

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 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 and in accordance with any State requirements.)  
 At surface: 1923' FSL, 2080' FWL, NE SW Section 17, T9S, R24E  
 At proposed prod. zone: S.L.B. & M.

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

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
 727' (+)

16. NO. OF ACRES IN LEASE  
 1600 (+)

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

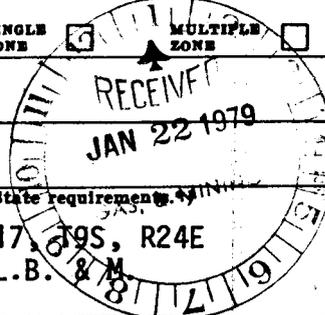
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 7100'

19. PROPOSED DEPTH  
 7100'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5243' Ungraded Ground

22. APPROX. DATE WORK WILL START\*



5. LEASE DESIGNATION AND SERIAL NO.  
 31266

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
 Devils Playground

8. FARM OR LEASE NAME  
 Federal

9. WELL NO.  
 23-17

10. FIELD AND POOL, OR WILDCAT  
 Undesignated

11. SEC., T., R., M., & BLK. AND SURVEY OR AREA  
 Section 17, T9S, R24E

12. COUNTY OR PARISH  
 Uintah

13. STATE  
 Utah

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 proposed 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: *Chas B. [Signature]*

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.

SIGNED \_\_\_\_\_ TITLE Petroleum Engineer DATE January 18, 1979

(This space for Federal or State office use)  
 PERMIT NO. 43-047-30568 APPROVAL DATE \_\_\_\_\_

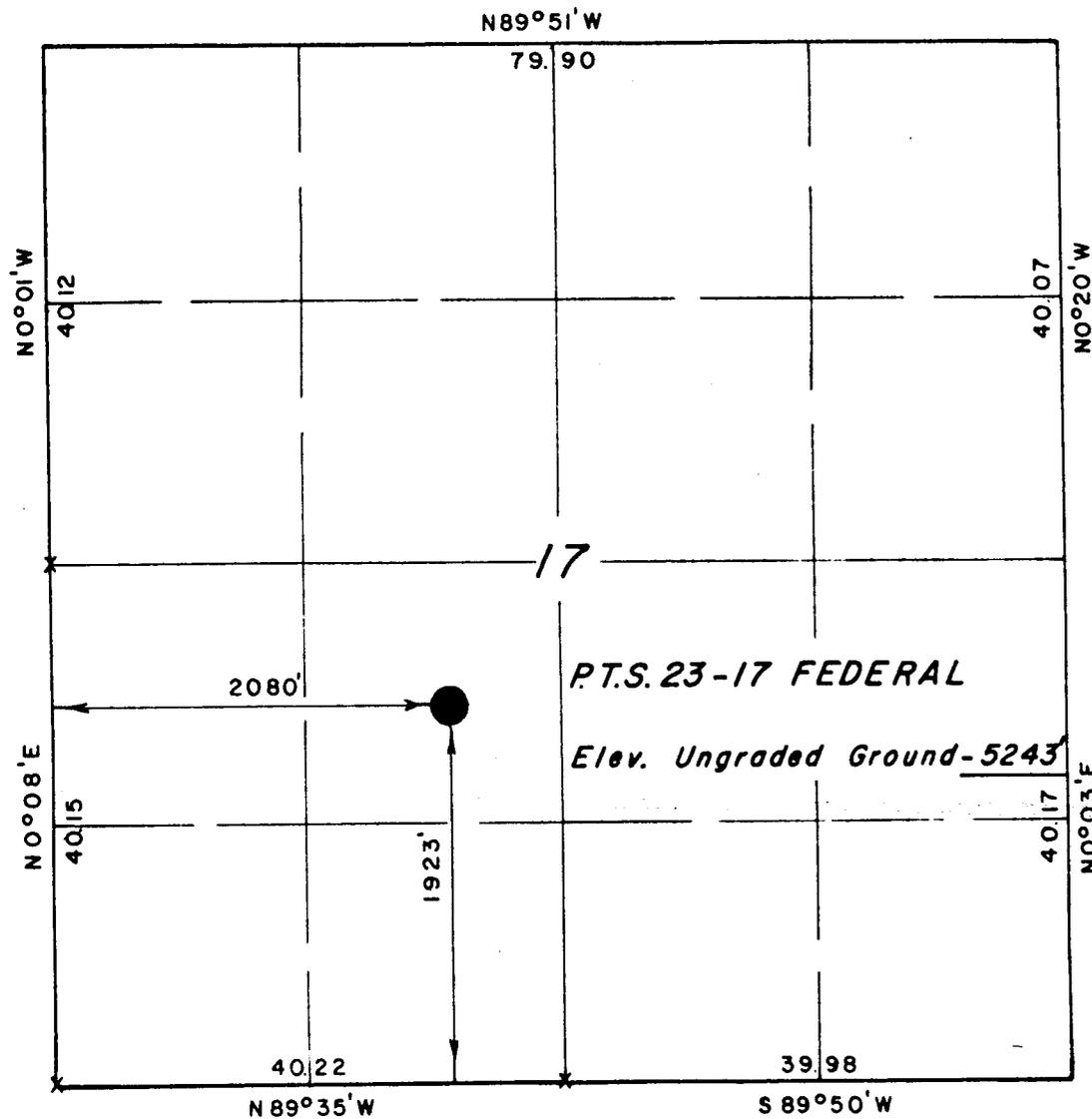
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

3-USGS, SLC,UT; 1-DIV. of O&M, SLC,UT; 1-JLWroble; 1-ERHenry; 1-EEMulholland; 1-File

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

PROJECT  
**PACIFIC TRANSMISSION SUPPLY CO.**

Well location, *P.T.S. # 23-17 FEDERAL*  
 located as shown in the NE 1/4 SW 1/4  
 Section 17, T9S, R24E, S.L.B. & M. Uintah  
 County, Utah.



X = Section Corners Located



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.

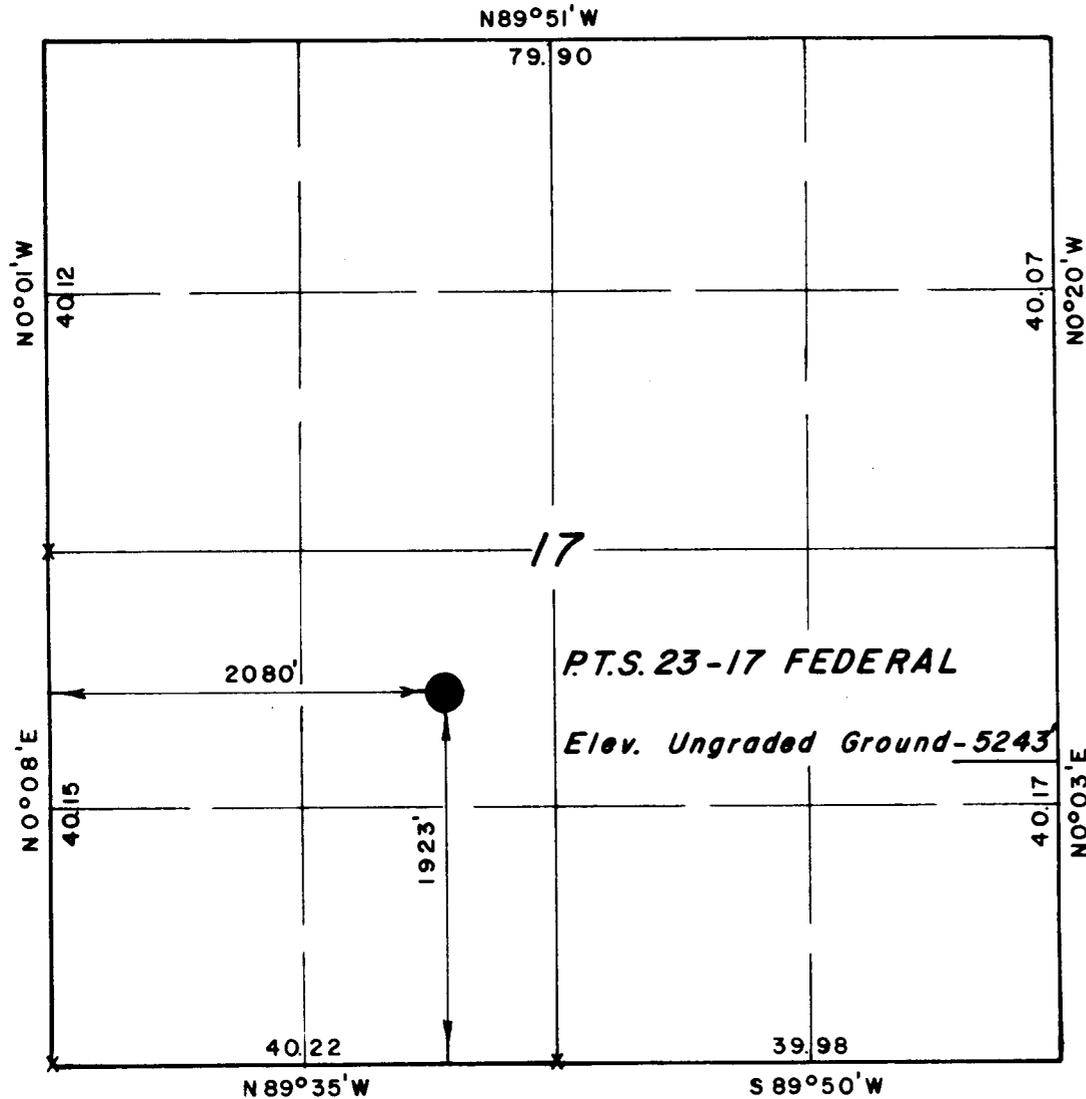
REGISTERED LAND SURVEYOR  
 REGISTRATION NO 3154  
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING P. O. BOX Q - 110 EAST - FIRST SOUTH VERNAL, UTAH - 84078	
SCALE 1" = 1000'	DATE 12/8/78
PARTY L.D.T. D.S. W.J. S.M.	REFERENCES GLO Plat
WEATHER Cold, Overcast & Windy	FILE PACIFIC TRANSMISSION

