer into a temporary bridge plug after having been previously set.

MODEL "DR" LATCHING-TYPE PACKER PLUG (665-03)

Used for the same purpose and in the same way as the "DR" locator type but will hold pressure in both directions.

MODEL "B" EXPENDABLE PLUG (665-40)

Used to convert a Model "D," "DA," "F-1," or "FA-1" Retainer Production Packer into a temporary bridge plug. It is run in place with the packer. Removed by applying weight.

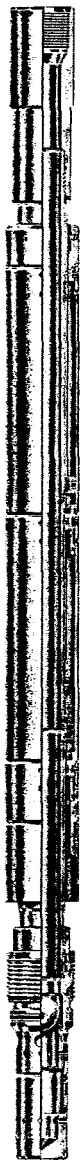
MODEL "CK" PACKER MILLING TOOL (747-08)

Uses a spear to latch into and retrieve the body of a packer instead of the long inner mandrel and catch sleeve of the Model "CJ." This feature eliminates need for running a mill-out extension below the packer. Milling shoes are identical to those used with Models "CC" and "CJ." The spear is a standard fishing tool, field proven over many years.

MODEL "CJ" AND "CC" PACKER MILLING TOOLS (746-06) and (747-03)

The "CJ" is designed to mill over and retrieve a Retainer Production Packer from the well bore. The "CC" is essentially the same as the "CJ" but with the mandrel removed. After milling over a packer it pushes the remains to the bottom of the well.

Hydraulic Setting Tools

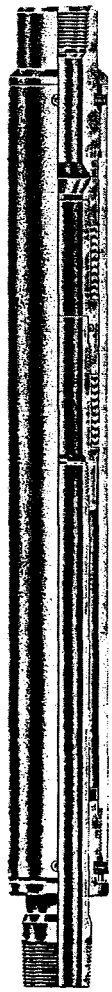


MODEL "B-2" HYDRAULIC SETTING TOOL (415-74)

For use with Model "D," "DA," "F-1," "FA-1," and "HE" packers in sizes 23 and larger, in conjunction with Model "B-2" Hydraulic Set Adapter Kit, Product No. 415-75.

MODEL "J" HYDRAULIC SETTING ASSEMBLY (413-71)

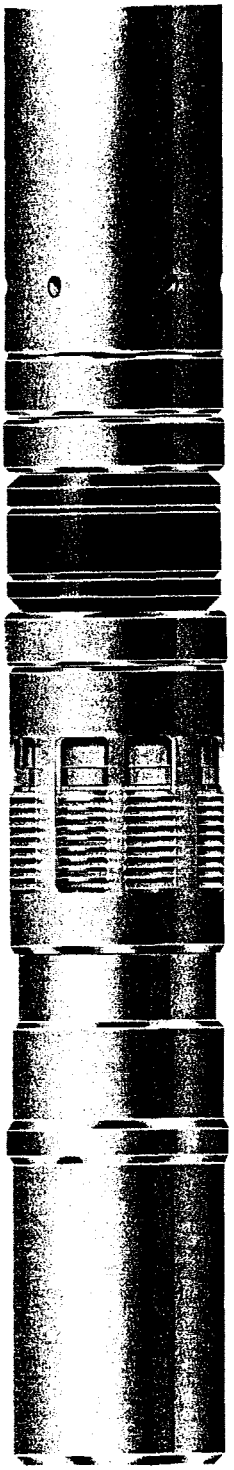
Used for setting packers on tubing. A two- or three-cylinder assembly is available.



EXPANSION JOINTS

Used to minimize tubing stress and packer-tubing force due to tubing length change. Run as a part of tubing string. Available in various models for specific applications.

Retrievable Packer Systems



MODEL "SC-2P" RETRIEVABLE PACKER (646-86)

The new Model "SC-2P" maintains all the advantages of the proven Model "SC-1" yet is built for more hostile environments: up to 10,000 psi/ 68 950 kPa at 350°F/177°C. The packer is set on wire line or hydraulically, retrievable by a straight-pull, or millable for emergency situations. The packer is compatible with standard permanent packer accessories.

MODEL "R-3" DOUBLE-GRIP (642-01)

For single or dual-zone completions or in combination production, well stimulation operations. A long-stroke packer with simple one-turn-right jay-pin setting and straight pick-up release.

MODEL "R-3" SINGLE-GRIP (641-01)

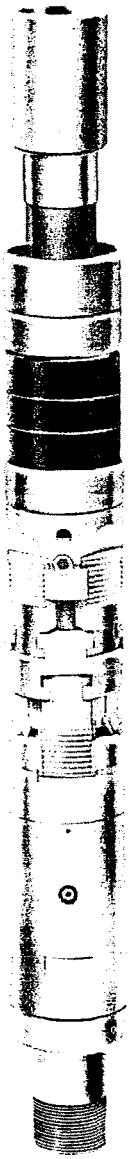
Used in wells where excessive bottom-hole pressure is not expected. Identical to the double-grip packer from the packing elements down, the single-grip running, setting, and releasing procedures are identical also.

MODEL "FR" (683-14) MODEL "FL" (683-15) ON-OFF SEALING CONNECTOR

Permit recovery and reconnecting of tubing string without unseating packer. Seating nipple profile accepts plug to shut-in well. Commonly run above a downhole shut-off valve.

LOK-SET (646-30)

Holds pressure from above and below without set-down weight, tension or hold-downs. Acts as tubing anchor in tension. In waterfloods it permits tubing to be in neutral, eliminating contraction and elongation problems.



TRITOLITE®

CHEMICALS & SERVICES

RECEIVED

OCT 1 8 1989

EPS RESOURCES CORPORATION

X-CIDE® 320

INDUSTRIAL BACTERICIDE

GENERAL DESCRIPTION

X-CIDE 320 is a brine soluble, liquid polyamine semipolar compound possessing excellent corrosion and bacterial properties.

RECOMMENDED USE

X-CIDE 320 is recommended for use in non-potable type industrial water systems where bacterial slime and corrosion problems exist. Examples of industrial applications are oil field and petrochemical water injection systems; oil field producing systems, tanks and disposal systems where the effluent does not drain into streams, lakes, ponds or municipal water systems. X-CIDE 320 is designed to control both aerobic and anaerobic types of bacteria and algae and fungi. Of the aerobic types, it is particularly recommended for the control of so-called "iron bacteria." X-CIDE 320 is very effective in controlling the anaerobic "sulfate reducing" bacteria that are responsible for producing large quantities of hydrogen sulfide.

TREATMENT RECOMMENDATIONS

The Petrolite representative will make a specific recommendation for your system. The following are typical treatment schedules:

OIL FIELD AND PETROCHEMICAL SYSTEMS:

X-CIDE 320 may be used either in slug treatment or in continuous application. Dosages may vary from 500 ppm of X-CIDE 320 in slug application to 30-50 pm of X-CIDE 320 in continuous treatment. (¼ pint per 1000 gallons equals approximately 30 ppm.) A typical slug treatment is to add 120 ppm of X-CIDE 320 (1 pint per 1000 gallons of water) at intervals as needed to prevent growth of bacterial slim. Badly fouled systems may be slug treated to establish control, following by continuous treatment of 30-60 ppm (¼ to ½ pints per 1000 gallons of water) to maintain control.

TYPICAL PHYSICAL PROPERTIES

As a corrosion inhibitor, X-CIDE 320 is equally effective as it is a bactericide in preventing acid or saline corrosion attack.

Specific Gravity	0.946
Weight per Gallon	7.88
Flash Point, TOC	77°F. (25°C.)
Pour Point	-20°F. (−29°C.)

SHIPPING

X-CIDE 320 is shipped in 55 gallon steel drums F.O.B. St. Louis, Missouri or Brea, California

HANDLING

X-CIDE 320 is an industrial chemical and all the normal precautions used in handling industrial chemicals should be observed. See label for first aid instructions.

EPA Registration Number 5009-4

PETROLITE OIL FIELD CHEMICALS GROUP

16010 Barker's Point Lane • Suite 600 • Houston, TX 77079 • (713) 558-5200 • Telex 4620346

PETROLITE

Petrolite Corporation expressly disclaims any and all warranties of every kind and nature including those of merchantability and of fitness for a particular purpose with respect to the product, the information and recommendations contained herein, or any use or reliance thereon.

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OF-143-4A

WELL COMPLETION REPORTS

```
*****************************************************************************
*                                                                           *
*              **  TRANSMIT CONFIRMATION REPORT  **                         *
*                                                                           *
*          Journal No.   :  001                                             *
*          Receiver      :      303 721 6025                                *
*          Transmitter   :  DIV OIL GAS & MINING                            *
*          Date          :  Nov  7,89 10:30                                 *
*          Document      :  02 pages                                        *
*          Time          :  01'31"                                          *
*          Mode          :  G3 NORMAL                                       *
*          Result        :  OK                                              *
*                                                                           *
*****************************************************************************
```

Valley Operating, Inc.

Office: (303) 355-3242 Fax: (303) 377-9798

745 Gilpin Street
Denver, Colorado 80218-3633

FACSIMILE COVER SHEET

PLEASE DELIVER TO: Mike Hebertson

FAX NUMBER/DATE: (801)-359-3940

FROM: Lee Robinson

TOTAL OF 4 PAGES INCLUDING THIS TRANSMITTAL SHEET

REMARKS:

Federal #14-10 Well

If you do not receive all of the pages please call
303-289-7720

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TR[redacted]CATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327-A-59149

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

7. UNIT AGREEMENT NAME: Dirty Devil

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Water Injection SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: EPS Resources Corporation

9. WELL NO.: 14-10

3. ADDRESS OF OPERATOR: 5655 S.Yosemite, Suite 460, Englewood, Colorado 80111

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 786' FWL 712' FSL
SW/4SW/4 Section 10 T9S R24E SLBM
At proposed prod. zone Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 10, T9S, R24E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 5 miles north of Bonanza, Utah

12. COUNTY OR PARISH: Uintah 13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 712' FSL 786' FWL

16. NO. OF ACRES IN LEASE:

17. NO. OF ACRES ASSIGNED TO THIS WELL: 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 2530'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5232' KB

22. APPROX. DATE WORK WILL START*: Upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48	138'	175 sks
12-1/4"	9-5/8"	36	2716'	800 sks

Operator plans to re-enter the 14-10 well with a completion rig and drill out surface cement (approx. 25 sks), pressure test casing to 2000 psi and perforate the Green River intervals 2390' - 2530' with 2 shots per foot. The intervals will be acid fractured with 5000 gals, 15% HCl. The well be converted to a water disposal well for the Dirty Devil Unit operations.

DEC 1989

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Edward Neibauer TITLE President DATE 11/22/89

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE 5-8-90

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

EPS Resources Corporation

5655 South Yosemite
Suite 460
Englewood, CO 80111
(303) 721-7920

RECEIVED
DEC 04 1989
DIVISION OF
OIL, GAS & MINING

December 1, 1989

Mr. Dan Jarvis
Division of Oil, Gas & Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: SWD #14-10 Well
Uintah County, Utah

Dear Mr. Jarvis:

Find enclosed a revised well sketch and copy of the APD concerning the above referenced well.

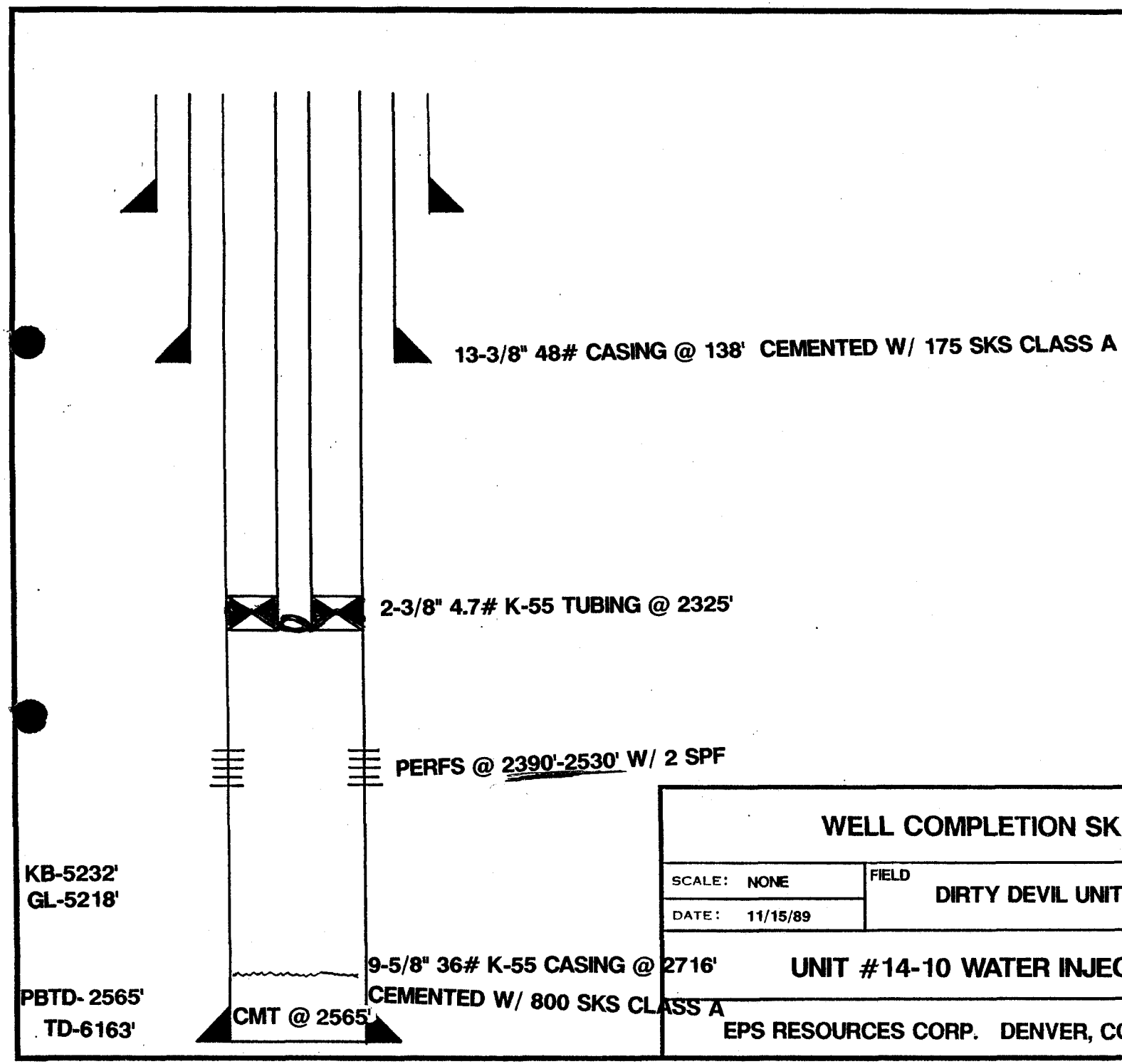
Please call if you have any questions.

Sincerely,

Edward Neibauer
President

EN/ntm

Enclosure



WELL COMPLETION SKETCH

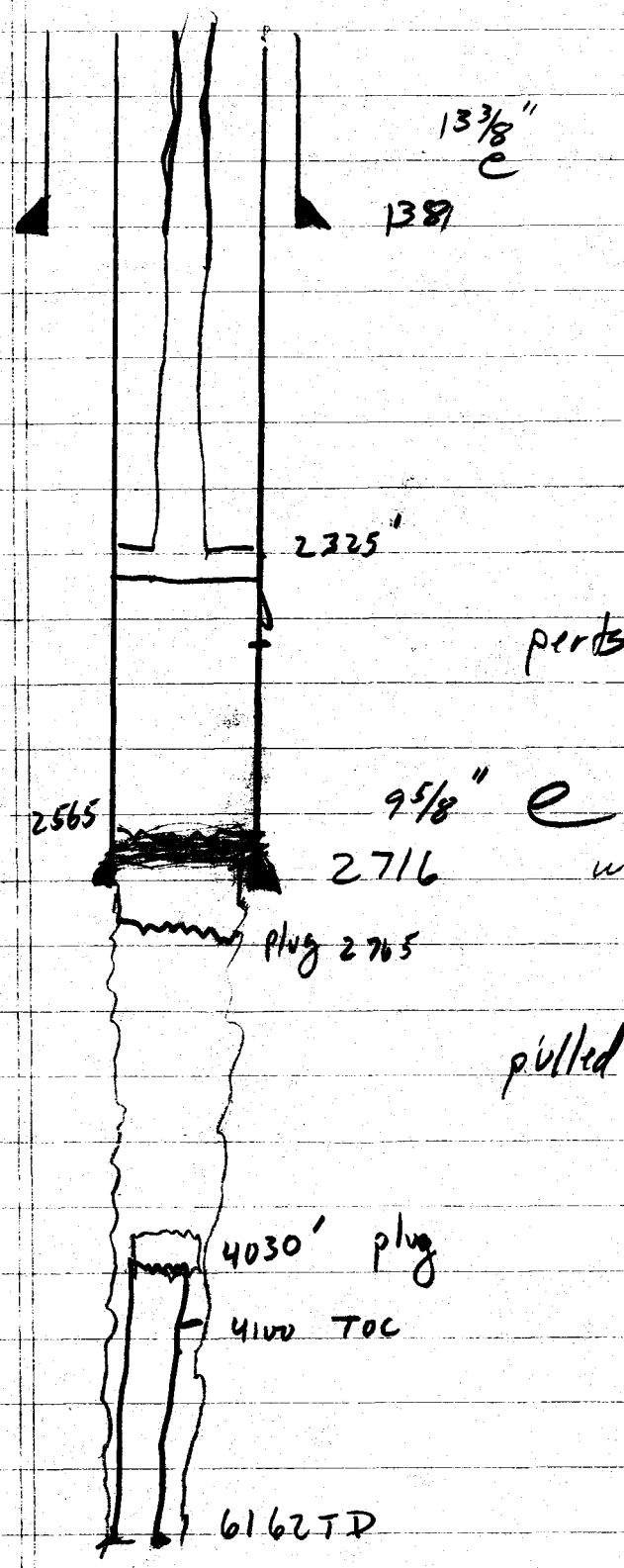
SCALE: NONE	FIELD DIRTY DEVIL UNIT	COUNTY UINTAH
DATE: 11/15/89		STATE UTAH

UNIT #14-10 WATER INJECTION WELL

EPS RESOURCES CORP. DENVER, CO

DRAWING NUMBER 1250

8½ X 11 PRINTED ON NO. 1000H CLEARPRINT



175 sacks

perfs 2390' - 2620'

plug at casing shoe is 2565 - 2765

with 800 sacks to surface

pulled 4030 ft of 4 1/2"

UTAH
NATURAL RESOURCES
OIL, GAS AND MINING

3 Triad Center, Suite 35[illegible] Salt Lake City, UT 84180-1203

Ph. (801)538-5340

APPLICATION FOR INJECTION WELL

Operator: EPS Resources Corporation Telephone: 303-721-7920

Address: 5655 S. Yosemite, Suite 460

City: Englewood State: Colorado Zip: 80111

Well no.: #14-10 Field or Unit name: Dirty Devil Unit

Sec.: 10 Twp.: 9S Rng.: 24E County: Uintah Lease no.: U-0149327

SWSW

	YES	NO
Is this application for expansion of an existing project?		X
Will the proposed well be used for: Enhanced recovery?		
Disposal?	X	
Storage?		
Is this application for a new well to be drilled?		X
Has a casing test been performed for an existing well?	X	

(If yes, date of test: _____)

Injection interval: from 2390 to 2620

Maximum injection: rate 2000 BPD pressure 2000 psig

Injection zone contains _____ oil, _____ gas or _____ fresh water within 1/2 mile.

Additional information as required by R615-5-2 should accompany this form.

I hereby certify that the foregoing is true and correct to the best of my knowledge:

Signed: Edward Neibauer Title: President Date: 10/18/89

(This space for DOGM approval)

Approved by: _____ Title: _____ Date: _____

DOGM-UIC-1 (2/86)

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-0149327

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Water Injection SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Dirty Devil

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: EPS Resources Corporation

9. WELL NO.: 14-10

3. ADDRESS OF OPERATOR: 5655 S.Yosemite, Suite 460, Englewood, Colorado 80111

10. FIELD AND POOL, OR WILDCAT: Undesignated (002)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 786' FWL 712' FSL
SW/4SW/4 Section 10 T9S R24E SLBM
At proposed prod. zone: Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 10, T9S, R24E

RECEIVED DEC 04 1989 DIVISION OF OIL, GAS & MINING

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 5 miles north of Bonanza, Utah

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 712' FSL 786' FWL

16. NO. OF ACRES IN LEASE:

17. NO. OF ACRES ASSIGNED TO THIS WELL: 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 2530' GREEN RIVER

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5232' KB

22. APPROX. DATE WORK WILL START*: Upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48	138'	175 sks
12-1/4"	9-5/8"	36	2716'	800 sks

Operator plans to re-enter the 14-10 well with a completion rig and drill out surface cement (approx. 25 sks), pressure test casing to 2000 psi and perforate the Green River intervals 2390' - 2530' with 2 shots per foot. The intervals will be acid fractured with 5000 gals, 15% HCl. The well be converted to a water disposal well for the Dirty Devil Unit operations.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Edward Neibauer TITLE (303)721-7920 President DATE 11/22/89

(This space for Federal or State office use)

PERMIT NO. 43-047-30566 APPROVAL DATE

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 5-22-90
BY: John R. Baza
WELL SPACING: R615-2-3

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

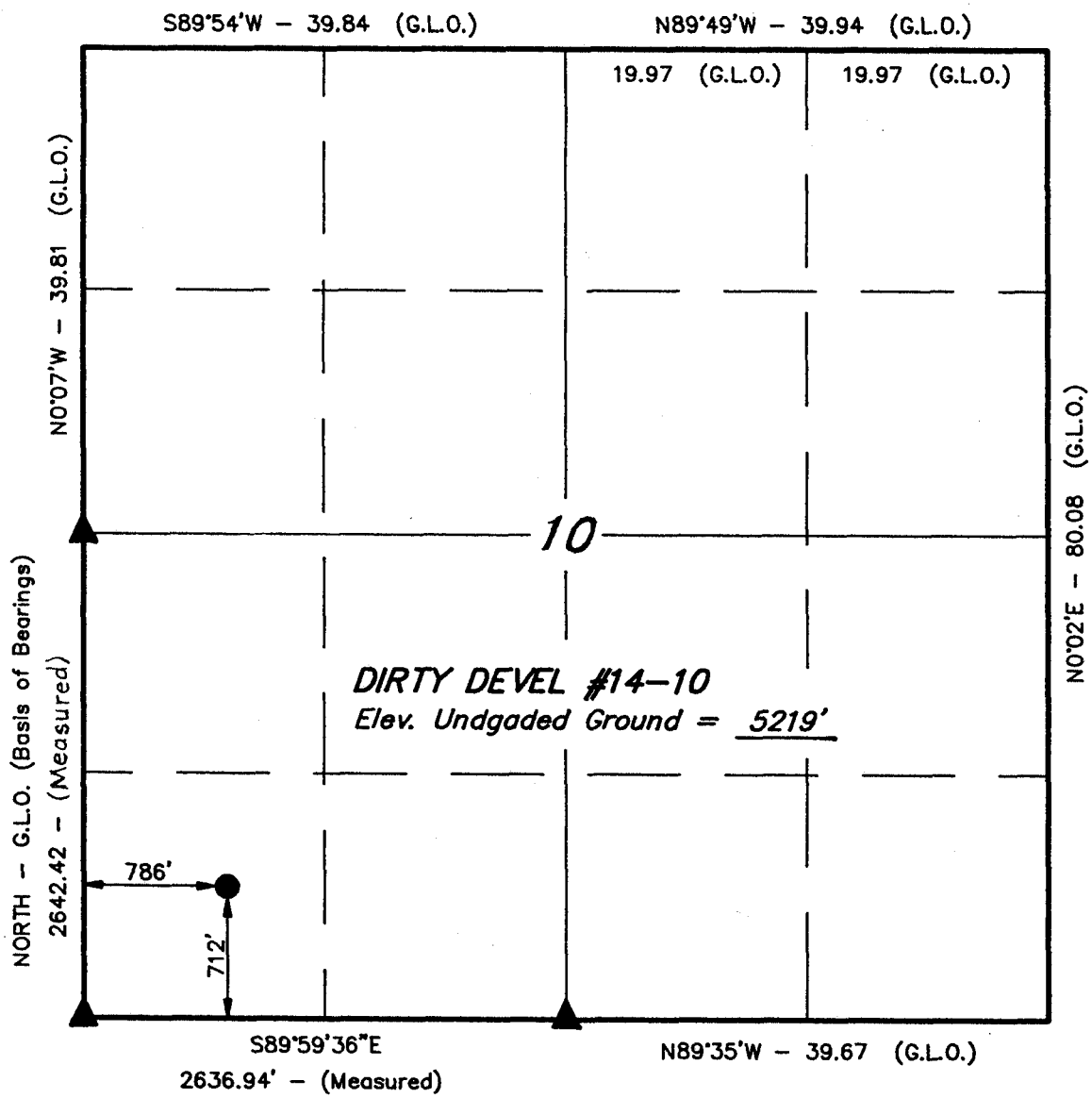
*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

EPS RESOURCES COMPANY

Well location, DIRTY DEVEL #14–10, located as shown in the SW 1/4 SW 1/4 of Section 10, T9S, R24E, S.L.B.&M. Uintah County, Utah.

T9S, R24E, S.L.B.&M.



▲ = SECTION CORNERS LOCATED. Brass Caps

BASIS OF ELEVATION

SPOT ELEVATION AT A BENCH MARK IN THE SW 1/4 OF SECTION 11, T9S, R24E, S.L.B.&M. TAKEN FROM THE BONANZA QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHICAL MAP). PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5283 FEET.

N

REGISTERED LAND SURVEYOR No. 5709 ROBERT L. KAY STATE OF UTAH

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH.

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX 1758 – 85 SOUTH – 200 EAST
VERNAL, UTAH – 84078

SCALE 1" = 1000'	DATE 11–6–89
PARTY L.D.T. K.H. T.D.H.	REFERENCES G.L.O. PLAT
WEATHER COOL, CLEAR	FILE EPS RESOURCES COMPANY

OPERATOR EPS Resources Corporation (N2025) DATE 12-7-89

WELL NAME Federal 14-10

SEC SWSW 10 T 9S R 24E COUNTY Uintah

43-047-30566	Federal
API NUMBER	TYPE OF LEASE

CHECK OFF:

- [x] PLAT
- [x] BOND
- [x] NEAREST WELL
- [x] LEASE
- [x] FIELD
- [x] POTASH OR OIL SHALE

PROCESSING COMMENTS:

Nearest well ok per Unit Spacing.
Need Water Permit
Need Supplemental P.O.D. for the Dirty Devil Unit / BLM-Theresa
1990 P.O.D. Approved 4-2-90 (5-8-90 Requested Copy of Approved P.O.D.)
Blm Approved 5-8-90.

APPROVAL LETTER:

SPACING: [x] R615-2-3 Dirty Devil UNIT [ ] R615-3-2

[ ] N/A CAUSE NO. & DATE [ ] R615-3-3

STIPULATIONS:

1. Water Permit

0218T

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

February 12, 1990

Mr. Edward Neibauer
President
EPS Resources Corporation
5655 South Yosemite
Suite 460
Englewood, Colorado 80111

Dear Mr. Neibauer:

Re: Devils Playground Unit, Fed. 14-10 Well, Section 10, Township 9 South, Range 24 East, Uintah County, Utah

The application you submitted to convert the referenced well to injection (disposal) was reviewed and a few deficiencies were discussed by phone between you and Mr. Jarvis of this office. We are prepared to proceed with the State approval process as soon as this information is received.

If you have questions concerning this application, please call.

Sincerely,

Gil Hunt
UIC Manager

ldc
EPS

an equal opportunity employer

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION OF EPS RESOURCES CORPORATION FOR ADMINISTRATIVE APPROVAL OF THE DEVILS PLAYGROUND UNIT, FEDERAL 14-10 WELL LOCATED IN SECTION 10, TOWNSHIP 9 SOUTH, RANGE 24 EAST, S.L.B. & M., UINTAH COUNTY, UTAH AS A CLASS II INJECTION WELL	:	NOTICE OF AGENCY ACTION CAUSE NO. UIC-120

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of EPS Resources Corporation for administrative approval of the Devils Playground Unit, Federal 14-10 Well, located in Section 10, Township 9 South, Range 24 East, Uintah County, Utah, for conversion to a Class II injection well. The proceeding will be conducted according to the provisions of the Administrative Procedures rules, R615-10.

The operating data for the well is as follows:

Injection Interval: 2390' to 2530' Green River Formation
Maximum Injection Rate/Surface Pressure: To be determined after testing

Administrative approval of this application will be granted unless an objection is filed within fifteen days after publication of this notice by any person authorized to participate as a party in this adjudicative proceeding. If an objection is received by the Division, a formal adjudicative proceeding will be scheduled before the Board of Oil, Gas and Mining.

DATED this 23rd day of May, 1990.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

R.J. Firth
Associate Director, Oil and Gas

WOI127/5

EPS Resources Corporation

5655 South Yosemite
Suite 460
Englewood, CO 80111
Phone (303) 721-7920
Fax (303) 721-6025

RECEIVED
MAR 09 1990
DIVISION OF
OIL, GAS & MINING

March 7, 1990

Mr. Dan Jarvis
Department of Natural Resources
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: #14-10 Well
Sec. 10 T9S R24E
Uintah County, Utah

Dear Mr. Jarvis:

Please find enclosed the information you have requested concerning the referenced well.

The original well survey was 786' FWL and 714' FSL and the new well survey is 786' FWL and 712' FSL. This 2 foot discrepancy was due to the operator initially drilling the well was forced to move the rig 2 feet in order to accommodate the proper location layout, primarily the drilling pits. This happens often when the topography of the land doesn't allow a feasible location build out.

The #14-10 well will be joined to the Dirty Devil Unit. The proper applications are currently being submitted. If you have any questions about the application, please call Cindy Senko, Land Manager at 303-721-7920.

Please call if you have any questions.

Sincerely,

Edward Neibauer
President

EN/ntm

Enclosure

WELL PROGNOSIS
DDU #14-10
Section 10 T9S R24E
Uintah County, Utah

RECEIVED
MAR 09 1990

Location: 712' FSL, 786' FWL SWSW
Section 10 T9S R24E

Operator: EPS Resources Corporation

Lease: U-0149327

Contractor: To be selected

Elevation: Ungraded Ground - 5219'

Formation Tops:

Formation	Depth	Datum
Green River		
Evacuation River	800'	+4432
Parachute Creek	1400'	+3832
"H" Marker	2753'	+2479

Logging Program:

The following logs have been run across the Green River formation:

Compensated Densilog/Neutron

BHC Acoustilog

Procedure:

(1) MIRU workover rig. Drill out cement plugs in 9-5/8" casing @ surface (approx. 25 sks) and clean out to PBTD @ 2565'.

(2) The casing will be pressure tested to 2000 psi and perforated at selected interval w/2 shots per foot (spf).

(3) The perf'd interval will be acid frac'd w/5000 gal 15% HCl and evaluated for salt water disposal. 2-3/8" tubing 4.7# K-55 tubing will be set @ 2310'.

(4) After thorough clean-up of the well, fluid samples will be taken for analysis for both oil and water.

EN/3/7/90

EPS RESOURCES CORPORATION

13 Point Surface Use Plan

for

Well Location

#14-10

Located in

Section 10, T9S-R24E, S.L.B. & M.

Uintah County, Utah

EPS RESOURCES CORPORATION

Section 10, T9S-R24E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A", to reach the Dirty Devil Unit well location, located in Section 10, T9S-R24E, S.L.B. & M., from Vernal, Utah.

Proceed East out of Vernal, Utah along U.S. Highway 40, 24 miles to the junction of this highway and Utah State Highway 45 to the South; proceed South along this road 15 miles to Little Bonanza, Utah; proceed Westerly along this road 3.0 miles to the junction of this road and the proposed access road to be discussed in Item #2.

There is no construction anticipated on any of the above described road. It will meet the standards necessary, for the hauling of equipment during the drilling and production of this well.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the proposed access road.

In order to facilitate the anticipated traffic flow, the following standards will be met:

A. This proposed access road will be an 18" crown road (9' either side of the center-line) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from any normal meteorological conditions that are prevalent to this area.

B. Back slopes along the cut areas of the road will be 1 1/2 to 1 slopes and terraced.

C. The road will be center-line flagged prior to the commencement of construction.

D. The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during construction.

E. No major cuts, fills or culverts are necessary for construction on the proposed access road.

F. Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required.

G. If cattleguards are to be located at existing gates they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

H. The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate either leaving or entering the proposed access road.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", the other known wells within a one mile radius are identified as follows:

(1) Water Wells - None
(2) Abandoned Wells - None
(3) Temporarily abandoned wells - None
(4) Disposal Wells - None
(5) Drilling Wells - None
(6) Producing Wells 2 (Two), Dirty Devil Unit (DDU) 31-15A, T9S-R24E, S.L.B. & M., and the DDU $41-9, NENE, Section 9, T9S-R24E, S.L.B. & M.
(7) Shut in Wells - None
(8) Injection Wells - None
(9) Monitoring or observation wells for other purposes - None

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES AND PRODUCTION GATHERING LINES AND SERVICE LINES

All facilities are to be contained within the proposed location site.

5. LOCATION OF AND TYPE OF WATER SUPPLY

A. Water required for operations will be transported by truck over the existing and proposed access roads from Bonanza, Utah.

6. SOURCE OF CONSTRUCTION MATERIALS

Construction materials will be obtained from Federal lands.

The proposed access road under Item #2 will be crossing Federal lands.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet.

An emergency reserve pit will be constructed.

A. The emergency reserve pit will be approximately 8' deep and at least one half of this depth shall be below the surface of the existing ground.

B. If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

C. The pits will have overhead flagging installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

D. This reserve pit will be fenced on four sides and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

E. When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

F. Garbage and other waste materials will be contained in an enclosed wire mesh trash bin on the location and hauled to the nearest sanitary fill as necessary.

G. A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. See Location Layout Sheet and Item #9. When all drilling production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 5' of cover.

As mentioned in Item #7, the reserve pit will be completely fenced and wired and overhead wire and flagging installed, if there is oil in the pits, and then allowed to completely dry before covering.

Any appreciable amount of oil will be removed from the reserve pit prior to restoration activities.

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Item #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area (See Topographic Map "A")

The area is basin formed by the Blue Mountain Plateau and Green River to the North and the White River and Roan Plateau to the South.

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstones, conglomerates, and shale deposits are extremely common to this area.

The surface area is used primarily for grazing domestic sheep and cattle.

The geologic structures of the area that are visible are of the Uintah Formation (Eocene Epoch) Tertiary Period in the upper elevation and the cobblestone and younger Alluvial deposits from the Quaternary Period.

Outcrops of sandstone ledges conglomerate deposits and shale are common in this area.

The topsoil in the area range from a light brownish-gray sandy clay (SM-ML) type soil poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

The White River to the South of this location is the only perennial stream that is affected by this location site.

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in. It consists of areas of sagebrush, rabbitbrush, some grasses and cacti as the primary flora. This is also true for the lower elevations.

The fauna of the area consists predominantly of the mule deer, coyotes, rabbits and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows and jays.

<u>The Topography of the Immediate Area (Topographic Map "B")</u>

The location is on top of a small ridge which slopes to the Northeast.

The majority of the drainages in the area around this location run in a Northerly direction into Coyote Wash which is a tributary to the White River, and are non-perennial streams.

The terrain in the vicinity of the location slopes to the Northwest from the top of a small ridge through the location site at approximately a 2% grade into a small wash to the North.

The vegetation in the immediate area surrounding the location site is predominantly sagebrush and grasses. There are no occupied dwellings or other facilities of this nature in the general area. There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Glade Holmes
P.O. Box 1847
Vernal, Utah 84078
(Office) 801-789-9011
(Mobile) 801-789-6313

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; that the work associated with the operations proposed herein will be performed by EPS Resources Corporation and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

EPS Resources Corporation

Edward Neibauer
President

12/1/89
Date

WELL PROGNOSIS
DDU #14-10
Section 10 T9S R24E
Uintah County, Utah

Location: 712' FSL, 786' FWL SWSW
Section 10 T9S R24E

Operator: EPS Resources Corporation

Lease: U-0149327

Contractor: To be selected

Elevation: Ungraded Ground - 5219'

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(3) The perf'd interval will be acid frac'd w/5000 gal 15% HCl and evaluated for salt water disposal. 2-3/8" tubing 4.7# K-55 tubing will be set @ 2325'.

EN/11/29/89

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

For BLM Use Only

BLM Report ID No. ____-____ (1–10)

Report Acceptable Yes __ No __

Mitigation Acceptable Yes __ No __

Comments: _____

1. Cultural Report or Project #14-10 Federal (11–40)

2. Development Company Pacific Transmission Supply

3. BLM Mini Permit No. ____ (41–45)

4. BLM Antiquities Permit No. 79-UT-028 (46–55)

5. Report Date Nov 6 1979 (56–58 Month, 59 Day, 62 Year)

6. Field Work Dates 10/10/79

7. Responsible Institution Powers Elevation (63–77)

Fill in spaces 81, 85, 93, 97 only if:
V = Vernal Meridian
H = Half Township

8. Fieldwork Location: TWN 9S (78–81) Range 24E (82–85) Section(s) 10 (86 87) SW (88 89)
TWN ____ (90–93) Range ____ (94–97) Section(s) ____ (98 99) ____ (100 101)

9. Resource Area BC (102 103) Other: _____ Uintah County

BO = Bonneville, WA = Wasatch, HR = House Range, WS = Warm Springs,
SE = Sevier River, HM = Henry Mtns., BR = Beaver River, DX = Dixie,
KA = Kanab, ES = Escalante, SJ = San Juan, GR = Grand, PR = Price River,
SR = San Rafael, DM = Diamond Mountain, BC = Book Cliffs.

10. Description of Examination Procedures:
A 400' radius, surrounding the center stake, was surveyed using a spiral transect at 20 meter intervals. Also surveyed was ½ mile of access, 25 ft. each side of the center line.

11. Linear Miles Surveyed and/or 0.5 (104–112)
Definable Acres Surveyed and/or 25 (113–121)
*Legally Undefinable Acres Surveyed ____ (122–130)
(*A parcel hard to cadastrally locate i.e., center of section)

12. Inventory Type I (131)
R = Reconnaisance
I = Intensive
S = Statistical Sample

13. Description of Findings (attach appendices, if appropriate)

NA

14. Number Sites Found: 0 (132–13)
No sites = 0

15. Collection: N (138) Y = Yes, N = No

16. Actual/Potential National Register Properties Affected: File search information indicated that there are no previously recorded sites within or near the study area.

17. Conclusion/Recommendations:
Due to the lack of cultural resource material it is recommended that cultural resource clearance be given for the above location and its access.

18. Signature of person in direct charge of field work: Brian O'Neil

PACIFIC TRANSMISSION SUPPLY

19. Signature and Title of Institutional Officer Responsible [signature]
Division Manager

NOV 09 1979

UT 8100-3 (4/79)

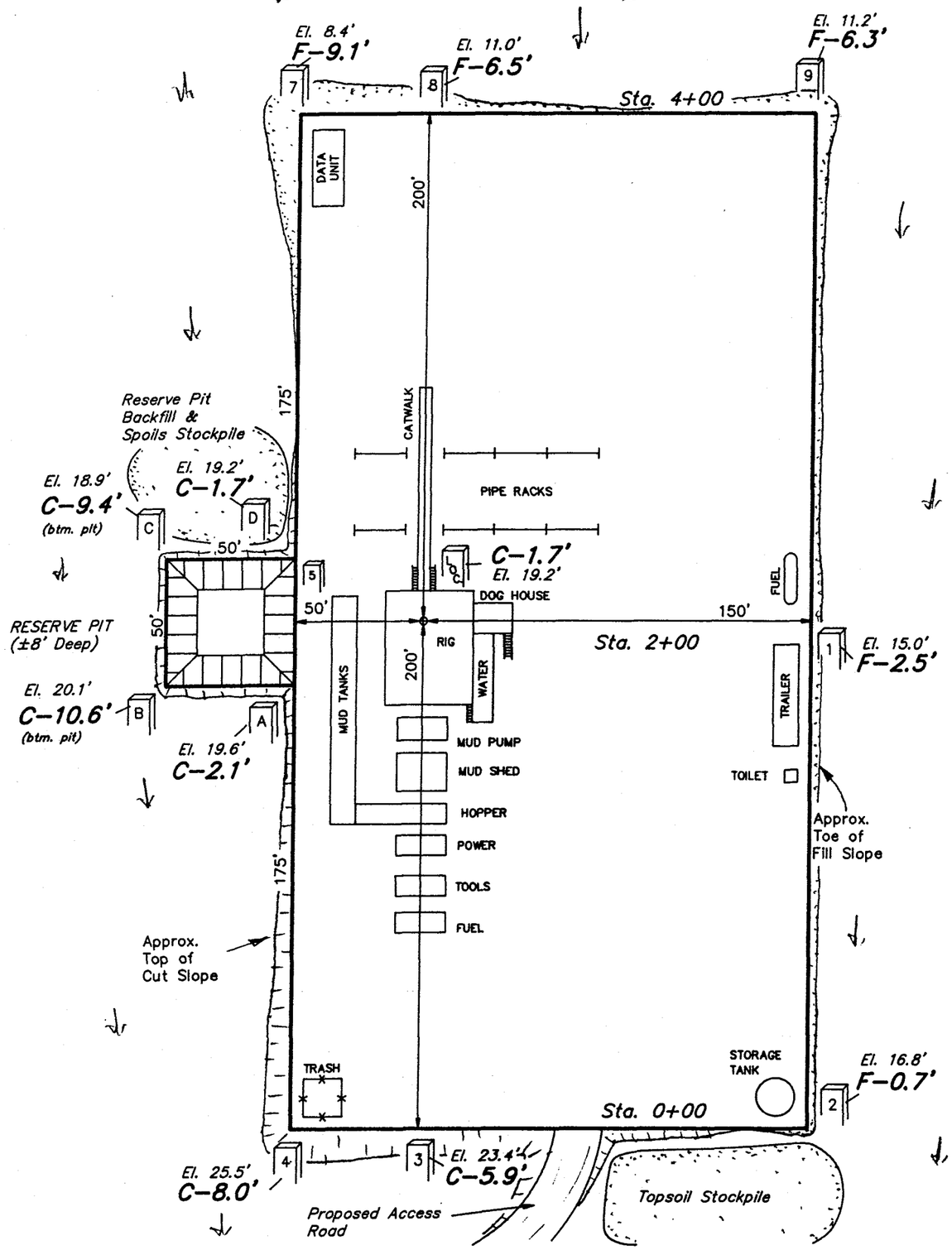
VERNAL OFFICE

EPS RESOURCES COMPANY

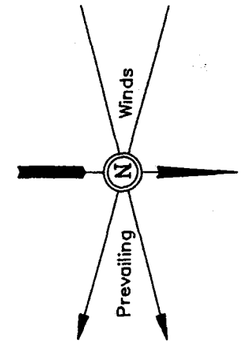
LOCATION LAYOUT FOR

DIRTY DEVIL #14-10

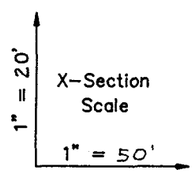
SECTION 10, T9S, R24E, S.L.B.&M.



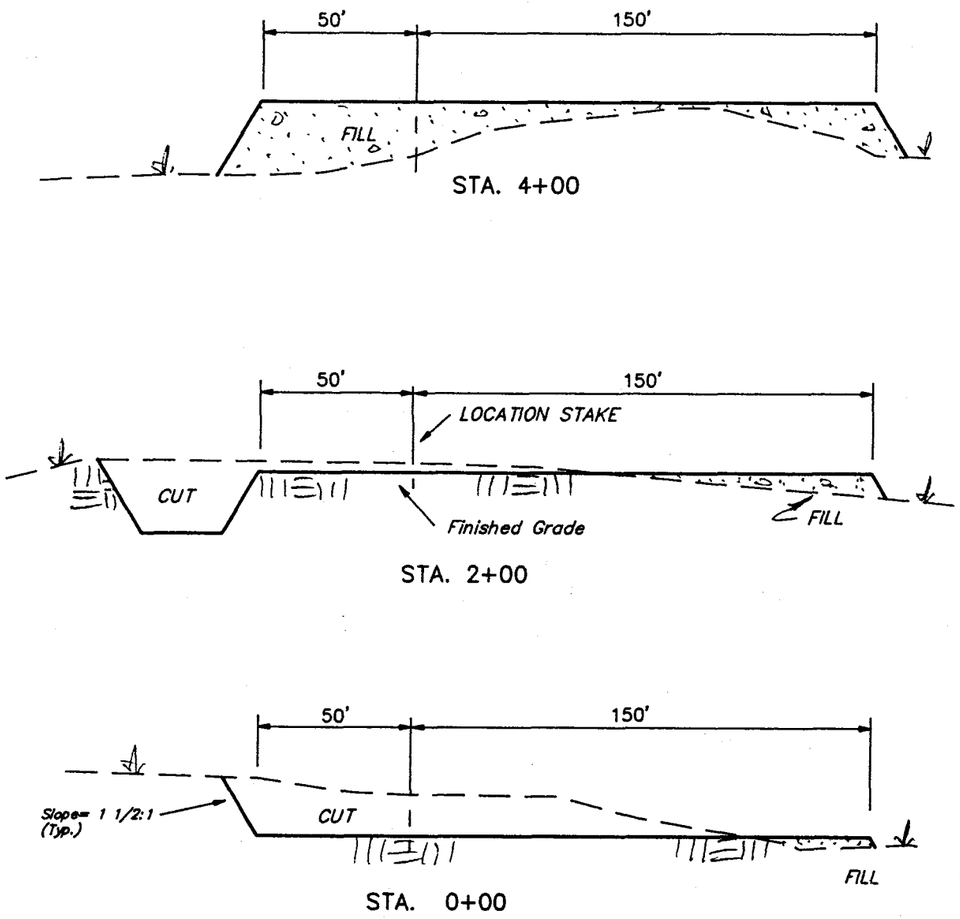
TYP. LOCATION LAYOUT



SCALE: 1" = 50'
DATE: 11-7-89



TYP. CROSS SECTIONS



APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping	=	1,528 Cu. Yds.
Pit Volume (Below Grade)	=	428 Cu. Yds.
Remaining Location	=	3,077 Cu. Yds.
TOTAL CUT	=	5,033 CU. YDS.
FILL	=	3,121 CU. YDS.

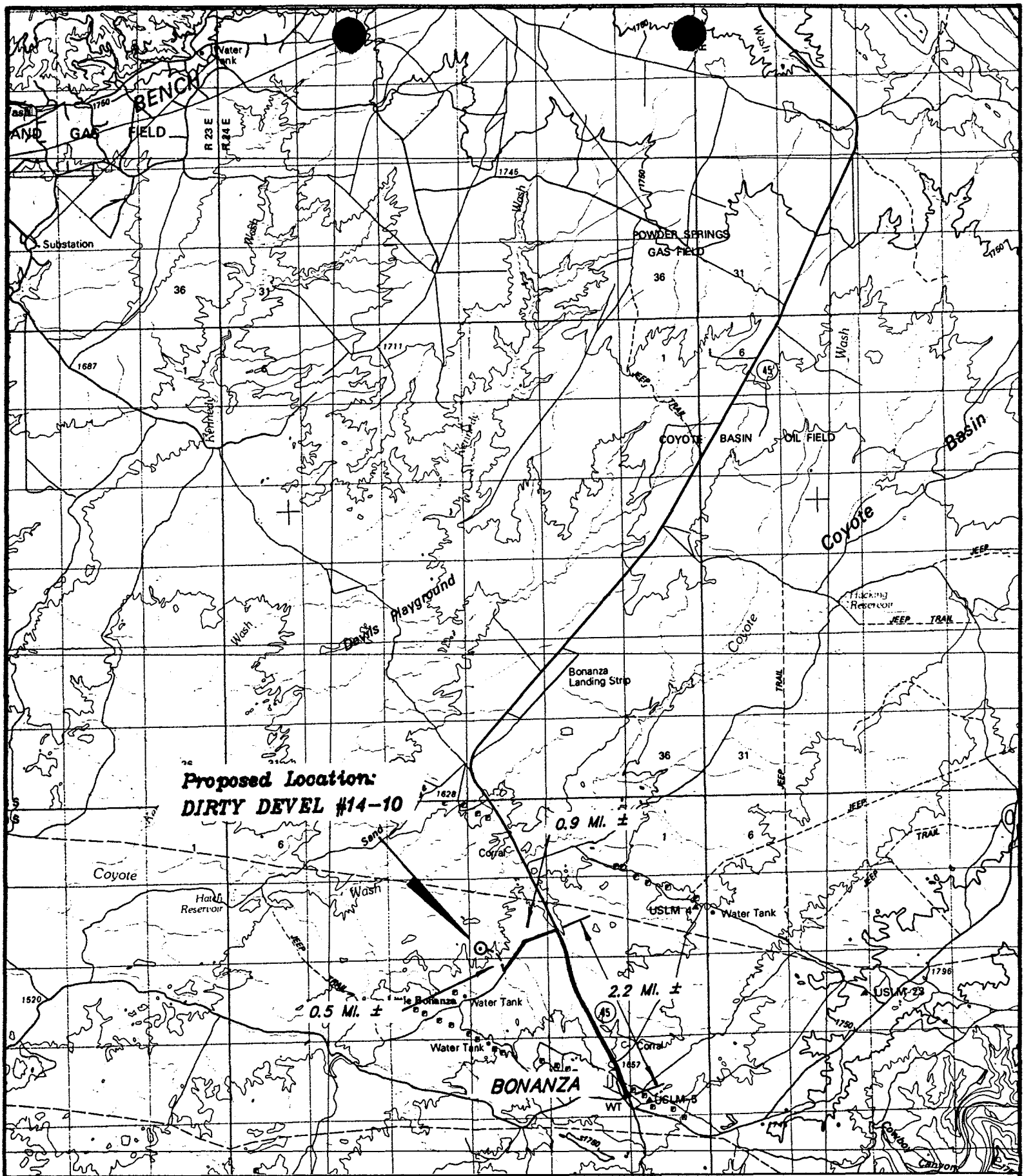
EXCESS MATERIAL AFTER 5% COMPACTION	=	1,748 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,742 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	6 Cu. Yds.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5219.2'

FINISHED GRADE ELEV. AT LOC. STAKE = 5217.5'

UINTAH ENGINEERING & LAND SURVEYING
85 South 200 East Vernal, Utah

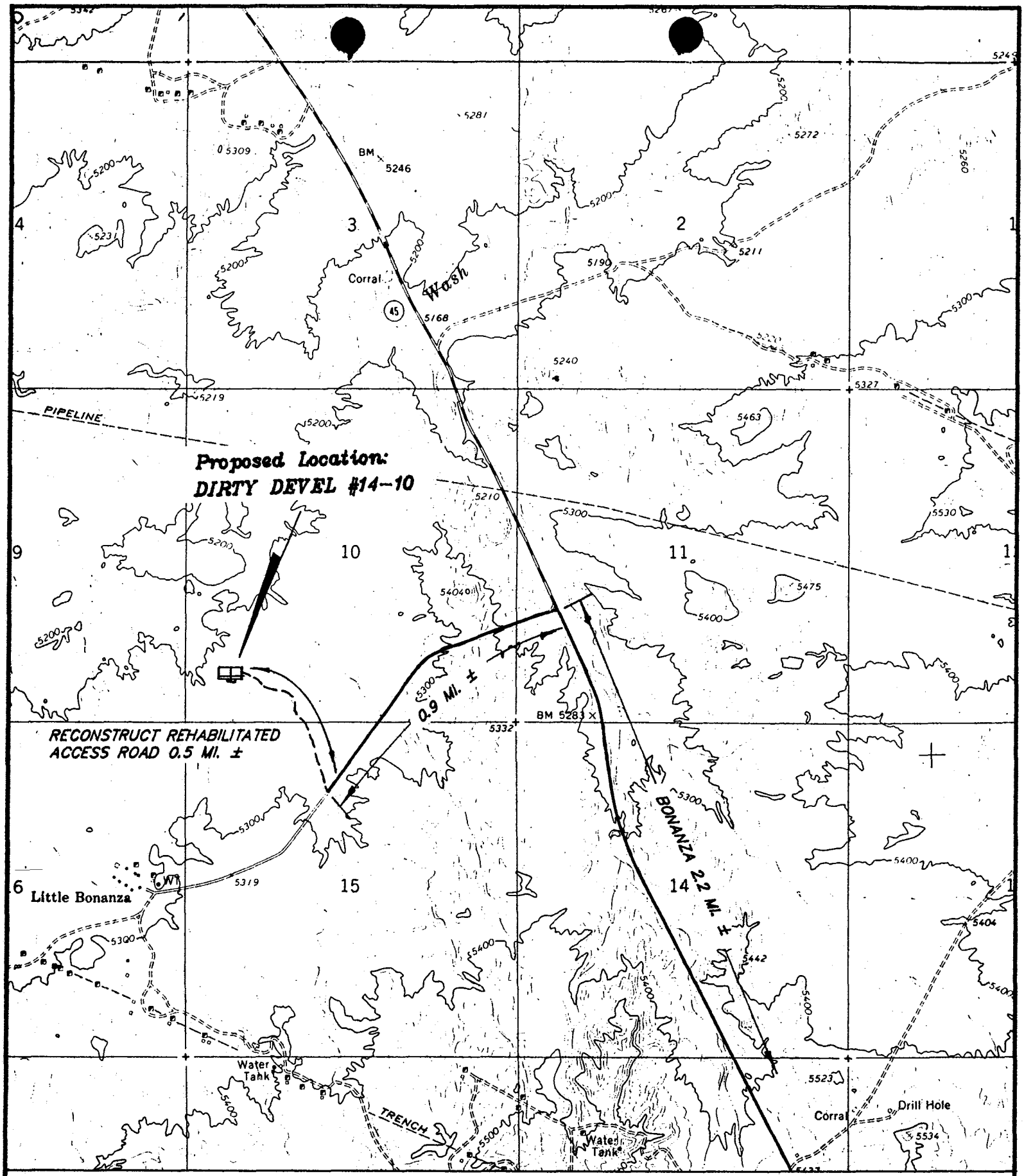


TOPOGRAPHIC
MAP "A"
DATE: 11-6-89

N

EPS RESOURCES COMPANY

DIRTY DEVEL #14-10
SECTION 10, T9S, R24E, S.L.B.&M.



TOPOGRAPHIC

MAP "B"

SCALE: 1" = 2000'

DATE: 11-6-89

N

EPS RESOURCES COMPANY

DIRTY DEVEL #14-10

SECTION 10, T9S, R24E, S.L.B.&M.

PACIFIC TRANSMISSION SUPPLY COMPANY
NATURAL GAS CORPORATION OF CALIFORNIA
308 DURBIN CENTER BUILDING
145 SOUTH DURBIN STREET
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

GEOLOGICAL WELL REPORT

PACIFIC TRANSMISSION SUPPLY COMPANY

DEVILS PLAYGROUND-PTS #14-10 FEDERAL

SECTION 10, TOWNSHIP 9 SOUTH, RANGE 24 EAST

UINTAH COUNTY, UTAH

Submitted by: Erik Enquist, Geologist
Natural Gas Corp of Calif
April 15, 1980

PACIFIC TRANSMISSION SUPPLY COMPANY
NATURAL GAS CORPORATION OF CALIFORNIA
308 DURBIN CENTER BUILDING
145 SOUTH DURBIN STREET
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

DEE E. BEARDSLEY
MANAGER OF OPERATIONS

WELL DATA

PTS #14-10 FEDERAL
Sec. 10, T9S, R24E
Uintah County, Utah
Devils Playground Unit

OPERATOR:	Pacific Transmission Supply Company
LEGAL LOCATION:	714' FSL, 786' FWL SW SW Sec. 10, T9S, R24E
WELL NAME:	PTS #14-10 Federal Devils Playground Unit
COUNTY AND STATE:	Uintah County, Utah
ELEVATIONS:	5218' Ground (ungraded) 5232' K.B.
CONTRACTOR:	Olsen Drilling Company, Rig #2
SPUD DATE:	Dry Hole 2/27/80 Drilling Contractor 3/6/80
SURFACE CASING:	13-3/8" to 124' 9-5/8" (36#, K-55) to 2716' 4-1/2" (11.6#, N-80) to 6163'
HOLE SIZE:	12-1/4" to 2720' 7-7/8" to 6163'
FLUIDS CONTRACTOR:	Magcobar Drilling Fluid Services Vernal, Utah
DRILLSTEM TESTS:	Lynes, Rock Springs, Wyoming (See DST reports)
LOGGING DATA:	Dresser Atlas, Roosevelt, Utah 140-2726' - DIFL w/SP, Densilog w/GR and Caliper, Comp. Neutron-Density w/GR and Caliper, BHC Acoustilog w/GR and Caliper 2718-6165' - DIFL w/GR, Densilog w/GR and Caliper, Comp. Neutron-Density w/GR and Caliper

Well Data - continued

MUD LOGGING:	Rocky Mountain Geo-Engineering Company Grand Junction, Colorado
CORES:	None
TOTAL DEPTH:	6163' - Driller 6165' - Logger
CEASED DRILLING:	March 26, 1980 - rig released March 30, 1980

CHRONOLOGICAL WELL HISTORY

Date	Drilled to	Hours Drilling	Activity
3-6-80	128'		Spud 8 A.M.
3-7-80	522'	14-1/2	Test BOP's; drill cement; drilling.
3-8-80	1322'	22-1/4	Drilling.
3-9-80	1788'	20	Drilling; lost circulation problem.
3-10-80	2076'	15-3/4	Mix LCM; trip for bit #1; drilling.
3-11-80	2483'	23-1/4	Drilling.
3-12-80	2720'	12-1/4	Drilling; trip for logs; logging
3-13-80	2720'	0	Logging; run 9-5/8" casing; WOC, nipple down BOP's.
3-14-80	2771'	4	Set casing slips; cut off casing; test BOP's; drilling cement; drilling.
3-15-80	3392'	21-3/4	Drilling.
3-16-80	3980'	23	Drilling.
3-17-80	4287'	20-3/4	Drilling.
3-18-80	4418'	8	Drilling; trip for DST #1; run DST.
3-19-80	4592'	11-1/2	Run DST; trip out DST; drilling.
3-20-80	4805'	17-1/4	Drilling; trip to change collars.
3-21-80	5083'	23-1/4	Drilling.
3-22-80	5262'	17-1/4	Drilling; trip for bit #4.
3-23-80	5589'	22-1/2	Drilling.
3-24-80	5817'	23-1/2	Drilling.
3-25-80	5889'	5-1/2	Drilling; trip for DST #2; run DST.
3-26-80	6067'	13-1/4	Run DST; drilling.
3-27-80	6163'	5	Drilling; condition hole for logs; trip for logs; logging.
3-28-80	6163'	0	Logging; run DST #2

BIT RECORD

No.	Make	Type	Size	In	Out	Total Ftg.	Hours
1	Smith	F-4	12-1/4"	128'	1790'	1662'	56-3/4
2	Smith	F-3	12-1/4	1790'	2720'	930'	51-1/4
3	Smith	F-45	7-7/8"	2720'	4418'	1698'	77-1/2
4	Hughes	J-33	7-7/8"	4418'	5225'	807'	66-1/4
5	Smith	F-45	7-7/8"	5225'	5889'	664'	54-1/2
6	Security	S-86F	7-7/8"	5889'	6163'	274'	18-1/2

DEVIATION

Depth	Deviation
204'	1/4 deg.
493'	1/4 deg.
750'	1/4 deg.
978'	1/4 deg.
1480'	1/2 deg.
2720'	1 degree
3405'	1-1/4 deg.
3999'	2-1/4 deg.
4245'	2 degrees
4377'	1-1/2 deg.
5407'	3-3/4 deg.
5889'	3 degrees
6163'	3 degrees

FORMATION TOPS

Formation or Marker	Sample Top	Log Top	Datum
Evacuation Creek		800'	+4432'
Parachute Creek	1276'	1400'	+3832'
"H" Marker		2753'	+2479'
"K" Marker		3127'	+2105'
Wasatch	4050'	4016'	+1216'
"Y" Marker		4880'	+ 352'
Mesaverde	5370'	5357'	- 125'

DRILLSTEM TESTS

Drillstem Test No. 1, 4386-4418' (32')

Tool opened with strong blow off bottom of bucket immediately on bubble hose; 10 pounds in 2 minutes, 20 pounds in 5 minutes, 30 pounds in 10 minutes; opened 1/4" choke in 13 minutes with 24 pounds where it remained throughout flow (gas to surface in 16 minutes during second flow).

	Time	PSI	Choke	MCF/D
Second flow:	5 minutes	8	1/4"	27
	10 minutes	8	1/4"	27
	15 minutes	8	1/4"	27
	20 minutes	8	1/4"	27
	25 minutes	10	1/4"	30.8
	30 minutes	12	1/4"	34
	40 minutes	12	1/4"	34
	50 minutes	12	1/4"	34
	55 minutes	12	1/4"	34
	60 minutes	11	1/4"	32.4
	65 minutes	14	1/4"	37.6
	70 minutes	14	1/4"	37.6
	75 minutes	12	1/4"	34
	80 minutes	11	1/4"	32.4
	85 minutes	10	1/4"	30.8
	90 minutes	9	1/4"	29

Sampler

Pressure in sampler	4 psig
Total volume in sampler	2100 cc
Total volume in sample	1700 cc
Water	1700 cc
Gas	.125 cubic feet

Sample R_w	.20 @ 64 degrees	38,000 ppm cl
Water R_w	5.2 @ 50 degrees	1,400 ppm cl
Mud pit sample R_w	1.6 @ 70 degrees	4,750 ppm cl

Sample Recovery -	Top sample	R_w	.12 @ 64 degrees	70,000 ppm
	Middle sample	R_w	.18 @ 70 degrees	50,000 ppm
	Bottom sample	R_w	.20 @ 68 degrees	45,000 ppm

No cushion

Fluid recovery	700' muddy water
Water-cut mud (slightly gas cut)	100'
Gas-cut water	600'

Drillstem Test No. 1 - continued

Pressures:	IH	2063#	
	FH	2068#	
	IF-1	107#	(15 minutes)
	FF-1	179#	
	IF-2	158#	(90 minutes)
	FF-2	323#	
	ISIP	1905#	(60 minutes)
	FSIP	1818#	(200 minutes)
	BHT	133 degrees F.	

Mud weight 9.0#
Viscosity 36

Drillstem Tests - continued

Drillstem Test No. 2, 5850-5889' (39')

First Flow: Tool opened with a strong blow, increased to 15.0 psi at end of flow period. After shut-in, gas to surface in 6 minutes.

Second Flow: Tool opened with gas to surface. See gas volume chart below:

Time	PSIG	Orifice Size	MCF/D
1 minute	19	1/4"	45.5
5 minutes	21	1/4"	48.7
10 minutes	20	1/4"	47.1
15 minutes	18	1/4"	43.9
20 minutes	16	1/4"	40.9
25 minutes	14	1/4"	37.6
30 minutes	13	1/4"	35.9
35 minutes	12	1/4"	34.0
40 minutes	11	1/4"	32.4
45 minutes	10	1/4"	30.8
50 minutes	9	1/4"	29.0
55 minutes	8	1/4"	22.1
60 minutes	8	1/4"	22.1
70 minutes	8	1/4"	22.1
80 minutes	6	1/4"	22.9
90 minutes	6	1/4"	22.9

Sampler

Pressure in sampler	60 psig
Total volume of sampler	2100 cc
Total volume of sample	1200 cc
Oil	None
Water	None
Mud	1200 cc (heavy)
Gas	Trace

Sample R_w	2.3 @ 80 degrees F.	2200 ppm cl
Water R_w	10.0 @ 70 degrees F.	530 ppm cl
Mud Pit R_w	10.0 @ 70 degrees F.	530 ppm cl

Recovery in Pipe

Top sample	R_w:	10.0 @ 80 degrees F.	475 ppm cl
Middle sample	R_w:	2.3 @ 80 degrees F.	2200 ppm cl
Bottom sample	R_w:	10.0 @ 80 degrees F.	475 ppm cl

Drillstem Test No. 2 - continued

No cushion
Fluid Recovery: 180' mud = .079 barrels

Pressures:	IH	2790#	
	FH	2772#	
	IF-1	136#	(15 minutes)
	FF-1	132#	
	IF-2	88#	(90 minutes)
	FF-2	104#	
	ISIP	2252#	(60 minutes)
	FSIP	2524#	(210 minutes)
	BHT	152 degrees F.	

Mud weight 9.1#
Viscosity 33

Drillstem Tests - continued

Drillstem Test No. 3, 6082-6163' (81')

First Flow: Tool opened with strong blow to bottom of bucket and remained through flow period.

Second Flow: Tool opened with strong blow, gas to surface in 5 minutes. See gas volume chart below:

Time	PSIG	Orifice Size	MCF/D
5 minutes	1.0	1/4"	8.95
10 minutes	1.5	1/4"	11.02
15 minutes	1.5	1/4"	11.02
20 minutes	1.5	1/4"	11.02
25 minutes	1.0	1/4"	8.95
30 minutes	1.0	1/4"	8.95
35 minutes	1.0	1/4"	8.95
40 minutes	1.0	1/4"	8.95
45 minutes	1.0	1/4"	8.95
50 minutes	1.0	1/4"	8.95
55 minutes	1.0	1/4"	8.95
60 minutes	1.0	1/4"	8.95
65 minutes	1.0	1/4"	8.95
70 minutes	.75	1/4"	6.75
75 minutes	.75	1/4"	6.75
80 minutes	.75	1/4"	6.75
85 minutes	.75	1/4"	6.75
90 minutes	.75	1/4"	6.75

Sampler

Pressure in sampler	100 psig
Total valume in sampler	2150 cc
Total volume of sample	800 cc
Oil	None
Water	None
Mud	800' slightly gas-cut
Gas	.05 cubic feet

Sample R_w	2.0 @ 68 degrees F.	3,000 ppm cl
Water R_w	10.0 @ 50 degrees F.	725 ppm cl
Mud pit R_w	2.1 @ 60 degrees F.	3,200 ppm cl, 110 ppm nitrates

Recovery in Pipe

Top sample	R_w: 2.0 @ 68 degrees F.	3,000 ppm cl,	19 ppm nitrates
Middle sample	R_w: 2.0 @ 68 degrees F.	3,000 ppm cl,	38 ppm nitrates
Bottom sample	R_w: 2.0 @ 68 degrees F.	3,000 ppm cl,	23 ppm nitrates

Drillstem Test No. 3 - continued

No cushion
Fluid Recovery: 376' slightly gas-cut mud = 1.84 barrels

Pressures:	IH	2850#	
	FH	2837#	
	IF-1	119#	(15 minutes)
	FF-1	117#	
	IF-2	97#	(90 minutes)
	FF-2	146#	
	ISIP	522#	(60 minutes)
	FSIP	762#	(180 minutes)
	BHT	154 degrees F.	

Mud weight 9.0#
Viscosity 46

LITHOLOGIC DESCRIPTIONS

4370-4380' Sandstone 20%. Salt and pepper, light gray, light green, fair grained, occasionally medium grained, sub-angular, firm, with moderately well sorted, tight, slightly calcareous, slightly glauconitic.

Shale 80%. Medium to light gray, light green, lavendar, light brown, buff, firm to hard, blocky to flakey, occasionally splintery, slightly calcareous, glauconitic in part.

4380-4390' Sandstone 50%. Milky, salt and pepper, light gray, medium green, occasionally very fine grained, sub-angular to sub-rounded, firm, tight, calcareous.

Shale 50%.

4380-4400' Sandstone 70%. As above.

Shale 30%.

4400-4420' Sandstone 20%. As above.

Shale 80%. Light to medium gray, light green, lavendar, yellow-brown, light brown, firm, blocky to flakey.

4450-4460' Sandstone 20%. Salt and pepper, milky, light gray, medim grained, occasionally fine grained, sub-angular, predominantly well sorted, occasionally moderately sorted, slightly friable, slightly firm, predominantly tight, occasionally trace porosity, occasionally silty, occasionally glauconitic, very calcareous.

Shale 80%. Medium to light gray, light brown, light green, lavendar, yellow-brown, occasionally dark gray, firm to hard to brittle, blocky to flakey to splintery, slightly calcareous.

Limestone trace. White, micro-crystalline, firm, good porosity, earthy.

4460-4470' Sandstone 10%. As above.

Shale 90%. As above, occasionally maroon.

Limestone trace. White, micro-crystalline, firm, glossy, occasionally lavendar-gray, micro-crystalline, oolitic, hard, transparent.

4470-4490' Sandstone 30%. Light gray, salt and pepper, course to medium to very fine grained, sub-angular, firm to friable, well sorted, tight, occasionally silty, calcareous.

Shale 70%. As above.

Coal trace.

Lithologic Descriptions - continued

4490-4500'	Sandstone 20%. Milky, salt and pepper, medium grained, sub-angular, firm to friable, well sorted, tight, calcareous. Shale 80%. Predominantly medium to light gray, occasionally light brown, lavendar-brown, hard to brittle, blocky to flakey to splintery.
4500-4520'	Sandstone 60%. Clear, milky, salt and pepper, medium grained, occasionally very fine grained, well sorted, firm, tight, predominantly very clean, calcareous, very glauconitic. Shale 40%. As above.
4520-4550'	Sandstone 10%. As above. Shale 90%. Medium to light gray, maroon, lavendar, light green, light brown, yellow-brown, firm to brittle, blocky to splintery to platey, silty, slight to very calcareous.
4550-4640'	Shale 100%. Predominantly medium gray, occasionally light green, brick-red, lavendar-brown, yellow-brown, maroon, firm to brittle, blocky to flakey to splintery, slightly glauconitic. Sandstone trace. As above.
4640-4720'	Shale 100%. Brick-red, orange-brown, gray, light green, lavendar, yellow-brown, white, firm to brittle, blocky to flakey to splintery, occasionally glauconitic. Sandstone trace. As above.
4720-4730'	Sandstone 10%. Salt and pepper, occasionally light gray, fine grained, sub-angular, firm to friable, occasionally very hard, well sorted, tight, glauconitic, very calcareous. Shale 90%.
4730-4830'	Shale 100%. Gray, brick-red, occasionally yellow-brown, blocky to platey, to splintery, slightly calcareous, sandy in part, occasionally silty, occasionally slightly glauconitic.
4830-4850'	Sandstone 10%. Salt and pepper, light gray, fine grained, sub-rounded, hard, well sorted, tight, very calcareous, occasionally glauconitic. Shale 90%. As above.
4850-4870'	Shale 100%. Gray, light green, salmon red, occasionally lavendar, yellow-brown, flakey to blocky, occasionally splintery to fissile in part, silty in part. Limestone trace. White, micro-crystalline, firm, translucent.

Lithologic Descriptions - continued

4870-4880'	Sandstone 10%. Light gray, light green, milky, fine grained, sub-angular, firm, well sorted, tight, calcareous. Shale 90%. As above.
4880-4920'	Shale 100%. Sandstone trace. As above.
4920-4930'	Sandstone 30%. Clear, milky, salt and pepper, light gray, medium to fine grained, sub-angular, firm to friable, well sorted, some tight, some with poor porosity, calcareous. Shale 70%. Gray, brick-red, light green, lavendar, occasionally yellow-brown, hard to firm, blocky to flakey. Trace dolomite, white, light gray, micro-crystalline, firm to hard, dense, translucent to earthy.
4930-4940'	Sandstone 20%. As above. Shale 90%. As above. Limestone trace. White, micro-crystalline, firm, translucent.
4940-5000'	Shale 100%. Medium to dark gray, light green, brick-red, occasionally light brown, lavendar, firm to brittle, platey to blocky to splintery, silty in part, slightly glauconitic. Sandstone trace. Salt and pepper, light gray, fine grained, sub-angular, firm to friable, well sorted, tight, calcareous.
5000-5060'	Shale 100%. Gray, light green, lavendar, brick-red, occasionally yellow-brown, white, firm, blocky to flakey, calcareous in part, occasionally pyritic. Coal trace.
5060-5070'	Sandstone 20%. Salt and pepper, light gray, fine grained, sub-angular, hard to firm, well sorted, tight, calcareous. Shale 80%. As above.
5070-5080'	Shale 100%. As above.
5080-5100'	Sandstone 10%. Light gray, fine grained, sub-angular, firm to friable, well sorted, tight, calcareous. Shale 90%. Gray, light green, light brown, brick-red, lavendar, firm to brittle, blocky to silty to platey, slightly calcareous, silty in part.
5100-5130'	Shale 100%. As above.

Lithologic Descriptions - continued

5130-5140'	Sandstone 10%. Light gray, salt and pepper, beige, fine to medium grained, sub-angular, firm, well sorted, tight, calcareous. Shale 90%. As above. Dolomite trace, white, micro-crystalline, firm, dense, translucent.
5140-5150'	Shale 100%. As above.
5150-5170'	Sandstone 10%. Light gray, fine grained, sub-angular, firm, well sorted, tight, calcareous. Shale 90%. As above.
5170-5220'	Shale 100%. Medium to light gray, brick-red, salmon-red, light brown, blocky to splintery to flakey, firm, slightly calcareous. Sandstone trace. As above. Dolomite trace. As above.
5220-5260'	Sandstone 10%. Milky, white, fine grained, angular, firm, well sorted, tight, calcareous, occasionally pyritic. Shale 90%. Light to medium to dark gray, light green-gray, light brown, buff, occasionally lavendar, brick-red, very pyritic in part, very sandy in part, slight to very calcareous. Limestone white, micro-crystalline, brittle, translucent.
5260-5270'	Sandstone 20%. Clear, milky, light gray, salt and pepper, sub-angular, firm to friable, well sorted, poor to fair porosity, very calcareous. Shale 80%. Light to medium to dark gray, light to medium brown, brick-red, lavendar, yellow-brown, firm to hard to soft, occasionally brittle, blocky to flakey to platey to fissile to hackly. Coal trace.
5270-5280'	Sandstone 30%. White, milky, light gray, fine to very fine grained, occasionally medium grained, sub-angular, firm, well sorted, tight, very calcareous. Shale 70%. As above.
5280-5300'	Sandstone 20%. As above. Shale 80%. As above.
5300-5310'	Sandstone 30%. Clear, milky, salt and pepper, medium to fine grained, occasionally very fine grained, sub-rounded to rounded, well sorted, friable, fair porosity, calcareous.

Lithologic Descriptions - continued

Shale 70%. Predominantly medium gray, occasionally brick-red, light brown, yellow-brown, blocky to splintery to fissile to flakey, slightly calcareous.

5310-5330' Sandstone 40%. As above.

Shale 60%. As above.

5330-5340' Sandstone 10%. As above.

Shale 90%. As above.

5340-5360' Sandstone 30%. Clear, milky, fine to medium grained, occasionally coarse grained, sub-rounded, firm to friable, moderately well sorted, poor porosity, calcareous.