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

PROJECT  
**PACIFIC TRANSMISSION SUPPLY CO.**

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*[Signature]*  
 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	12/8/78
PARTY	L.D.T. D.S. W.J. S.M.	REFERENCES	GLO Plat
WEATHER	Cold, Overcast & Windy	FILE	PACIFIC TRANSMISSION

WELL PROGNOSIS  
PTS #23-17 FEDERAL  
Uintah County, Utah

LOCATION: 1923' FSL, 2080' FWL, (NE SW), Section 17, T9S, R24E

OPERATOR: Pacific Transmission Supply Company

LEASE: 31266

DRILLING CONTRACTOR: To be selected.

ELEVATION: 5243' Ungraded Ground

FORMATION TOPS AND DATUM:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Green River		
Parachute Creek	1388'	+3855
H-Marker	2868'	+2375
Wasatch	4213'	+1030
Mesaverde	6048'	- 805
TOTAL DEPTH	7100'	

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:

<u>Interval (Feet)</u>	<u>Mud Weight (lbs./gal.)</u>	<u>Viscosity (Sec./qt.)</u>	<u>Fluid Loss (MI/30 min.)</u>	<u>Mud Type</u>
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)
3000-6000	8.7-9.0	26-30	No Control	Salt Water (40-60000 ppm NaCl)
6000-TD	9.1-9.6	32-45	12-15cc	Salt Mud (60-80000 ppm NaCl)

DRILLING PROGRAM:

- 1) Move in air percussion 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

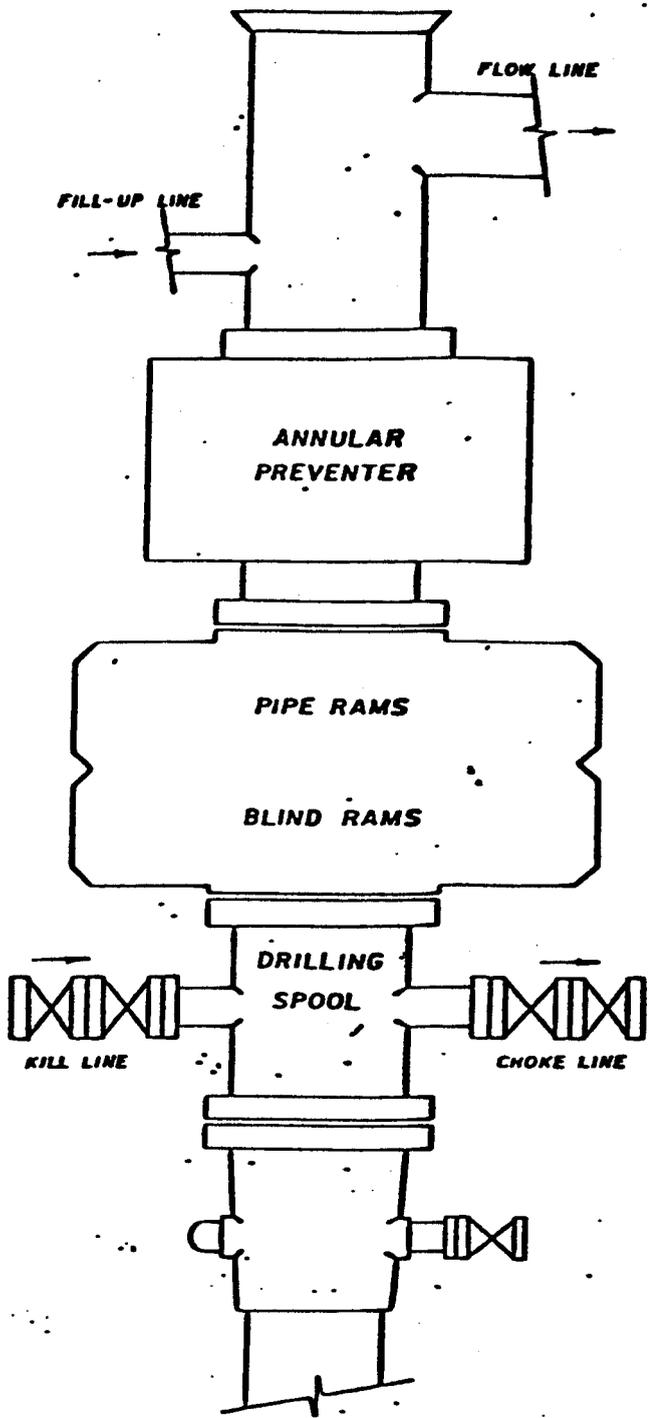
Pacific Transmission Supply Company  
64 East Main Street  
Vernal, UT 84078  
Attn: R. J. Firth

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. Gynn, 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. #23-17 Federal

Located In

Section 17, T9S, R24E, S.L.B. & M.

Uintah County, Utah

1. EXISTING ROADS

See attached Topographic Map "A", to reach the Pacific Transmission Supply Company well location, P.T.S. #23-17 Federal, located in Section 17, 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 22 miles to Bonanza, Utah and the junction of this road and a gravel surface road to the West; proceed Westerly along this road 4.6 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 SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  Section 18, T9S, R24E, S.L.B. & M., and proceeds in a Northeasterly 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  $1\frac{1}{2}$  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 a 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 along relatively flat area and then up onto a small ridge and is vegetated with sparse 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, plans for a gas flow line for 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 5 miles East of the proposed 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.

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

7. METHODS FOR HANDLING WASTE DISPOSAL - continued

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 waste and garbage 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. 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, and 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.

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. District Manager when

10. PLANS FOR RESTORATION OF SURFACE - continued

the moisture content of the soil is adequate for 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 a 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 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.

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

P.T.S. #23-17 Federal is located on top of a small ridge which slopes to the North-east.

The majority of the drianages 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.

PACIFIC TRANSMISSION SUPPLY COMPANY  
P.T.S. # 23-17 Federal  
Section 17, T9S, R24E, S.L.B. & M.

11. OTHER INFORMATION - continued

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 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").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