Shale 70%. As above.

5360-5380' Sandstone 10%. As above.

Shale 90%. Light to medium gray, light brown, brick-red, occasionally yellow-brown, dark gray, hard to firm, blocky to platey to flakey, fissile in part, slightly calcareous.

Coal trace.

5380-5390' Sandstone 30%. As above.

Shale 70%. As above.

5390-5400' Sandstone 10%. As above.

Shale 90%. As above.

5400-5410' Shale 10%. As above.

Coal 90%. Vitreous, brittle.

Sandstone trace.

5410-5420' Shale 90%. Light to medium gray, occasionally brick-red, yellow-brown, light brown, white, black, carbonaceous, firm to hard, blocky to flakey to splintery.

Coal 10%. Vitreous, brittle

Sandstone trace.

5420-5430' Sandstone 20%. Light gray, fine grained, sub-rounded, firm to hard, well sorted, tight, slightly calcareous.

Shale 70%. As above.

Coal 10%. Slightly fissile, slightly vitreous, brittle.

Lithologic Descriptions - continued

5430-5440'	Sandstone 10%. As above. Shale 90%. As above
5440-5450'	Sandstone 50%. Clear, milky, predominantly medium grained, occasionally fine to very fine grained, sub-angular, firm to hard, moderately well sorted, tight, calcareous. Shale 50%. As above.
5450-5460'	Sandstone 30%. As above. Shale 70%. Light to medium to dark gray, light to medium brown, brick-red, lavendar, yellow-brown, buff, white, firm to hard, blocky to flakey, occasionally fissile, slightly calcareous.
5460-5470'	Sandstone 20%. As above. Shale 80%. As above.
5470-5480'	Sandstone 10%. As above. Shale 90%. As above.
5480-5490'	Sandstone 30%. Clear, light to medium gray, medium to very fine grained, sub-rounded to rounded, firm to hard, moderately well sorted, tight, calcareous. Shale 70%. As above.
5490-5500'	Sandstone 20%. As above. Shale 80%. As above.
5500-5510'	No sample
5510-5560'	Sandstone 10%. Light gray, salt and pepper, white, fine grained, occasionally medium grained, sub-angular, firm, well sorted, tight, slightly calcareous. Shale 90%. Light to medium to dark gray, light green, buff, brick-red, brown, yellow-brown, blocky to flakey, occasionally hackly, occasionally black, fissile, carbonaceous. Coal trace.
5560-5570'	No sample.
5570-5580'	Shale 60%. Medium gray, light to medium brown, occasionally lavendar, light gray, firm to hard, blocky to flakey to platey, slightly calcareous, silty in part. Sandstone 10%. Salt and pepper, white, light gray, fine to medium grained, sub-angular to angular, firm to hard, well sorted, tight, calcareous.

Lithologic Descriptions - continued

	Coal 30%. Vitreous, brittle
5580-5600'	Sandstone 10%. As above.
	Shale 90%. As above.
5600-5640'	Sandstone 20%. Salt and pepper, light gray, tan, clear, medium to fine grained, sub-rounded to sub-angular, firm, well sorted, tight, calcareous.
	Shale 80%. Medium to light gray, brown, yellow-brown, occasionally black carbon, firm to hard, blocky to flakey, predominantly calcareous.
	Coal trace.
5640-5660'	Sandstone 20%. As above.
	Shale 60%. As above.
	Coal 20%. Slightly vitreous, slightly fissile, brittle.
5660-5710'	Sandstone 20%. Light gray, salt and pepper, clear, milky, fine to medium grained, sub-angular to sub-rounded, occasionally round, friable to firm, some moderately well sorted, some well sorted, tight, calcareous, occasionally glauconitic.
	Shale 80%. Medium to dark gray, brown, occasionally white, brick-red, black carbon, firm to hard, blocky to flakey, predominantly calcareous.
5710-5740'	Sandstone 30%. as above.
	Shale 70%. As above.
5740-5750'	Sandstone 20%. Salt and pepper, light gray, milky, fine grained, occasionally medium to very fine grained, sub-angular, firm, well sorted, tight, calcareous.
	Shale 80%. As above.
5750-5770'	Sandstone 30%. As above, occasionally blue-green, very fine grained, firm, well sorted, very glauconitic.
	Shale 70%. Predominantly medium gray, occasionally salmon-red, light brown, firm to hard, blocky to flakey.
5770-5790'	Sandstone 10%. As above.
	Shale 90%. As above.
	Pyrite trace.
5790-5800'	Sandstone 20%. As above.
	Shale 80%. As above.

Lithologic Descriptions - continued

5800-5810' Shale 100%. As above

Sandstone trace. As above.

5810-5830' Sandstone 10%. White, cream, fine grained, sub-angular to sub-rounded, firm, occasionally friable, well sorted, tight, calcareous.

Shale 90%. Predominantly medium to dark gray, black, carbonaceous, occasionally light brown, brick-red, firm, blocky to platey, occasionally hackly to fissile, slightly calcareous.

Coal trace, slightly vitreous, brittle, slightly fissile.

5830-5850' Shale 100%. As above.

Sandstone trace. As above.

5850-5860' Sandstone 10%. White, clear, light gray, fine to medium grained, sub-rounded, firm, well sorted, tight, calcareous.

Shale 90%. As above.

5860-5870' Sandstone 70%. Clear, medium to coarse grained, occasionally fine grained, sub-rounded to rounded, friable, well sorted, good porosity, slightly calcareous, unconsolidated.

Shale 30%. As above.

5870-5880' Sandstone 80%. As above.

Shale 20%. Predominantly medium gray, occasionally maroon, salmon-red, light brown, yellow-brown, firm, blocky, occasionally platey.

5880-5900' Sandstone 20%. Salt and pepper, light gray, medium to fine grained, sub-angular to angular, firm to hard.

Shale 80%. As above, well sorted, tight, predominantly calcareous.

5900-5910' Sandstone 10%. As above.

Shale 90%. Medium to dark gray, light green, salmon-red, occasionally yellow-brown, firm to hard, blocky to flakey to platey, slightly calcareous.

5910-5920' Sandstone 30%. White, clear, medium to fine grained, occasionally very fine to coarse grained, sub-rounded to sub-angular, occasionally round, firm to friable, well sorted, some tight, slight to poor porosity, predominantly calcareous.

Shale 70%. As above.

5920-5930' Sandstone 20%. As above

Shale 80%. As above.

Lithologic Descriptions - continued

5930-5940' Sandstone 40%. Predominantly salt and pepper, occasionally light gray, fine to medium grained, sub-angular to angular, firm to hard, well to moderately well sorted, tight, calcareous.

Shale 60%. Predominantly medium to dark gray, occasionally light brown, salmon-red, yellow-brown, firm to hard, blocky to flakey, slightly calcareous.

5940-5950' Sandstone 30%. As above.

Shale 70%. As above.

5950-5960' Sandstone 50%. As above.

Shale 50%. As above.

5960-5970' Sandstone 40%, As above.

Shale 60%. As above.

5970-5980' Sandstone 60%, predominantly white, occasionally salt and pepper, predominantly fine grained, occasionally medium grained, sub-angular, firm, predominantly well sorted, occasionally moderately to well sorted, tight.

Shale 40%. As above.

5980-6000' Sandstone 50%. As above.

Shale 50%. Predominantly dark to medium gray, occasionally salmon-red, light brown, firm to hard, blocky to platey, occasionally splintery, slightly calcareous.

6000-6010' Sandstone 60%. As above.

Shale 30%. As above.

Coal 10%.

6010-6020' Sandstone 70%. White, occasionally clear, fine to medium grained, sub-rounded to sub-angular, firm, occasionally friable, well sorted, slightly tight, some with poor porosity, calcareous.

Shale 30%. As above.

6020-6060' Sandstone 60%. As above.

Shale 40%. Medium to dark gray, black carbon, occasionally brick-red, lavendar, orange-brown, firm to hard, blocky, slightly calcerous.

6060-6090' Sandstone 50%. White, cream, occasionally salt and pepper, fine grained, occasionally medium grained, firm, well sorted, occasionally

Lithologic Descriptions - continued

moderately well sorted, tight, calcareous.

Shale 50%. As above.

6090-6120' Sandstone 70%. Cream, salt and pepper, medium to fine grained, round to sub-rounded, slightly sub-angular, firm, occasionally friable, well sorted, slightly tight, slight to poor porosity, calcareous.

Shale 30%. As above.

Coal trace.

6120-6140' Sandstone 60%. As above.

Shale 40%. Predominantly dark gray, black, carbonaceous, occasionally medium to dark brown, tight, green, brick-red, salmon-red, yellow-brown, firm to hard, blocky, slightly calcareous,

6140-6150' Sandstone 50%. As above.

Shale 50%. As above.

6150-6160' Sandstone 70%. Predominantly cream, occasionally salt and pepper, predominantly fine grained, occasionally medium grained, sub-rounded to sub-angular, well sorted, some with poor to fair porosity.

Shale 30%. Dark gray, occasionally salmon-red, lavendar, firm to hard, predominantly blocky, occasionally hackly, slightly calcareous.

QUANTITATIVE LOG INTERPRETATION

Point No	Depth Interval	Porosity Sonic	Porosity Density	Porosity Neutron	R_w	R_t	S_w	Max. Gas Units	Back-ground Gas Units	Remarks
1	4398-06'	16%	12%	14%	.1	14	60%	600	50	
2	4411-17'	14%	7%	14%	.1	13	63%	?	?	
3	4686-01'	22%	16%	21%	.1	10	53%	400	25	
4	5262-78'	20%	15%	17%	.1	12	54%	500	5	Gross plot indicate sandstone.
5	5305-36'	20%	17%	17%	.1	10	55%	600	30	Gross plot indicate sandstone.
6	5348-57'	17%	?	17%	.1	16	47%	280	50	Densilog washed out
7	5483-94'	15%	15%	15%	.1	26	41%	310	40	Rugose borehole.
8	5791-97'	17%	13%	17%	.1	18	50%	260	20	
9	5848-84'	17%	16%	15%	.1	27	38%	840	25	Cross plot indicate gas side of sand strong.
10	5907-19'	19%	15%	19%	.1	10	59%	360	80	
11	5964-66'	23%	24%	26%	.1	9	42%	115	70	Rugose borehole.
12	5977-86'	14%	8%	15%	.1	21	58%	170	95	
13	5996-14'	15%	13%	16%	.1	20	47%	380	100	
14	6082-96'	14%	10%	15%	.1	19	56%	420	210	
15	6102-04'	17%	13%	18%	.1	15	51%	620-?	210	
16	4920-28'	17%	13%	19%	.1	15	51%	340	5	

References:

T_m = 19,500 ft/s

T_f = 5,300 ft/s

D_g = 2.68 g/cc

D_f = 1.00 g/cc

WELL PROGRAM

WELL: PTS #14-10 Federal

LOCATION: 714' FSL, 786' FWL, SW SW, Section 10, T9S, R24E

DRILLING CONTRACTOR: To be selected.

ELEVATION: 5218' Ungraded Ground, 5232' KB estimated

FORMATION TOPS:

Formation	Depth	Datum
Green River		
Parachute Creek	1296'	+3922
H-Marker	2608'	+2610
Wasatch	3908'	+1310
Mesaverde	5168'	+ 50
Total Depth	6200'	

SAMPLE COLLECTION: Collect cutting samples at ten (10) foot intervals from under surface to total depth. Samples will be collected by drilling crews for the wellsite geologist. Two (2) sets of samples will be collected in the oil shale section of the Green River formation with one (1) set to be sent to the Bureau of Mines, Laramie Energy Research Center, Laramie, WY 82070. Frequency of sample collection may be changed at the wellsite geologist's discretion.

ELECTRICAL SURVEYS: The following logging program will be followed:

150' - 2500'	12-1/4" hole to 2500'. Dual Induction Laterolog, Borehole Compensated Sonic and Compensated Formation Density logs.
2800' - 6200'	7-7/8" hole below 9-5/8" casing. Dual Laterolog, Borehole Compensated Sonic and Compensated Formation Density logs.

MUD LOGGING AND DRILLING TIME: A portable mud logging unit will be operated by wellsite geologist from below surface casing to total depth. A geolograph will be in service from surface casing to total depth.

DRILLSTEM TESTING: All significant shows of oil and gas will be drillstem tested. Use floor manifold with positive choke assembly, hydraulic jars, safety joint, reverse circulating sub, sampler assembly and dual packers. Collect samples of all fluids recovered for further analysis.

CORING: No coring operations are anticipated.

DRILLING FLUID PROGRAM:

Interval (Feet)	Mud Weight (lbs/gal)	Viscosity (secs/qt)	Fluid Loss (cc's/30 min)
0 - 150'	----------AIR----------		

Set 13-3/8" casing at 150'.

150 - 2500'	8.4 - 8.8	27 -29	No Control

Drill out below surface casing with water. Use gel and lime in the event additional viscosity is required for hole cleaning. If swelling shales are encountered, the drilling fluid salinity should be increased to about 40,000 ppm Na Cl. The salty water will improve hole stability by minimizing the swelling shale tendencies and will allow cuttings to settle out rapidly. Utilize available solids control equipment and circulate the reserve pit if possible. Occasional sweeps of pre-hydrated bentonite may be necessary to insure adequate hole cleaning while drilling 12-1/4" hole. Lost circulation may occur while drilling this interval and the use of conventional lost circulation materials should control minor losses in this section of the hole. If severe losses are encountered, they should be combatted, if possible, with pill treatments rather than by maintaining lost circulation materials in the system continuously. Lost circulation which cannot readily be controlled by conventional means may justify using cement plugs.

Set 9-5/8" intermediate casing at 2500'.

2500 - 5000'	8.6 - 9.0	27 - 34	No Control

Drill out below intermediate casing with 40,000 ppm salt water. Maintain minimum viscosities and solids by dumping and cleaning mud tanks frequently and utilizing available solids control equipment to prevent recirculating drilled solids. The use of a flocculant will improve the settling of drilled solids. Occasional sweeps of pre-hydrated bentonite, salt gel or asbestos fiber should be used as necessary to clean hole if tight connections are experienced or excessive fill is encountered.

5000 - TD	8.9 - 9.6	32 - 36	12 cc's or less

As it becomes necessary, or at approximately 5000' mud up by using additions of salt gel, caustic soda, starch and a preservative. Additions of lignosulfonate should be used to obtain needed mud flow properties. Drilling fluid salinity can be adjusted as necessary to increase mud weight without adding additional solids to the system. Seepage and slight lost circulation may occur as the mud weight is increased. Tourly treatments with conventional lost circulation materials may be required to minimize downhole mud losses. Fine mica is recommended for use to correct minor losses.) Well site interpretation of hole conditions will aid in determining the fluid properties necessary to ensure satisfactory operations.

Set 4-1/2" production casing at TD.

CASING PROGRAM:

Size, Wt. & Grade	Setting Depth	Hole Size	Cement Requirements
13-3/8", 48.0#, H40 New	150'	17-1/2"	Approximately 200 sacks Class G w/3% Calcium Chloride.
9-5/8", 36.0#, K55 New	2500'	12-1/4"	Approximately 275 sacks to be verified after caliper log is run.
4-1/2", 11.6#, N80 New	6200'	7-7/8"	Amount will be determined after logs are run. Use regulated fillup and Class G type cements.

PRESSURE CONTROL EQUIPMENT AND SPECIFICATIONS:

Adequate BOP equipment will be maintained as indicated in the attached Pressure Control Specifications. In addition, the BOP equipment will be well-braced with hand controls extending clear of the drilling rig substructure. The accumulator equipment will provide closing pressure in excess of that required with sufficient volume to operate all components. All BOP equipment, auxiliary equipment, standpipe, valves, and rotary hose will be tested as per test schedule or to the rated pressure of the equipment at the time of installation. Modification of the pressure control equipment or testing procedure will be approved in writing on tour sheets by the wellsite representative.

DRILLING PROCEDURE

PTS #14-10

1) Move in air precussion rig and drill 17-1/2" hole to 150'. Set and cement 13-3/8", 48.0#, H-40 casing to surface with approximately 200 sacks cement.

2) Move in rotary drilling rig and equipment. Cut off 13-3/8" casing and install 3000# casing flange. Install BOP equipment per BOP and Pressure Containment Data. Pressure test BOP's, manifold and all valves to 2500# and annular preventer to 2000# prior to drilling casing shoe. Drill 12-1/4" hole to 2500' (±). Conduct electric logging and prepare hole for intermediate casing.

3) Set and cement 9-5/8", 36.0#, K-55 intermediate casing sufficiently to protect any water, oil, gas or other mineral-bearing formations. WOC.

4) Land casing and install intermediate spool. Install BOP equipment and retest prior to drilling casing shoe.

5) Drill 7-7/8" hole to total depth. Perform drill-stem testing as warranted. Conduct electric logging and prepare hole for production casing.

6) Run 4-1/2", 11.6#, N-80 production casing and cement as necessary across potential zones. The length of the cement column will be determined after the logs have been evaluated.

7) Release rotary drilling rig and determine completion procedure.

Special Instructions:

1) Run deviation surveys at regular intervals and in conjunction with bit trips.

2) Utilize a degasser and necessary solids control equipment.

3) Avoid surging hole on trips and fill hole properly when pulling pipe.

4) All crew members should be familiar with BOP operations. Functional test pipe rams daily and close blind rams each trip out of the hole.

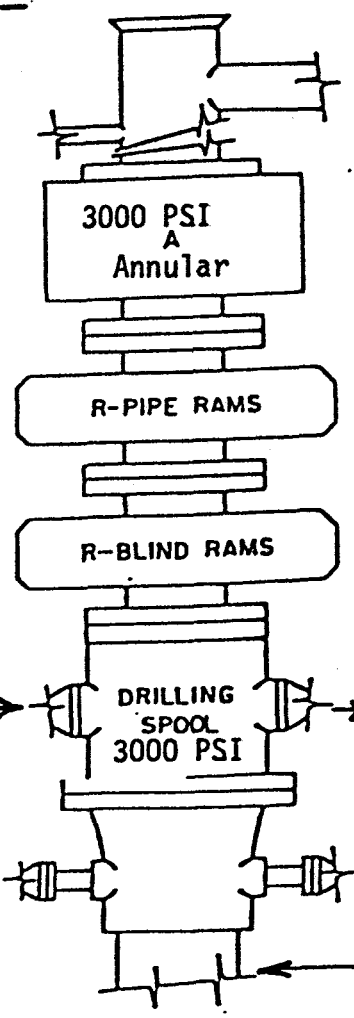
5) Drilling crews should observe to detect either decrease or increase in fluid level.

6) A regular daily mud check should be made by mud engineer.

7) Drill stem testing will be determined by the well site geologist.

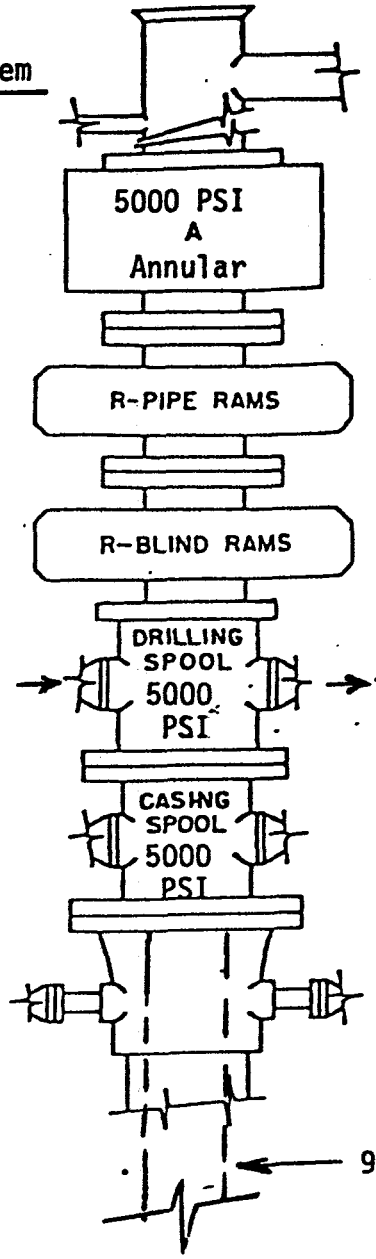
PRESSURE CONTROL SPECIFICATIONS

12" BOP System

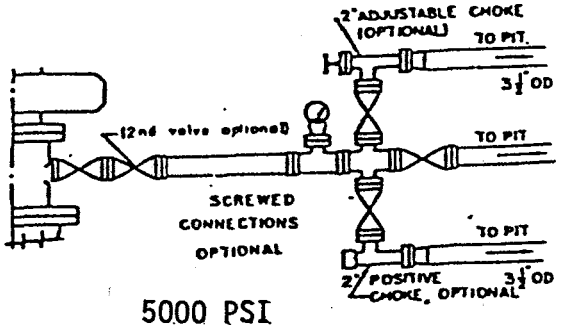


Hydraulic
3000 PSI
Double Gate
BOP

10" BOP System



Hydraulic
5000 PSI
Double Gate
BOP



5000 PSI

CHOKE-MANIFOLD DESIGN

TEST SCHEDULE

12" BOP System & 13-3/8" Casing to 2500 PSI.

10" BOP System & Choke Manifold to 5000 PSI.

9-5/8" Casing to 3500 PSI.

Auxiliary Equipment

Lower kelly cock, full opening stabbing valve, and mud monitoring system including pit level indicators and/or flow sensor with alarms.

Personnel & Mailing Information:

Dee E. Beardsley, Manager of Operations
Pacific Transmission Supply Company
P.O. Box 3093
Casper, Wyoming 82602
Telephone: Office (307) 265-1027
Home (307) 234-7666

E. E. Mulholland, Operations Engineer
Pacific Transmission Supply Company
P.O. Box 3093
Casper, Wyoming 82602
Telephone: Office (307) 265-1027
Home (307) 265-4191

R. J. Firth
Pacific Transmission Supply Company
85 South 200 East
Vernal, Utah 84078
Telephone: Office (801) 789-4573
Home (801) 789-5575

Notification of Shows, DST's and Unusual Problems:

	Office:	Home:
Dee E. Beardsley	307-265-1027	307-234-7666
J. L. Wroble	303-571-1662	303-770-2667
E. E. Mulholland	307-265-1027	307-265-4191
R. J. Firth	801-789-4573	801-789-5575

Distribution of Information:

Pacific Transmission Supply Company
P.O. Box 3093
Casper, Wyoming 82602
Attn: Mr. D. E. Beardsley

Pacific Transmission Supply Company
717 Seventeenth Street, Suite 2300
Denver, Colorado 80202
Attn: Mr. J. L. Wroble

State of Utah
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116
Attn: Chief Petroleum Engineer

Pacific Transmission Supply Company
85 South 200 East
Vernal, Utah 84078
Attn: Mr. R. J. Firth

United States Geological Survey
Conservation Division
Branch of Oil and Gas
8440 Federal Bldg.
125 South State Street
Salt Lake City, Utah 84138
Attn: Mr. E. W. Guynn

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Pacific Transmission Supply Company (Ron Firth 789-4573)

WELL NAME: Federal #14-10

SECTION 10 SW SW TOWNSHIP 9S RANGE 24E COUNTY Uintah

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 6163'

CASING PROGRAM:

13 3/8" @ 138' circ to surface
9 5/8" @ 2716' circ to surface
4 ½" @ 6163' TOC 4100'

FORMATION TOPS:

Evacuation Creek	800'
Parachute Creek	1400'
H marker	2535'
Wasatch	4016'
Mesaverde	5357'

Mesaverde perfs:
5996'-6010'
5852'-5882'

Wasatch perfs:
5264'-5274'
5312'-5334'

PLUGS SET AS FOLLOWS:

1) In Place: CIBP @ 5970' with 1 sx cement; place at least 4-9 sx on top of CIBP

2) Set retainer @ 5700'; squeeze perfs. 5852'-5882' with 35 sx and lay 50'-100' cement on top of retainer

3) Set retainer @ 5150'; squeeze perfs 5264'-5334' with 35 sx and lay 50'-100' cement on top of retainer

4) Shoot off 4½" casing @ 4100'±; set 100' plug ½ in & ½ out of stub

5) Place 200' plug 50' in & 50' out of 9 5/8" casing shoe

6) 50' to surface - plug

Place 9# gel base abandonment mud between plugs; clean & grade site; dryhole marker.

DATE June 16, 1980 SIGNED W. J. Minder

cc: USGS

Phone
713-790-9132

LYNES, INC

Box 12486
Houston, TX 77017

Operator Pacific Transmission Supply Co. Address See Distribution

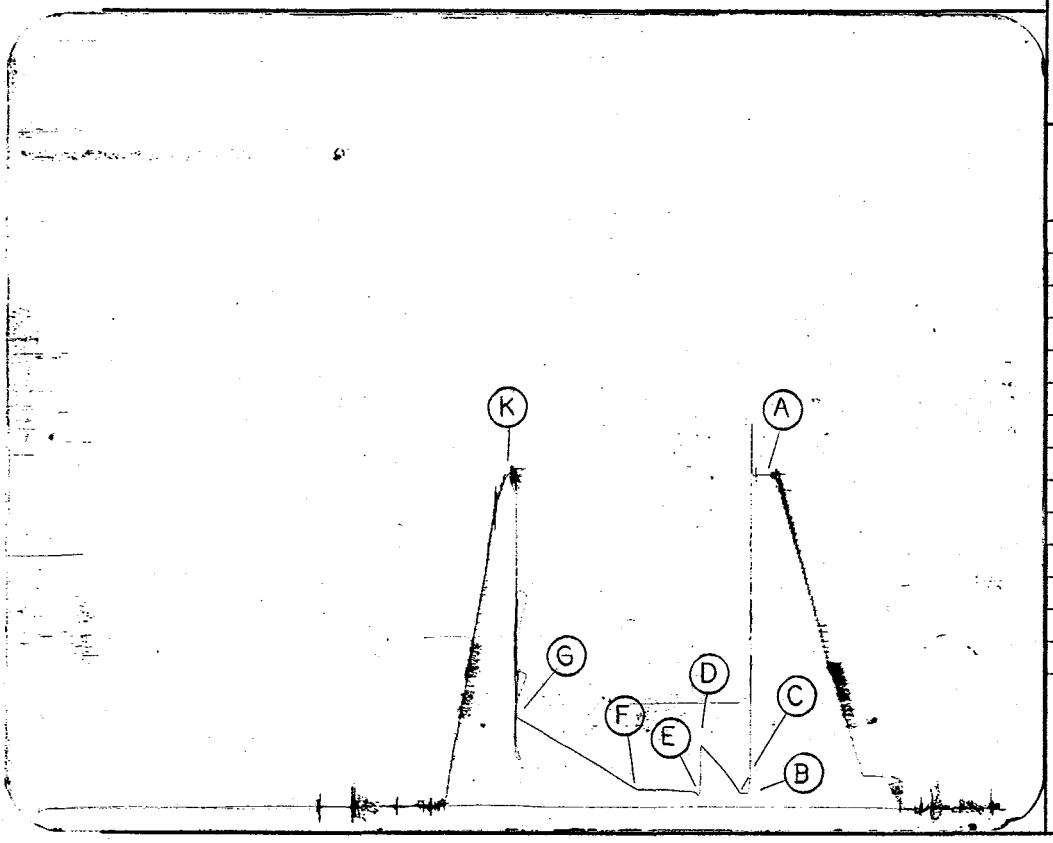
Well Name and No. Devil's Playground-Federal #14-10 Ticket No. 20734

DST No. 3 Date 3-28-80 No. Final Copies 8

Contractor	Olsen Drilling Co.	Top Choke	1/4"
Rig No.	2	Bottom Choke	9/16"
Spot	SW-SW	Size Hole	7 7/8"
Sec.	10	Size Rat Hole	--
Twp.	9 S	Size & Wt. D. P.	4 1/2" 16.60
Rng.	24 E	Size Wt. Pipe	--
Field	Devil's Playground	I. D. of D. C.	2 1/4"
County	Uintah	Length of D. C.	560'
State	Utah	Total Depth	6163'
Elevation	5232' K.B.	Interval Tested	6082-6163'
Formation	Mesaverde	Type of Test	Bottom Hole Conventional

Flow No. 1	15	Min.
Shut-in No. 1	60	Min.
Flow No. 2	90	Min.
Shut-in No. 2	180	Min.
Flow No. 3	--	Min.
Shut-in No. 3	--	Min.
Bottom Hole Temp.	154°F	
Mud Weight	9.0	
Gravity	--	
Viscosity	46	

Tool opened @ 7:05AM



Inside Recorder

PRD Make Kuster AK-1
No. 10237 Cap. 6650 @ 6064'

Press		Corrected
Initial Hydrostatic	A	2850
Final Hydrostatic	K	2837
Initial Flow	B	119
Final Initial Flow	C	117
Initial Shut-in	D	522
Second Initial Flow	E	97
Second Final Flow	F	146
Second Shut-in	G	762
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, Wy.
Our Tester: Stormy Hayes
Witnessed By: Joe Monce

Did Well Flow – Gas yes Oil no Water no

RECOVERY IN PIPE: 376' Slightly gas cut mud = 1.84 bbl.

Top Sample R.W.: 2.0 @ 68°F = 3000 ppm. cl.
Middle Sample R.W.: 2.0 @ 68°F = 3000 ppm. cl.
Bottom Sample R.W.: 2.0 @ 68°F = 3000 ppm. cl.

Blow Description:

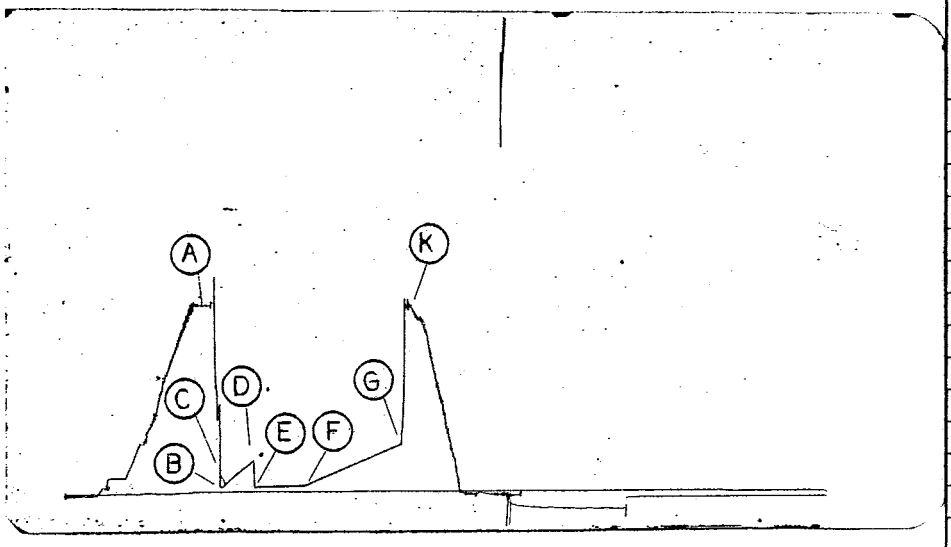
1st Flow: Tool opened with strong blow to bottom of bucket and remained thru flow period.

2nd Flow: Tool opened with strong blow to bottom of bucket, gas to surface in 5 minutes. See Gas Volume Report.

Form 1
cd

LYNES, INC.

Pacific Transmission Supply Co.	Devil's Playground-Federal #14-10	3
Operator	Well Name and No.	DST No.

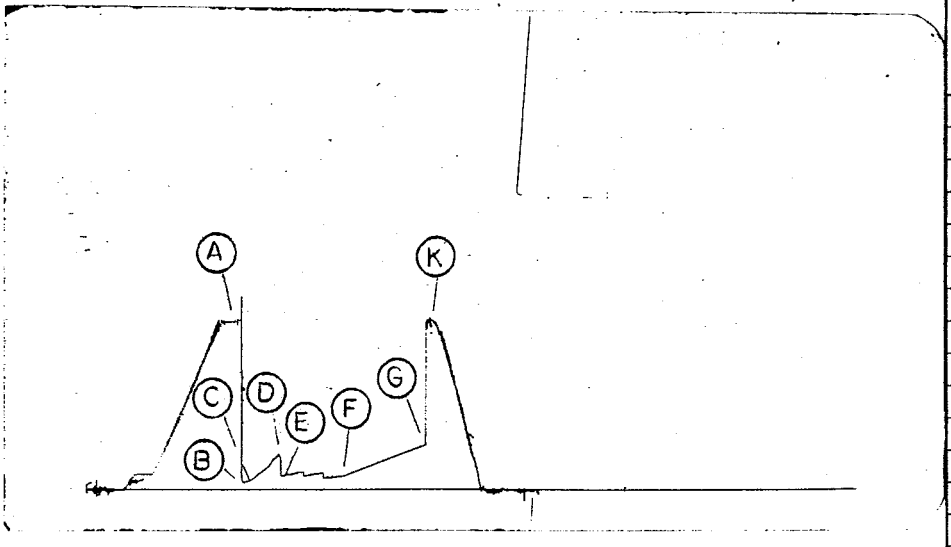


Outside Recorder

PRD Make Kuster K-3

No. 16839 Cap. 6975 @ 6087'

Press		Corrected
Initial Hydrostatic	A	2861
Final Hydrostatic	K	2847
Initial Flow	B	130
Final Initial Flow	C	129
Initial Shut-in	D	530
Second Initial Flow	E	126
Second Final Flow	F	157
Second Shut-in	G	771
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--
Pressure Below Bottom Packer Bled To		



Outside Recorder

PRD Make Kuster K-3

No. 19011 Cap. 7750 @ 6105'

Press		Corrected
Initial Hydrostatic	A	2868
Final Hydrostatic	K	2855
Initial Flow	B	140
Final Initial Flow	C	138
Initial Shut-in	D	539
Second Initial Flow	E	235
Second Final Flow	F	238
Second Shut-in	G	780
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--
Pressure Below Bottom Packer Bled To		

Form 3

WELL NAME: DEVIL'S PLAYGROUND-FEDERAL 14-10

DST NUMBER: 003

RECORDER NUMBER: 010237

INTERVAL TESTED: 6082FT TO 6163FT

RECORDER DEPTH: 6064.000FT

TOTAL FLOW TIME: 15.0MIN

FIRST SHUT IN PRESSURE (GAS)

TIME (MIN) PHI	(T+PHI) /PHI	PRESSURE (PSI)	PRESSURE (PSI^2)/10^6
.0	.0000	117.0	.01369
1.0	16.0000	119.0	.01416
2.0	8.5000	122.0	.01488
3.0	6.0000	128.0	.01638
4.0	4.7500	136.0	.01850
5.0	4.0000	148.0	.02190
6.0	3.5000	154.0	.02372
7.0	3.1429	161.0	.02592
8.0	2.8750	171.0	.02924
9.0	2.6667	181.0	.03276
10.0	2.5000	188.0	.03534
12.0	2.2500	205.0	.04202
14.0	2.0714	220.0	.04840
16.0	1.9375	235.0	.05522
18.0	1.8333	250.0	.06250
20.0	1.7500	265.0	.07022
22.0	1.6818	280.0	.07840
24.0	1.6250	293.0	.08585
26.0	1.5769	309.0	.09548
28.0	1.5357	322.0	.10368
30.0	1.5000	336.0	.11290
35.0	1.4286	367.0	.13469
40.0	1.3750	397.0	.15761
45.0	1.3333	428.0	.18318
50.0	1.3000	460.0	.21160
55.0	1.2727	490.0	.24010
60.0	1.2500	522.0	.27248

Both shut-in pressure build-up curves have insufficient character to permit the use of a Horner plot to determine reliable extrapolated shut-in pressures.

WELL NAME: DEVIL'S PLAYGROUND-FEDERAL 14-10

DST NUMBER: 003

RECORDER NUMBER: 010237

INTERVAL TESTED: 6082FT TO 6163FT

RECORDER DEPTH: 6064.000FT

TOTAL FLOW TIME: 105.0MIN

SECOND SHUT IN PRESSURE (GAS)

TIME (MIN) PHI	(T+PHI) /PHI	PRESSURE (PSI)	PRESSURE (PSI^2)/10^6
.0	.0000	146.0	.02132
1.0	106.0000	148.0	.02190
2.0	53.5000	149.0	.02220
3.0	36.0000	152.0	.02310
4.0	27.2500	156.0	.02434
5.0	22.0000	159.0	.02528
6.0	18.5000	162.0	.02624
7.0	16.0000	166.0	.02756
8.0	14.1250	169.0	.02856
9.0	12.6667	174.0	.03028
10.0	11.5000	178.0	.03168
12.0	9.7500	184.0	.03386
14.0	8.5000	189.0	.03572
16.0	7.5625	196.0	.03842
18.0	6.8333	203.0	.04121
20.0	6.2500	211.0	.04452
22.0	5.7727	218.0	.04752
24.0	5.3750	226.0	.05108
26.0	5.0385	233.0	.05429
28.0	4.7500	240.0	.05760
30.0	4.5000	248.0	.06150
40.0	3.6250	285.0	.08122
50.0	3.1000	322.0	.10368
60.0	2.7500	357.0	.12745
70.0	2.5000	389.0	.15132
80.0	2.3125	423.0	.17893
90.0	2.1667	456.0	.20794
100.0	2.0500	491.0	.24108
110.0	1.9545	521.0	.27144
120.0	1.8750	552.0	.30470
130.0	1.8077	587.0	.34457
140.0	1.7500	628.0	.39438
150.0	1.7000	664.0	.44090
160.0	1.6563	696.0	.48442
170.0	1.6176	728.0	.52998
180.0	1.5833	762.0	.58064

HORNER PLOT

TEST DATE: 03 28 80

WELL NAME: DEVIL'S PLAYGROUND-FEDERAL 14-10

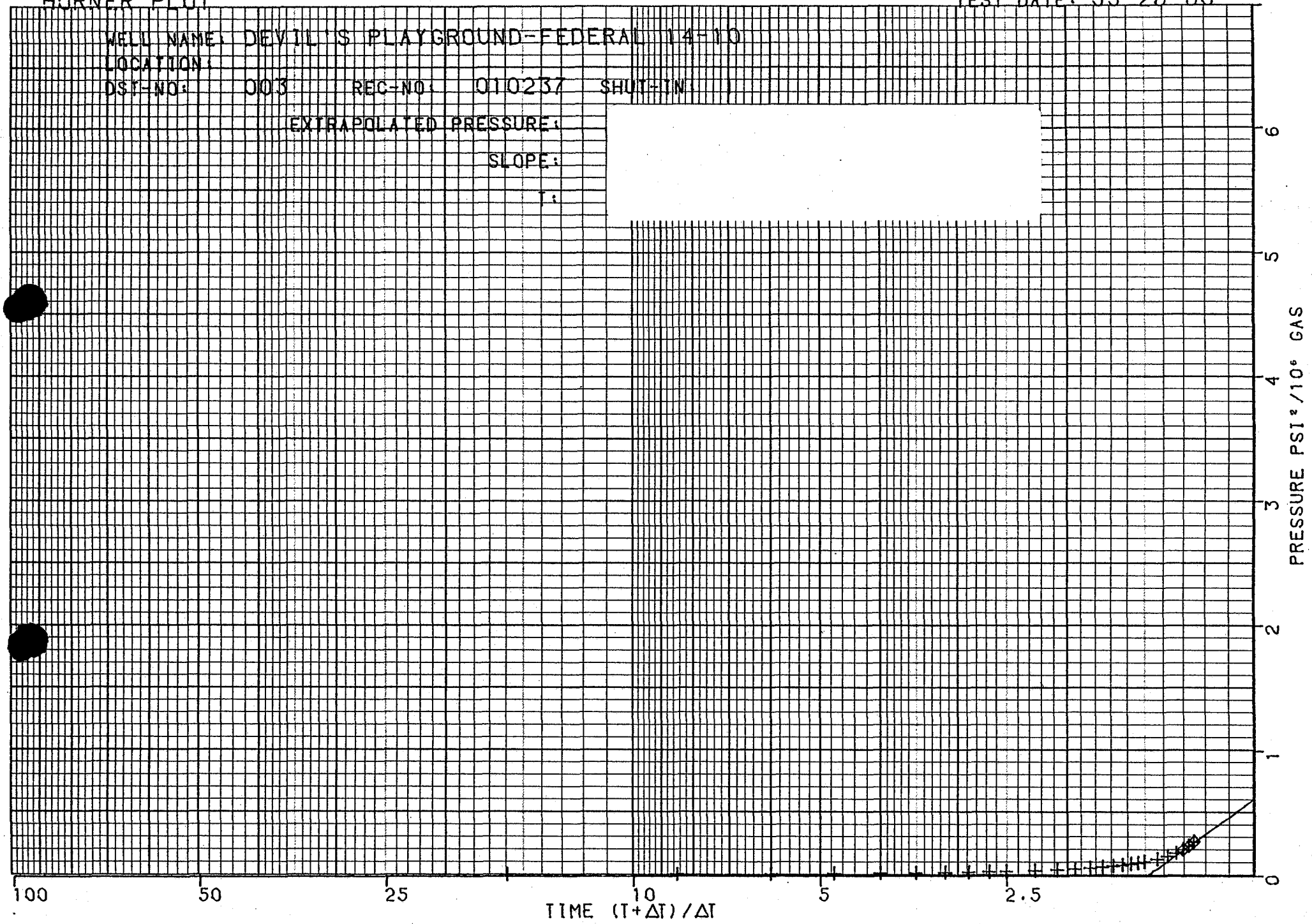
LOCATION:

DST-NO: 003 REC-NO: 010237 SHUT-IN: 1

EXTRAPOLATED PRESSURE:

SLOPE:

T:



HORNER PLOT

TEST DATE: 03 28 80

WELL NAME: DEVIL'S PLAYGROUND-FEDERAL 14-10

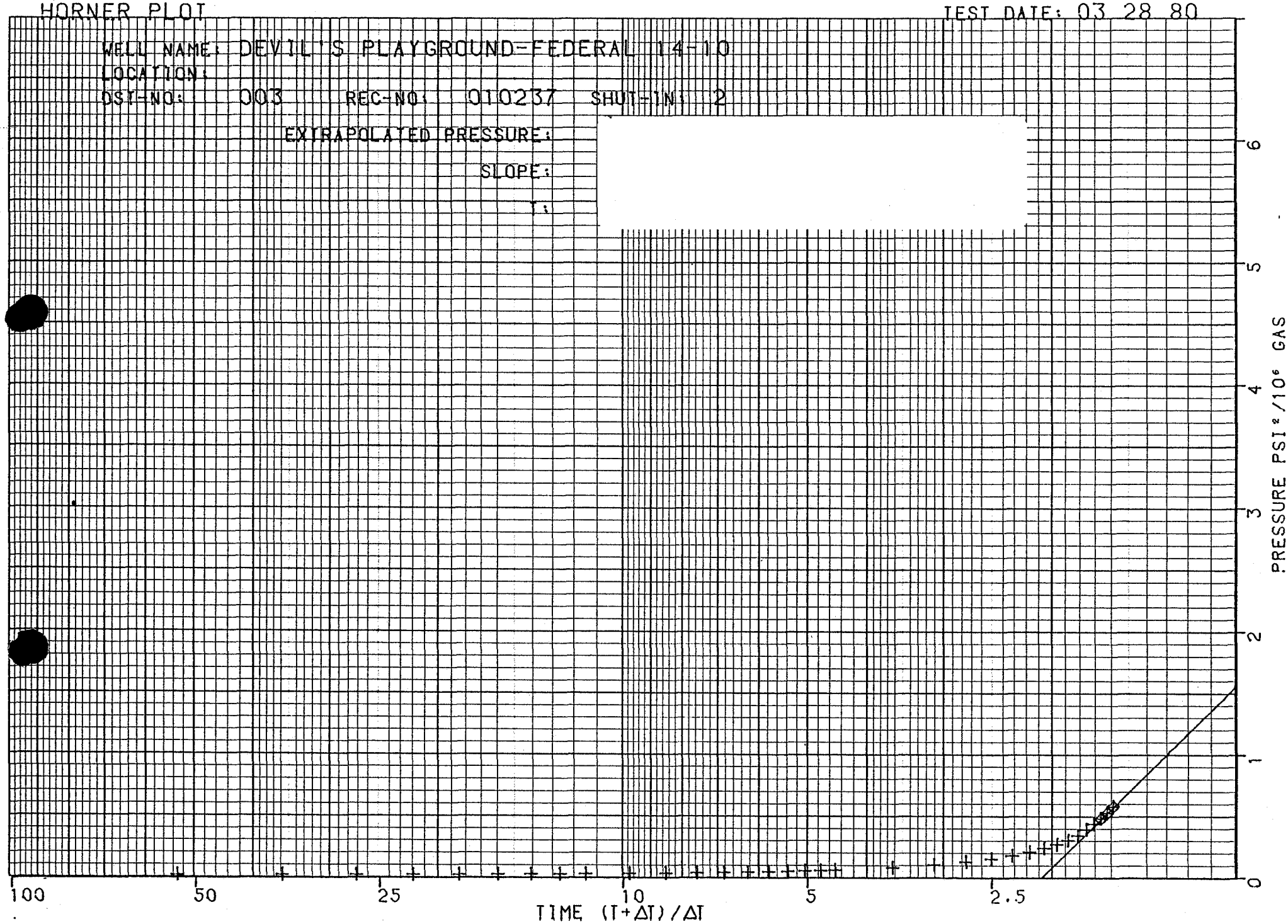
LOCATION:

DST-NO: 003 REC-NO: 010237 SHUT-IN: 2

EXTRAPOLATED PRESSURE:

SLOPE:

T:



LYNES, INC.

Gas Volume Report

Operator Pacific Transmission Supply Company Lease & No. Devil's Playground Federal #14-10 DST No. 3

Final Flow:

Min.	PSIG	Orifice Size	MCF/D	Min.	PSIG	Orifice Size	MCF/D
5	1.0	1/4"	8.95				
10	1.5	"	11.02				
15	1.5	"	11.02				
20	1.5	"	11.02				
25	1.0	"	8.95				
30	1.0	"	8.95				
35	1.0	"	8.95				
40	1.0	"	8.95				
45	1.0	"	8.95				
50	1.0	"	8.95				
55	1.0	"	8.95				
60	1.0	"	8.95				
65	1.0	"	8.95				
70	.75	"	6.75				
75	.75	"	6.75				
80	.75	"	6.75				
85	.75	"	6.75				
90	.75	"	6.75				

Remarks:

Form 4

LYNES, INC.

Sampler Report

Company: Pacific Transmission Supply Co. Date: 3-28-80

Well Name & No.: Devil's Playground-Federal #14-10 Ticket No.: 20734

County: Uintah State: Utah

Test Interval: 6082-6163' DST No.: 3

Total Volume of Sampler: 2150 cc.

Total Volume of Sample: 800 cc.

Pressure in Sampler: 100 psig

Oil: None cc.

Water: None cc.

Mud: 800 slightly gas cut cc.

Gas: .05 cu. ft.

Other: None

Sample R.W.: 2.0 @ 68°F = 3000 ppm. cl.

Resistivity

Make Up Water R.W.: 10.0 @ 50°F of Chloride Content 725 ppm.

Mud Pit Sample R.W.: 2.1 @ 60°F of Chloride Content 3200 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On location.

Remarks:

Form 5

LYNES, INC.

Distribution of Final Reports

Operator Pacific Transmission Supply Co. Well Name and No. Devils Playground Federal #14-10

Original: Pacific Transmission Supply co., 717-17th St., Suite 2300 Denver, Co. 80202
Attn: Mr. J.L. Wroble

1 copy: Pacific Transmission Supply Co., P.O. Box 3093, Casper, Wyoming 82602
Attn: D.L. Beardsley

1 copy: Pacific Transmission Supply Co., 245 Market St., Room 1326, San Francisco, California 94105 Attn: E.R. Henry

1 copy: Pacific Transmission Supply Co., 858 South 200 East, Vernal, Utah 84078

1 copy: U.S.G.S. Conservation Division, Federal Bldg., 8440 Branch of Oil & Gas
125 S. State, Salt Lake City, Utah 84978

1 copy: Division of Oil & Gas & Mining, 1588 W. N. Temple, Salt Lake City, Utah 84116
Attn: Mr. Phil Driscoll

1 copy: Ensearch Exploration, Inc., Metro Bank Bldg., Suite 1322, 475 - 17th St., Denver, Co. 80202 Attn: R.W. Sharp

1 copy: J. Milton Wege, Ralph L. Davis & Associates, 500 Jefferson, Suite 2031, Houston, Texas 77002

Form 6

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-~~0149327~~ 59149

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Water Injection SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Dirty Devil

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: EPS Resources Corporation

9. WELL NO.: 14-10

3. ADDRESS OF OPERATOR: 5655 S.Yosemite, Suite 460, Englewood, Colorado 80111

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 786' FWL 712' FSL
SW/4SW/4 Section 10 T9S R24E SLBM
At proposed prod. zone Same

RECEIVED MAY 10 1990 DIVISION OF OIL, GAS & MINING

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 10, T9S, R24E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 5 miles north of Bonanza, Utah

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 712' FSL 786' FWL

16. NO. OF ACRES IN LEASE:

17. NO. OF ACRES ASSIGNED TO THIS WELL: 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 2530'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5232' KB

22. APPROX. DATE WORK WILL START*: Upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48	138'	175 sks
12-1/4"	9-5/8"	36	2716'	800 sks

Operator plans to re-enter the 14-10 well with a completion rig and drill out surface cement (approx. 25 sks), pressure test casing to 2000 psi and perforate the Green River intervals 2390' - 2530' with 2 shots per foot. The intervals will be acid fractured with 5000 gals, 15% HCl. The well be converted to a water disposal well for the Dirty Devil Unit operations.

DEC 1989

DEPT. OF THE INTERIOR RECEIVED DEC 4 1989 BUR OF LAND MANAGEMENT VERNAL UTAH

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Edward Neibauer TITLE President DATE 11/22/89

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE 5-8-90

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ST. DOGM

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company EPS Resources Corporation Well No. 14-10

Location SW/SW Sec. 10 T9S R24E Lease No. U-59149

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Approval of this APD is contingent upon EPS Resources Corporation acquiring an Underground Injection Control (UIC) permit from the appropriate Government agency.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. and individual components shall be operable as designed.

The Vernal District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

2. Notifications of Operations

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or

failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Orders, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

3. Other Information

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hour approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka (801) 781-1190
Petroleum Engineer

Ed Forsman (801) 789-7077
Petroleum Engineer

FAX Phone Number is: 789-3634

Revised October 1, 1985

Date NOS Received 10/12/89

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator EPS Resources Corp.

Well Name & Number 14-10

Lease Number U-59149

Location SW 1/4 SW 1/4 Sec. 10 T. 9 S. R. 24 E.

Surface Ownership Federal

B. THIRTEEN POINT SURFACE USE PROGRAM:

1. Location of Existing and/or Proposed Facilities

Any storage facility/battery constructed on this lease must be surrounded by a containment structure. The containment structure must have sufficient volume to contain, at a minimum, the entire content of the largest tank within the storage facility/battery.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

The required paint color is Desert Brown.

2. Methods for Handling Waste Disposal

An inspection of the reserve pit will be made prior to filling it with fluids to determine if a lining will be necessary.

3. Well Site Layout

All pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire in accordance with the Vernal District's fencing policy.

4. Plans for Restoration of Surface

A. Provide a restoration program upon completion of operations, including:

(1) Backfilling, leveling, recontouring, and waste disposal; segregation of topsoil from cut materials as needed

(2) Revegetation and rehabilitation--including abandoned access roads or portions of well pads no longer needed (normally per BLM recommendations)

(3) Proposed timetable for commencement and completion of rehabilitation operations

B. The following are provisions to be addressed in the restoration plan:

Immediately upon well completion, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be

removed. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed. The reserve pit will be reclaimed within 90 days from the date of well completion.

All disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BLM / BIA / FS / Private Surface Owner. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage and the seed mixture will be proportionately larger (double the lbs. per acre).

An appropriate seed mixture will be determined by the BLM / BIA / FS / Private Surface Owner, either as part of the Conditions of Approval of the APD or at the time restoration activities are scheduled to begin.

All seeding will be done from September 31 until the ground freezes.

At such time as the well is plugged and abandoned, the operator will submit a surface reclamation plan to the Surface Management Agency for prescribed seed mixtures and reseeding requirements.

If the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

The BLM recommends the following procedure for reclamation:

Compacted areas of the well pad should be plowed or ripped to a depth of 12" before reseeding. Seeding should be done with a disc-type drill to ten inches apart. The seed should be planted between one-half inch deep and three-quarter inch deep. A drag, packer or roller may be used to insure uniform coverage of the seed, and adequate compaction. Drilling of the seed should be done on the contour where possible. Where slopes are too steep for contour drilling, a "cyclone" hand-seeder or similar broadcast seeder should be used, using twice the recommended seed per acre. Seed should then be covered to a depth described above by whatever means is practical.

5. Surface Ownership: BLM

6. Other Additional Information

If, during operations, any archaeological or historical sites, or any object of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites are to be suspended and the discovery reported promptly to the Surface Management Agency.

The operator will control noxious weeds along rights-of-way for roads pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM.

It is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

Additional Surface Stipulations for BLM Lands:

The operator or his contractor shall contact the BLM (801) 789-1362 between 24 and 48 hours prior to construction activities. Contact Byron Tolman.

The BLM and BIA Offices shall be notified upon site completion prior to moving on the drilling rig.

No construction or drilling activities shall be conducted between May 15 and June 20 because the area is used for antelope kidding.

Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities. (The BLM does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs.)

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

May 22, 1990

EPS Resources Corporation
5655 South Yosemite, Suite 460
Englewood, Colorado 80111

Gentlemen:

Re: Federal 14-10 - SW SW Sec. 10, T. 9S, R. 24E - Uintah County, Utah
712 FSL, 786 FWL

Approval to drill/re-enter the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule R615-2-3, Oil and Gas Conservation General Rules, subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Notification within 24 hours after drilling/re-entry operations commence.

2. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.

3. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-30566.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
WE14/6-7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

MAY 22 1990

RECEIVED
MAY 24 1990
DIVISION OF
OIL, GAS & MINING

Ref: 8WM-DW

Mr. Edward Neibauer, President
EPS Resources Corporation
5655 South Yosemite, Suite 460
Englewood, Colorado 80111

RE: Application Completeness,
UIC Permit No. UTS2519-2118,
Dirty Devil Unit # 14-10 SWD,
Uintah County, Utah

Dear Mr. Neibauer:

Your May 1, 1990 deficiency information letter for the above-cited Underground Injection Control (UIC) Permit has been received and reviewed.

Please be advised that your UIC Permit Application has been determined to be complete in accordance with 40 CFR 124.3, 144.31, and 146.24. You should be aware that I may ask for additional information as I work on your Draft Permit. If so, I will ask that you forward it directly to my attention.

Assuming that everything is satisfactory, you can expect your Draft Permit to be issued in about 30 days. A Public Notice will advise the general public of their opportunity to comment within thirty (30) days of the publication date. **This will also be your opportunity to comment on the proposed Draft Permit.**

The Final Permit can then be issued if there are no public comments. If comments are received, they must be addressed and changes made to the Draft Permit, if appropriate. Additional time may be required if changes to the Draft Permit are significant or if any of the commenters desire a hearing.

Please address any further questions you have to my **attention at Mail Code 8WM-DW** or you may **telephone me at (303) 293-1416**; thank you again for your cooperation.

Sincerely,

Gustav Stolz, Jr. (PE)
UIC Petroleum Engineer

UIC
GLH ✓
DJJ ✓
BGH
COMPUTER
MICROFILM
FILE

I've also enclosed Step Rate Test Guidance

SUGGESTED STEP-RATE INJECTIVITY TEST GUIDANCE

The Step-Rate Injectivity Test (SRIT) results will be documented with service company or other appropriate (acceptable) records and/or charts and should be witnessed by an EPA inspector. Witnessing arrangements can be made by contacting the EPA Region VIII Underground Injection Control (UIC) offices using the EPA toll-free number 1-800-759-4372 (x1544).

The SRIT procedure guidance is:

1. The injection well will be shut-in for at least two days (long enough to obtain a static fluid level) prior to the date that the SRIT is to be conducted. The static fluid level in the well bore will be considered as an indication of the shut-in bottom-hole (formation) pressure. If the shut-in well flows to the surface, the wellhead injection string will be equipped with a gauge and the static surface pressure will be read and recorded.

2. A series of successively higher injection rates, as suggested in the Table I below, will be established with necessary pump speeds, and the pressure and rate values read and recorded. The respective, corresponding pressure values at the wellhead (at each injection rate) will be read and recorded at regular five-minute intervals until the pressure becomes stabilized (within 10%) at that injection rate. (Stabilized pressure values may not obtain within a reasonable amount of time. If so, the SRIT will probably be inconclusive because the injection zone has a high permeability and/or is significantly under-pressured).

3. A plot of the stepwise injection rates and the corresponding stabilized pressure values should be graphically represented as a constant slope straight line to a point at which the formation "breakdown" pressure is exceeded. The slope of the subsequent straight line is less than that of the before-fracture straight line.

4. When the fracture pressure has definitely been exceeded with at least two injection rate-pressure combinations greater than the "breakdown" pressure, the injection pump will be shut down, the pressure allowed to bleed-off into the injection formation, and the instantaneous shut-in pressure (ISIP) will be read and recorded. There will be an immediate, sharp fall-off to a pressure value, after which the values begin to level out; this pressure value may be considered the ISIP.

5. Once the ISIP is obtained, the SRIT is concluded. The ISIP obtained in this manner may be considered the minimum pressure required to hold the fracture open without flow.

6. In the event that formation "breakdown" appears to have not

been obtained at the maximum test injection pressure utilized, the test results may indicate that the formation had been accepting fluids without having been fractured.

This SRIT outline is consistent with acceptable oilfield practices. It should identify an allowable injection pressure which will provide adequate protection of the underground sources of drinking water at an injection well having demonstrated mechanical integrity. **The allowable injection pressure will be determined after an EPA review of the SRIT results.** (Tabular & Graphic).

Table I - SUGGESTED STEP-RATE INJECTIVITY TEST DATA

	Inj. Rate BPM	Elapsed Time min.	Inj. Pres. psig		Inj. Rate BPM	Elapsed Time min.	Inj. Pres. psig
1.	1/2	0	_____	2.	3/4	0	_____
		5	_____			5	_____
		10	_____			10	_____
		15	_____			15	_____
		20	_____			20	_____
		25	_____			25	_____
		30	_____			30	_____
3.	1.0	0	_____	4.	1.5	0	_____
		5	_____			5	_____
		10	_____			10	_____
		15	_____			15	_____
		20	_____			20	_____
		25	_____			25	_____
		30	_____			30	_____
5.	2.0	0	_____	6.	3.0	0	_____
		5	_____			5	_____
		10	_____			10	_____
		15	_____			15	_____
		20	_____			20	_____
		25	_____			25	_____
		30	_____			30	_____
7.	5.0	0	_____	8.	8.0	0	_____
		5	_____			5	_____
		10	_____			10	_____
		15	_____			15	_____
		20	_____			20	_____
		25	_____			25	_____
		30	_____			30	_____

ISIP = _____psig

FCD:April 30, 1990:C\DATA\WP42\GUS\SRTGUID.GS

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

May 24, 1990

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Gentlemen:

Re: Cause No. UIC-120

Enclosed is a Notice of Agency Action before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Barbara L. Dumas for

Lisa Clement
Administrative Secretary

ldc
Enclosure
WOI127/6

an equal opportunity employer

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

May 24, 1990

Vernal Express
P.O. Box 1000
54 North Vernal Avenue
Vernal, Utah 84078

Gentlemen:

Re: Cause No. UIC-120

Enclosed is a Notice of Agency Action before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Barbara L. Dumas for

Lisa Clement
Administrative Secretary

ldc
Enclosure
WOI127/7

an equal opportunity employer

P 657 440 666

RECEIPT FOR CERTIFIED MAIL

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NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Mr. Edward Neibauer	
Street and No. 5655 So Yosemite Ste 460	
P.O., State and ZIP Code CO 80111	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 5-29-90	

Lisa Clements LK-1

Form 3800, June 1985

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Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
Mr. Edward Neibauer
EPS Resources Corp
5655 So Yosemite
Ste 460
Englewood CO 80111

4. Article Number
P 657 440 666

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X Leon Hagerley

7. e of Delivery
5-31-90

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 **DOMESTIC RETURN RECEIPT**

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...o not want this receipt postmarked, stick the gummed stub to the right of the return address of ... date, detach and retain the receipt, and mail the article.

...want a return receipt, write the certified mail number and your name and address on a return ...d, Form 3811, and attach it to the front of the article by means of the gummed ends if space per-...rwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** ... the number.

...want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse ...**CTED DELIVERY** on the front of the article.

...es for the services requested in the appropriate spaces on the front of this receipt. If return ...equested, check the applicable blocks in item 1 of Form 3811.

...s receipt and present it if you make inquiry.

☆ U.S.G.P.O. 1987-176-131

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U.S.MAIL

PENALTY FOR PRIVATE USE, $300

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Print Sender's name, address, and ZIP Code in the space below.

STATE OF UTAH
NATURAL RESOURCES
OIL, GAS, & MINING
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UTAH 84180-1203

Lisa Clements UIC-120

P 657 440 665

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to U.S. Blm	
Street and No. 170 So 5th E	
P.O., State and ZIP Code Vert 84078	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

PS Form 3800, June 1985

Lisa Clements
LLC-120

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
U.S. BLM
170 So 5th East
Vernal, Utt 84078

4. Article Number
P 657 440 665

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X J Davis

6. Signature — Agent
X

7. Date of Delivery
5/30/90

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

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Vant this receipt postmarked, stick the gummed stub to the right of the return address leaving attached and present the article at a post office service window or hand it to your rural carrier. harge)

o not want this receipt postmarked, stick the gummed stub to the right of the return address of date, detach and retain the receipt, and mail the article.

Vant a return receipt, write the certified mail number and your name and address on a return l, Form 3811, and attach it to the front of the article by means of the gummed ends if space per- wise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** the number.

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☆ U.S.G.P.O. 1987-176-131

UNITED STATES POSTAL SERVICE

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- **Attach to front of article if space permits, otherwise affix to back of article.**
- **Endorse article "Return Receipt Requested" adjacent to number.**

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF UTAH
NATURAL RESOURCES
OIL, GAS, & MINING
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UTAH 84180-1203

Lisa Clements LEIC-120

P 657 440 667

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to U.S. EPA	
Street and No. Denver Place Ste 500	
P.O., State and ZIP Code CO 80202-2405	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

3800, June 1985

Cedar Clements U.C. 12

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this [illegible] from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
U.S. EPA
Region VIII
Denver Place Ste 500
Denver CO 80202-2405

4. Article Number
P 657 440 667

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X Debra J. Martinez

6. Signature — Agent
X

7. Date of Delivery
5/31/90

8. Addressee's Address *(ONLY if requested and fee paid)*

PS [illegible] 3811, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

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t this receipt postmarked, stick the gummed stub to the right of the return address leaving ached and present the article at a post office service window or hand it to your rural carrier. ge)

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for the services requested in the appropriate spaces on the front of this receipt. If return uested, check the applicable blocks in item 1 of Form 3811.

☆ U.S.G.P.O. 1987-176-131

receipt and present it if you make inquiry.

UNITED STATES POSTAL SERVICE

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Lisa Clements UIC-120

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*          Receiver     :        8012372775                     *
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DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

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3 Triad Center, Suite 350
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Division Director

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REGION VIII
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PUBLIC NOTICE OF INTENT TO ISSUE

AN UNDERGROUND INJECTION CONTROL (UIC) CLASS II PERMIT

UIC PERMIT NUMBER UTS2519-2118

TO EPS RESOURCES CORPORATION

PURPOSE OF PUBLIC NOTICE

The purpose of this notice is to solicit public comment on the proposal by the Region VIII Office of the U.S. Environmental Protection Agency (EPA) to issue a UIC permit to inject fluids underground via a Class II injection well, identified as DDU #14-10 SWD, in the Dirty Devil Unit on the Uintah/Ouray Indian Reservation in the SW/4 SW/4 Section 10, T9S, R24E, of Uintah County, Utah. 43-047-30566

BACKGROUND

The U. S. Environmental Protection Agency (EPA) Region VIII is currently reviewing an application for an Underground Injection Control (UIC) Permit from EPS Resources Corporation, 5655 South Yosemite, Suite 460, Englewood, Colorado 80111. The proposed permit will provide for injection of produced Green River Formation brine fluids (of approximately 17,400 mg/l Total Dissolved Solids [TDS]) for the express purpose of their disposal. EPS, as Operator, proposes to reopen and convert the existing plugged and abandoned (P&A) "dry hole", DDU #14-10, to injection service as a brine fluids disposal well at a depth of approximately 2,390-2,530 feet KB.

Produced Green River Formation water, with a quality of approximately 17,400 mg/l TDS, does not currently serve as a source of drinking water, nor is it reasonably expected to do so in the future.

EPS Resources Corporation has submitted all of the required information and data necessary for the issuance of this proposed UIC Permit. EPA has made a preliminary determination to approve this area permit application and that, by doing so, all underground sources of drinking water (USDWs) will be protected. Therefore, EPA is hereby serving notice of intent to issue this UIC permit for the proposed underground injection activities. This action is being taken as provided by Part C of the Safe Drinking Water Act and attendant regulations.

MICROFICHE

PUBLIC COMMENTS

All non-proprietary data submitted by the applicant, as well as the draft permit prepared by EPA, are contained in the administrative record for this EPS Resources Corporation proposed Class II brine disposal injection well in the Dirty Devil Unit Uintah County, Utah. This information is available for public inspection at these locations from 9:00 a.m. to 5:00 p.m., or by contacting the following office:

Environmental Protection Agency, Region VIII
Ground Water Section, 8WM-DW
UIC Implementation Section
999 - 18th Street, Suite 500
Denver, Colorado 80202-2405
Attn: Gustav Stolz
Telephone: (303) 293-1416

Public comments are encouraged and will be accepted, in writing, at the indicated Denver Office for a period of 30 days after publication of this notice. A request for a public hearing should be made in writing and should state the nature of the issues proposed to be raised at the hearing. A PUBLIC HEARING WILL BE HELD ONLY IF SIGNIFICANT INTEREST IS SHOWN.

FINAL PERMIT DECISIONS AND APPEAL PROCESS

After the close of the public comment period, EPA will issue a final permit decision, and will notify all commenters regarding this decision. The final decision may be to: issue, deny, modify, or revoke and reissue the permit. The final decision shall become effective thirty (30) days after the final decision is issued, unless no commenters requested a substantial change in the draft permit and no substantial changes were made from the draft to the final permit, in which case the permit shall become effective immediately upon issuance.

Within thirty (30) days after the final permit decision has been issued, any person who filed comments on the draft document; participated in a public hearing; or takes issue with any changes in the draft document, may petition the Director to review the permit decision. Commenters are referred to 40 CFR Sections 124.15 through 124.20 for procedural requirements of the appeal process.

JUN 20 1990

Date of Publication

Roger E. Frenette

Max H. Dodson, Director
Water Management Division

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PUBLISHED ON JUN 01 1990

SIGNATURE G. J. Anderson

DATE 06/02/90

NOTARY PUBLIC
G. J. ANDERSON
143 South Main
Salt Lake City Utah 84111
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November 15 1992
STATE OF UTAH

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NOTICE OF AGENCY ACTION
CAUSE NO. UIC-120
BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF EPS RESOURCES CORPORATION FOR ADMINISTRATIVE APPROVAL OF THE DEVILS PLAYGROUND UNIT, FEDERAL 14-10 WELL LOCATED IN SECTION 10, TOWNSHIP 9 SOUTH, RANGE 24 EAST, S.L.M., UINTAH COUNTY, UTAH, AS A CLASS II INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

-Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of EPS Resources Corporation for administrative approval of the Devils Playground Unit, Federal 14-10 Well, located in Section 10, Township 9 South, Range 24 East, Uintah County, Utah, for conversion to a Class II injection well. The proposed will be conducted according to the provisions of the Administrative Procedures rules, R615-10.

The operating data for the well is as follows:

Injection Interval: 2390' to 2530' Green River Formation

Maximum Injection Rate-/Surface Pressure: To be determined after testing

Administrative approval of this application will be granted unless an objection is filed within fifteen days after publication of this notice by any person authorized to participate as a party in this adjudicative proceeding. If an objection is received by the Division, a informal adjudicative proceeding will be scheduled before the Board of Oil, Gas and Mining.

DATED this 23rd day of May, 1990.

STATE OF UTAH

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ON JUN 01 1990

G. J. Anderson

5/02/90

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G. J. ANDERSON
143 South Main
Salt Lake City Utah 84111
My Commission Expires
November 15 1993
STATE OF UTAH

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NOTICE OF AGENCY ACTION
CAUSE NO. UIC-120
BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of EPS Resources Corporation for administrative approval of the Devil's Playground Unit, Federal 14-10 Well, located in Section 10, Township 9 South, Range 24 East, Uintah County, Utah, for conversion to a Class II injection well. The proceeding will be conducted according to the provisions of the Administrative Procedures rules, R615-10.

The operating data for the well is as follows:

Injection Interval: 2390' to 2530' Green River Formation.

Maximum Injection Rate/Surface Pressure: To be determined after testing.

Administrative approval of this application will be granted unless an objection is filed within fifteen days after publication of this notice by any person authorized to participate as a party in this adjudicative proceeding. If an objection is received by the Division, a formal adjudicative proceeding will be scheduled before the Board of Oil, Gas and Mining.

Dated this 23rd day of May, 1990.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
R.J. FIRTH
Associate Director, Oil and Gas

Published in the Vernal Express May 30, 1990.

RECEIVED
JUN 25 1990
DIVISION OF
OIL, GAS & MINING

PROOF OF PUBLICATION

STATE OF UTAH, } ss.
County of Uintah

I, Judy McCarley,

being duly sworn, depose and say, that I am the Business Manager of The Vernal Express, a weekly newspaper of general circulation, published each week at Vernal, Utah, that the notice attached hereto was published in said newspaper

for....One.... publications,

the first publication having been made on

the 30th day of May, 1990

and the last on the 30th day of

May, 1990, that said notice

was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in a supplement.

By Judy McCarley
Manager

Subscribed and sworn to before me,

this 30th day of May

A. D. 1990

Notary Public, Residence, Vernal, Utah

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
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3 MICROFILM	✓
4 FILE	

June 28, 1990

EPS Resources Corporation
5655 South Yosemite, Suite 460
Englewood, Colorado 80111

Gentlemen:

Re: Dirty Devil Unit, Fed. #14-10 Well, Section 10, Township 9 South, Range 24 East, S.L.M., Uintah County, Utah

In accordance with Rule R615-5-3(3), the Oil and Gas Conservation General Rules, administrative approval for conversion of the referenced well to a Class II injection well is granted.

The following actions are necessary to fully comply with this approval:

1. Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.

2. Conformance with all conditions of the submitted application.

3. It will be necessary to swab a representative water sample from the injection zone and have it analyzed with the results forwarded to the Division for review prior to commencement of injection.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Best regards,

Dianne R. Nielson

Dianne R. Nielson
Director

ldc
cc: BLM, Vernal
EPA, Denver
WOI164

Orig G Hunt for file

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
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CERTIFIED MAIL
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Mr. Edward Neibauer, President
EPS Resources Corporation
5655 South Yosemite, Suite 460
Englewood, Colorado 80111

RE: Final Permit Transmittal
UIC Permit No. UTS2519-2118
Dirty Devil Unit #14-10 SWD
Uintah County, Utah

Dear Mr. Neibauer:

Transmitted herewith is your Underground Injection Control (UIC) Final Permit for the proposed DDU #14-10 SWD Well, Dirty Devil Unit, Uintah County, Utah.

The public comment period on the proposed permit action ended on July 20, 1990. There were no comments from either you, the general public or the landowner who may have been affected by the proposed action.

Please note that under the terms of the final permit, you are authorized **ONLY to construct the proposed injection well.** To begin injection, you must fulfill Permit Condition 2 of Part II, Section C, PRIOR TO COMMENCING INJECTION, and then obtain written authorization from EPA to commence injection. In summary, these requirements for your injection well are:

1) the performance of an acceptable, witnessed mechanical integrity test (MIT), and

2) the submission of a Well Rework Record (Form 7520-12).

You may telephone Mr. Tom Pike, Section Chief, UIC Compliance and Implementation, Denver, Colorado, [(303) 293-1544], to make the necessary arrangements for EPA to witness your required MIT.

Please direct any questions **to the attention of Gustav Stolz at Mail Code 8WM-DW** or you may telephone him at (300) 293-1416.

Sincerely,

Roger E. Frenette

for Max H. Dodson, Director
Water Management Division

Enclosures: Final Permit

cc: Darren Cuch
UIC Program Director
Ute Indian Tribe

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

UNDERGROUND INJECTION CONTROL PROGRAM

FINAL PERMIT

Class II Salt Water Disposal Well

Permit No. UTS2519-2118

Well Name: DDU #14-10 SWD

Field: Dirty Devil Field

County & State: Uintah County, Utah

issued to:

EPS Resources Corporation

5655 South Yosemite, Suite 460

Englewood, Colorado 80111

Date Prepared: July 23, 1990

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PART I. AUTHORIZATION TO CONSTRUCT AND INJECT

Pursuant to the Underground Injection Control Regulations of the U.S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 146, and 147,

EPS Resources Corporation
5655 Yosemite, Suite 460
Engelwood, Colorado 80111

is hereby authorized to convert an existing plugged and abandoned "dry hole" well, commonly known as Dirty Devil Unit #14-10 SWD, well located on the Uintah/Ouray Indian Reservation in the SW/4 SW/4 Section 10, Township 9S, Range 24E of Unitah County, Utah, into service as a Class II injection well. Injection shall be for the purpose of produced Green River Formation brine fluids disposal into portions of the Green River Sandstone (Eocene) Formation in accordance with conditions set forth herein.

Injection activities shall not commence until the operator has fulfilled all applicable conditions of this permit and has received written authorization from the Director. "Prior to Commencing Injection" requirements are set forth in Part II, Section C. 1. of this permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective.

This permit consists of a total of thirty (30) pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record. It is the responsibility of the permittee to read and understand all provisions of this permit.

This permit and the authorization to inject are issued for the operating life of the well, unless terminated (Part III, Section B.); **authorization to inject shall automatically expire due to prolonged postponement of construction [Part II, Section A.1.(b)], in which case the well to have been converted shall be properly plugged and abandoned (P&A).** The permit shall be reviewed by EPA at least every five (5) years to determine whether action under 40 CFR 144.36 (a) is warranted. The permit will expire upon delegation of primary enforcement responsibility for the UIC Program to the Ute Indian Tribe or the Utah Division of Oil, Gas and Mining unless either the Tribe or the Utah Division of Oil, Gas, and Mining has adequate authority, and chooses, to adopt and enforce this permit as a Tribal or State permit.

Issued this 25th day of July, 1990.