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

Tele: 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 18, 1979  
DATE

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

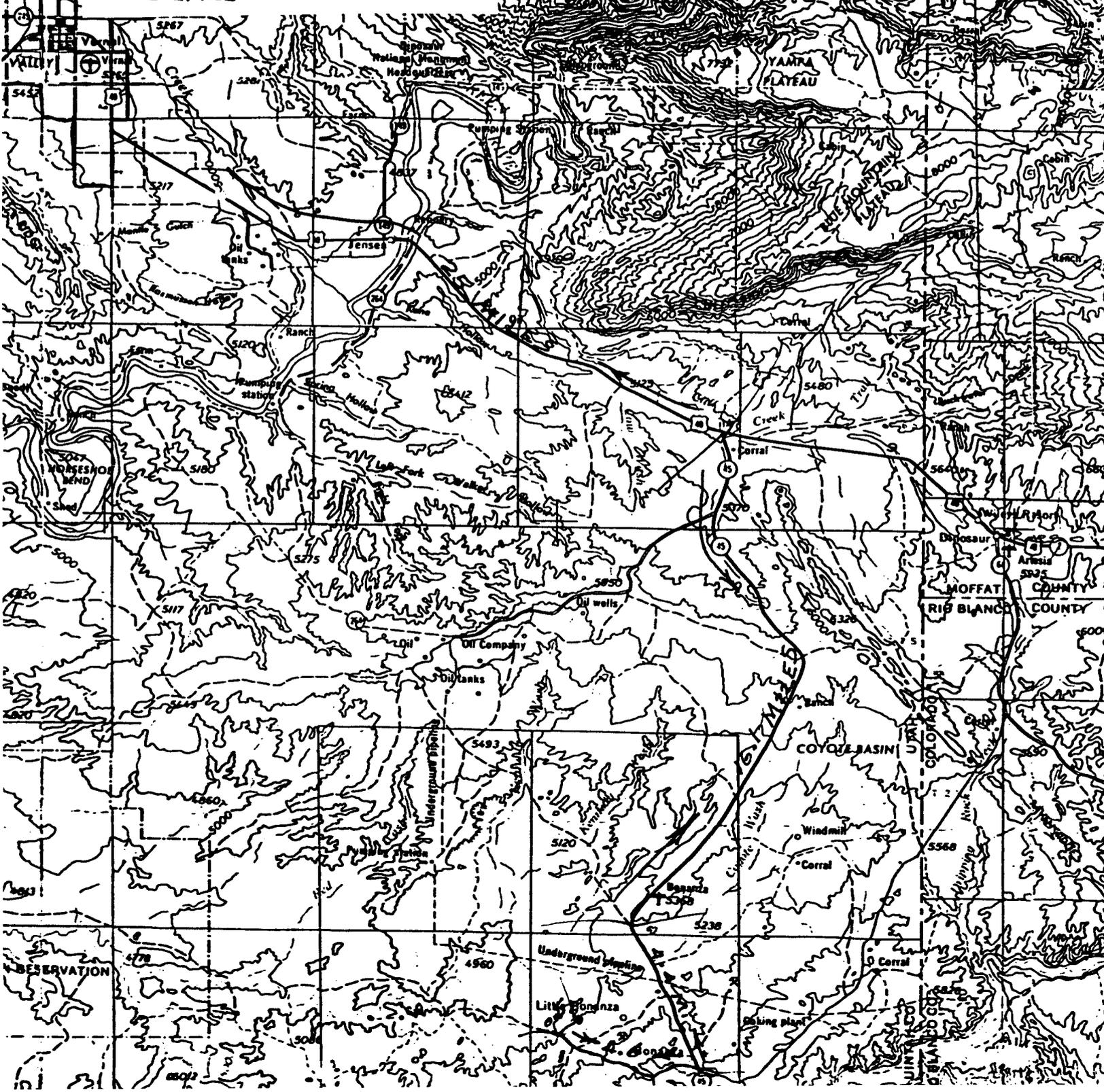
PROPOSED LOCATION  
RTS. #23-17 FEDERAL

TOPO.

MAP "A"

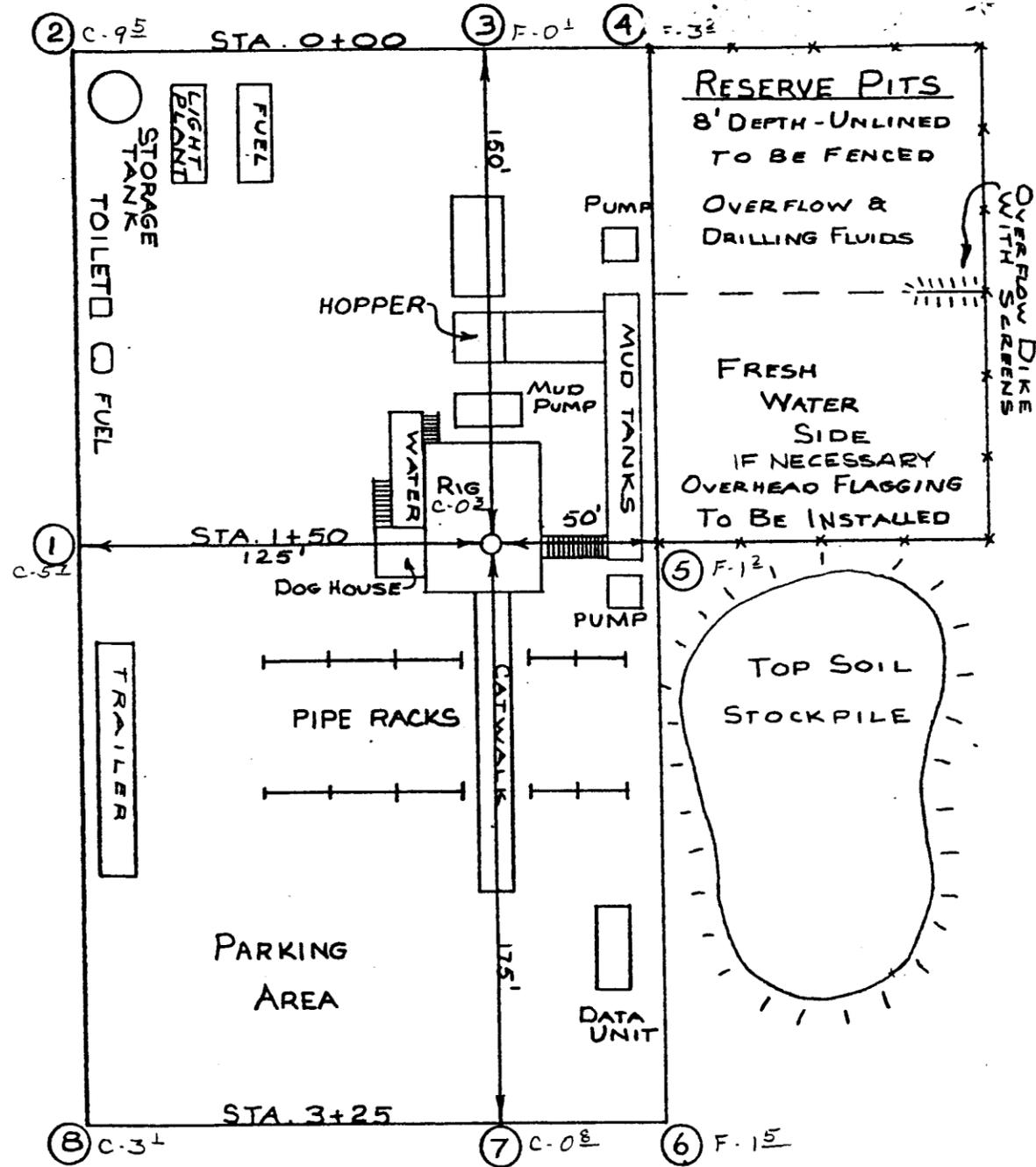


SCALE 1" = 4 Mi.