This permit shall become effective July 25, 1990.

for Roger E. Frenette
Max H. Dodson, Director
Water Management Division *

* NOTE: The person holding this title is referred to as the "Director" throughout this permit.

This permit and the authorization to inject are issued for the operating life of the well, unless terminated (Part III, Section B.); **authorization to inject shall automatically expire due to prolonged postponement of construction [Part II, Section A.1.(b)], in which case the well to have been converted shall be properly plugged and abandoned (P&A).** The permit shall be reviewed by EPA at least every five (5) years to determine whether action under 40 CFR 144.36 (a) is warranted. The permit will expire upon delegation of primary enforcement responsibility for the UIC Program to the Ute Indian Tribe or the Utah Division of Oil, Gas and Mining unless either the Tribe or the Utah Division of Oil, Gas, and Mining has adequate authority, and chooses, to adopt and enforce this permit as a Tribal or State permit.

Issued this _____ day of _____, 1990.

This permit shall become effective _____.

_____
Max H. Dodson, Director
Water Management Division *

* NOTE: The person holding this title is referred to as the "Director" throughout this permit.

PART II. SPECIFIC PERMIT CONDITIONS

A. WELL CONSTRUCTION

1. Casing and Cementing. The existing, uneconomic oil well construction history and well schematic, together with the proposed conversion construction details and schematic submitted with the application are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee. The 13 3/8-inch surface and 9 5/8-inch production (long string) casing have been cemented to surface. All cement used in the prior construction of the well was designed for the life expectancy of the well. The existing, plugged and abandoned (P&A) Green River Formation "dry hole" is proposed to be converted to injection service with appropriate modifications of the existing construction; the specific injection interval and modifications will be identified on the Well Rework Record (EPA Form 7520-12).

The proposed Conversion Rework Procedure of the existing, P&A "dry hole" is included in The Appendix A. Selected portions of the Green River Formation are to be perforated in the 2,390-2,530' Kelly Bushing [KB]) interval for injection service.

2. Tubing and Packer Specifications. Two and three-eighths **(2 3/8)-inch diameter injection tubing** will be utilized with an appropriate **packer set at approximately 2,325' KB** as shown in Appendix A) inside the 9 5/8-inch long string casing; the **casing/tubing annulus will be filled with corrosion-inhibited fluid.** Injection between the outermost casing protecting the underground sources of drinking water (USDWs) and the wellbore is prohibited.

3. Formation Logging and Testing. The **tubing/casing annulus must be mechanical integrity tested (MIT) in accordance with Part II, Section C.2.(a).** No additional formation logging or testing will be required prior to authorization to inject.

4. Monitoring Devices. The operator shall provide at the time of well conversion and maintain in good operating condition:

(a) A **tap on the discharge line** between the injection pump and the wellhead for the purpose of obtaining representative samples of the injection fluids;

(b) Two, one-half (1/2) inch FIP fittings, isolated by plug or globe valves, and positioned to provide for either (1) the permanent attachment of one-half (1/2) inch MIP gauges, or (2) the attachments for equivalent "quick-disconnect" gauges at the wellhead on the injection tubing and on the tubing/casing

annulus. The **gauges** used shall be of a design to provide (1) a **full pressure range of 100 percent greater than the anticipated operating pressure**, and (2) a **certified deviation accuracy of five (5) percent** or less; and

(c) A **non-resettable flow meter** with measured cumulative volumes that are certified for a deviation accuracy of five (5) percent or less throughout the range of injection rates allowed by the permit.

5. Proposed Changes and Workovers. The permittee shall give advance notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted injection well. In addition, the permittee shall provide all records of well workovers, logging, or other subsequent test data, including required mechanical integrity testing, to EPA within sixty (60) days of completion of the activity. Appendix B contains samples of the appropriate reporting forms.

Demonstration of **mechanical integrity** shall be performed within thirty (30) days of completion of any **workovers** or alterations and **prior to resuming injection activities**, in accordance with Part II, Section C.2.(a).

6. Postponement of Conversion. If the well is not completed, for injection service, within one (1) year from the effective date of this permit, **authorization to inject will automatically expire,** unless the permittee requests an extension. The request shall be made to the Director in writing, in lieu of the annual reporting requirements of Part II, Section D. 4., and shall state the reasons for the delay in construction and confirm the protection of all USDWs. The **extension under this section may not exceed one year.** Financial responsibility shall be maintained during the period of inactivity in accordance with Part II, Section F **in the event the operator does not properly plug and abandon (P&A) the well upon expiration of the effective/extension date.** Once authorization to inject expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to inject will be re-issued.

B. CORRECTIVE ACTION

The EPS Resources Dirty Devil Unit #14-10 SWD well is the only well within the one-quarter-mile-radius area of review (AOR). Therefore, **no corrective action** will be required.

C. WELL OPERATION

1. Prior to Commencing Injection. Injection operations may not commence until the permittee has complied with items (a) and (b) as follows:

(a) All conversion construction is complete, and the **permittee has submitted a completed Well Rework Record,** (Form 7520-12 in Appendix B); and

(i) The Director has inspected or otherwise reviewed the newly converted injection well and notified the operator that it is in compliance with the conditions of the permit; or

(ii) The permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within thirteen (13) days of the date of the Well Rework Record in paragraph (a) of this permit condition in which case prior inspection or review is waived and the permittee may commence injection. [Note: However, in all circumstances, item (b) below must also be satisfied.]; and

(b) The **well has demonstrated mechanical integrity** in accordance with 40 CFR 146.8, and the **permittee has received notice from the Director** that such demonstrations are satisfactory. The permittee shall notify EPA thirty (30) days prior to conducting this mechanical integrity test (MIT) so that a representative may be present to observe the test.

2. Mechanical Integrity. (Subsequent to Initial Demonstration)

(a) Method of Demonstrating Mechanical Integrity. A demonstration of the absence of significant leaks in the casing, tubing and/or packer must be made by performing a **tubing/casing annulus pressure test.** This test shall be for a minimum of **45 minutes** at: 1) a pressure of **300 psig measured at the surface,** if the well is shut-in, or 2) a pressure differential of 200 psig, if injection activities are continued during the test. The tubing/casing annulus shall be filled with a non-corrosive fluid (either a non-toxic liquid or the injection liquid) at least 24 hours in advance of the test. Pressure values shall be recorded at five-minute intervals or less. A well passes the MIT if there is less than a ten (10) percent decrease in pressure over the 45 minute period.

(b) Schedule for Demonstrations of Mechanical Integrity. A demonstration of mechanical integrity shall be made at regular intervals, no less frequently than **every five (5) years** from the effective date of this permit, in accordance with 40 CFR 146.8 and paragraph (a) above, unless otherwise modified. Initiation of mechanical integrity demonstrations will be according to the following provisions.

(i) It shall be the permittee's responsibility to arrange and conduct the routine five-year demonstrations. The permittee shall notify the Director of his intent to demonstrate mechanical integrity at least thirty (30) days prior to each such demonstration. Results of the test shall be submitted to the Director as soon as possible but no later than sixty (60) days after the demonstration.

(ii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity at any time during the permitted life of the well.

(c) Loss of Mechanical Integrity. If the well fails to demonstrate mechanical integrity during a test, or **a loss of mechanical integrity** as defined by 40 CFR 146.8 becomes evident during operation, the permittee shall **notify the Director** in accordance with Part III, Section E. 10. of this permit. Furthermore, **injection activities shall be terminated immediately;** and operation shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.

3. Injection Intervals. Injection shall be permitted for portions of the **entire Green River (Eocene) Formation in the approximate subsurface interval of 800-3,160' KB; initial perforations will be at approximately 2,390-2,530' KB.** Injection perforations may be added or squeezed-off so long as they are within the entire Green River Formation interval, no USDWs are affected, and any well rework is properly reported (EPA Form 7520-12) and the well is mechanically integrity tested.

4. Injection Pressure Limitation.

(a) **Injection pressure measured at the surface, shall not exceed 700 pounds per square inch (psig),** as determined by EPA for injection into the Green River Formation.

(b) The injection pressure limitation in paragraph (a) **may be increased** by the Director if the fracture pressure

of the injection formation will not be exceeded, and the permittee demonstrates either:

(i) that the proposed increase in surface injection pressure is necessary to overcome friction losses in the system. This demonstration shall be made by performing a **valid step-rate injection test** in the proposed injection zone. The Director will determine any allowable increase based upon the step-rate test results (including the **Instantaneous Shut-In Pressure [ISIP]**) and other parameters reflecting actual injection operations, or

(ii) that the proposed increase in surface injection pressure is necessary to inject the volume rate of fluid set by Part II, Section C. 5., below. The demonstration required under this paragraph will be based upon the specific injection operation and a step-rate test.

(c) The permittee shall give thirty (30) days advance notice to the Director if the increase in paragraph (b) will be sought. Details of the proposed test shall be submitted at least seven (7) days in advance of the proposed test date so that the Director has adequate time to review and approve the test procedures. **Results of all tests shall be submitted to the Director within ten (10) days of the test for his approval, in writing**, before the permittee may begin continuous operation at an increased pressure.

(d) Any approval granted by the Director for the increased pressure limitations as stated in paragraph (b) shall be made part of this permit by minor modification without further opportunity for public comment.

5. <u>Injection Volume (Rate) Limitation</u>.

(a) No more than **1,800 barrels of water per day (BWPD)** of produced brine fluids shall be reinjected into the Green River Formation in this well. Further, **in no case shall injection pressure exceed that limit shown in Part II, Section C.4.(a)** of this permit.

(b) The permittee may request an increase in the allowable rate as shown in paragraph (a). Any such request shall be made in writing to the Director. Any approval granted by the Director for increased rate limitations as stated in paragraph (a) shall be made part of this permit by minor modification withour further opportunity for public comment.

(c) Should any increase in rate be requested, the permittee

shall demonstrate to the satisfaction of the Director that the increase in volume will not cause migration of formation or injected fluids into any USDW, nor cause any injected fluids to move beyond the one-quarter-mile Area of Review boundary.

6. Injection Fluid Limitation. The permittee shall not inject any hazardous substances, as defined by 40 CFR 261, at any time during the operation of the facility. Fluids to be injected other than the Green River Formation brine fluids in the range of approximately 12,500-22,0200 mg/l TDS, shall be limited to occasional minor amounts of well treatment fluids, such as dilute and spent acids, corrosion inhibiting fluids, etc., as related to oil and/or gas production from the Green River Formation in the Dirty Devil Unit area. Any additional fluid additives contained in the produced fluids shall also be identified and reported along with the routine annual report information in D.1.(a)(i) below. The source of any fluids other than those explicitly allowed by the permit must be reported to the Director within thirty (30) days of any change in injection fluids.

7. Annular Fluid. The annulus between the tubing and the casing shall be filled with a corrosion inhibiting solution; the industry-acceptable solution proposed by the permittee is approved by the Director.

D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Injection Well Monitoring Program. Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table I of 40 CFR 136.3, or in Appendix III of 40 CFR Part 261, or in certain circumstances, by other methods that have been approved by the EPA Administrator. Monitoring shall consist of:

(a) **Analysis of the injection fluids**, performed:

(i) **annually** for Total Dissolved Solids, major ions, pH, Specific Conductivity, and Specific Gravity; and,

(ii) whenever there is a **change in the source** of injection fluids.

(b) **Weekly observations of injection pressure, flow rate and cumulative volume.** At least one observation of injection pressure, volume flow rate, and cumulative volume, shall be **recorded at regular intervals no greater than thirty (30) days.**

2. Monitoring Information. Records of any monitoring activity required under this permit shall include:

(a) The **date, exact place, the time** of sampling or field measurements;

(b) The name of the individual(s) who performed the sampling or measurements;

(c) The exact sampling method(s) used to take samples;

(d) The date(s) laboratory analyses were performed;

(e) The name of the individual(s) who performed the analyses;

(g) The results of such analyses.

3. Recordkeeping.

(a) The permittee shall **retain records** concerning:

(i) the nature and composition of all injected fluids until **three (3) years after the completion of plugging and abandonment** which has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C, and is consistent with 40 CFR 146.10.

(ii) all **monitoring information**, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.

(b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a) (i) and (a) (ii) unless he delivers the records to the Director or obtains written approval from the Director to discard the records.

(c) The permittee shall maintain copies (or originals) of all pertinent monthly observation records [Part II., Section D.1.(b)] available for inspection at the lease facility.

4. Reporting of Results. The permittee shall **submit an Annual Report** to the Director summarizing the results of the monitoring required by Part II, Section D. 1. of this permit. Copies of all monthly records on injected fluids, and any major changes in characteristics or sources of injected fluid shall be included in the Annual Report. The first Annual Report shall cover

the period from the effective date of the permit through December 31. Subsequently, the **Annual Report** shall cover the period of January 1 through December 31, and shall be **submitted by February 15 of the following year.** Appendix B contains **Form 7520-11,** copies of which will be used to submit the annual summary of monitoring.

E. PLUGGING AND ABANDONMENT

1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before further conversion, workover, or abandonment of the well.

2. Plugging and Abandonment Plan. The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan, Appendix C. EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may ask the permittee to estimate and to update the estimated plugging cost periodically. Such estimates shall be based upon costs which a third party would incur to plug the well according to the plan.

3. Cessation of Injection Activities. After a cessation of operations of two (2) years, the permittee shall plug and abandon the well in accordance with the Plugging & Abandonment Plan, unless he:

(a) has provided notice to the Director, and

(b) has demonstrated that the well will be used in the future, and

(c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.

4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan, or (2) where actual plugging differed from the plan, a statement specifying the different procedures followed.

F. FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permittee is required to maintain financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan.

(a) The permittee has submitted an acceptable Irrevocable Standby Letter of Credit (LOC), Union Bank and Trust of Denved ,CO., No.256, in the amount of $4,000. This LOC demonstrates permittee financial responsibility for plugging and abandonment requirements, and is accompanied by an executed companion Standby Trust Agreement, Union Bank and Trust of Denver, Colorado, Trustee.

(b) The permittee may, upon his own initiative and upon written request to EPA, change the method of demonstrating financial responsibility from surety performance bond coverage to another acceptable financial assurance demonstration. Any such change must be approved by the Director. A minor permit modification will be maade to reflect the change in financial assurance demonstration without any further opportunity for public comment.

2. Insolvency of Financial Institution. In the event that an alternate demonstration of financial responsibility has been approved under (b) above, the permittee must submit a subsequent alternate demonstration of financial responsibility acceptable to the Director within sixty (60) days after either of following events occur:

(a) the institution issuing the alternate financial responsibility demonstration or trust agreement files for bankruptcy; or

(b) the authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument, is suspended or revoked.

PART III. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR Part 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

B. PERMIT ACTIONS

1. Modification, Reissuance, or Termination. The Director may, for cause or upon request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR Sections 124.5, 144.12, 144.39, and 144.40. Also the permit is subject to minor modifications for cause as specified in 40 CFR Section 144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.

2. Conversions. The Director may, for cause or upon a request from the permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Requests to convert the injection well from its Class II status to a non-Class II well, such as a production well, must be made in writing to the Director. Conversion may not proceed until a permit modification indicating the conditions of the proposed conversion is received by the permittee. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow-up demonstration of mechanical integrity, and well-specific monitoring and reporting following the conversion.

3. Transfers. This permit is not transferrable to any person except after **notice is provided to the Director** and the requirements of 40 CFR 144.38 are complied with. The Director may require modification, or revocation and reissuance, of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.

C. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the permittee, and
- Information which deals with the existence, absence, or level of contaminants in drinking water.

E. GENERAL DUTIES AND REQUIREMENTS

1. Duty to Comply. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such non-compliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).

2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective **performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls,** including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

6. Duty to Provide Information. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, **copies of records** required to be kept by this permit.

7. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) **Enter upon the permittee's premises** where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this permit;

(b) Have **access to and copy,** at reasonable times, any records that must be kept under the conditions of this permit;

(c) **Inspect** at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) **Sample or monitor,** at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.

8. Records of the Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.

9. Signatory Requirements. All **reports or other information** requested by the Director shall be **signed and certified** according to 40 CFR 144.32.

10. Reporting of Noncompliance.

(a) Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.

(c) Twenty-four Hour Reporting.

(i) The permittee shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided **orally within twenty-four (24) hours** from the time the permittee becomes aware of the circumstances by telephoning EPA at (303) 293-1413 (during normal business hours) or at (303) 293-1788 (for reporting at all other times). The following information shall be included in the verbal report:

(A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.

(B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

(ii) A **written submission** shall also be provided **within five (5) days** of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue;

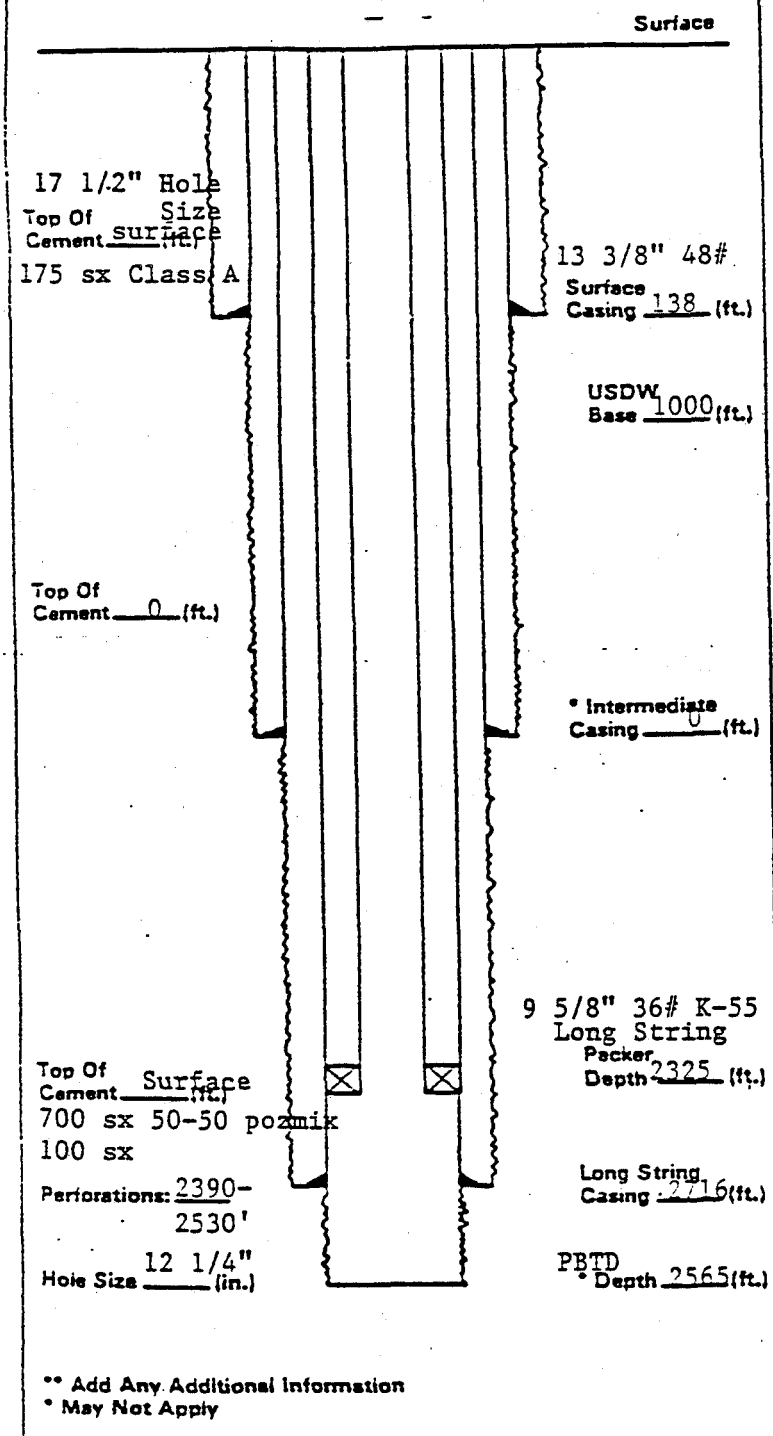
and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

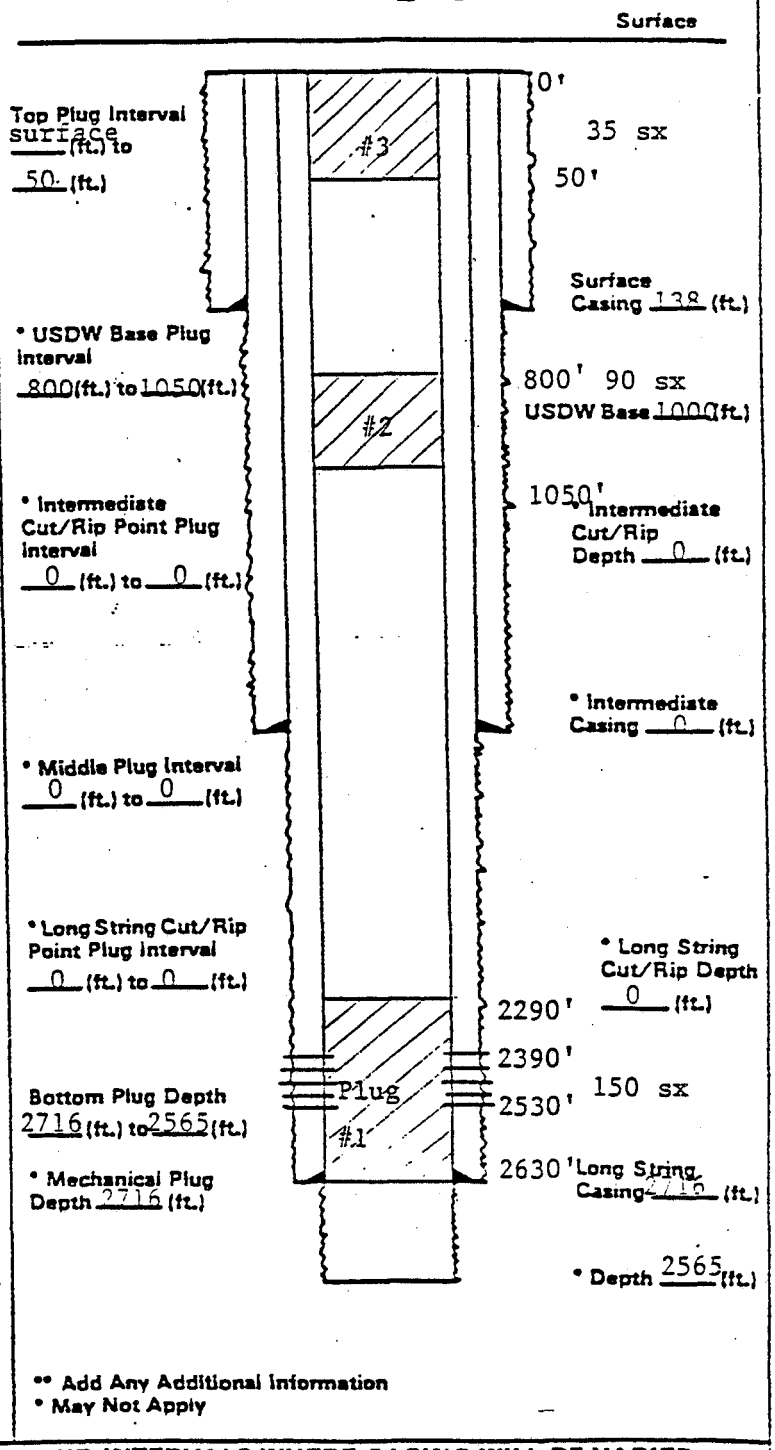
(d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E. 10. (C) (ii) of this permit.

(e) Other Information. Where the permittee becomes aware that he failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall submit such facts or information within two (2) weeks of the time such information became known to him.

APPENDIX A - (Construction Procedures)

Existing/Converted Construction Schematic





LIST OF ALL OPEN AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED

Specify Open Hole/Perforations/Varied Casing	From	To	Formation Name
Perforations	2390	2530	Green River

APPENDIX B - (Reporting Forms and Instructions)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY	WELL STATUS	TYPE OF PERMIT
☐ Class I	☐ Operating	☐ Individual
☐ Class II	☐ Modification/Conversion	☐ Area
☐ Brine Disposal	☐ Proposed	Number of Wells _____
☐ Enhanced Recovery		
☐ Hydrocarbon Storage		
☐ Class III		
☐ Other		

Lease Name Well Number

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)	NAME AND ADDRESS OF NEW OPERATOR

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

EPA Form 7520-7 (2-84)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042
Approval expires 9-30-91

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

STATE | COUNTY | PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells _____

Estimated Fracture Pressure of Injection Zone

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average	Maximum	Feet	to Feet
Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)	
Average	Maximum		

Type of Injection Fluid *(Check the appropriate block(s))*

- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☐ Other

Lease Name | Well Number

Name of Injection Zone

Date Drilling Began | Date Well Completed

Permeability of Injection Zone

Date Drilling Completed

Porosity of Injection Zone

CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION		WIRE LINE LOGS. LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*

DATE SIGNED

EPA Form 7520-10 (2-84)

UIC Permit Number UMS2510-2118

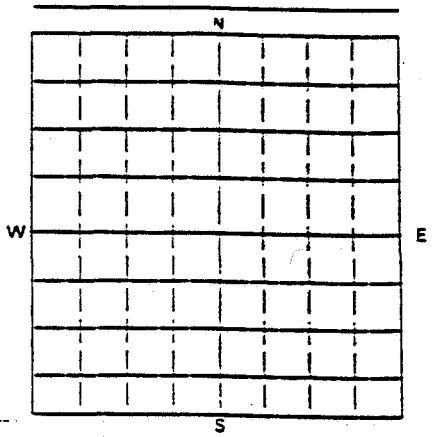
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells _____

Lease Name Well Number

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

EPA Form 7520-11 (2-84)

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY		TYPE OF PERMIT
☐ Brine Disposal ☐ Enhanced Recovery ☐ Hydrocarbon Storage	Total Depth Before Rework	☐ Individual ☐ Area
	Total Depth After Rework	Number of Wells _____
Lease Name	Date Rework Commenced	Well Number
	Date Rework Completed	

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture
Size	Depth	Sacks	Type	From	To	Treatment Record

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture
Size	Depth	Sacks	Type	From	To	Treatment Record

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS. LIST EACH TYPE	
	Log Types	Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UIC Permit Number UMS2519-2118

EPA Form 7520-12 (2-84)

Form Approved. OMB No. 2000-0042 Approval expires 9-30-91

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

STATE | COUNTY | PERMIT NUMBER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

TYPE OF AUTHORIZATION

☐ Individual Permit
☐ Area Permit
☐ Rule

Number of Wells ____

Lease Name

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

WELL ACTIVITY

☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

METHOD OF EMPLACEMENT OF CEMENT PLUGS

☐ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE *(Please type or print)* | SIGNATURE | DATE SIGNED

UIC Permit Number UTS2519-2118

APPENDIX C - (Plugging & Abandonment Plan)

1. Plugging & Abandonment Plan (EPA Form 7520-14)

The P&A Plan includes:

Plug #1 -- A **150-sack, 350'** (177 cu. ft. slurry) balanced plug #1 will be set at the **2,290-2,630'KB** (2,390-2,530' perforated) interval.

Plug #2 -- A **92-sack, 250'** (108 cu.ft. slurry) balanced plug #2 will be set at the **800-1,050' KB** (base of USDW) interval.

Plug #3 -- A **35-sack, 50'** (40 cu.ft. slurry) balanced plug #3 will be set **at the surface inside the long string and in the long string/surface casing annulus.**

2. Plugging & Abandonment Plan Schematic

Form Approved. OMB No. 2040-0042. Approval Expires 9-30-86

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY
DDU #14-10 Water Injection Well
c/o EPS Resources Corporation
5655 S. Yosemite, Ste. 460, Englewood, CO 80111

NAME AND ADDRESS OF OWNER/OPERATOR
EPS Resources Corporation
5655 S. Yosemite, Ste. 460
Englewood, CO 80111

PERMIT NUMBER (UIC) UTS 2519-2118

STATE: Utah
COUNTY: Uintah

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W
E
S

SURFACE LOCATION DESCRIPTION
¼ OF ¼ OF ¼ SECTION 10 TOWNSHIP 9S RANGE 24E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 714 ft. from (N/S) S Line of quarter section
and 786 ft. from (E/W) W Line of quarter section

TYPE OF AUTHORIZATION
- [x] Individual Permit
- [ ] Area Permit
- [ ] Rule

Number of Wells 1

WELL ACTIVITY
- [ ] CLASS I
- [x] CLASS II
  - [x] Brine Disposal
  - [ ] Enhanced Recovery
  - [ ] Hydrocarbon Storage
- [ ] CLASS III

Lease Name Dirty Devil Unit
Well Number #14-10

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
13 3/8	48	138	138	17 1/2"
9 5/8	36	2716	2716	12 1/4"

METHOD OF EMPLACEMENT OF CEMENT PLUGS
- [x] The Balance Method
- [ ] The Dump Bailer Method
- [ ] The Two-Plug Method
- [ ] Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	9 5/8	9 5/8	9 5/8	9 5/8	12 1/4		
Depth to Bottom of Tubing or Drill Pipe (ft.)	263	1850	50				
Sacks of Cement To Be Used (each plug)	150	92	35				
Slurry Volume To Be Pumped (cu. ft.)	177	108	30				
Calculated Top of Plug (ft.)	2290	800	Surface	Surface			
Measured Top of Plug (if tagged ft.)	NA	NA	NA				
Slurry Wt. (Lb./Gal.)	Class A	Class A	Class A	Class A			
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To

Estimated Cost to Plug Wells

$4,000.00

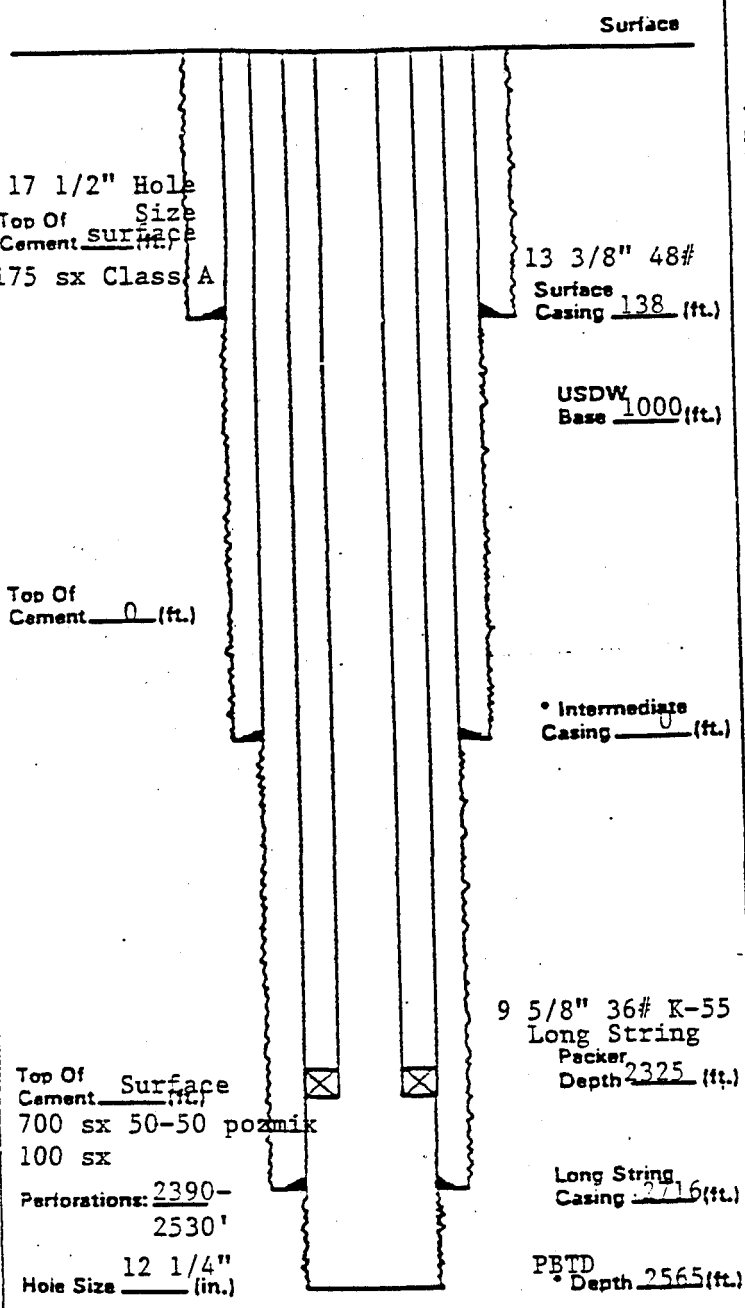
CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

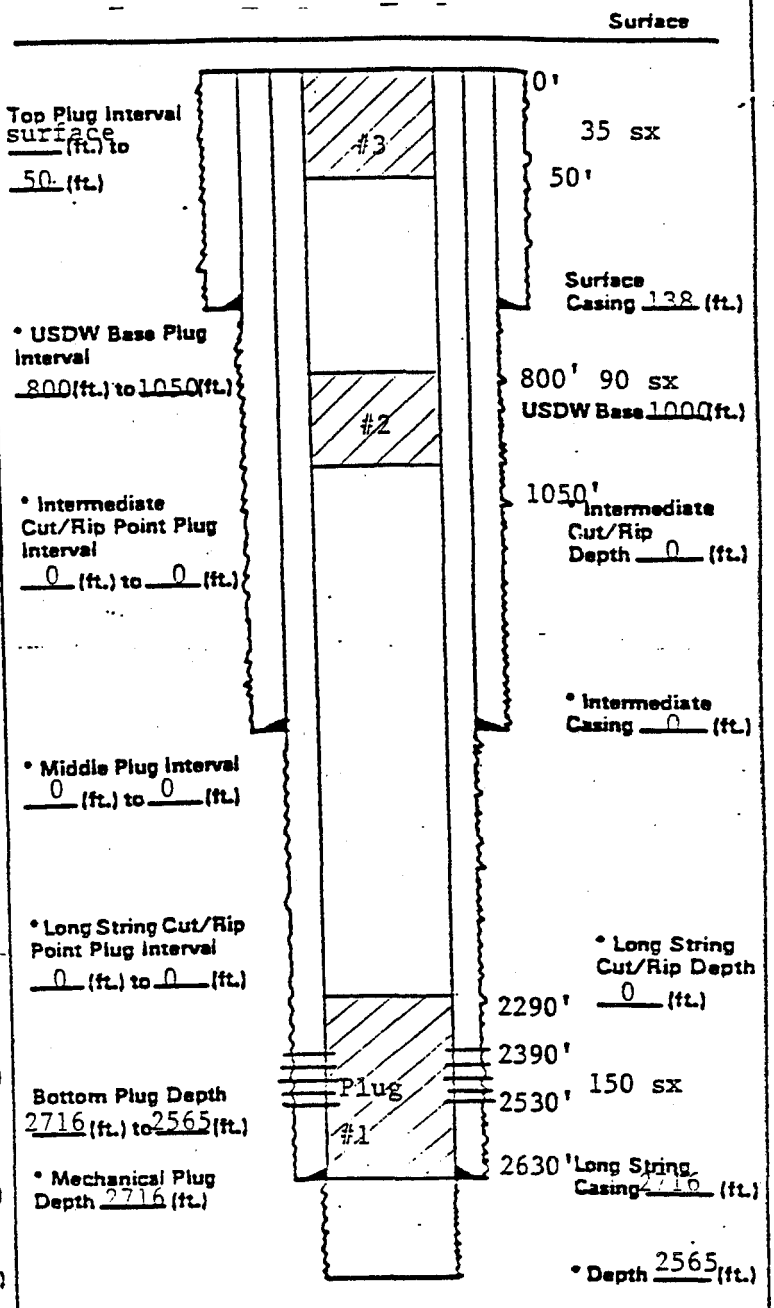
NAME AND OFFICIAL TITLE (Please type or print): Edward Neibauer, President

SIGNATURE: Edward Neibauer

DATE SIGNED: 8/30/90



** Add Any Additional Information
* May Not Apply



** Add Any Additional Information
* May Not Apply

LIST OF ALL OPEN AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED

Specify Open Hole/Perforations/Varied Casing	From	To	Formation Name
Perforations	2390	2530	Green River

UIC Permit Number UT52519-2718

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

AUG 27 1991

DIVISION/AREA
Dist. Mgr.
Planning
Administration
Resources
Operations
RECEIVED
AUG 29 1991
BUREAU OF LAND MGMT. VERNAL, UTAH
Minerals
Dia. Mtn.
Bookcliff
All Employees

Ref: 8WM-DW

AUG 1991

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Edward Neibauer, President
EPS Resources Corporation
5655 South Yosemite, Suite 460
Englewood, Colorado 80111

RE: Notice of Noncompliance
UIC Permit No. UTS2519-2118
Dirty Devil Unit #14-10 SWD
Uintah County, Utah

Dear Mr. Neibauer:

Your Underground Injection Control (UIC) Final Permit for the proposed DDU #14-10 SWD Well, Dirty Devil Unit, Uintah County, Utah, was transmitted with a cover letter dated July 27, 1990, and receipt acknowledged on August 2, 1990.

The well was constructed and EPA witnessed a mechanical integrity test (MIT), which failed because of an apparent leaky tubing head on September 27, 1990. This "failed" MIT identifies a lack of compliance with Permit Condition II.A.6; "... the well is not completed for injection service, within one (1) year from the effective date of this permit ..." Further, "Financial responsibility shall be maintained ... in the event that the operator does not properly plug and abandon (P&A) the well upon expiration of the effective/extension date."

EPS Resources must, within thirty (30) days of your receipt of this letter, either:

1. Request and obtain a one-year extension of the effective date of this permit;

2. Repair the leaky tubing head such that the well <u>does pass an EPA witnessed mechanical integrity test</u>; or

3. Properly P&A the well in accordance with the P&A Plan, pages 28 and 29 of the above referenced UIC Permit.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Phone (801) 789-1362 FAX (801) 789-3634

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
3160
UT08438

Valley Operating, Inc.
745 Gilpin St.
Denver, CO 80218

SEP 23 1992

Re: Salt Water Disposal Well #14-10
SWSW Section 10, T9S, R24E, SLM
Uintah County, Utah
Federal Lease U-59149

Gentlemen:

It has come to our attention that Salt Water Disposal (SWD) Well #14-10 is the only well existing upon Federal Lease U-59149. The lease term for Federal Lease U-59149 has been extended through January 15, 1994, due to elimination of the lease from the Dirty Devil Unit by contraction. Be advised that a SWD will not continue this lease beyond its extended term, only a well capable of production in paying quantities.

At the end of the extended term, if there is not a well capable of production in paying quantities upon or associated with the lease, SWD Well #14-10 will either have to be:

(1) plugged and abandoned, or

(2) authorized with a right-of-way in accordance with Title V of FLPMA should Valley Operating wish to continue operating the well as a SWD well. An appropriate bond amount for the right-of-way will also need to be established.

Should you have any questions regarding any of the above, please contact Jerry Kenczka at (801) 789-1362.

Sincerely,

Howard B. Cleavinger
Assistant District Manager for
Mineral Resources

cc: Thermo Fuels
5840 Dahlia
Commerce City, CO 80022

RECEIVED
SEP 28 1992
DIVISION OF
OIL GAS & MINING

Date

ROUTING AND TRANSMITTAL SLIP

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. Lisha Romero		
2.		
3.		
4.		
5.		

	Action		File		Note and Return
	Approval		For Clearance		Per Conversation
	As Requested		For Correction		Prepare Reply
	Circulate		For Your Information		See Me
	Comment		Investigate		Signature
	Coordination		Justify		

REMARKS

*920929 Notified Gil Hunt (UIC) Approved conversion to SDW on 6-28-90, has not commenced as of today. jf

RECEIVED
SEP 28 1992
DIVISION OF
OIL GAS & MINING

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)	Room No.—Bldg.
	Phone No.

5041-102

GPO : 1987 O - 196-409

OPTIONAL FORM 41 (Rev. 7-76)
Prescribed by GSA
FPMR (41 CFR) 101-11.206

1992 Plan of Development

The Federal #1-9 well (Sec 9-T9S-R24E) was spudded in August 1990. This well was drilled into the Wasatch (6,200) and encountered substantial shows of gas. Testing of several of these zones were inconclusive. Further testing of both the Wasatch (gas) and Green River (oil) is necessary to establish commercial production.

The Federal #14-10 well was reconfigured as a water injection well in August 1990. Permitting necessary for injection operations into this well has begun with both the State UIC and the Environmental Protection Agency. Once permitting is completed, facilities will be constructed and put into operation. Further consideration of the Bird Nest zone as an alternate to the Green River as a reservoir as a disposal reservoir is now under consideration. The Bird Nest could reduce operating costs substantially and enhance the commercial viability of this proposed operation.

Under the proper circumstances, Valley would like to re-initiate gas production from Fed #11-29, Fed #23-17, Fed #23-20, Fed #31-15A, Fed #1-18C and Fed #41-9. The likely time for these wells to be placed on line would be coincident with operation of the water disposal facilities. In addition to the local operational considerations, with the Kern River Pipeline coming into service and Questar's direct tie into that system, additional gas markets are expected to become available.

No new drilling has been immediately planned for the Unit leases. However, consideration of reentering the Fed #21-19 well fro Green River potential remains a possibility. The well is located in Sec 19-T9S-R24E. If commercial production is established, an Initial Green River Participating Area would be submitted for review.

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:	
1-LCR	7-LCR
2-DTS	S
3-VLC	✓
4-RJF	✓
5-RWM	✓
6-ADA	✓

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XXX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 9-23-92)

TO (new operator) VALLEY OPERATING, INC.
(address) 745 GILPIN ST
DENVER, CO 80218-3633
LEE ROBINSON
phone (303) 355-3242
account no. N 8270

FROM (former operator) EPS RESOURCES CORP.
(address) 5655 S YOSEMITE #460
ENGLEWOOD, CO 80111
DALE ANNE KESLER
phone (303) 721-7920
account no. N 2025

Well(s) (attach additional page if needed):

Name	API	Entity	Sec	Twp	Rng	Lease Type
FEDERAL 14-10/DRL	43-047-30566	99999	10	9S	24E	U-59149

OPERATOR CHANGE DOCUMENTATION

N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (see B-m letter)

N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (see B-m letter)

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

Yes 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.

Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (9-29-92)

Yes 6. Cardex file has been updated for each well listed above. (9-29-92)

Yes 7. Well file labels have been updated for each well listed above. (9-29-92)

Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (9-29-92)

Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

PERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

NTITY REVIEW

lcr 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

OND VERIFICATION (Fee wells only)

N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

N/A 2. A copy of this form has been placed in the new and former operators' bond files.

N/A 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

EASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

TS 1/30/92

N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

ILMING

RWM

✓ 1. All attachments to this form have been microfilmed. Date: Oct 5 1992.

ILING

✓ 1. Copies of all attachments to this form have been filed in each well file.

✓ 2. The original of this form and the original attachments have been filed in the Operator Change file.

OMMENTS

E71/34-35

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

XXX **Well File** FEDERAL 14-10
(Location) Sec 10 Twp 9S Rng 24E
(API No.) 43-047-30566

[] **Suspense**
(Return Date) _____
(To - Initials) _____

XXX **Other**
DTS
VLC

1. Date of Phone Call: 5-11-93 Time: 3:30

2. DOGM Employee (name) L. CORDOVA (Initiated Call [])
Talked to:

Name ED FORSMAN (Initiated Call XXX) - Phone No. (801) 789-1362

of (Company/Organization) BLM/VERNAL

3. Topic of Conversation: STATUS OF WELL.

4. Highlights of Conversation:

PER BLM RECORDS THE STATUS OF THE WELL IS SOW. THEY DO NOT HAVE A SPUD REPORT OR WCR FOR THE WELL. THE ONLY THING IN THE FILE IS PHONE DOCUMENTATION THAT ON 6-5-90 BETWEEN 11:00-12:00, A BOP TEST WAS TO BE CONDUCTED. PROPOSED INTERVALS ARE LISTED AS 2390-2530', GRRV FORMATION. FOLLOW-UP INSPECTION OF THE SITE CONFIRMS LOCATION WELL HEAD "SI". THE BLM HAS SPOKEN WITH VALLEY OPERATING, THEY ACQUIRED THE WELL FROM EPS RESOURCES AND HAVE BEEN UNSUCCESSFUL IN THEIR ATTEMPTS TO GET DOCUMENTATION REGARDING SPUD & WELL COMPLETION INFORMATION FROM EPS. MMS IS REQUIRING VALLEY OPERATING TO REPORT PRODUCTION ON THE WELL "0", UNTIL THE MATTER CAN BE CLEARED UP. PER ED FORSMAN/VERNAL, A LETTER WILL BE SENT TO VALLEY OPERATING REQUIRING FOLLOW-UP. HE WILL SEND A COPY OF THAT LETTER TO DOGM FOR OUR RECORDS.

*DOGM INSPECTION ON 11-20-91 STATES THAT THE WELL IS A SI - SDW. (SEE ATTACHED)

*ENTITY ADDED.(SEE ATTACHED)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR VALLEY OPERATING INC

ADDRESS

OPERATOR ACCT. NO. N 8270

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	11478	43-047-30566	FEDERAL 14-10	SWSW	10	9S	24E	UINTAH		5-12-93
WELL 1 COMMENTS:											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)
Signature

ADMIN. ANALYST
Title

5-12-93
Date

Phone No. ( )

Valley Operating, Inc.

Office: (303) 355-3242 Fax: (303) 377-9798

745 Gilpin Street
Denver, Colorado 80218-3633

FACSIMILE COVER SHEET

PLEASE DELIVER TO: Mike Hebertson

FAX NUMBER/DATE: (801)-359-3940

FROM: Lee Robinson

TOTAL OF 4 PAGES INCLUDING THIS TRANSMITTAL SHEET

REMARKS:

Federal #14-10 Well

43-047-30566
~~43-037-31091~~

If you do not receive all of the pages please call
303-289-7720

Valley Operating, Inc.

Office: (303) 355-3242 Fax: (303) 377-9798

745 Gilpin Street
Denver, Colorado 80218-3633

Via Fax: (801)-359-3940

43047-30566

Re: Federal #14-10 WDW
Uintah County, Utah

March 22, 1994

Mr. Mike Hebertson
Division of Oil, Gas and Mining
State of Utah
Salt Lake City, Utah

Gentlemen:

Having checked the well file for the Federal #14-10 well. ~~Following is the only information which can be~~ located for the recompletion of the well by EPS Resources in June 1990. EPS went into bankruptcy shortly after this and their files have not always been found to be complete.

The well is currently shut in and no immediate plans to perform work on the well are planned. We are however in process with the Vernal BLM to issue a Right of Way permit for this location.

Very Truly Yours

3/22

F. Lee Robinson
Vice President

Re-entry Report

Federal #14-10
(API# 43-047-30566)
Sec 10 T9S R24E
BLM Lease # U-59149

June 5, 1990

Prep to Drill out cement:

MIRU, hooked up circ. equip & lines. R.U. floor and N.U. BOP's, R.U. quik test. tested 10" 3000# BOP's to 3000# pressure for 10 min & 250 # low press for 5 min - ok after repairing leaks. 3 1/2" P.U. 8 3/4" bit & 2 4 3/4" D.C.'s Finished drilling out cement surface plug from 25' - 34' KB (9' hard cement) chased remains of plug to 125'. Layed down 1 jt 27/8" tbg & SWIFN.

June 6, 1990

Prep to test casing & perforate:

TIH w/ 8 3/4" bit and 2 4 3/4" D.C.'s picking up & rabbiting 2 7/8" work string. Circulated out drilling mud to pit with lease water @ 952', 1900', & 2581'. PBTD. TOOH w/ tbg & layed down bit and D.C.'s. RU Halliburton Logging. Ran CBL-GR-CCL from PBTD to surface. EStd TOC @ 1050'. RD Halliburton and SWIFN.

June 7, 1990

Run Injection Test:

Pressure tested 9 5/8" csg to 2000# for 30 minutes with rig pump. Lost 75psi - test ok. RU Halliburton Logging Service & jperforated 2390 - 2530 w/ 2 jspf 120 deg jpahse utilizing 4" casing guns w/ 19 gram charges in 5 runs - all jets fired ok. TIH w/ 9 5/8" Mtn States pkr & 2 7/8" w/s. Set paker @ 2550' & tested tbg to 2000# - held ok. Reset pkr above perfs @ 2352 & swabbed well down to pkr. Rec'd 15 bbls- no fluid entry. Filled tbg w/ lease water & broke down perfs @ 1800#. Stabilized injection rates+ 5.9 BPM @ 1300#, 4.75 BPM @ 1000#, 2.4 BPM @ 500# & 1.0 BPM @ 400#. Removed BOP's and landed tbg on wellhead. SWIFN.

June 8, 1990

Rig Down move out.

Valley Operating, Inc.

Office: (303) 355-3242 Fax: (303) 377-9798

745 Gilpin Street
Denver, Colorado 80218-3633

Via Fax: (801)-359-3940

Re: Federal #14-10 WDW
Uintah County, Utah

March 22, 1994

Mr. Mike Hebertson
Division of Oil, Gas and Mining
State of Utah
Salt Lake City, Utah

Gentlemen:

Having checked the well file for the Federal #14-10 well. Following is the only information which can be located for the recompletion of the well by EPS Resources in June 1990. EPS went into bankruptcy shortly after this and their files have not always been found to be complete.

The well is currently shut in and no immediate plans to perform work on the well are planned. We are however in process with the Vernal BLM to issue a Right of Way permit for this location.

Very Truly Yours

3/22

F. Lee Robinson
Vice President

Re-entry Report

Federal #14-10
(API# 43-047-30566)

BLM Lease # U-59149

June 5, 1990 — Prep to Drill out cement:

MIRU, hooked up circ. equip & lines. R.U. floor and N.U. BOP's, R.U. quik test. tested 10" 3000# BOP's to 3000# pressure for 10 min & 250 # low press for 5 min - ok after repairing leaks. 3 1/2" P.U. 8 3/4" bit & 2 4 3/4" D.C.'s Finished drilling out cement surface plug from 25' - 34' KB (9' hard cement) chased remains of plug to 125'. Layed down 1 jt 27/8" tbg & SWIFN.

June 6, 1990 — Prep to test casing & perforate:

TIH w/ 8 3/4" bit and 2 4 3/4" D.C.'s picking up & rabbiting 2 7/8" work string. Circulated out drilling mud to pit with lease water @ 952', 1900', & 2581'. PBTD. TOOH w/ tbg & layed down bit and D.C.'s. RU Halliburton Logging. Ran CBL-GR-CCL from PBTD to surface. EStd TOC @ 1050'. RD Halliburton and SWIFN.

June 7, 1990 — Run Injection Test:

Pressure tested 9 5/8" csg to 2000# for 30 minutes with rig pump. Lost 75psi - test ok. RU Halliburton Logging Service & jperforated 2390 - 2530 w/ 2 jspf 120 deg jpahse utilizing 4" casing guns w/ 19 gram charges in 5 runs - all jets fired ok. TIH w/ 9 5/8" Mtn States pkr & 2 7/8" w/s. Set paker @ 2550' & tested tbg to 2000# - held ok. Reset pkr above perfs @ 2352 & swabbed well down to pkr. Rec'd 15 bbls- no fluid entry. Filled tbg w/ lease water & broke down perfs @ 1800#. Stabilized injection rates+ 5.9 BPM @ 1300#, 4.75 BPM @ 1000#, 2.4 BPM @ 500# & 1.0 BPM @ 400#. Removed BOP's and landed tbg on wellhead. SWIFN.

June 8, 1990 — Rig Down move out.

Fo[illegible] pproved. OMB No. 2000-0042. Approval expires 9-30-96

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

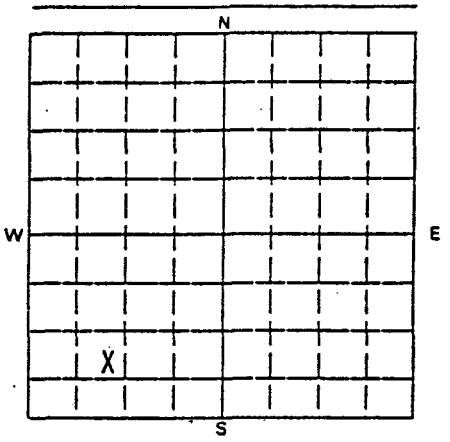
EPA

APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE
Valley Operating, Inc.
745 Gilpin Street
Denver CO 80218

NAME AND ADDRESS OF SURFACE OWNER
Bureau of Land Management, Utah St. Office
324 South State
Salt Lake City UT 84111-2303

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
Utah	Uintah	UT2519-02118

SURFACE LOCATION DESCRIPTION
NE ¼ OF SW ¼ OF SW ¼ SECTION 10 TOWNSHIP 9S RANGE 24E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 714 ft. from (N/S) S Line of quarter section

and 786 ft. from (E/W) W Line of quarter section

WELL ACTIVITY	WELL STATUS	TYPE OF PERMIT
☐ Class I	☐ Operating	☑ Individual
☑ Class II	☑ Modification/Conversion	☐ Area
☑ Brine Disposal	☐ Proposed	Number of Wells ____
☐ Enhanced Recovery		
☐ Hydrocarbon Storage		
☐ Class III		
☐ Other		

Lease Name Dirty Devil Well Number #14-10

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)
Gerrity Oil & Gas Corporation
4100 East Mississippi Ave., #1200
Denver CO 80222

NAME AND ADDRESS OF NEW OPERATOR
Gerrity Oil & Gas Corporation
4100 East Mississippi Ave., #1200
Denver CO 80222

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

Attached are copies of:

1. Blanket Bond No. 6102086004 to cover all wells drilled in the State of Utah and acceptance letter from the State of Utah.
2. Decision letter from the Bureau of Land Management accepting Statewide Oil and Gas Bond and a copy of Bond No. 6102086013.
3. Oil and Gas Lease Bond No. 6102086292 covering Right-of-Way U-71248.
4. EPA Surety Performance Bond No. 6102086283 for Dirty Devil #14-10 injection well and Right-of-Way #U-71248.
5. Annual Report
6. Sundry Notice for Change of Operator
7. Assignment, Conveyance and Bill of Sale from Valley Operating, Inc. to Gerrity Oil & Gas Co.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED
Vice President	[signature]	7/6/85

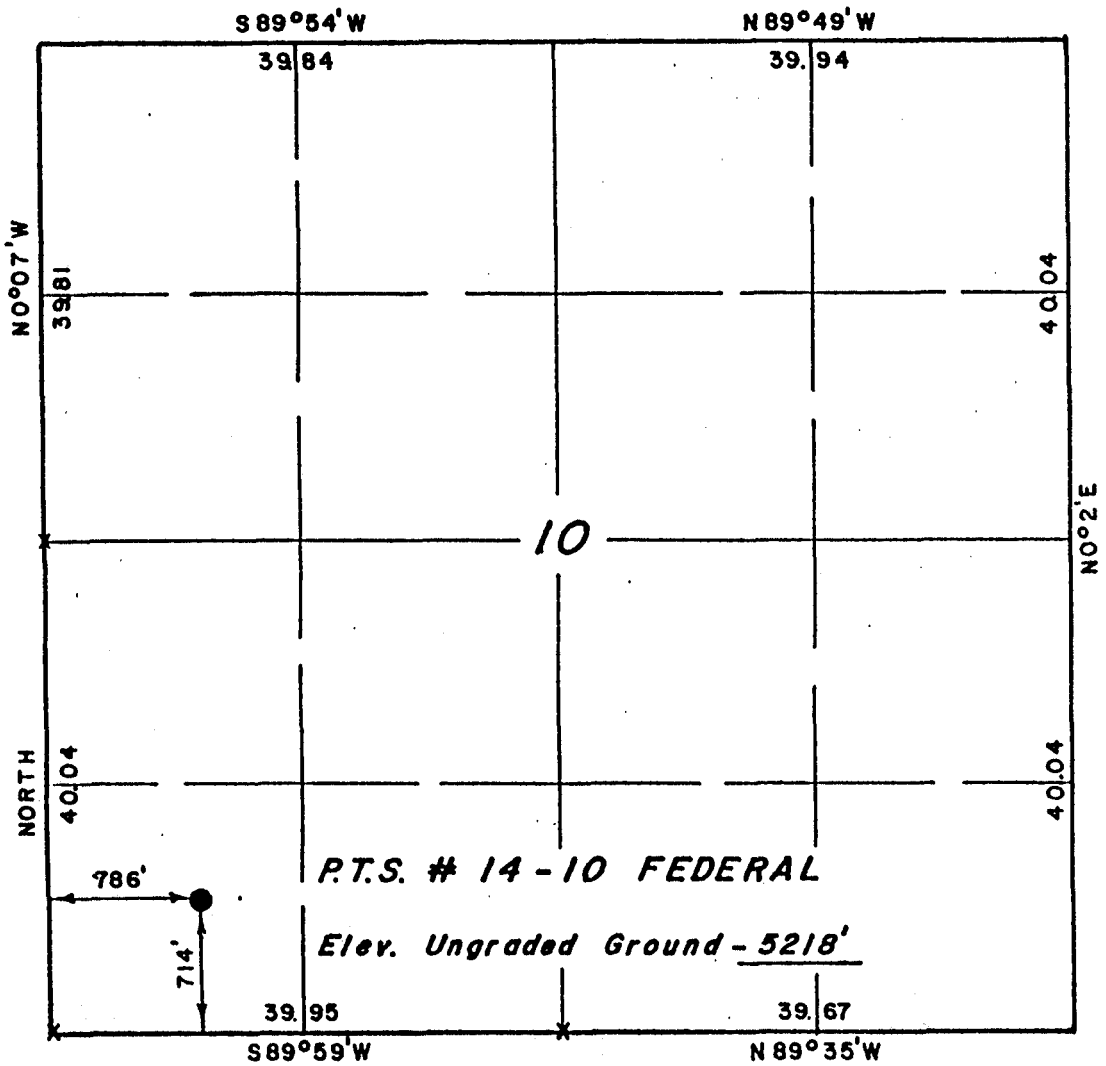
EPA Form 7520-7 (2-84)

PROJECT

PACIFIC TRANSMISSION SUPPLY CO.

Well location, *P.T.S. # 14-10 FEDERAL* located as shown in the SW 1/4 SW 1/4 Section 10, T9S, R24E, S.L.B.&M. Uintah County, Utah.

T9S, R24E, S.L.B.&M.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Dave Stewart

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 12/7/78
PARTY L.D.T. D.S. W.J. S.M	REFERENCES GLO Plat
WEATHER Cold & Windy	FILE PACIFIC TRANSMISSION

GERRITY
OIL & GAS
CORPORATION

July 7, 1995

RECEIVED
JUL 10 1995
DIV. OF OIL, GAS & MINING

VIA COURIER

John Carson
Mail Code 8WM-DW
United States Environmental Protection Agency
Region VIII
999 - 18th Street, #500
Denver, CO 80202-2466

Re: Underground Injection Control (UIC)
Change of Operator: DDU #14-10 SWD Well
(EPA Permit #UT2519-02118)
Dirty Devil Field
Uintah County, Utah

Dear Mr. Carson:

In accordance with Thomas J. Pike's letter of June 21, 1995, regarding the captioned, we enclose the EPA Application to Transfer Permit along with copies of items as follows:

1. Blanket Bond No. 6102086004 to cover all wells drilled in the State of Utah and acceptance letter from the State of Utah.

2. Decision letter from the Bureau of Land Management accepting Statewide Oil and Gas Bond and a copy of Bond No. 6102086013.

3. Oil and Gas Lease Bond No. 6102086292 covering Right-of-Way U-71248.

4. EPA Surety Performance Bond No. 6102086283 for Dirty Devil #14-10 injection well and Right-of-Way #U-71248.

5. Annual Report

6. Sundry Notice for Change of Operator

7. Assignment, Conveyance and Bill of Sale from Valley Operating, Inc. to Gerrity Oil & Gas Corporation.

4100 East Mississippi Avenue
Suite 1200
Denver, Colorado 80222
Fax 303 757.1197
Telephone 303 757.1110

These documents should satisfy requirements 1) and 3) of the June 21, 1995 letter. If you have any questions regarding the Application to Transfer Permit or any of the other attachments, please call me.

Very truly yours,

GERRITY OIL & GAS CORPORATION

Debra Allen-Wittke

Debra Allen-Wittke
Landman

DAW/kkp
Enclosures

c: Hal Smith, w/ encl.
Phil Stalnaker, w/encl.
Keith Crouch
Terry Ruby
Gilbert Hunt, w/encl.
Jerry Kenczka, w/encl.
F. Lee Robinson, w/encl.

FORM 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUL 10 1995
DIV. OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-71248

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
[ ] Oil Well [ ] Gas Well [X] Other

8. Well Name and No.
Federal #14-10

9. API Well No.
43-47-305660 43-047-30566

2. Name of Operator
Gerrity Oil & Gas Corporation

10. Field and Pool, or Exploratory Area
Wildcat

3. Address and Telephone No.
4100 E. Mississippi Ave., #1200, Denver CO 80222, 303/757-1110

11. County or Parish, State
Uintah Co., Utah

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
714 FSL & 786' FWL Sec. 10-T9S-R24E

12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturig
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other **Change of Operator**	[ ] Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised that Gerrity Oil & Gas Corporation is considered to be the operator of the Federal #14-10, SWSW Section 10, Township 9 South, Range 24 East, Uintah County, Utah; and is responsible under the terms and conditions of the Right-of-Way Grant UTU-71248 for the operations conducted upon the lands under said ROW. Bond coverage is provided by the United States Fire Insurance Company.

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Vice President Valley Operating, Inc. Date 07/06/95

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Vice President Gerrity Oil & Gas Corporation Date 07/06/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States andy false, fictitious or fraudulent statements or representations as to any mater within its jurisdiction.

***See Instructions on Reverse Side**

Exhibit "A"

Attached to Assignment, Conveyance and Bill of Sale dated July 6, 1995, between Valley Operating, Inc. and Gerrity Oil & Gas Corporation

Right-of-Way Grant UTU-71248

Effective Date: November 8, 1994

Lands: <u>Township 9 South, Range 24 East</u>
Section 3: SE¼SW¼
Section 10: S½SW¼
Section 18: E½SE¼
Uintah County, Utah

ASSIGNMENT, CONVEYANCE AND BILL OF SALE

Valley Operating, Inc.,whose address is 5840 Dahlia St., Commerce City, CO 80022 ("Assignor"), for and in consideration of Ten Dollars ($10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, by these presents does hereby transfer, assign, and convey unto Gerrity Oil & Gas Corporation, whose address is 4100 E. Mississippi Ave., Suite 1200, Denver, CO 80222 ("Assignee") an undivided seventy-five percent (75%) of Assignor's right, title and interest in and to the following (the "Property"):

A. The rights-of-way and other contracts, licenses or records, and all other interests in and to or that cover or affect all or any part of the land described in Exhibit "A" attached hereto and made a part hereof by this reference;

B. All wells, pipelines, gas gathering systems, compressors, gas transportation systems and other equipment and all other personal property located on the lands described in Exhibit "A", and used in connection with the Property wherever located.

TO HAVE AND TO HOLD the Property, and all hereditaments and appurtenances thereto, subject to the following terms, covenants, and conditions:

1. This Assignment is made without any representation or warranty of title of any kind, express or implied, except Assignor represents and warrants the Property is free and clear of all liens, claims and other encumbrances created or incurred by, through or under Assignor, but not otherwise. Assignor agrees to defend Assignee's title against any such liens, claims and other encumbrances.

2. ASSIGNOR EXPRESSLY DISCLAIMS AND NEGATES AS TO PERSONAL PROPERTY AND FIXTURES (a) ANY IMPLIED OR EXPRESS WARRANTY OF MERCHANTABILITY, (b) ANY IMPLIED OR EXPRESS WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, (c) ANY IMPLIED OR EXPRESS WARRANTY OF CONFORMITY TO MODELS OR SAMPLES OF MATERIALS AND (d) ANY IMPLIED OR EXPRESS WARRANTY OF TITLE, OTHER THAN THE LIMITED WARRANTY TO ASSIGNEE SET FORTH ABOVE.

3. This Assignment is made subject to all applicable terms, covenants and conditions, express or implied, of the rights-of way described in Exhibit "A". Assignee hereby assumes and agrees to perform said terms, covenants and conditions. .

4. The terms, covenants and conditions herein shall be binding upon, and shall inure to the benefit of Assignor and Assignee, and their respective representatives, heirs, successors and assigns. Such terms, covenants and conditions shall be covenants running with the Property.

5. This Assignment is made expressly subject to the terms and provisions contained in that certain Agreement dated effective April 17, 1995, by and among Thermo Cogeneration Partnership L.P., Valley Operating, Inc. and Gerrity Oil & Gas Corporation.

6. This Assignment is specifically subject to Paragraph 6.b of the Agreement referred to above pursuant to which Assignee is entitled to receive one hundred twenty-five percent (125%) of the amount expended by Assignee on the Subsequent Work Program as defined in the Agreement referred to in Paragraph 5. hereof at which time the Joint Operating Agreement

Exhibit "A"

Attached to Assignment, Conveyance and Bill of Sale dated July 6, 1995, between Valley Operating, Inc. and Gerrity Oil & Gas Corporation

Right-of-Way Grant UTU-71248

Effective Date: November 8, 1994

Lands: Township 9 South, Range 24 East
Section 3: SE¼SW¼
Section 10: S½SW¼
Section 18: E½SE¼
Uintah County, Utah

BOND CONDITIONS

The conditions of the foregoing obligations are such that:

1. WHEREAS the principal has an interest in a lease(s) and/or responsibility for operations on a lease(s) issued under the Acts cited in this bond; and

2. WHEREAS the principal and surety agree(s) that with notice to the surety the coverage of this bond, in addition to the present holding(s) of and/or authorization(s) granted to the principal, shall extend to and include:

a. Any lease(s) hereafter issued to or acquired by the obligor/principal, except under individual lease bonds, the coverage is to be confined to the principal's holding(s) and/or authorization(s) granted under the Acts cited in this bond, and to become effective immediately upon such authorization, approval or issuance of a transfer in favor of the principal; and

b. Any transfer(s) of operating rights hereafter entered into or acquired by the principal affecting lease(s); and

c. Any activity subsequent hereto of the principal as operator under a lease(s) issued pursuant to the Acts cited in this bond; and

Provided, That the surety may elect to terminate the additional coverage authorized under this paragraph. Such termination will become effective 30 days after the BLM receives notice of the election to terminate. After the termination becomes effective, the additional interest(s) identified in this paragraph will not be covered by this bond; and

3. WHEREAS the principal and surety agree(s) that with notice to the surety that this bond shall remain in full force and effect notwithstanding: Any assignment(s) of an undivided interest in any part or all of the lands in the lease(s) in which event the assignee(s) shall be considered to be coprincipal(s) on an individual or NPR-A bond as fully and to the same extent as though his/her or their duly, authenticated signatures appeared thereon; and

4. WHEREAS the obligor/surety hereby waives any right to notice of, and agrees that this bond shall remain in full force and effect notwithstanding:

a. Any assignment(s) of 100% of some of the lands described in the lease(s), the bond to remain in full force and effect only as to the lands retained in the lease(s); and

b. Any transfer(s) either in whole or in part, of any or all of the operating rights and further agrees to remain bound under this bond as to the interests in the operating rights retained by the principal; and

c. Any modification of a lease or operating right, or obligation thereunder, whether made or effected by commitment of lease or operating right to unit, cooperative, communitization or storage agreements, or development contracts, suspensions of operations or production, waivers, suspensions or changes in rental, minimum royalty and royalties, compensatory royalty payments, or otherwise, and

d. Any extension of a lease(s) covered by this bond, such coverage to continue without any interruption due to the expiration of the term set forth in the lease(s); and

5. WHEREAS the principal and surety hereby agree(s) that notwithstanding the termination, expiration, cancellation or relinquishment of any lease(s), whether by operation of law or otherwise, the bond shall remain in full force and effect as to the terms and conditions of all remaining leases and obligations covered by the bond; and

6. WHEREAS the principal, as to any lease or part of a lease for land on which he/she is the operator, in consideration of being permitted to furnish this bond in lieu of the lessee(s) or operating rights owner(s), agrees and by these presents does hereby bind himself/herself to fulfill on behalf of each lessee or operating rights owner all obligations of such for the entire leasehold in the same manner and to the same extent as though he/she were lessee or operating rights owner; and

7. WHEREAS the obligor/principal and surety agree(s) that the neglect or forbearance of said lessor in enforcing, as against any responsible party, the payment of rentals or royalties or the performance of any other term or condition of the lease(s) shall not, in any way, release the principal and surety, or either of them from any liability under this bond; and

8. WHEREAS the principal and surety agree(s) that in the event of any default under the lease(s) the lessor may commence and prosecute any claim, suit, or other proceeding against the principal and surety or either of them, without the necessity of joining the lessee(s); and

9. WHEREAS if the principal fails to comply with any provisions of an oil and gas lease, and the noncompliance continues for thirty (30) days after written notice thereof, such lease shall be subject to cancellation and the principal shall also be subject to applicable provisions and penalties of the Federal Oil and Gas Royalty Management Act (30 U.S.C. 1701 et seq.) or the Federal Onshore Oil and Gas Leasing Reform Act. This provision shall not be construed to prevent the exercise by the United States of any other legal and equitable remedy, including waiver of the default.

10. NOW, THEREFORE If said principal, his/her heirs, executors, administrators, successors, or assigns shall in all respects faithfully comply with all of the provisions of the instrument(s) granting rights and interests in Federal lands referred to above, then the obligations are to be void; otherwise to remain in full force and effect.

Signed this 30th day of June, 19 95, in the presence of:

NAMES AND ADDRESSES OF WITNESSES

Diane E. Talbeski, 4100 E Mississippi Ave. Ste 1800 Denver, CO 80222

Linda M. Nikolaeff
c/o RHH of Colorado, Inc.
4100 E. Mississippi Ave., #800, Denver, CO

Gerrity Oil & Gas Corporation

By: James A. Tuell Vice President Controller (L.S.)
(Principal)
4100 E. Mississippi Ave. #800, Denver CO 80222
(Business Address)

By: Tracy J. Crow (L.S.)
United States Fire (Surety) Insurance Company
7500 College Blvd #800, Overland Park KS 682
(Business Address)
Tracy J. Crow, Attorney-in-Fact

If this bond is executed by a corporation, it must bear the seal of that corporation.

POWER OF ATTORNEY
UNITED STATES FIRE INSURANCE COMPANY
PRINCIPAL OFFICE, NEW YORK, N.Y.

KNOW ALL MEN BY THESE PRESENTS: That the UNITED STATES FIRE INSURANCE COMPANY a Corporation duly organized and existing under the laws of the State of New York, and having its administrative offices in the Township of Morris, New Jersey, has made, constituted and appointed, and does by these presents make, constitute and appoint **Linda M. Nikolaeff, Gregory H. Cole, Elaine T. Martella, and Tracy J. Crow of Denver, Colorado, each**

its true and lawful Agent(s) and Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, seal, acknowledge and deliver: Any and all bonds and undertakings SUBJECT TO THE EXCLUSIONS LISTED BELOW:

Bid, Proposal and Final Bonds and Undertakings guaranteeing contracts for the construction or erection of public or private buildings, improvements, and other works.

and to bind the Corporation thereby as fully and to the same extent as if such bonds had been duly executed and acknowledged by the regularly elected officers of the Corporation at its offices in Morris Township, New Jersey, in their own proper persons.

This Power of Attorney limits the act of those named therein to the bonds and undertakings specifically named therein, and they have no authority to bind the Company except in the manner and to the extent therein stated.

This Power of Attorney revokes all previous powers issued in behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the United States Fire Insurance Company has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 27th day of September, 1994.

Attest:
Charles R. Van Buskirk
Assistant Secretary
Charles R. Van Buskirk

UNITED STATES FIRE INSURANCE COMPANY
Richard A. Annese
Vice President
Richard A. Annese

STATE OF NEW JERSEY)
ss.:
COUNTY OF MORRIS)

On this 27th day of September, 1994, before the subscriber, a duly qualified Notary Public of the State of New Jersey, came the above-mentioned Vice President and Assistant Secretary of United States Fire Insurance Company, to me personally known to be the officers described in, and who executed the preceding instrument, and they acknowledged the execution of the same, and being by me duly sworn, deposed and said, that they are the officers of said Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of said Company, and the said Corporate Seal and their signatures as officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Company.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal at the Township of Morris, the day and year first above written.

(Signed) Deborah M. Greco
(Seal) Notary Public

DEBORAH M. GRECO
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES JULY 11, 1999

DEBORAH M. GRECO NOTARY PUBLIC NEW JERSEY

This Power of Attorney is granted pursuant to Article IV of the By-Laws of the UNITED STATES FIRE INSURANCE COMPANY as now in full force and effect.

ARTICLE IV Execution of Instruments. "The Chairman of the Board, Vice-Chairman of the Board, President, or any Vice-President, in conjunction with the Secretary, or any Secretary, if more than one shall be appointed by the Board, or an Assistant Secretary, shall have power on behalf of the Corporation:

(a) to execute, affix the corporate seal manually or by facsimile to, acknowledge, verify and deliver any contracts, obligations, instruments and documents whatsoever in connection with its business including, without limiting the foregoing, any bonds, guarantees, undertakings, recognizances, powers of attorney or revocations of any powers of attorney, stipulations, policies of insurance, deeds, leases, mortgages, releases, satisfactions and agency agreements;

(b) to appoint, in writing, one or more persons for any or all of the purposes mentioned in the preceding paragraph (a), including affixing the seal of the Corporation."

This Power of Attorney is signed and sealed under and by the authority of Article III, Section 9 of the By-Laws of the UNITED STATES FIRE INSURANCE COMPANY as now in full force and effect.

ARTICLE III Section 9 Facsimile Signatures. "The signature of any officer authorized by the Corporation to sign any bonds, guarantees, undertakings, recognizances, stipulations, powers of attorney or revocations of any powers of attorney and policies of insurance issued by the Corporation may be printed facsimile, lithographed, or otherwise produced . . . The Corporation may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Corporation, notwithstanding the fact that he may have ceased to be such at the time when such instruments shall be issued."

CERTIFICATE

State of New Jersey
County of Morris

I, the undersigned, Assistant Secretary of UNITED STATES FIRE INSURANCE COMPANY, DO HEREBY CERTIFY that the foregoing POWER OF ATTORNEY remains in full force and effect and has not been revoked and furthermore that the above quoted abstracts of Article IV and Article III, Section 9 of the By-Laws of the Corporation are now in full force and effect.