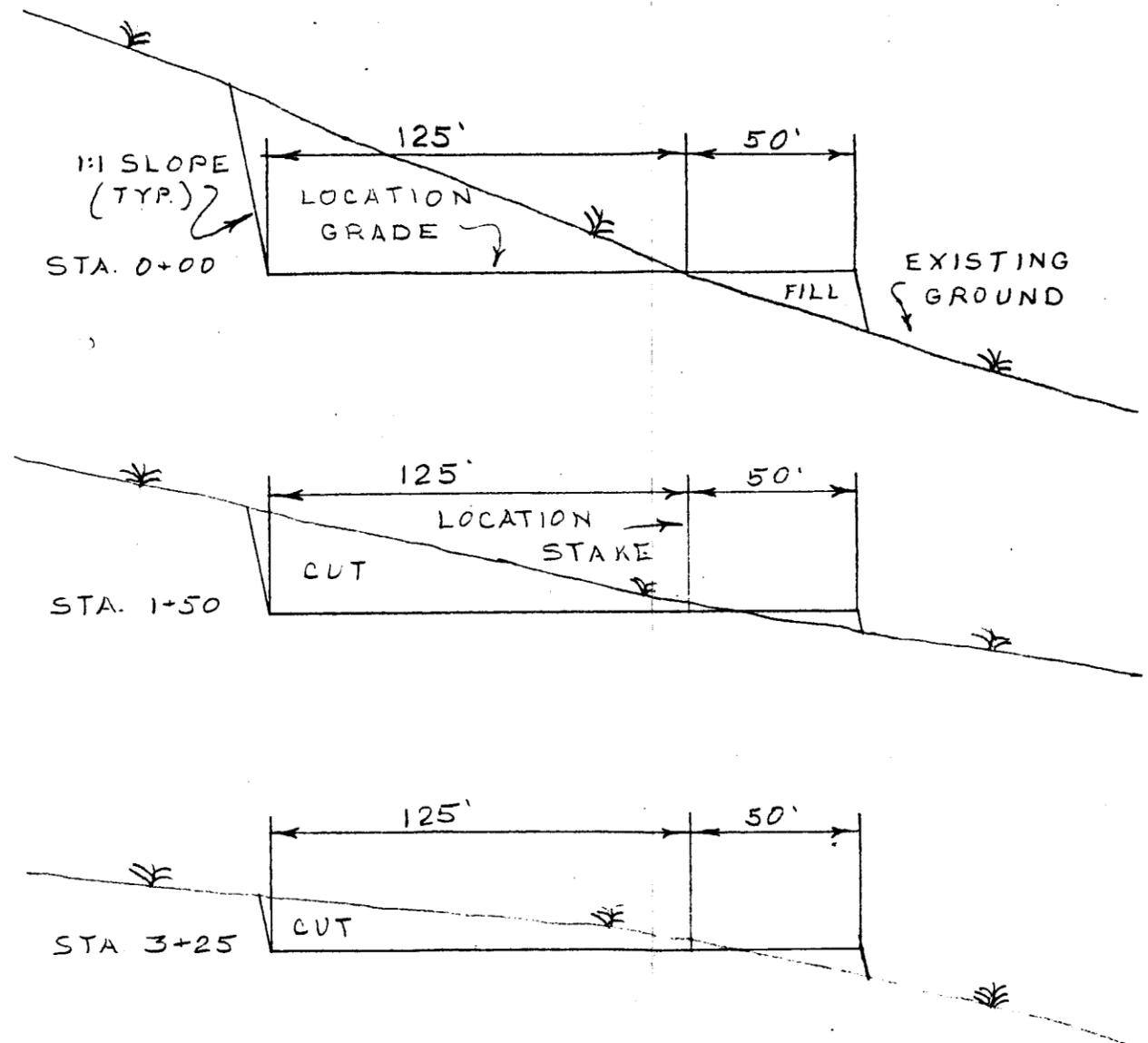


PACIFIC TRANSMISSION SUPPLY Co.

PTS. # 23-17 FEDERAL  
 LOCATION LAYOUT & CUT SHEET  
 SEC. 17, T9S, R24E, S.L.B. 8M

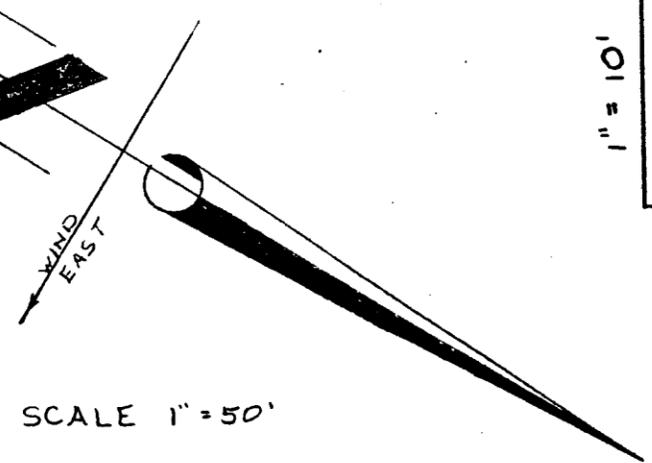
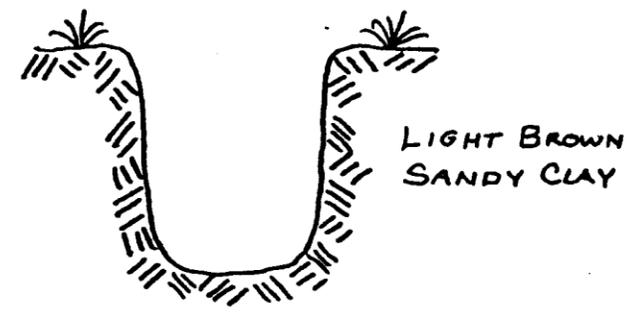


CROSS SECTIONS



SCALE  
 1" = 50'

SOILS LITHOLOGY  
 - NO SCALE -



APPROX YARDAGES

CUT -	5,009	CU. YDS.
FILL -	493	CU. YDS.

PROPOSED LOCAT ON  
P.T.S. #23-17 FEDERAL

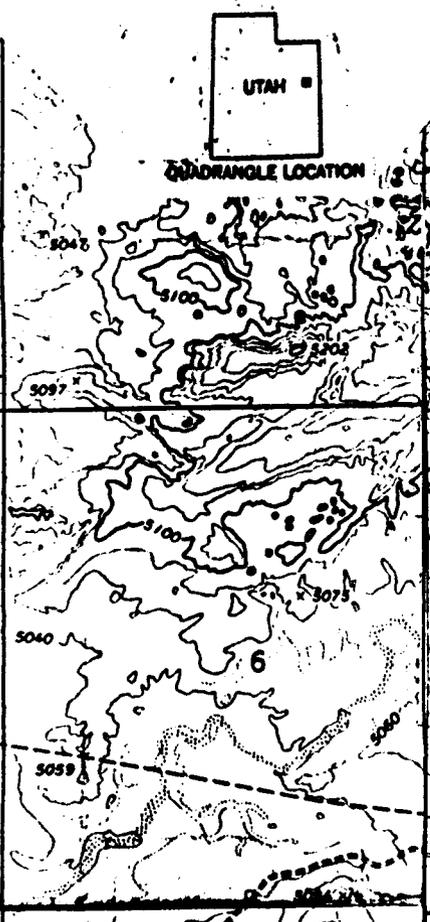
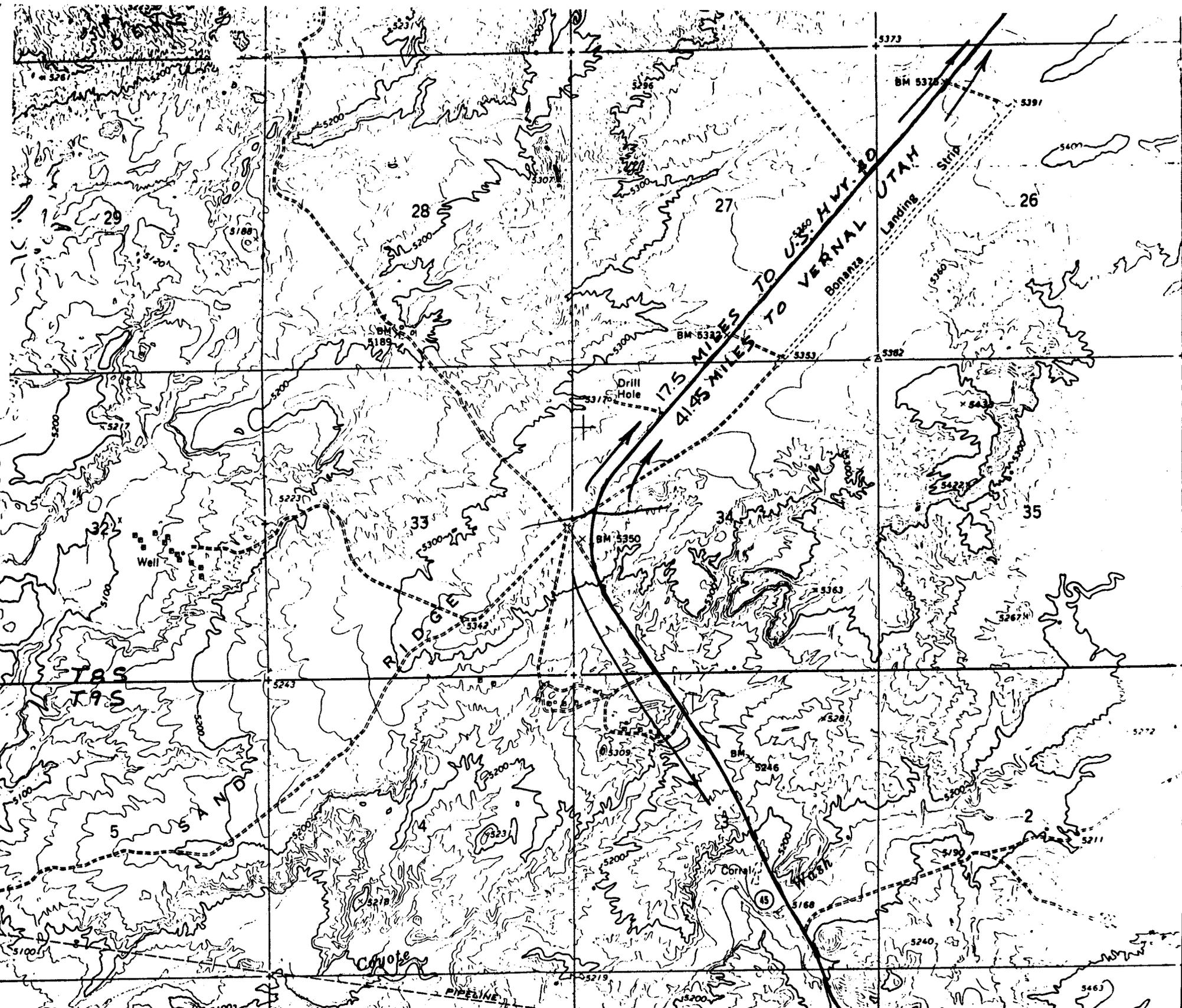
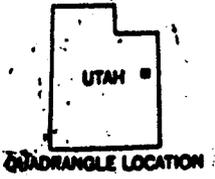
TOPO. MAP "B"

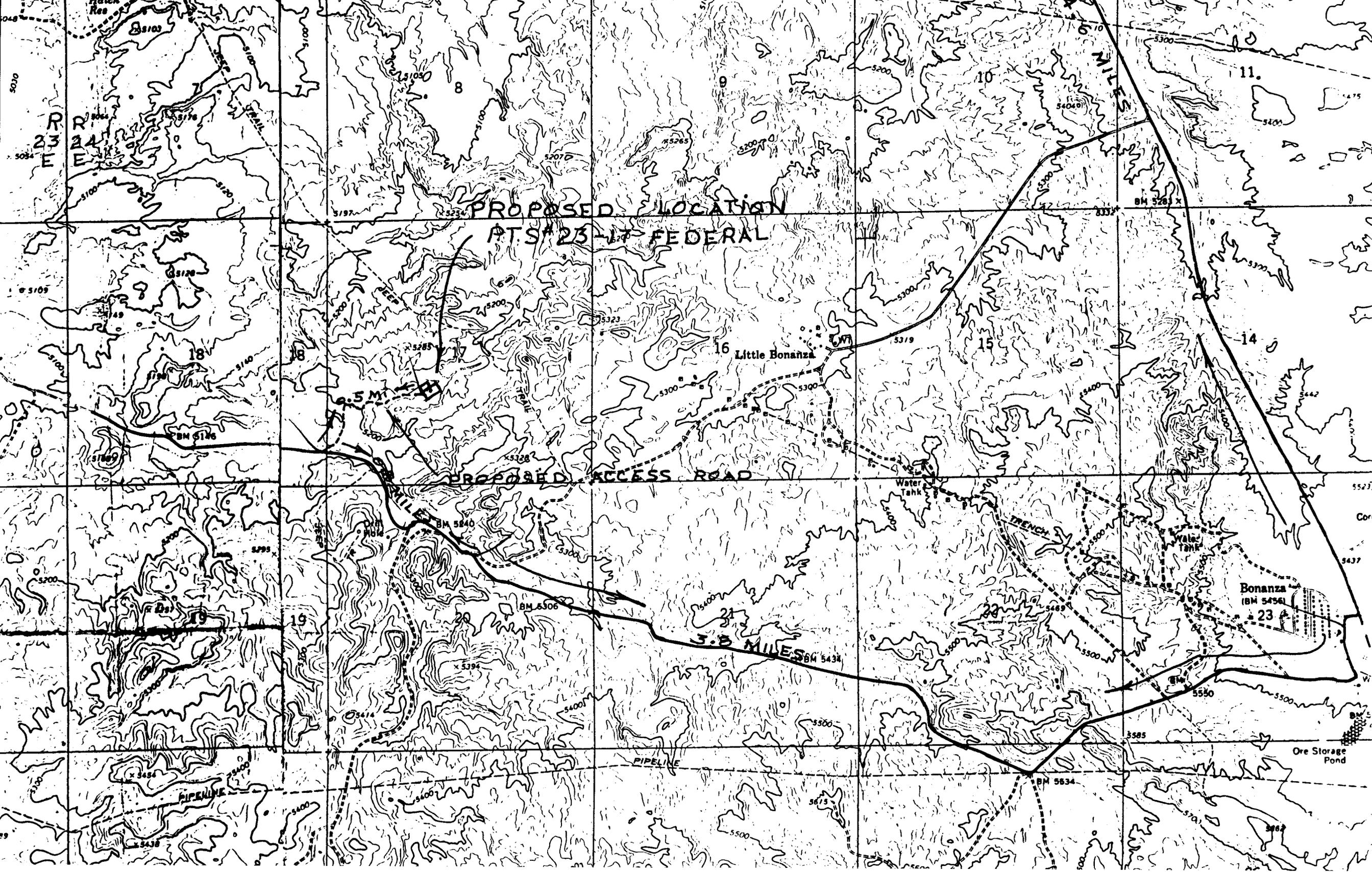


SCALE 1" = 2000'

ROAD CLASSIFICATION

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





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.  
**31266**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
**Devils Playground**

8. FARM OR LEASE NAME  
**Federal**

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**23-17**

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**Section 17, T9S, R24E**

12. COUNTY OR PARISH  
**Uintah**

13. STATE  
**Utah**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER   
 SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
**Pacific Transmission Supply Company**

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At proposed prod. zone  
**1923' FSL, 2080' FWL, NE SW Section 17, T9S, R24E, S.L.B. & M.**

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**51 miles SE of Vernal, Utah**

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**727' (+)**

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**1600 (+)**

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**160**

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**7100'**

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**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5243' Ungraded Ground, 5257' KB estimated**

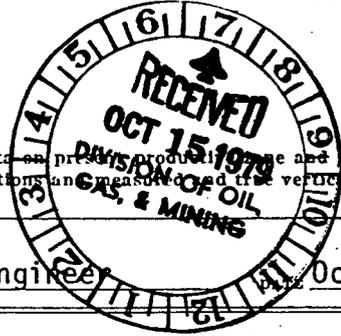
22. APPROX. DATE WORK WILL START\*  
**Upon receipt of approval**

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	2800	300 sacks
7-7/8	4-1/2	11.6	7100	As necessary to protect all productive intervals.

Operator proposes to drill to 7100' 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 program and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attached Pressure Control 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. Following commencement, drilling operations will continue for approximately 30 days.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
 DATE 10-16-79  
 BY M. J. Minder



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

24. SIGNED R. J. Firth TITLE Petroleum Engineer DATE October 11, 1979

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

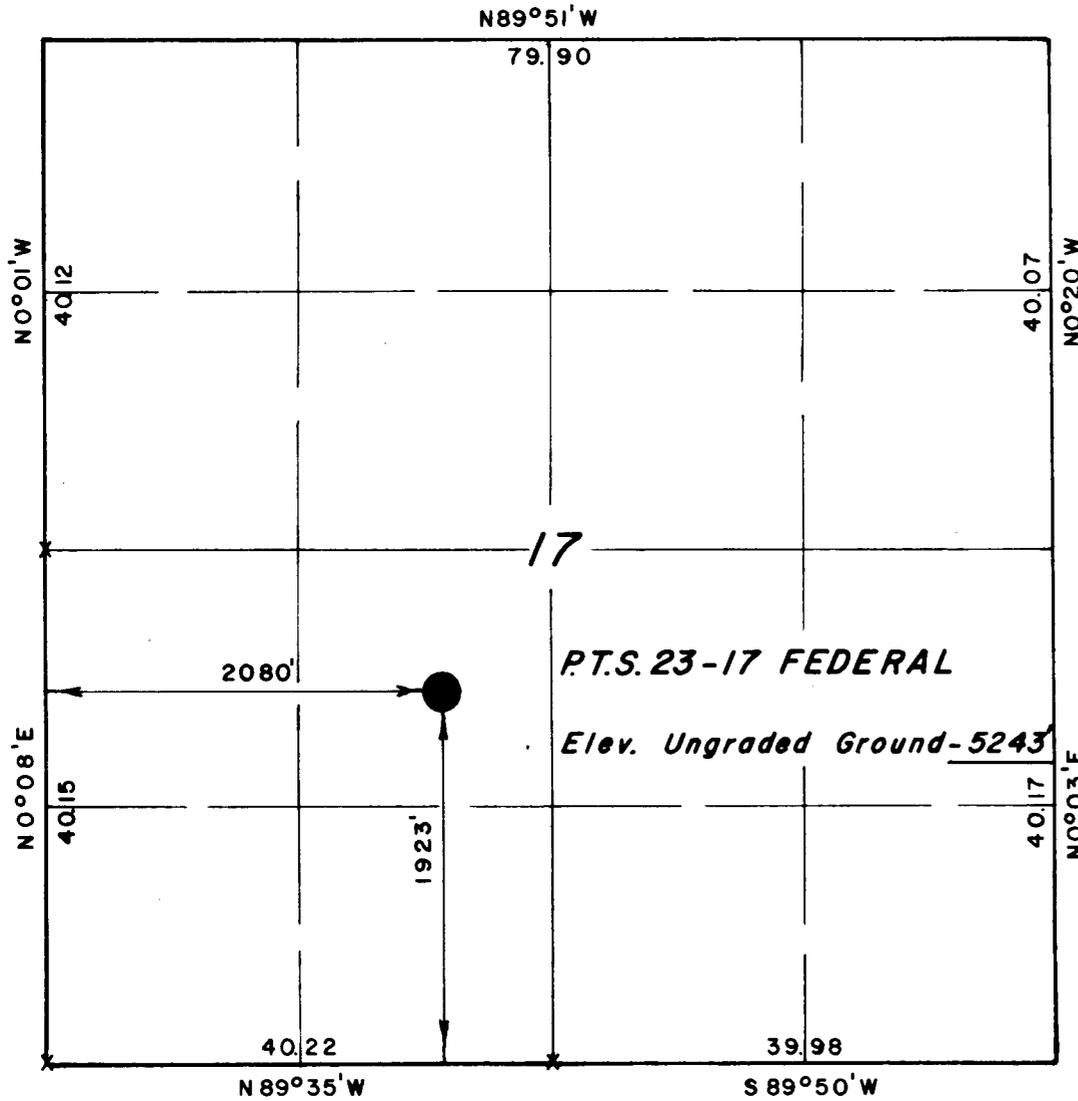
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:  
 3-USGS, SLC, UT; 1-Birt of OG&M, SLC, UT; 1-JLWroble; 1-ERHenry; 1-EEMulholland; 1-File

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

PROJECT  
PACIFIC TRANSMISSION SUPPLY CO.

Well location, P.T.S. # 23-17 FEDERAL  
located as shown in the NE 1/4 SW 1/4  
Section 17, T9S, R24E, S.L.B. & M. Uintah  
County, Utah.



X = Section Corners Located



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.

*James E. Scott*  
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	12/8/78
PARTY	L.D.T. D.S. W.J. S.M.	REFERENCES	GLO Plat
WEATHER	Cold, Overcast & Windy	FILE	PACIFIC TRANSMISSION

WELL PROGRAM

WELL: PTS #23-17 Federal

LOCATION: 1923' FSL, 2080' FWL, (NE SW), Section 17, T9S, R24E

DRILLING CONTRACTOR: To be selected.

ELEVATION: 5243' Ungraded Ground, 5257' KB estimated

<u>FORMATION TOPS:</u>	<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
	Green River		
	Parachute Creek	1388'	+3855
	H-Marker	2868'	+2375
	Wasatch	4213'	+1030
	Mesaverde	6048'	- 805
	Total Depth	7100'	

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' - 2800' 12-1/4" hole to 2800'. Dual Induction Laterolog, Borehole Compensated Sonic and Compensated Formation Density logs.
- 2800' - 7100' 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 geologist 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:**

<u>Interval (Feet)</u>	<u>Mud Weight (lbs/gal)</u>	<u>Viscosity (secs/qt)</u>	<u>Fluid Loss (cc's/30 min)</u>
0 - 150'	-----AIR-----		
	Set 13-3/8" casing at 150'.		
150 - 2800'	8.4 - 8.8	27 -29	No Control
	<p>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.</p>		
	Set 9-5/8" intermediate casing at 2800'.		
2800 - 6000'	8.6 - 9.0	27 - 34	No Control
	<p>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.</p>		
6000 - TD	8.9 - 9.6	32 - 36	12 cc's or less
	<p>As it becomes necessary, or at approximately 6000' 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.</p>		
	Set 4-1/2" production casing at TD.		

<u>CASING PROGRAM:</u>	<u>Size, Wt. &amp; Grade</u>	<u>Setting Depth</u>	<u>Hole Size</u>	<u>Cement Requirements</u>
	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	2800'	12-1/4"	Approximately 300 sacks to be verified after caliper log is run.
	4-1/2", 11.6#, N80 New	7100'	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 #23-17

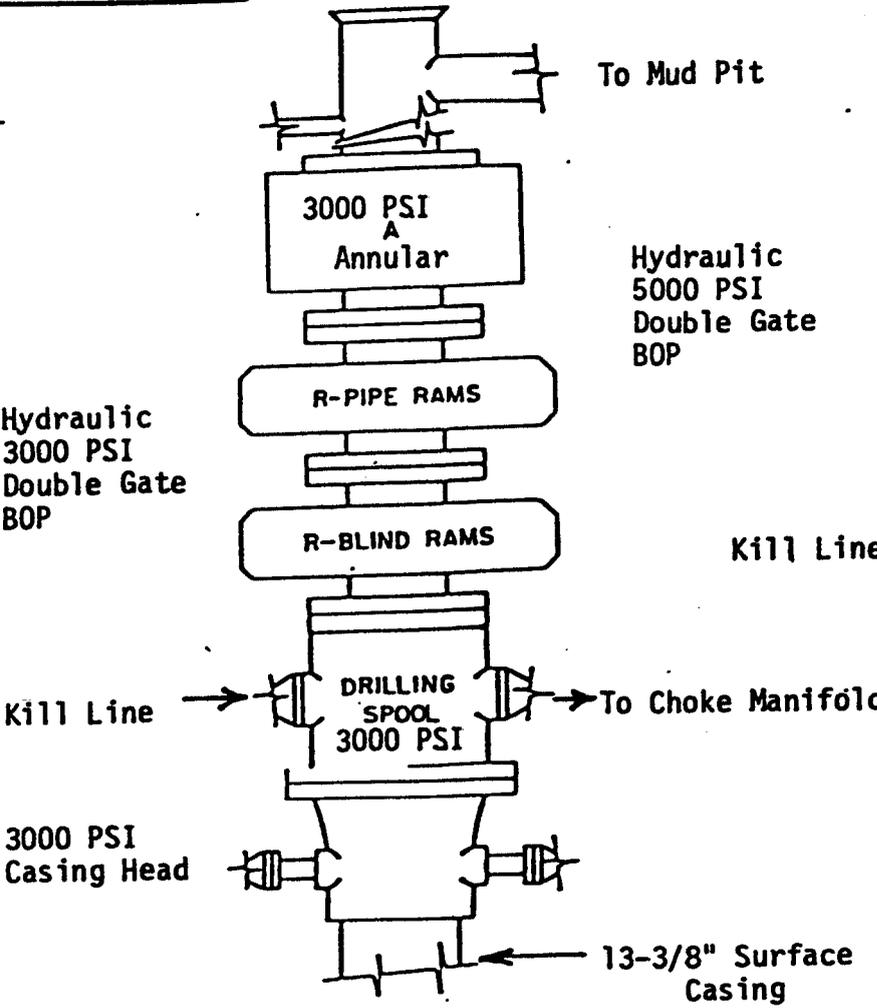
- 1) Move in air percussion rig and drill 17-1/2" hole to 150'. Set and cement 13-3/8", 48.0#, H-40 casing to surface with approximately 200 sacks cement.
- 2) Move in rotary drilling rig and equipment. Cut off 13-3/8" casing and install 3000# casing flange. Install BOP equipment per BOP and Pressure 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 2800' (+). 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:

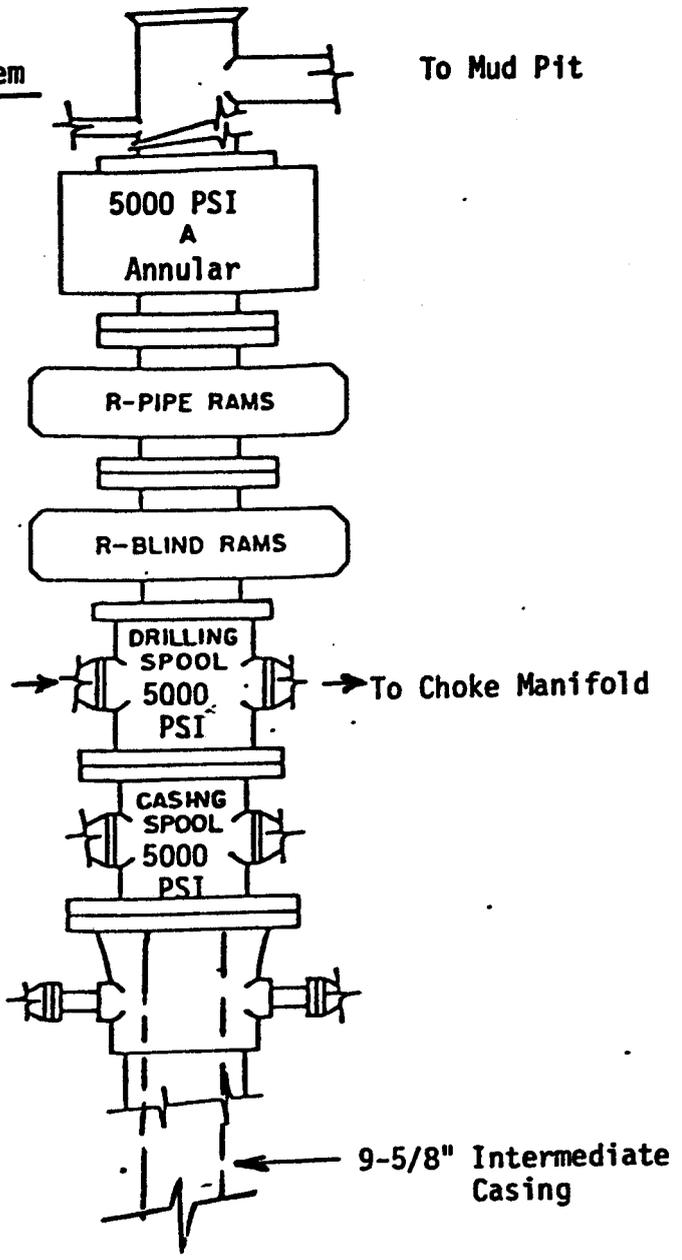
- 1) Run deviation surveys at regular intervals and in conjunction with bit trips.
- 2) Utilize a degasser and necessary solids control equipment.
- 3) Avoid surging hole on trips and fill hole properly when pulling pipe.
- 4) All crew members should be familiar with BOP operations. Functional test pipe 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**



**10" BOP System**



Hydraulic  
3000 PSI  
Double Gate  
BOP

Hydraulic  
5000 PSI  
Double Gate  
BOP

**TEST SCHEDULE**

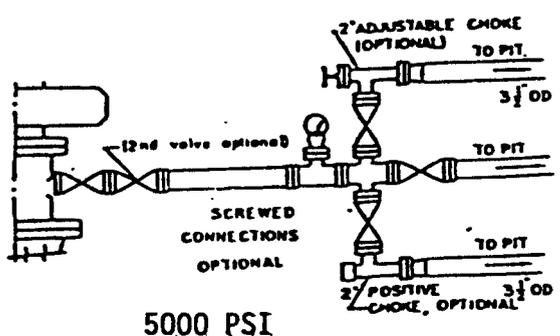
12" BOP System & 13-3/8" Casing  
to 2500 PSI.

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.



**CHOKE-MANIFOLD DESIGN**

**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:**

Dee 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, Wyoming 82602  
Attn: Mr. D. E. Beardsley

Pacific Transmission Supply Company  
85 South 200 East  
Vernal, Utah 84078  
Attn: Mr. R. J. Firth

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

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. Gynn

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

13 Point Surface Use Plan

for

Well Location

P.T.S. #23-17 Federal

Located In

Section 17, T9S, R24E, S.L.B. & M.

Uintah County, Utah

PACIFIC TRANSMISSION SUPPLY COMPANY  
P.T.S. #23-17 Federal  
Section 17, 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. #23-17 Federal, located in Section 17, 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 22 miles to Bonanza, Utah and the junction of this road and a gravel surface road to the West; proceed Westerly along this road 4.6 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 SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  Section 18, T9S, R24E, S.L.B. & M., and proceeds in a Northeasterly 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  $1\frac{1}{2}$  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 a 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 along relatively flat area and then up onto a small ridge and is vegetated with sparse 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, plans for a gas flow line for 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 5 miles East of the proposed 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.

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

7. METHODS FOR HANDLING WASTE DISPOSAL - continued

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 waste and garbage 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. 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, and 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.

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. District Manager when

10. PLANS FOR RESTORATION OF SURFACE - continued

the moisture content of the soil is adequate for 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 a 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 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.

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

P.T.S. #23-17 Federal is located on top of a small ridge which slopes to the North-east.

The majority of the drianages 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.

PACIFIC TRANSMISSION SUPPLY COMPANY  
P.T.S. #23-17 Federal  
Section 17, T9S, R24E, S.L.B. & M.

11. OTHER INFORMATION - continued

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

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

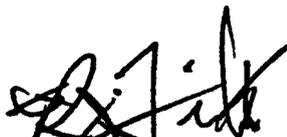
Tele: 789-4573

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 11 1979

DATE



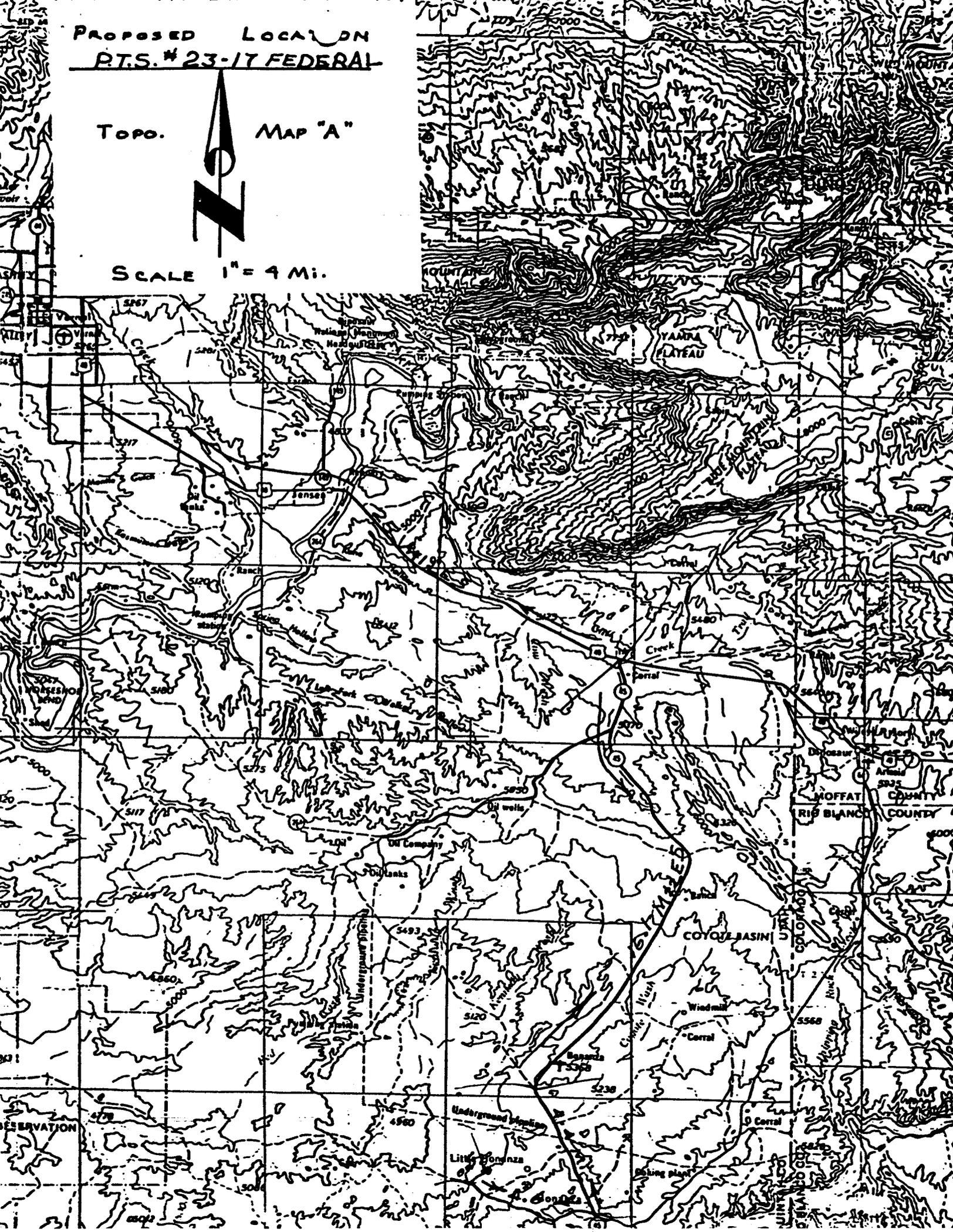
R. J. Firth  
Petroleum Engineer

PROPOSED LOCAL ON  
R.T.S. # 23-17 FEDERAL

TOPO.

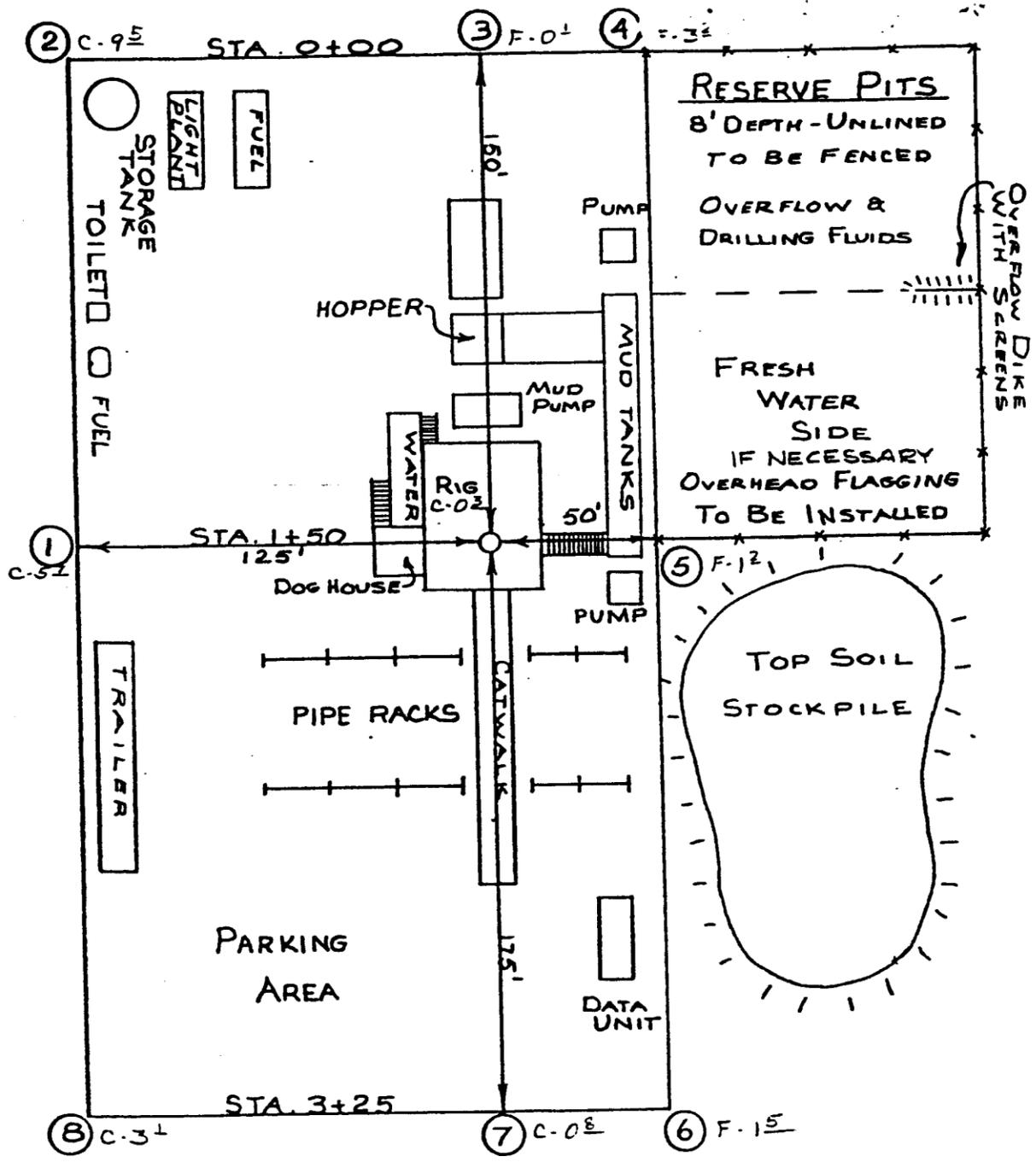
MAP "A"

SCALE 1" = 4 MI.

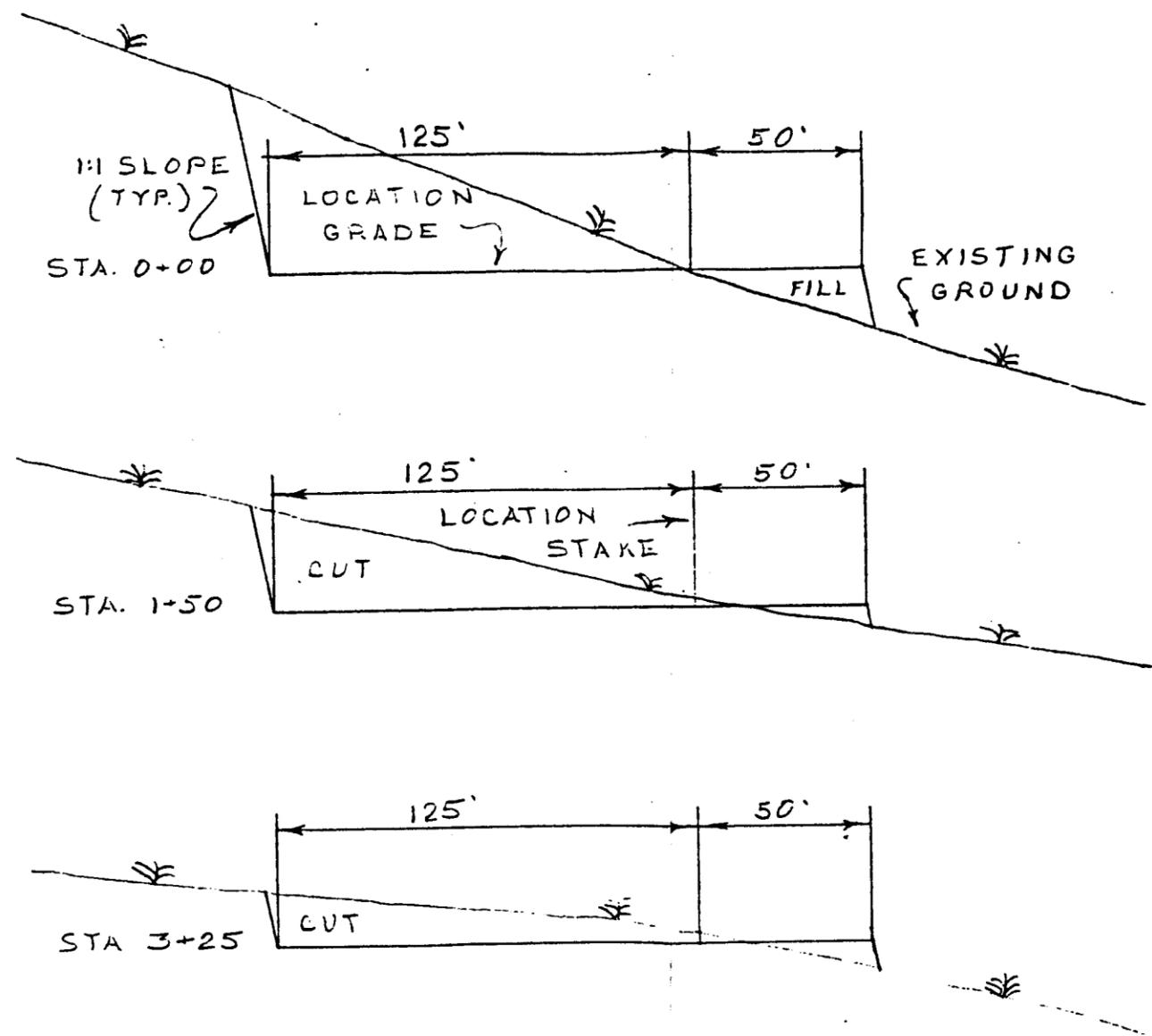


PACIFIC TRANSMISSION SUPPLY Co.

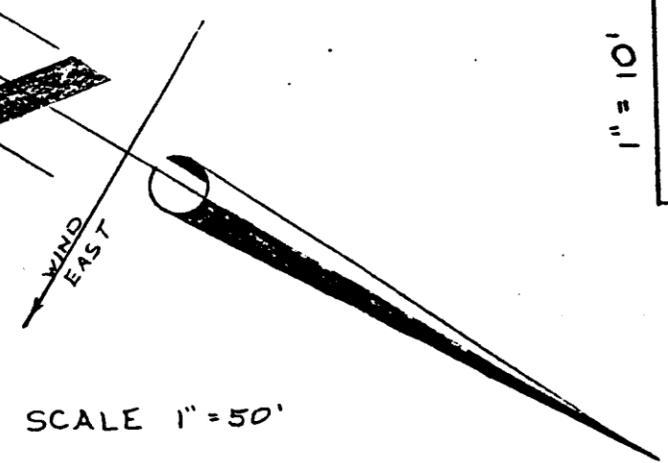
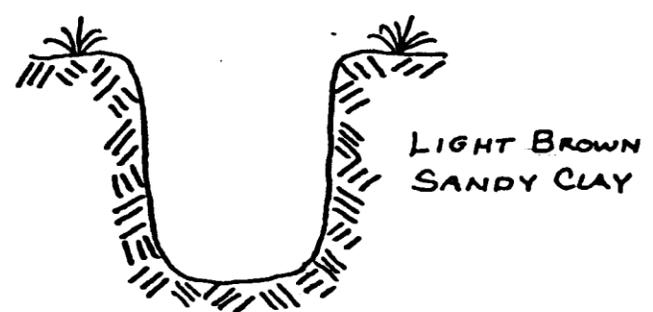
PTS. # 23-17 FEDERAL  
 LOCATION LAYOUT & CUT SHEET  
 SEC. 17, T9S, R24E, S.L.B. & M



C  
R  
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SOILS LITHOLOGY  
 - NO SCALE -