In Testimony Whereof, I have hereunto subscribed my name and affixed the corporate seal of the said Company, this 30th day of June, 19 95

By Herbert H. Linder
Assistant Secretary
Herbert H. Linder

Sample Use
Comparable Language Accepted

SURETY PERFORMANCE BOND

U.S. ENVIRONMENTAL PROTECTION AGENCY
UNDERGROUND INJECTION CONTROL
FINANCIAL RESPONSIBILITY REQUIREMENT

TO: Regional Administrator
ATTN: Underground Injection Control 8WM-DN-UIC
Financial Responsibility
U.S. EPA Region VIII
999 18th Street, Suite 500
Denver, Colorado 80202-2466

BOND COVERS THE PLUGGING OF INJECTION WELLS

Date bond executed: June 30, 1995

Effective Date: June 30, 1995

Principal: Gerrity Oil & Gas Corporation
(Legal name of owner or operator)

4100 W. Mississippi Ave. #1200, Denver, CO 80222
(Business address of owner or operator)

Type of organization: Corporation
(Individual, joint venture, partnership, or corporation)

State of incorporation: Colorado

Surety(ies): United States Fire Insurance Company
(Name)
7500 College Blvd., #800, Overland Park, KS 66210
(Business Address)

EPA Identification number, name, address, and plugging and abandonment amount(s) for each injection well guaranteed by this bond. (Indicate plugging and abandonment amounts for each well. Attach separate list if necessary.)

Injection Well Information	Plug & Abandon Amount
Dirty Devil #14-10 ROW # U-71248	$16,200.00

Total penal sum of bond: $ 16,200.00

Surety's bond number: 6102086283

KNOW ALL PERSONS BY THESE PRESENTS, That we, the Principal and Surety(ies) hereto are firmly bound to the U.S. Environmental Protection Agency (hereinafter called EPA), in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is it set forth opposite the name of such Surety, but if no limit of lability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS said Principal is required, under the Underground Injection Control Regulations, as amended, to have a permit or comply with provisions to operate under rule for each injection well identified above, and

WHEREAS said Principal is required to provide financial assurance for plugging and abandonment as a condition of the permit or approval to operate under rule, and

WHEREAS said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of this obligation are such that if the Principal shall faithfully perform plugging and abandonment, whenever required to do so, of each injection well for which this bond guarantees plugging and abandonment, in accordance with the plugging abandonment plan and other requirements of the permit or provisions for operating under rule and other requirements of the permit or provisions for operating under rule as may be amended, pursuant to all applicable laws, statutes, rules and regulations, as such laws, statutes, rules, and regulations may be amended,

Or, if the Principal shall provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain the EPA Regional Administrator's written approval of such assurance, within 90 days after the date of notice of cancellation is received by both the Principal and the EPA Regional Administrator(s), from the Surety(ies), then this obligation shall be null and void. Otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above.

Upon notification by an EPA Regional Administrator that the Principal has been found in violation of the plugging and abandonment requirements of 40 CFR 144, for an injection well which

this bond guarantees performances of plugging and abandonment, the Surety(ies) shall either perform plugging and abandonment with the plugging and abandonment plan and other permit conditions or provisions for operating under rule and other requirements or place the amount for plugging and abandonment into a standby trust fund as directed by the EPA Regional Administrator.

Upon notification by an EPA Regional Administrator that the Principal has failed to provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain written approval of such assurance from the EPA Regional Administrator(s) during the 90 days following receipt by both the Principal and the EPA Regional Administrator(s) of a notice of cancellation of the bond, the Surety(ies) shall place funds in the amount guaranteed for the injection well(s) into the standby trust fund as directed by the EPA Regional Administrator.

The Surety(ies) hereby waive(s) notification of amendments to plugging and abandonment plans, permits, applicable laws, statutes, rules, and regulations and agrees that no such amendment shall in any way alleviate its (their) obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice by certified mail to the owner or operator and to the EPA Regional Administrator(s) for the Region(s) in which the injection well(s) is (are) located, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the EPA Regional Administrator(s), as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies); provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the EPA Regional Administrator(s) of the EPA Region(s) in which the bonded injection well(s) is (are) located.

(The following paragraph is an optional rider that may be included but is not required.)

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly so that it guarantees a new plugging and abandonment amount, provided that the penal sum does not increase by more than 20% in any one year, and no decrease in the penal sum takes place without the written permission of the EPA Regional Administrator(s).

IN WITNESS WHEREOF, The Principal and Surety(ies) have executed this Performance Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies) and that the wording on this surety bond is identical to the wording specified in 40 CFR 144.70(c), as such regulation was constituted on the date this bond was executed.

PRINCIPAL:

Gerrity Oil & Gas Corporation
(Name)

4100 E. Mississippi Ave., #1200
Denver, CO 80222
(Address)

James A. Tuell
(Signature)

Vice President Controller
(Title)

Corporate Seal

State of Incorporation

$ 633.00
Bond Premium

CORPORATE SURETY(IES):

United States Fire Insurance Company
(Name)

7500 College Blvd., #800
Overland Park, KS 66210
(Address)

c/o Rollins Hudig Hall of Colorado
4100 E. Mississippi Ave., #800
Denver, CO 80222 ***(303)758-7688
(Surety Telephone Number)

(Signature)

Tracy J. Crow, Attorney-in-Fact
(Title)

Corporate Seal

State of Incorporation

$
Liability Limit

(For every co-surety, provide signature(s), corporate seal, and other information in the same manner as for Surety above.)

This Power of Attorney is granted pursuant to Article IV of the By-Laws of the UNITED STATES FIRE INSURANCE COMPANY as now in full force and effect.

ARTICLE IV Execution of Instruments. "The Chairman of the Board, Vice-Chairman of the Board, President, or any Vice-President, in conjunction with the Secretary, or any Secretary, if more than one shall be appointed by the Board, or an Assistant Secretary, shall have power on behalf of the Corporation:

(a) to execute, affix the corporate seal manually or by facsimile to, acknowledge, verify and deliver any contracts, obligations, instruments and documents whatsoever in connection with its business including, without limiting the foregoing, any bonds, guarantees, undertakings, recognizances, powers of attorney or revocations of any powers of attorney, stipulations, policies of insurance, deeds, leases, mortgages, releases, satisfactions and agency agreements;

(b) to appoint, in writing, one or more persons for any or all of the purposes mentioned in the preceding paragraph (a), including affixing the seal of the Corporation."

This Power of Attorney is signed and sealed under and by the authority of Article III, Section 9 of the By-Laws of the UNITED STATES FIRE INSURANCE COMPANY as now in full force and effect.

ARTICLE III Section 9 Facsimile Signatures. "The signature of any officer authorized by the Corporation to sign any bonds, guarantees, undertakings, recognizances, stipulations, powers of attorney or revocations of any powers of attorney and policies of insurance issued by the Corporation may be printed facsimile, lithographed, or otherwise produced . . . The Corporation may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Corporation, notwithstanding the fact that he may have ceased to be such at the time when such instruments shall be issued."

CERTIFICATE

State of New Jersey
County of Morris

I, the undersigned, Assistant Secretary of UNITED STATES FIRE INSURANCE COMPANY, DO HEREBY CERTIFY that the foregoing POWER OF ATTORNEY remains in full force and effect and has not been revoked and furthermore that the above quoted abstracts of Article IV and Article III, Section 9 of the By-Laws of the Corporation are now in full force and effect.

In Testimony Whereof, I have hereunto subscribed my name and affixed the corporate seal of the said Company, this 30th day of June, 19 95

By Herbert H. Linder
Assistant Secretary
Herbert H. Linder

Post-it™ brand fax transmittal memo 7671	# of pages ▸ 2
To Lisha Cordova	From Joy Whiting
Co.	Co.
Dept.	Phone #
Fax #	Fax #

2800
UTU-71248
(U-082)

AUG 0 2 1995

DECISION

Waldo Ackerman Gerrity Oil and Gas Corporation 4100 East Mississippi Avenue, #1200 Denver, Colorado 80222	:	Right-of-Way UTU-71248

Assignment Approved

Federal right-of-way UTU-71248 was granted to Valley Operating, Inc. on November 8, 1994, authorizing salt water disposal well #14-10 and the disposal of produced water from specified wells into the #14-10 well, pursuant to Title V of the Federal Land Policy and Management Act of October 21, 1976. On July 13, 1995, Gerrity Oil and Gas Corporation filed a request for the transfer of this right-of-way from Valley Operating, Inc.

Gerrity Oil and Gas Corporation has met the requirements for transfer in accordance with 43 CFR 2803.6-3 and 2803.6-4. A surety performance bond (No. 6102086283) in the amount of $16,200 has been filed with and approved by the Environmental Protection Agency to cover liability for the plugging and abandonment of the well should it become necessary. Therefore, no additional bonding will be required for the federal right-of-way as specified under Section 4. j. of the grant terms. Rental requirements for the right-of-way have been satisfied through the period of December 31, 1995. All requirements having been met by Gerrity Oil and Gas Corporation, the assignment is hereby approved, subject to the applicable regulations under 43 CFR Part 2800 and the terms and conditions of the original right-of-way, which include but are not limited to the following:

1) Disposal of produced water under this right-of-way is limited to those wells listed within the grant. Disposal from any additional wells not specifically authorized will require subsequent written approval from the authorized officer of the Bureau of Land Management.

2) The holder shall submit an annual fluid injection report to the Bureau of Land Management, Vernal District Office, at the completion of each calendar year for the purposes of rental calculation. The report shall disclose the amounts of water disposed of from those wells authorized under this right-of-way or amendments thereto.

3) Rental for the right-of-way is set at $200 per year for the well and physical land area covered by the right-of-way and an additional $.05 per barrel of water disposed of into the well. Because the amount of water disposed of will fluctuate annually, an additional

base rental of $200 will be required in advance of the calendar year and readjusted at the end of each year, based on the annual fluid injection reports submitted in accordance with the conditions of the right-of-way.

4) The right-of-way authorizes the SWD well located on a 200-foot by 350-foot well pad, a 30-foot by 30-foot reserve pit, and use of existing roads located outside of lease and/or unit boundaries for water transport. Any additional construction or use that is not in accord with the terms and conditions of the grant cannot be initiated without the prior written approval of the authorized officer.

Please note also that no disposal activities can occur under this right-of-way until the appropriate approvals from the Environmental Protection Agency and/or the Utah Division of Oil, Gas and Mining have been secured, and copies have been provided to this office. The additional $200 rental discussed under 3) above will not be required until these approvals authorizing utilization of the well have been secured.

We have enclosed copies of the right-of-way grant and a serial register page for your information and records. We have also enclosed the photocopy of the oil and gas lease bond (Bond No. 6102086292) provided to our office with the assignment request as it is not required for this action. We have been unable to locate the original, however if we do, it will be returned to you unapproved. It is the holder's responsibility to adhere to the terms and conditions of the right-of-way grant. Therefore, if there are any terms or conditions that are not clear to you, please contact Joy Wehking of our office at 801-781-4439 for clarification.

Paul Andrews
Area Manager,
Book Cliffs Resource Area

Enclosures:
As stated

cc: Valley Operating, Inc.
745 Gilpin Street
Denver, CO 82018

JWehking:jw:7/31/95

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

RECEIVED
MAY - 1 1995
Rollins Hudig Hall
of Colorado, Inc.

April 26, 1995

Tracy J. Crow, CISR
Rollins Hudig Hall of Colorado, Inc.
P. O. Box 17229
Denver, Colorado 80217-0229

Re: Bond No. 610 2086004 ($80,000) Issued by United States Fire Insurance Company, as Surety in behalf of Gerrity Oil & Gas Corporation, as Principal.

Dear Ms. Crow:

In response to your request, please be advised that the Division does hereby accept the above referenced surety bond.

Gerrity Oil & Gas Corporation ("Gerrity") has no pending operations nor any liability associated with operations on fee land within the state at this time. However, it is our understanding that Gerrity intends to operate wells in Utah sometime soon.

Should you have any questions regarding this matter, please contact me or Lisha Cordova at (801)538-5340.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

lec
Enclosure
cc: United States Fire Insurance Company
Gerrity Oil & Gas Corporation
James W. Carter, Director
Bond File
Correspondence File/ldc

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
324 South State, Suite 301
Salt Lake City, Utah 84111-2303

IN REPLY REFER TO:
3104
BLM Bond No. UT1014
(UT-923)

APR 2 6 1995

DECISION

Principal:	:	Bond Amount:	$25,000
Gerrity Oil & Gas Corporation	:		
4100 E. Mississippi Ave., Ste. 1200	:	Bond Type:	Statewide Oil and Gas
Denver, CO 80222	:		
	:		
Surety:	:	Surety Bond No.:	610 2086013
United States Fire Insurance Co.	:		
7500 College Blvd., Suite 800	:	BLM Bond No.:	UT1014
Overland Park, KS 66210	:		

Statewide Oil and Gas Bond Accepted

A $25,000 statewide oil and gas bond covering the above principal was filed in this office April 25, 1995. The bond has been examined and is accepted effective the date of filing.

The bond constitutes coverage of all operations conducted by the principal on all Federal leases in the State of Utah. It provides coverage of the principal where that principal has interest in, and/or responsibility for operations on, leases issued under the authority of any of the Acts cited on the bond form. Federal leases do not include Indian leases.

The bond will be maintained by this office. Termination of liability under the subject bond will be permitted only after this office is satisfied that there is no outstanding liability against the bond or satisfactory replacement bond coverage has been furnished.

If you have any questions, please call Dianne Wright of our office at (801)539-4114.

Robert Lopez
Chief, Branch of Mineral
Leasing Adjudication

cc: Rollins Hudig Hall of Colorado
Attn: Linda M. Nikolaeff
P.O. Box 17229
Denver, CO 80217-0229

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Bond NO. 610 2086004

$3,125. 3 year ppd Premium

SURETY BOND - FORM 4-A

KNOW ALL MEN BY THESE PRESENTS:

That we GERRITY OIL & GAS CORPORATION (operator name) as Principal,

and UNITED STATES FIRE INSURANCE COMPANY (surety name) as Surety, duly authorized and qualified to do business in the State of Utah, are held and firmly bound unto the State of Utah in the sum of:

Eighty Thousand and No/100------- dollars ($ 80,000----------) lawful money of the United States, payable to the Director of the Division of Oil, Gas and Mining, as agent of the State of Utah, for the use and benefit of the State of Utah for the faithful payment of which we bind ourselves, our heirs, executors, administrators and successors, jointly and severally by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the principal is or will be engaged in drilling, redrilling, deepening, repairing, operating, and plugging and abandonment a well or wells and restoring the well site or sites in the State of Utah for the purposes of oil or gas production and/or the injection and disposal of fluids in connection therewith for the following described land or well:

XX Blanket Bond: To cover all wells drilled in the State of Utah

____ Individual Bond: Well No. _____

Section ____ Township ____ Range ____

_____ County, Utah

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the laws of the State of Utah and the rules, orders and requirements of the Board of Oil, Gas and Mining of the State of Utah, including, but not limited to the proper plugging and abandonment of wells and well site restoration, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

IN TESTIMONY WHEREOF, said Principal has hereunto subscribed his or their names or has caused this instrument to be signed by its duly authorized officers and its corporate seal to be affixed this 19th day of April, 19 95.

(Seal)

GERRITY OIL & GAS CORPORATION
Principal

By James A. Tuell · Vice President Controller
Name and Title

IN TESTIMONY WHEREOF, said Surety has caused this instrument to be signed by its duly authorized officers and its corporate seal to be affixed this 19th day of April, 19 95.

(Seal)

UNITED STATES FIRE INSURANCE COMPANY
Surety (Attach Power of Attorney)

By Linda M. Nikolaeff
Linda M. Nikolaeff Name and Title / Attorney-in-Fact
7500 College Blvd, Suite 800
Surety's Mailing Address
Overland Park, KS 66210

(3/89)

COPY

Form 3000-4
(June 1988)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bond Number 610 2086013

OIL AND GAS OR GEOTHERMAL LEASE BOND

Act of February 25, 1920 (30 U.S.C. 181 et seq.)
Act of August 7, 1947 (30 U.S.C. 351-359)
Department of the Interior Appropriations Act, FY 1981 (42 U.S.C. 6508)
Act of December 24, 1970 (30 U.S.C. 1001-1025)
Other Oil and Gas and Geothermal Leasing Authorities as Applicable

Lease Serial Number (For Individual Bond Only)

CHECK ONE: [XX] OIL AND GAS [ ] GEOTHERMAL RESOURCES

CHECK ONE:
[XX] SURETY BOND

KNOW ALL BY THESE PRESENTS, THAT GERRITY OIL & GAS CORPORATION (name)

of 4100 E. Mississippi Avenue, Suite 1200, Denver, CO 80222 (address)

as principal, and UNITED STATES FIRE INSURANCE COMPANY (name)

of 7500 College Blvd, Suite 800 Overland Park, KS 66210 (address), as surety,

are held and firmly bound unto the United States of America in the sum of Twenty-five Thousand and No/00

dollars ($ 25,000.00----------),

lawful money of the United States, which may be increased or decreased by a rider hereto executed in the same manner as this bond.

[ ] PERSONAL BOND

COPY

KNOW ALL BY THESE PRESENTS, That _____ (name)

of _____ (address), as principal, is held and firmly

bound unto the United States of America in the sum of _____

_____ dollars ($ _____), lawful money of the United States which sum may be

increased or decreased by a rider hereto executed in the same manner as this bond.

The principal, in order to more fully secure the United States in the payment of the aforesaid sum, hereby pledges as security therefore United States negotiable securities of a par value equal to the amount specified. The principal, pursuant to the authority conferred by Section 1 of the Act of September 13, 1982 (31 U.S.C. 9303), does hereby constitute and appoint the Secretary of the Interior to act as his attorney. The interest accruing on the United States securities deposited, in the absence of any default in the performance of any of the conditions, or stipulations set forth in this bond and the instrument(s) granting rights and interests in Federal lands, must be paid to the principal. The principal hereby for himself/herself, any heirs, executors, administrators, successors, and assigns, joint and severally, ratifies and confirms whatever the Secretary shall do by virtue of these presents.

The principal/surety shall apply this bond or the Secretary shall transfer this deposit as security for the faithful performance of any and all of the conditions and stipulations as set forth in this bond and the instruments granting rights and interests in Federal lands. In the case of any default in the performance of the conditions and stipulations of such undertaking, it is agreed that: (1) for a Surety Bond, the surety/principal shall apply the bond or any portion thereof; (2) for a Personal Bond, the Secretary shall have full power to assign, appropriate, apply or transfer the deposit or any portion thereof, to the satisfaction of any damages, assessments, late payment charges, penalties, or deficiencies arising by reason of such default.

This bond is required for the use and benefit of (1) the United States; (2) the owner of any of the land subject to the coverage of this bond, who has a statutory right to compensation in connection with a reservation of the oil and gas and geothermal deposits to the United States; (3) any lessee, permittee, or contractor, under a lease, permit, or resource sale contract issued, or to be issued, by the United States covering the same land subject to this bond, covering the use of the surface or the prospecting for, or the development of other mineral deposits in any portion of such land, to be paid to the United States. For such payment, well and truly to be made, we bind ourselves and each of our heirs, executors, administrators, successors, and assigns, jointly and severally.

This bond shall cover all surface disturbing activities related to drilling operations on a Federal leasehold(s) in accordance with authorization(s) granted under the Acts cited above for:

CHECK ONE:

[ ] NATIONWIDE BOND — Operations conducted by or on behalf of the principal(s) or on the leasehold(s) of the principal(s) in the United States including the National Petroleum Reserve in Alaska (NPR-A) when a rider sufficient to bring the amount in conformance with 43 CFR 3134 is provided, and provided a rider is obtained, also coverage of multiple exploration operations.

[XX] STATEWIDE BOND — Operations conducted by or on behalf of the principal(s) or on the leasehold(s) of the principal(s), except the NPR-A, and, provided a rider is obtained, also coverage of multiple exploration operations within the single state of Utah.

[ ] INDIVIDUAL BOND — Operations conducted by or on behalf of the principal or on the leasehold of the principal on the single lease identified by the serial number above.

NATIONAL PETROLEUM RESERVE IN ALASKA (NPR-A) BOND — This bond shall cover:

[ ] NPR-A LEASE BOND — The terms and conditions of a single lease.

[ ] NPR-A WIDE BOND — The terms and conditions of all leases, and provided a rider is obtained, coverage of multiple exploration operations.

(Continued on reverse)

BOND CONDITIONS

The conditions of the foregoing obligations are such that:

1. WHEREAS the principal has an interest in a lease(s) and/or responsibility for operations on a lease(s) issued under the Acts cited in this bond; and

2. WHEREAS the principal and surety agree(s) that with notice to the surety the coverage of this bond, in addition to the present holding(s) of and/or authorization(s) granted to the principal, shall extend to and include:

a. Any lease(s) hereafter issued to or acquired by the obligor/principal, except under individual lease bonds, the coverage is to be confined to the principal's holding(s) and/or authorization(s) granted under the Acts cited in this bond, and to become effective immediately upon such authorization, approval or issuance of a transfer in favor of the principal; and

b. Any transfer(s) of operating rights hereafter entered into or acquired by the principal affecting lease(s); and

c. Any activity subsequent hereto of the principal as operator under a lease(s) issued pursuant to the Acts cited in this bond; and

Provided, That the surety may elect to terminate the additional coverage authorized under this paragraph. Such termination will become effective 30 days after the BLM receives notice of the election to terminate. After the termination becomes effective, the additional interest(s) identified in this paragraph will not be covered by this bond; and

3. WHEREAS the principal and surety agree(s) that with notice to the surety that this bond shall remain in full force and effect notwithstanding: Any assignment(s) of an undivided interest in any part or all of the lands in the lease(s) in which event the assignee(s) shall be considered to be coprincipal(s) on an individual or NPR-A bond as fully and to the same extent as though his/her or their duly, authenticated signatures appeared thereon; and

4. WHEREAS the obligor/surety hereby waives any right to notice of, and agrees that this bond shall remain in full force and effect notwithstanding:

a. Any assignment(s) of 100% of some of the lands described in the lease(s), the bond to remain in full force and effect only as to the lands retained in the lease(s); and

b. Any transfer(s) either in whole or in part, of any or all of the operating rights and further agrees to remain bound under this bond as to the interests in the operating rights retained by the principal; and

c. Any modification of a lease or operating right, or obligation thereunder, whether made or effected by commitment of lease or operating right to unit, cooperative, communitization or storage agreements, or development contracts, suspensions of operations or production, waivers, suspensions or changes in rental, minimum royalty and royalties, compensatory royalty payments, or otherwise; and

d. Any extension of a lease(s) covered by this bond, such coverage to continue without any interruption due to the expiration of the term set forth in the lease(s); and

5. WHEREAS the principal and surety hereby agree(s) that notwithstanding the termination, expiration, cancellation or relinquishment of any lease(s), whether by operation of law or otherwise, the bond shall remain in full force and effect as to the terms and conditions of all remaining leases and obligations covered by the bond; and

6. WHEREAS the principal, as to any lease or part of a lease for land on which he/she is the operator, in consideration of being permitted to furnish this bond in lieu of the lessee(s) or operating rights owner(s), agrees and by these presents does hereby bind himself/herself to fulfill on behalf of each lessee or operating rights owner all obligations of such for the entire leasehold in the same manner and to the same extent as though he/she were lessee or operating rights owner; and

7. WHEREAS the obligor/principal and surety agree(s) that the neglect or forbearance of said lessor in enforcing, as against any responsible party, the payment of rentals or royalties or the performance of any other term or condition of the lease(s) shall not, in any way, release the principal and surety, or either of them from any liability under this bond; and

8. WHEREAS the principal and surety agree(s) that in the event of any default under the lease(s) the lessor may commence and prosecute any claim, suit, or other proceeding against the principal and surety or either of them, without the necessity of joining the lessee(s); and

9. WHEREAS if the principal fails to comply with any provisions of an oil and gas lease, and the noncompliance continues for thirty (30) days after written notice thereof, such lease shall be subject to cancellation and the principal shall also be subject to applicable provisions and penalties of the Federal Oil and Gas Royalty Management Act (30 U.S.C. 1701 et seq.) or the Federal Onshore Oil and Gas Leasing Reform Act. This provision shall not be construed to prevent the exercise by the United States of any other legal and equitable remedy, including waiver of the default.

10. NOW, THEREFORE If said principal, his/her heirs, executors, administrators, successors, or assigns shall in all respects faithfully comply with all of the provisions of the instrument(s) granting rights and interests in Federal lands referred to above, then the obligations are to be void; otherwise to remain in full force and effect.

Signed this 19th day of April, 19 95, in the presence of:

NAMES AND ADDRESSES OF WITNESSES

x William E. Talivaldis

x Ivel McAllister

Elaine T. Martella

4100 E. Mississippi Ave #800 Denver, CO 80222

James A. Tuell, Vice President Controller

GERRITY OIL & GAS CORPORATION (L.S.)
(Principal)

4100 E. Mississippi Ave#1200 Denver, CO 80222
(Business Address)

Linda M. Nikolaeff (L.S.)
(Surety) Attorney-in-Fact

Linda M. Nikolaeff
c/o Rollins Hudig Hall of Colorado
4100 E. Mississippi Ave #800 Denver, CO 80222
(Business Address)

If this bond is executed by a corporation, it must bear the seal of that corporation.

Form 3000-4
(June 1988)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL AND GAS OR GEOTHERMAL LEASE BOND

Act of February 25, 1920 (30 U.S.C. 181 et seq.)
Act of August 7, 1947 (30 U.S.C. 351-359)
Department of the Interior Appropriations Act, FY 1981 (42 U.S.C. 6508)
Act of December 24, 1970 (30 U.S.C. 1001-1025)
Other Oil and Gas and Geothermal Leasing Authorities as Applicable

Bond Number
6102086292

Lease Serial Number (For Individual Bond Only)
U-71248

CHECK ONE: ☒ OIL AND GAS ☐ GEOTHERMAL RESOURCES

CHECK ONE:
☒ SURETY BOND

KNOW ALL BY THESE PRESENTS, THAT Gerrity Oil & Gas Corporation (name)

of 4100 E. Mississippi Ave., #1200, Denver, CO 80222 (address)

as principal, and United States Fire Insurance Company (name)

of 7500 College Boyd., #800, Overland Park, KS 66210 (address), as surety,

are held and firmly bound unto the United States of America in the sum of Fifteen Thousand and No/100---------- ---------- dollars ($ 15,000.00----------), lawful money of the United States, which may be increased or decreased by a rider hereto executed in the same manner as this bond.

☐ PERSONAL BOND

KNOW ALL BY THESE PRESENTS, That _____ (name)

of _____ (address), as principal, is held and firmly bound unto the United States of America in the sum of _____ _____ dollars ($ _____), lawful money of the United States which sum may be increased or decreased by a rider hereto executed in the same manner as this bond.

The principal, in order to more fully secure the United States in the payment of the aforesaid sum, hereby pledges as security therefore United States negotiable securities of a par value equal to the amount specified. The principal, pursuant to the authority conferred by Section 1 of the Act of September 13, 1982 (31 U.S.C. 9303), does hereby constitute and appoint the Secretary of the Interior to act as his attorney. The interest accruing on the United States securities deposited, in the absence of any default in the performance of any of the conditions, or stipulations set forth in this bond and the instrument(s) granting rights and interests in Federal lands, must be paid to the principal. The principal hereby for himself/herself, any heirs, executors, administrators, successors, and assigns, joint and severally, ratifies and confirms whatever the Secretary shall do by virtue of these presents.

The principal/surety shall apply this bond or the Secretary shall transfer this deposit as security for the faithful performance of any and all of the conditions and stipulations as set forth in this bond and the instruments granting rights and interests in Federal lands. In the case of any default in the performance of the conditions and stipulations of such undertaking, it is agreed that: (1) for a Surety Bond, the surety/principal shall apply the bond or any portion thereof; (2) for a Personal Bond, the Secretary shall have full power to assign, appropriate, apply or transfer the deposit or any portion thereof, to the satisfaction of any damages, assessments, late payment charges, penalties, or deficiencies arising by reason of such default.

This bond is required for the use and benefit of (1) the United States; (2) the owner of any of the land subject to the coverage of this bond, who has a statutory right to compensation in connection with a reservation of the oil and gas and geothermal deposits to the United States; (3) any lessee, permittee, or contractor, under a lease, permit, or resource sale contract issued, or to be issued, by the United States covering the same land subject to this bond, covering the use of the surface or the prospecting for, or the development of other mineral deposits in any portion of such land, to be paid to the United States. For such payment, well and truly to be made, we bind ourselves and each of our heirs, executors, administrators, successors, and assigns, jointly and severally.

This bond shall cover all surface disturbing activities related to drilling operations on a Federal leasehold(s) in accordance with authorization(s) granted under the Acts cited above for:

CHECK ONE:

☐ NATIONWIDE BOND — Operations conducted by or on behalf of the principal(s) or on the leasehold(s) of the principal(s) in the United States including the National Petroleum Reserve in Alaska (NPR-A) when a rider sufficient to bring the amount in conformance with 43 CFR 3134 is provided, and provided a rider is obtained, also coverage of multiple exploration operations.

☐ STATEWIDE BOND — Operations conducted by or on behalf of the principal(s) or on the leasehold(s) of the principal(s), except the NPR-A, and, provided a rider is obtained, also coverage of multiple exploration operations within the single state of _____.

☒ INDIVIDUAL BOND — Operations conducted by or on behalf of the principal or on the leasehold of the principal on the single lease identified by the serial number above.

NATIONAL PETROLEUM RESERVE IN ALASKA (NPR-A) BOND — This bond shall cover:

☐ NPR-A LEASE BOND — The terms and conditions of a single lease.

☐ NPR-A WIDE BOND — The terms and conditions of all leases, and provided a rider is obtained, coverage of multiple exploration operations.

(Continued on reverse)

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:
1-LEC / GIL
2-LWP 7-PL
3-DTS 8-SJ
4-VLO 9-FILE
5-RJF
6-LWP

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XXX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-6-95)

TO (new operator) GERRITY OIL & GAS CORPORATION
(address) 4100 E MISSISSIPPI AVE #1200
DENVER CO 80222
TERRY RUBY, VP
phone (303) 757-1110
account no. N 6355 (7-11-95)

FROM (former operator) VALLEY OPERATING INC
(address) 745 GILPIN ST
DENVER CO 80218-3633
LEE ROBINSON
phone (303) 289-7720
account no. N 8270

Well(s) (attach additional page if needed):

Name	API	Entity	Sec	Twp	Rng	Lease Type
FEDERAL 14-10/SGW	43-047-30566	11478	10	9S	24E	U59149

OPERATOR CHANGE DOCUMENTATION

Lec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 7-10-95)

Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 7-10-95)

Lec 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: #177035. (eff. 4-20-95)

Lec 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-21-95)

Lwp 6. Cardex file has been updated for each well listed above. 8-23-95

Lwp 7. Well file labels have been updated for each well listed above. 8-23-95

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-21-95)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

✓ 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

N/A/✓ 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

DTS 8/29/95

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: August 24 19 95.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950821 Blm/Vernal Aprv. 8-2-95.

WE71/34-35

STATE OF UTAH
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

INJECTION WELL - PRESSURE TEST

Test Date: 7-12-95 Well Owner/Operator: Gerity Oil

Disposal Well: X Enhanced Recovery Well: _____ Other: _____

API No.: 43-047-30566 Well Name/Number: Federal 14-10

Section: 10 Township: 9S Range: 24E

Initial Conditions:

Tubing - Rate: _____ Pressure: _____ psi

Casing/Tubing Annulus - Pressure: _____ psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	670	
5	660	
10	660	
15	660	
20		
25		
30		

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi

Casing/Tubing Annulus Pressure: 0 psi

REMARKS: Well was pressured to 670 psi - Bled off to 660 psi in 5 min. Held pressure at 660 psi for 15 min. (Reported to D. Jones by Dave Hackford via telephone) Passed MIT.

Operator Representative

Dave for Dave Hackford.
DOGM Witness

FORM 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-71248

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
[ ] Oil Well [ ] Gas Well [X] Other

8. Well Name and No.
Federal #14-10

9. API Well No.
43-47-305660 43-047-30566

2. Name of Operator
Gerrity Oil & Gas Corporation

10. Field and Pool, or Exploratory Area
Wildcat

3. Address and Telephone No.
4100 E. Mississippi Ave., #1200, Denver CO 80222, 303/757-1110

11. County or Parish, State
Uintah Co., Utah

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
714 FSL & 786' FWL Sec. 10-T9S-R24E

12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturig
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other **Mechanical Integrity Test**	[ ] Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7/08/95: Pressure test casing. Repaired casing head. Pressured casing to 700 psi-held okay. Swabbed well to obtain Green River water sample. Tubing was dry. No fluid sample obtained.

7//10/95: Pumped 500 gal. 15% HCL acid. Established injection rate of 1.5 BPM @ 700 psi down 2 7/8 tubing. (Current perforated interval at 2390'-2530').

7/12/95: Performed Mechnical Integrity Test as per State representative David W. Hackford. MIT test approved.

14. I hereby certify that the foregoing is true and correct
Signed Waldo Ackerman Title Gerrity Oil & Gas Corporation Petroleum Engineer Date 07/18/95

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

RECEIVED
JUL 21 1995
DIV. OF OIL, GAS & MINING

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any mater within its jurisdiction.

*See Instructions on Reverse Side

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-120

Operator: Gerrity Oil and Gas Corporation

Well: Federal 14-10

Location: Section 10, Township 9 South, Range 24 East, Uintah County

API No.: 43-047-30566

Well Type: Disposal

Stipulations of Permit Approval

1. Approval for conversion to injection well issued on June 28, 1990. Bonding coverage is furnished by EPA bond # 6102086283.
2. Maximum Allowable Injection Pressure: 700 psig
3. Maximum Allowable Injection Rate: 1800 bwpd
4. Injection Interval: 2,390 feet to 2,530 feet (Green River Formation)
5. A step rate test shall be conducted within 6 months after commencing injection.

Approved by: _____ 8/22/95

R.J. Firth
Associate Director, Oil and Gas

Date

Get/DAN ~~to~~ in 3270
it shows this well
as 56W

Form Approved. OMB No. 2000-0042. Approval expires 9-30-86

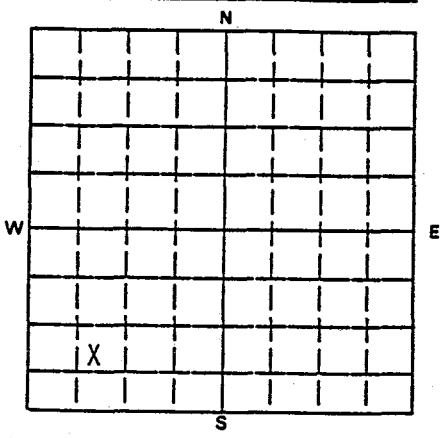
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR
Gerrity Oil & Gas Corporation 4100 E. Mississippi Ave., #1200 Denver CO 80222	J. W. Gibson Well Service 1081 E 135 So., Box 601 Vernal UT 84078

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
Utah	Uintah	UTS-2519-2118

SURFACE LOCATION DESCRIPTION
NE ¼ OF SW ¼ OF SW ¼ SECTION 10 TOWNSHIP 9S RANGE 24E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 712 ft. from (N/S) S Line of quarter section
and 786 ft. from (E/W) W Line of quarter section

WELL ACTIVITY	Total Depth Before Rework	TYPE OF PERMIT
☒ Brine Disposal ☐ Enhanced Recovery ☐ Hydrocarbon Storage	2581'	☒ Individual ☐ Area Number of Wells ____
	Total Depth After Rework 2581'	
Lease Name Dirty Devil Fed. #14-10 SWD 43-047-30566	Date Rework Commenced 11/22/95	Well Number
	Date Rework Completed 11/24/95	

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
13 3/8"	138'	175	Class G			
9 5/8"	2716'	800	Class G	2390'	2530'	

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS, LIST EACH TYPE	
	Log Types	Logged Intervals
Pulled tubing and packer. Redressed packer. Run in hole with packer and tubing. Hydrotested tubing in hole. Pressured annulus to 500 psi for MIT.		

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Waldo Ackerman Petroleum Engineer	Waldo Ackerman	11/29/95

EPA Form 7520-12 (2-84)

Mechanical Integrity Test
Casing or Annulus Pressure Test

RECEIVED
DEC 05 1995
DIV. OF OIL, GAS & MINING

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466

EPA Witness: Darren Merrick Date 11/24/95 Time 2:00 am/pm
Test conducted by: Double Jack Testing Service
Others present:

Well: Dirty Devil 14-10	Well ID: Disposal
Field: Dirty Devil	Company: Gerrity oil
Well Location: 14-10	Address:

Time	Test #1	Test #2	Test #3
0 min	500 psig	psig	psig
5	500		
10	500		
15	500		
20	495		
25	495		
30 min	490		
35	490		
40	490		
45	490		
50			
55			
60 min			
Tubing press	psig	psig	psig
Result (circle)	Pass Fail	Pass Fail	Pass Fail

Signature of EPA Witness: Darren Merrick

See back of page for any additional comments & compliance followup.

This is the front side of two sides

White River
Resource
MANAGEMENT, INC.

Suite 360, 730 Seventeenth Street
Denver, Colorado 80202

RECEIVED
JUL 29 1996

Mr. Edwin I. Forsman
Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

July 24, 1996

JUL 1996
Received
DOI-BLM
Vernal, Utah

Dear Ed:

We closed yesterday on the Patina (formerly Gerrity) properties. We have taken assignment of these properties in the name of White River Enterprises, a new entity. White River Resource Management, Inc. is its wholly owned subsidiary and will be replacing WRMG as the entity conducting business on its behalf. All of the people you met with WRMG will be working with WRRM, Inc.

Our Attorneys are filing the assignments if they are not already filed. You should see them in you office soon if they are not already there.

Lone Mountain Production Company will be operating all of these wells for us on a contract basis. We have sent Sundry Notices to them for their execution. They will be forwarding those notices to you this week.

Enclosed are copies of the Resignation of Unit Operator and Designation of Successor Unit Operator. We are circulating these for ratification of the other owners in the unit and will forward to you ratified copies upon our receipt thereof.

We have also enclosed letters from Gerrity notifying the BLM of their assignment of various right-of-ways along with our applications for transfer of these right -of-ways. We would appreciate it if you would pass these along to Joy.

If there's anything else that we need to do, please let us know. We are very anxious to be in compliance with all BLM regulations.

Sincerely,

David Burch

David Burch

Fax: (303) 825-0321

Phone (303) 820-2850

FORM 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-71248

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
[ ] Oil Well [ ] Gas Well [X] Other WDW

8. Well Name and No.
Federal #14-10

9. API Well No.
43-47-305660 43-047-30566

2. Name of Operator
Lone Mountain Production Co.

10. Field and Pool, or Exploratory Area
Wildcat

3. Address and Telephone No.
P. O. Box 3394 Billings, MT 59103

11. County or Parish, State
Uintah Co., Utah

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
714 FSL & 786' FWL Sec. 10-T9S-R24E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturig
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Change of Operator	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised that Lone Mountain Production Co. is considered to be the operator of the Federal #14-10, SWSW Section 10-Township 9 South-Range 24 East, Uintah County, Utah; and responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

Bond coverage is provided by Lone Mountain Production Co.'s statewide oil and gas bond - UT0719. Field operations will be handled by Lone Mountain's Grand Junction, CO office.

14. I hereby certify that the foregoing is true and correct
Signed James S. Routson — Lone Mountain Production Co. Title President — Date 07/22/96

14. I hereby certify that the foregoing is true and correct
Signed Terry L. Ruby — Gerrity Oil & Gas Corporation Title Vice President — Date 07/22/96

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any mater within its jurisdiction.

*See Instructions on Reverse Side

RECEIVED
JUL 26 1996
DIV OF OIL, GAS & MINING

LONE MOUNTAIN PRODUCTION COMPANY

Mailing Address:
P.O. Box 3394
Billings, MT 59103-3394

(406) 245-5077
FAX 248-6321

Shipping Address:
100 North 27th Street
Suite 650
Billings, MT 59101

August 7, 1996

Lisha Cordova
Utah Division Oil, Gas & Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

RE: TRANSFER OF AUTHORITY TO INJECT
FEDERAL #14-10 WELL
SECTION 10: T9S-R24E
UINTAH COUNTY, UTAH

Dear Lisha:

Per your request, enclosed is one transfer of authority to inject a water disposal well, in duplicate, executed by Gerrity Oil and Gas Corporation and Lone Mountain Production Company for the referenced well.

Should you need further information please advise.

Sincerely,

LONE MOUNTAIN PRODUCTION COMPANY

Carolyn George

Carolyn George for
James G. Routson, President

Enclosures

RECEIVED
AUG 0 9 1996
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
AUG 0 9 1996
DIV. OF OIL, GAS & MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Federal #14-10

Field or Unit name: Wildcat API no. 43-047-30566

Well location: QQ SWSW section 10 township 9S range 24E county Uintah

Effective Date of Transfer: June 1, 1996

CURRENT OPERATOR

Transfer approved by:

Name Terry L. Ruby Company Gerrity Oil & Gas Corporation

Signature Terry L. Ruby Address 4100 E. Mississippi Ave. #1200

Title Vice President Denver, CO 80222

Date July 31, 1996 Phone (303) 757-1110

Comments:

NEW OPERATOR

Transfer approved by:

Name James Routson Company Lone Mountain Production Co.

Signature James S. Routson Address P O Box 3394

Title President Billings, MT 59103

Date 8/6/96 Phone (406) 245-5077

Comments: Field operations will be handled by Lone Mountain's Grand Junction, Colorado office.

(State use only)
Transfer approved by [illegible] Title Program Manager

Approval Date 3-25-97

(3/89)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Federal No. 14-10

Field or Unit name: Wildcat API no. 43-047-30566

Well location: QQ SWSW section 10 township 9S range 24E county Uintah

Effective Date of Transfer: 1/1/2001

CURRENT OPERATOR

Transfer approved by:

Name James G. Routson Company Lone Mountain Production Company

Signature James G. Routson Address P. O. Box 3394

Title President Billings, Montana 59103

Date 4/16/2001 Phone (406) 245-5077

Comments:

NEW OPERATOR

Transfer approved by:

Name Diann Flowers Company Dominion Exploration & Production, Inc.

Signature Diann Flowers Address 16945 Northchase Drive, Suite 1750

Title Regulatory Specialist Houston, Texas 77060

Date 5/7/2001 Phone (281) 873-3692

Comments: as of 8/14/2003 713 756-6214

(State use only)
Transfer approved by [illegible] Title Tech Services Manager

Approval Date 8-29-01

This well is due for a mechanical integrity test.

(3/89)

• Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:	
1-LEC	6-LEC
2-GLH	7-KDR
3-DTS	8-SJ
4-VLD	9-FILE
5-RJF	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XXX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed, **effective:** 6-1-96

TO: (new operator) LONE MTN PRODUCTION CO
(address) PO BOX 3394
BILLINGS MT 59103-3394
JAMES ROUTSON
Phone: (406)245-5077
Account no. N7210

FROM: (old operator) GERRITY OIL & GAS CORP.
(address) 4100 E MISSISSIPPI #1200
DENVER CO 80222
TERRY RUBY
Phone: (303)757-1110
Account no. N6355

WELL(S) attach additional page if needed: *WDW

Name:	API:	Entity:	S	T	R	Lease:
FEDERAL 14-10/GRRV	43-047-30566	11478	10	9S	24E	RIGHT OF WAY

OPERATOR CHANGE DOCUMENTATION

Lec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form).

Lec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form).

N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) _____ If yes, show company file number: _____.

Lec 4. **FOR INDIAN AND FEDERAL WELLS ONLY**. The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.

Lec 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (3-21-97) *DBASE & QUATTRO updated.

Lec 6. **Cardex** file has been updated for each well listed above. (3-21-97)

Lec 7. Well **file labels** have been updated for each well listed above. (3-21-97)

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (3-21-97)

Lec 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

\dons\wpdocs\forms\operchng

- OVER -

OPERATOR CHANGE WORKSHEET (Continued) - Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) ____ If entity assignments were changed, attach copies of Form 6, Entity Action Form.

N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (~~FEE WELLS ONLY~~) Right-of-Way "White River Enterprises, LLC" (DLOC #912370 ($16,200) Nationsbank of Texas, N.A. (Filed with EPA)

Lec 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.

N/A 2. A **copy of this form** has been placed in the new and former operator's bond files.

N/A 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) ____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
DTS 3/26/97

N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 __, of their responsibility to notify all interest owners of this change.

FILMING

✓ 1. All attachments to this form have been **microfilmed**. Today's date: 4-8-97.

FILING

__ 1. **Copies** of all attachments to this form have been filed in each **well file**.

__ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

970319 BLM/Vernal White River Enterprises, LLC is the Right-of-Way holder & bonded principal; however "Lone Mtn. Prod. Co." will be the operator of the well.

BUREAU OF LAND MANAGEMENT
VERNAL DISTRICT OFFICE
170 SOUTH 500 EAST
VERNAL UT 84078
PHONE: (801) 781-4400 OR (801) 789-1362
FAX NUMBER: (801) 781-1190

FAX TRANSMITTAL COVER SHEET

TO: Lisha Cordova

FAX Number:

FROM: Cindy McKee

NUMBER OF PAGES (including this cover sheet):

DATE: 3-19-97

COMMENTS:
If you need additional information
Just Call me. 781-4434

If any pages are missing, please call the number at the top of the page and we will send them to you.

Please distribute to recipient as soon as possible.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal District Office
170 South 500 East
Vernal, Utah 84078-2799

Phone: (801) 781-4400
Fax: (801) 781-4410

IN REPLY REFER TO:
2800
UTU-71248
(U-082)

27 1996

DECISION

Assignee: White River Enterprises, LLC. 410 17th Street, Suite 925 Denver, Colorado 80202 Assignor: Gerrity Oil and Gas Corporation 4100 East Mississippi Denver, Colorado 80222	:	Right-of-Way UTU-71248

Assignment of Right-of-Way Approved

On July 29, 1996, White River Enterprises, LLC filed an assignment in connection with Federal right-of-way UTU-71248. The assignment conveys 100 percent interest in the subject right-of-way from Gerrity Oil and Gas Corporation to White River Enterprises, LLC.

White River Enterprises, LLC. has met the requirements for transfer in accordance with 43 CFR 2803.6-3 and 2803.6-4. An Irrevocable Standby Letter of Credit (No. 912370) in the amount of $16,200 has been filed with and approved by the Environmental Protection Agency to cover liability for the plugging and abandonment of the well should it become necessary. Therefore, no additional bonding will be required for the federal right-of-way as specified under section 4. j. of the grant terms. Rental requirements for the right-of-way have been satisfied through the period of December 31, 1996. All requirement having been met by White River Enterprises, LLC., the assignment is hereby approved, subject to the applicable regulations under 43 CFR Part 2800 and the terms and conditions of the original grant, which include but are not limited to the following:

1. Disposal of produced water under this right-of-way is limited to those wells listed within the grant. Disposal from any additional wells not specifically authorized will require subsequent written approval from the authorized officer of the Bureau of Land Management.

2. The holder shall submit an annual fluid injection report to the Bureau of Land Management, Vernal District Office, at the completion of each calendar year for the purposes of rental calculation. The report shall disclose the amounts of water disposed of from those wells authorized under this right-of-way or amendments thereto.

3. In accordance with 43 CFR 2803.1-2(a), the holder of a right-of-way grant shall pay annually, in advance, the fair market rental value as determined by the authorized officer. Rental for this injection

well, well pad, reserve pit and access roads have been determined by appraisal to be $200 per year.

In addition, a second charge for the disposal of produced water into the SWD well #14-10 has also been appraised and has been set at $.05 per barrel. Therefore, an additional base rent of $200 will be required at the beginning of each year and this amount will be adjusted to determine any balance or refund due at the end of each calendar year. This adjustment will be based on the annual fluid injection reports received showing the amounts of water disposed of from the approved wells. The submittal of these reports is a condition of the right-of-way. Rent for this right-of-way is currently paid through December 31, 1996.

4. The right-of-way authorizes the SWD well located on a 200-foot by 350-foot well pad, a 30-foot by 30-foot reserve pit, associated surface pipelines, and use of existing roads located outside of the lease and/or unit boundaries for water transport. Any additional construction or use that is not in accord with the terms and conditions of the grant cannot be initiated without the prior written approval of the authorized officer.

Copies of the grant and a serial register page have been enclosed for your information and records. It is the holder's responsibility to adhere to the terms and conditions of the right-of-way grant. Therefore, if there are any terms or conditions that are not clear to you, please contact Cindy McKee of our office at (801) 781-4434 for clarification.

Gary R. Hunter
AFM, Support Services

Enclosures:
As stated

CMcKee;cm;8-27-96

NationsBank

JUL 25 1996

NATIONSBANK OF TEXAS, N.A.
901 MAIN STREET, 9TH FLOOR
DALLAS, TEXAS 75202

JULY 19, 1996

IRREVOCABLE STANDBY LETTER OF CREDIT

U.S. ENVIRONMENTAL PROTECTION AGENCY
UNDERGROUND INJECTION CONTROL
FINANCIAL RESPONSIBILITY REQUIREMENT

TO:
REGIONAL ADMINISTRATOR
ATTN.: UNDERGROUND INJECTION CONTROL 8WM-DW-UIC
FINANCIAL RESPONSIBILITY
U.S. RPA REGION VIII
999 18TH STREET, SUITE 500
DENVER, COLORADO 80202-2466

DEAR SIR OR MADAM:

WE HEREBY ESTABLISH OUR IRREVOCABLE STANDBY LETTER OF CREDIT NUMBER 912370 IN YOUR FAVOR, AT THE REQUEST AND FOR THE ACCOUNT OF WHITE RIVER ENTERPRISES, LLC, 515 CONGRESS AVE., STE. 1875, AUSTIN, TX 78701, UP TO THE AGGREGATE AMOUNT OF SIXTEEN THOUSAND TWO HUNDRED UNITED STATES DOLLARS ($16,200.00), AVAILABLE UPON PRESENTATION OF:

1. YOUR SIGHT DRAFT, BEARING REFERENCE TO THIS LETTER OF CREDIT NUMBER 912370, AND

2. YOUR PURPORTEDLY SIGNED STATEMENT READING AS FOLLOWS: "I CERTIFY THAT THE AMOUNT OF THE DRAFT IS PAYABLE PURSUANT TO REGULATIONS ISSUED UNDER AUTHORITY OF THE STATE DRINKING WATER ACT."

THIS LETTER OF CREDIT IS EFFECTIVE AS OF JULY 19, 1996 AND SHALL EXPIRE ON JULY 19, 1997, BUT SUCH EXPIRATION DATE SHALL BE AUTOMATICALLY EXTENDED FOR A PERIOD OF ONE YEAR ON JULY 19, 1997 AND EACH SUCCESSIVE EXPIRATION DATE, UNLESS, AT LEAST 120 DAYS BEFORE THE CURRENT EXPIRATION DATE, WE NOTIFY BOTH YOU AND WHITE RIVER ENTERPRISES, LLC, BY CERTIFIED MAIL OR COURIER SERVICE THAT WE HAVE DECIDED NOT TO EXTEND THIS LETTER OF CREDIT BEYOND THE CURRENT EXPIRATION DATE. IN THE EVENT YOU ARE SO NOTIFIED, ANY UNUSED PORTION OF THE CREDIT SHALL BE AVAILABLE UPON PRESENTATION OF YOUR SIGHT DRAFT FOR 120 DAYS AFTER THE DATE OF RECEIPT BY BOTH YOU AND WHITE RIVER ENTERPRISES, LLC., AS SHOWN ON THE SIGNED RETURN RECEIPTS.

WHENEVER THIS LETTER IS DRAWN ON UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS CREDIT, WE SHALL DULY HONOR SUCH DRAFT UPON PRESENTATION TO US, AND WE SHALL DEPOSIT THE AMOUNT OF THE DRAFT

ORIGINAL

NationsBank

JUL 25 19

DIRECTLY INTO THE STANDBY TRUST FUND OF WHITE RIVER ENTERPRISES. LLC. IN ACCORDANCE WITH YOUR INSTRUCTIONS.

UNLESS OTHERWISE EXPRESSLY STATED HEREIN, THIS LETTER OF CREDIT IS SUBJECT TO THE UNIFORM CUSTOMS AND PRACTICE FOR DOCUMENTARY CREDITS (1993 REVISION), INTERNATIONAL CHAMBER OF COMMERCE PUBLICATION NO. 500.

NATIONSBANK OF TEXAS, N.A.
DALLAS, TEXAS

Ginger Downs
GINGER DOWNS
VICE PRESIDENT

FOR ASSISTANCE PLEASE CALL BARBARA TEAGUE AT 214-508-3097

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposal to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.: UTU-71248
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA/Agreement, Name and/or No.:
8. Well Name and No.: Dirty Devil 14-10 SWD
9. API Well No.: 43-047-30566
10. Field and Pool, or Exploratory Area: WILDCAT
11. County or Parish, State: UINTAH COUNTY, UTAH

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
DOMINION EXPLORATION & PRODUCTION, INC.

3a. Address
16945 Northchase Drive, Suite 1750 Houston, TX 77060

3b. Phone No. (*include area code*)
(281) 873-3692

4. Location of Well (*Footage, Sec., T., R., M., or Survey Description*)
714' FSL & 786' FWL
SW SW Sec. 10, T9S, R24E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change of Operator
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Coommpleted Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Dominion Exploration & Production, Inc. has assumed operation of the Dirty Devil 14-10 injection well from Lone Mountain Production Company, effective January 1, 2001. Bond coverage is provided by Dominion's nationwide BLM Bond No. 76S 63050 0330. Field operations will be handled out of Dominion's Roosevelt office. The contact person will be Mitch Hall.

Dominion will assume responsibility under the terms and conditions of this lease for the operations conducted upon lease lands.

RECEIVED
MAY 14 2001
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct
Name (*Printed/Typed*): DIANN FLOWERS
Title: REGULATORY SPECIALIST
Signature: Diann Flowers
Date: 05/10/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Title
Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other Instructions on reverse side)

Form Approved.
Budget Bureau No. 1004-0135
Expires : March 31, 1993

5. LEASE DESIGNATION AND SERIAL NO.
UTU-71248

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

6. IF INDIAN, ALLOTEE OR TRIBE NAME

7. IF UNIT OR CA, AGREEMENT DESIGNATION

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☐ OTHER ☒ SINGLE ZONE ☐ MULTIPLE ZONE ☐

8. WELL NAME and No.
Federal No. 14-10 SWD

2. NAME OF OPERATOR
Lone Mountain Production Company

9. API WELL NO.
43-047-30566

3. ADDRESS OF OPERATOR
P. O. Box 3394, Billings, Montana 59103 **(406) 245-5077**

10. Field and Pool, or Exploratory Area
Wildcat

4. LOCATION OF WELL (Footage, Sec, T., R., M., or Survey Description)
712' FSL, 786' FWL Section 10-T9S-R24E (SWSW)

11. County or Parish, State
Uintah County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
	☐ Recompletion	☐ New Construction
☒ Subsequent Report	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
☐ Final Abandonment Notice	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Change of Operator	☐ Dispose of Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form)

13. Describe the Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If a well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Lone Mountain Production Company resigned as Operator of the Federal No. 14-10 SWD well, effective January 1, 2001. The new operator is Dominion Exploration & Production Inc.

Bond coverage is provided by Dominion's Nationwide BLM Bond No. 76S630500330.

Field operations will be handled by the Roosevelt office. The contact person is Mitch Hall.

14. I hereby certify that the foregoing is true and correct.

Signed : James - Routh Title: **President** Date: **May 15, 2001**

(This space for Federal or State office use)

APPROVED BY: _____ TITLE: _____ DATE: _____
CONDITIONS OF APPROVAL IF ANY

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instructions of Reverse Side**

UTU-71248

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal Field Office
170 South 500 East
Vernal, Utah 84078-2799

Phone: (801) 781-4400
Fax: (801) 781-4410

IN REPLY REFER TO:
2880/2800
UTU-76924 et al.
(U-084)

AUG 0 7 2001

DECISION

Assignee:	:	
Dominion Exploration & Production Co.	:	
16945 Northchase Drive, Suite 1750	:	
Houston, TX 77060	:	
	:	Rights-of-Way
Assignor:	:	UTU-76924 et al.
Lone Mountain Production Co.	:	
Box 3394	:	
Billings, MT 59103-3394	:	

Assignment of Rights-of-Way Approved

On May 24, 2001, Dominion Exploration & Production Company filed an assignment in connection with the following listed Federal rights-of-way:

UTU-71248	UTU-76893	UTU-76917
UTU-71298	UTU-76913	UTU-76920
UTU-73591	UTU-76914	UTU-76921
UTU-73592	UTU-76915	UTU-76924
UTU-76892	UTU-76916	

This assignment conveys 100 percent interest in the above listed rights-of-way from Lone Mountain Production Company and White River Enterprises, LLC to Dominion Exploration & Production, Inc. Excluding the exceptions listed below, it has been determined that the applicant has met the requirements of 43 CFR 2881.1-1(g) and 2803.6-3, therefore, the assignment is hereby approved, subject to the terms and conditions of the original grants, the applicable regulations under 43 CFR 2800 and 2880, and the conditions of approval attached to the APD's and/or SN's.

The following Federal rights-of-way are exempt from this assignment:

UTU-76880 - The right-of-way grant was issued to Dominion. On February 27, 2001, Lone Mountain Production Company agreed to and accepted the transfer of their application for a Federal right-of-way grant to Dominion (see copy attached).

UTU-76929, UTU-76931, UTU-77658 and UTU-77659 - Rosewood Resources, Inc. will continue to be the authorized holder of the right-of-way grants.

UTU-76905, UTU-76906, UTU-76922 and UTU-76925 - The applications for these rights-of-way are pending. Upon approval the right-of-way grants will be issued to Dominion.

Copies of the grants and serial register pages have been enclosed for your information and records. Please contact Shauna Derbyshire of our office at (435) 781-4435 if you need additional information concerning these rights-of-way.

Gary R. Hunter
AFM, Operations

Enclosures:
As stated

cc: White River Enterprises, LLC
410 17th Street, Suite 1990
Denver, CO 80202

Rosewood Resources
Box 1668
Vernal, UT 84078

SDerbyshire:sd:7/30/01

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING		
1. GLH ✓		4-KAS
2. CDW		5-LP ✓
3. JLT		6-FILE

Enter date after each listed item is completed

X Change of Operator (Well Sold) Designation of Agent

Operator Name Change (Only) Merger

The operator of the well(s) listed below has changed, effective: **1-01-2001**

FROM: (Old Operator):	**TO:** (New Operator):
LONE MOUNTAIN PRODUCTION COMPANY	DOMINION EXPLORATION & PRODUCTION INC
Address: P O BOX 3394	Address: 16945 NORTHCHASE DRIVE, STE 1750
BILLINGS, MT 59103	HOUSTON, TX 77060
Phone: 1-(406)-245-5077	Phone: 1-(281)-873-3692
Account N7210	Account N1095

CA No. **Unit:**

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
FEDERAL 14-10	43-047-30566	11478	10-09S-24E	FEDERAL	SWD	A

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/26/2000
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 05/14/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 08/29/2001
4. Is the new operator registered in the State of Utah: YES Business Number: 852894-0143
5. If **NO**, the operator was contacted contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 08/07/2001
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 08/30/2001

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 08/29/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 08/29/2001
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: N/A

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
   The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

FEDERAL BOND VERIFICATION:

1. Federal well(s) covered by Bond No.: 76S630500330

FILMING:

1. All attachments to this form have been **MICROFILMED** on:

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: _____

COMMENTS:

STATE OF UTAH
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

INJECTION WELL - PRESSURE TEST

Test Date: 9/26/01	Well Owner/Operator: Dominion Expl. + Prod. Inc.	
Disposal Well: X	Enhanced Recovery Well:	Other:
API No.: 43-047-30566	Well Name/Number: Fed. 14-10	
Section: 10	Township: 9S	Range: 24E

Initial Conditions:

Tubing - Rate: 0 Pressure: 60 psi

Casing/Tubing Annulus - Pressure: 975 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	975	60
5	975	60
10	975	60
15	975	60
20	975	60
25	975	60
30	975	60

Results: (Pass)/Fail

Conditions After Test:

Tubing Pressure: 60 psi

Casing/Tubing Annulus Pressure: 0 psi

REMARKS:

Mary Dyer
Operator Representative

David W. Hackford
DOGM Witness

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposal to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
UTU-71248

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

8. Well Name and No.
FEDERAL 14-10 SWD

2. Name of Operator
DOMINION EXPL. & PROD., INC.

9. API Well No.
43-047-30566

3a. Address
16945 Northchase Drive, Suite 1750 Houston, Texas 77060

3b. Phone No. (*include area code*)
281-873-3692

10. Field and Pool, or Exploratory Area
NATURAL BUTTES

4. Location of Well (*Footage, Sec., T., R., M., or Survey Description*)
712' FSL & 786' FWL
SW, SW Sec. 10, T. 9 South, R. 24 East

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☒ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Integrity Test
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Coommpleted Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Operator ran an integrity test on 9/26/2001. MIRU hot oil truck to casing and filled hole with 12 bbls 2% KCL water and pressure tested well to 975 psi fo 30 minutes. Held okay. Notified State of Utah's, Dan Jarvis, of test.

RECEIVED
OCT 15 2001
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct
Name (*Printed/Typed*)
Diann Flowers

Title Regulatory Specialist

Signature Diann Flowers

Date 10/8/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS PROGRAM

PHONE CONVERSATION DOCUMENTATION FORM

✓ Copy? ☐

Conversation Pertains to:

☐ WELL Federal 14-20	☐ OTHER
Section 10 Township 09S Range 24E	
API Number 43-047-30566	

Topic of Conversation: Operator Change and Transfer of Authority to Inject

Date of Phone Call: 8/4/2003 Time: 10:45 am

DOGM Employee (name): Earlene Russell ✓ Initiated Call? ☒

Spoke with:

Name: Joe Glennon ✓ Initiated Call? ☐

Of (company/organization): Retamco Operating Inc. Phone: (406) 284-5594

Highlights of Conversation:

Faxed copies of UIC-5 (Transfer of Authority to Inject), UIC-3 (Injection Reporting) and Form 9 (Sundry) to Joe Glennon.

Requested he complete UIC 5 and start UIC-3 reporting effective 03/2003. Form 9 sent for other transfers pending (i.e. Dominion 43-047-30100; CDX Rockies 43-047-32657; 43-047-33369; 43-047-33763.)

Contacted Diann Flowers (Dominion) 713 756-6244 re UIC-5. She will work with Joe to get transferred.

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
See Exhibit "A"

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
See Exhibit "A"

2. Name of Operator
Dominion Exploration & Production Inc. N 1095

9. API Well No.
See Exhibit "A"

3a. Address 14000 Quail Springs Prkwy., S600
Oklahoma City, OK 73134

3b. Phone No. (include area code)
(405) 749-5282

10. Field and Pool, or Exploratory Area
Rusty Waters

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
See Exhibit "A"

11. County or Parish, State
Uintah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change of Operator
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Dominion Exploration and Production is selling its interest in the wells described in Exhibit "A" to Retamco Operating Inc., whose address is 3301 Stonewall Lane in Billings, Montana 59102, (406) 248-5594.

Effective February 1, 2003 Dominion Exploration & Production Inc. will turn over operations of the subject wells to Retamco Operation Inc. All future correspondents pertaining to these wells should be sent to Retamco Operating Inc, Attention: Joe Glennon at the above address.

If you have any questions regarding this conveyance contact Rusty Waters with Dominion at (405) 749-5282

Retamco Operating Inc. BLM Bond #UT1088

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed) J. C. Welch
Title Attorney In Fact
Signature J. C. Welch
Date 1/24/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by | Title | Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Exhibit "A"
Well List

Operator	WI/NRI	Well Name:	Location:	County:	State:	Lease #	API Number:
		UTAH					
ROI/Dom	50/	Coyote Basin #28-1 moved 7/31/03	SE Sec 28 - T8S,R25E	Uintah	Utah	U-16257	43047 30098
ROI/Dom	50/	Federal 14-10 (swd)	SW Sec 10 - T9S,R24E	Uintah	Utah	U-75118	43047 30566
ROI/Dom	50/	State 2-32	SWNENE Sec 32 - T8S,R25E	Uintah	Utah	ML 11124	43 047 30100

RECEIVED

RECEIVED
AUG 1 9 2003
DIV. OF OIL, GAS & MINING

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
See Exhibit "A"

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
See Exhibit "A"

2. Name of Operator
Retamco Operating Inc.

9. API Well No.
See Exhibit "A"

3a. Address
3301 Stonewall Lane Blgs, MT 59102

3b. Phone No. *(include area code)*
(406) 248-5594
Joe Glennon

10. Field and Pool, or Exploratory Area

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*

11. County or Parish, State

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change of Operator
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that effective February 1, 2003 Retamco Operating Inc. will take over operations of the subject wells.

Retamco Operating Inc. agrees to be responsible under the terms and conditions of the leases for the operations conducted on the leased lands. Bond coverage for these wells is provided for by Retamco Operating Inc. Statewide Bond No. UT1088.

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DIV. OF OIL, GAS & MINING

State Bond LOC SLC9SEA 01159 US Bank $40,000
(2 other wells 8/26/03)

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Joe Glennon

Title
Attorney In Fact

Signature
Joe Glennon

Date
1/27/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease

Office

RECEIVED

1993 1996 2003 Date

UIC FORM 5

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number: Dirty Devil #14-10 SWD	API Number: 43 047 30566
Location of Well	Field or Unit Name: Dirty Devil
Footage: 714' FSL & 786' fwl — County: UINTAH	Lease Designation and Number: UTU-75118
QQ, Section, Township, Range: SWSW 10 9S 24E — State: UTAH	

EFFECTIVE DATE OF TRANSFER: 2/1/2003

CURRENT OPERATOR

N1095

Company: Dominion Exploration & Production, Inc.
Address: 14000 Quail Springs Parkway, Suite 600
city Oklahoma City state OK zip 73134
Phone: (405) 749-1300
Comments:

Name: RW J. C. Welch
Signature: J C Welch
Title: Attorney in Fact
Date: 6/11/2003

NEW OPERATOR

N6020

Company: RETAMCO OPERATING INC.
Address: 3301 Stonewall Lane
city Billings state MT zip 59102
Phone: (406) 248-5594
Comments:

Name: Joe Glennon
Signature: Joe Glennon
Title: Attorney in Fact
Date: 6/18/03

(This space for State use only)

Transfer approved by: [signature]
Title: Pech Services Manager
Approval Date: 12-1-03
UIC-120

Comments: In Indian Country, EPA primary UIC Agency.

(5/2000)

RECEIVED
AUG 11 9 2003
DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

X Change of Operator (Well Sold) Designation of Agent/Operator

Operator Name Change Merger

The operator of the well(s) listed below has changed, effective: **2/1/2003**

FROM: (Old Operator):	**TO:** (New Operator):
N1095-Dominion Exploration & Production Inc.	N6020-Retamco Operating, Inc.
14000 Quail Springs Pkwy, Suite 600	3301 Stonewall Lane
Oklahoma City, OK 73134	Billings, MT 59102
Phone: 1-(405) 749-5282	Phone: 1-(406) 248-5594

CA No. **Unit:**

WELL(S)

NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
Federal 14-10 SWD (Dirty Devil)	10	09S	24E	4304730566	11478	Federal	WD	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/13/2003
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/19/2003
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/30/2003
4. Is the new operator registered in the State of Utah: YES Business Number: 1353681-0143
5. If **NO**, the operator was contacted contacted on: _____
6. (R649-9-2)Waste Management Plan has been received on: In Place

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 12/1/2003

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 12/30/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 12/30/2003
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT-1088

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: n/a

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
   The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

Change was delayed, waiting for Waste Management Plan and other information.

4304730566

REC'D JUL 14 2008

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency Region 8
Underground Injection Control Program
1595 Wynkoop Street, Denver, CO 80202-1129

EPA Witness: _____ Date: JULY / 9 / 2008

Test conducted by: IVAN SADLIER

Others present: PAUL BRESHEARS, PAUL JOHNSON

Well Name: DIRTY DEVIL DISPOSAL Type: ER SWD Status: AC TA UC

Field: DIRTY DEVIL Federal 14-10

Location: SW/SW Sec: 10 T 9S N / S R 24E E / W County: UINTAH State: UTAH

Operator: GREEN RIVER OPERATING LLC

Last MIT: ___/___/___ Maximum Allowable Pressure: 700 PSIG

Is this a regularly scheduled test? [ ] Yes [X] No

Initial test for permit? [ ] Yes [X] No

Test after well rework? [ ] Yes [X] No

Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: TBG 350, CSG 0 PSI psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	350 psig	psig	psig
End of test pressure	350 psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			TBG
0 minutes	1010 psig	psig	350 psig
5 minutes	1000 psig	psig	350 psig
10 minutes	1000 psig	psig	350 psig
15 minutes	1000 psig	psig	350 psig
20 minutes	990 psig	psig	350 psig
25 minutes	990 psig	psig	350 psig
30 minutes	990 psig	psig	350 psig
____ minutes	psig	psig	psig
____ minutes	psig	psig	psig
RESULT	[ ] Pass [ ]Fail	[ ] Pass [ ]Fail	[ ] Pass [ ]Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

No Fluid Added To Annulas — Annulas Full. bled back only To release pressure.

Signature of Witness: Ivan Sadler

OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff _____ Date: ___/___/

Do you agree with the reported test results? [ ] YES [ ] NO

If not, why?

Possible violation identified? [ ] YES [ ] NO

If YES, what

If YES - followup initiated? [ ] YES

[ ] NO - why not?

[ ] Data Entry [ ] Compliance Staff [ ] 2nd Data Entry [ ] Hardcopy Filing

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **7/1/2007**

FROM: (Old Operator):	**TO:** (New Operator):
N6020-Retamco Operating Inc.	N3570-Green River Water Disposal, LLC
PO Box 790	PO Box 790
Red Lodge, MT 59068	Red Lodge, MT 59068
Phone: 1 (406) 446-1568	Phone: 1 (406) 446-1568

CA No. **Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
FEDERAL 14-10	10	090S	240E	4304730566	11478	Federal	WD	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/3/2008
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/26/2009
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 12/16/2008

4a. Is the new operator registered in the State of Utah: Business Number: 5682460-0160

5a. (R649-9-2)Waste Management Plan has been received on: requested 1/29/09

5b. Inspections of LA PA state/fee well sites complete on: n/a

5c. Reports current for Production/Disposition & Sundries on: ok

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 1/27/2009

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 1/29/2009
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 1/29/2009
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: CUSIP 91282FM7
2. Indian well(s) covered by Bond Number: n/a

3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number n/a

3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-71248

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Water Disposal Well

8. WELL NAME and NUMBER: Federal 14-10

2. NAME OF OPERATOR: Green River Water Disposal, LLC

9. API NUMBER: 4304730566

3. ADDRESS OF OPERATOR: P.O. Box 790 CITY Red Lodge STATE MT ZIP 59068 PHONE NUMBER: (406) 446-1568

10. FIELD AND POOL, OR WILDCAT: Devils Playground/Green River

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 712' FSL & 786' FWL COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 10 9S 24E STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Change of Operator
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective July 1, 2007, Retamco Operating Inc. transferred ownership in the Federal 14-10 Water Disposal Well to Green River Water Disposal L.L.C., a subsidiary company of Retamco Operating Inc.

Retamco Operating Inc.
P.O. Box 790
Red Lodge, MT 59068
406-446-1568

Matt Gose, Vice President

Green River Water Disposal L.L.C. - Federal Bond #US Treasury Note, CUSIP 912828FM7

NAME (PLEASE PRINT) Joe Glennon TITLE ~~Attorney-In-Fact~~ Manager

SIGNATURE Joe Glennon DATE 12/1/08

(This space for State use only)

APPROVED 01/29/2009
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

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DEC 03 2008
DIV. OF OIL, GAS & MINING

UIC FORM 5

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Federal 14-10	API Number 4304730566
Location of Well Footage : 712' FSL & 786' FWL County : Uintah QQ, Section, Township, Range: SWSW 10 9S 24E State : UTAH	Field or Unit Name Devils Playground/Green River Lease Designation and Number UTU-71248

EFFECTIVE DATE OF TRANSFER: 7/1/2007

CURRENT OPERATOR

Company: Retamco Operating Inc. N6020
Address: P.O. Box 790
city Red Lodge state MT zip 59068
Phone: (406) 446-1568
Comments:

Name: Matt Gose
Signature: Matt Gose
Title: Vice President
Date: 12/1/08

NEW OPERATOR

Company: Green River Water Disposal, L.L.C. N3570
Address: P.O. Box 790
city Red Lodge state MT zip 59068
Phone: (406) 446-1568
Comments:

Name: Joe Glennon
Signature: Joe Glennon
Title: ~~Attorney-In-Fact~~ Manager
Date: 12/1/08

(This space for State use only)

Transfer approved by: Dan Jarvis
Title: UIC Geologist

Approval Date: 1/27/09

Comments:

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DEC 03 2008
DIV. OF OIL, GAS & MINING

(5/2000)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-71248

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Water Disposal Well

8. WELL NAME and NUMBER: Federal 14-10

2. NAME OF OPERATOR: Green River Water Disposal, LLC

9. API NUMBER: 4304730566

3. ADDRESS OF OPERATOR: P.O. Box 790 CITY Red Lodge STATE MT ZIP 59068 PHONE NUMBER: (406) 446-1568

10. FIELD AND POOL, OR WILDCAT: Devils Playground/Green River

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 712' FSL & 786' FWL COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 10 9S 24E STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Change of Operator
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective July 1, 2007, Retamco Operating Inc. transferred ownership in the Federal 14-10 Water Disposal Well to Green River Water Disposal L.L.C., a subsidiary company of Retamco Operating Inc.

Retamco Operating Inc.
P.O. Box 790
Red Lodge, MT 59068
406-446-1568

Matt Gose

Matt Gose, Vice President

Green River Water Disposal L.L.C. - Federal Bond #US Treasury Note, CUSIP 912828FM7

NAME (PLEASE PRINT) Joe Glennon TITLE ~~Attorney-In-Fact~~ Manager

SIGNATURE Joe Glennon DATE 12/1/08

(This space for State use only)

(5/2000)

RECEIVED JAN 26 2009 DIV. OF OIL, GAS & MINING

APPROVED 01/29/2009
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED DEC 03 2008

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

AUG 1 3 2015

RECEIVED
AUG 17 2015
DIV. OF OIL, GAS & MINING

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2600-8442
RETURN RECEIPT REQUESTED

Joe Johnson
Vice-President – Operations
Green River Water Disposal LLC
P.O. Box 790
Red Lodge, Montana 59068

10 9S 24E

Re: Underground Injection Control (UIC)
Permission to Resume Injection
DDU 14-10 Well
EPA Permit ID# UT20519-02118
API # 43-047-30566
Dirty Devil Field
Uintah County, Utah

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

Dear Mr. Johnson:

On August 5, 2015, the Environmental Protection Agency (EPA) received information from Green River Water Disposal LLC on the above referenced well concerning the workover and the followup mechanical integrity test (MIT) conducted on July 26, 2015. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. § 144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before July 26, 2020.

Pursuant to 40 C.F.R. § 144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,

Kendra Weller for

Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Shaun Chapoose, Chairman, Uintah & Ouray Business Committee
Edred Secakuku, Vice-Chairman, Uintah & Ouray Business Committee
Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY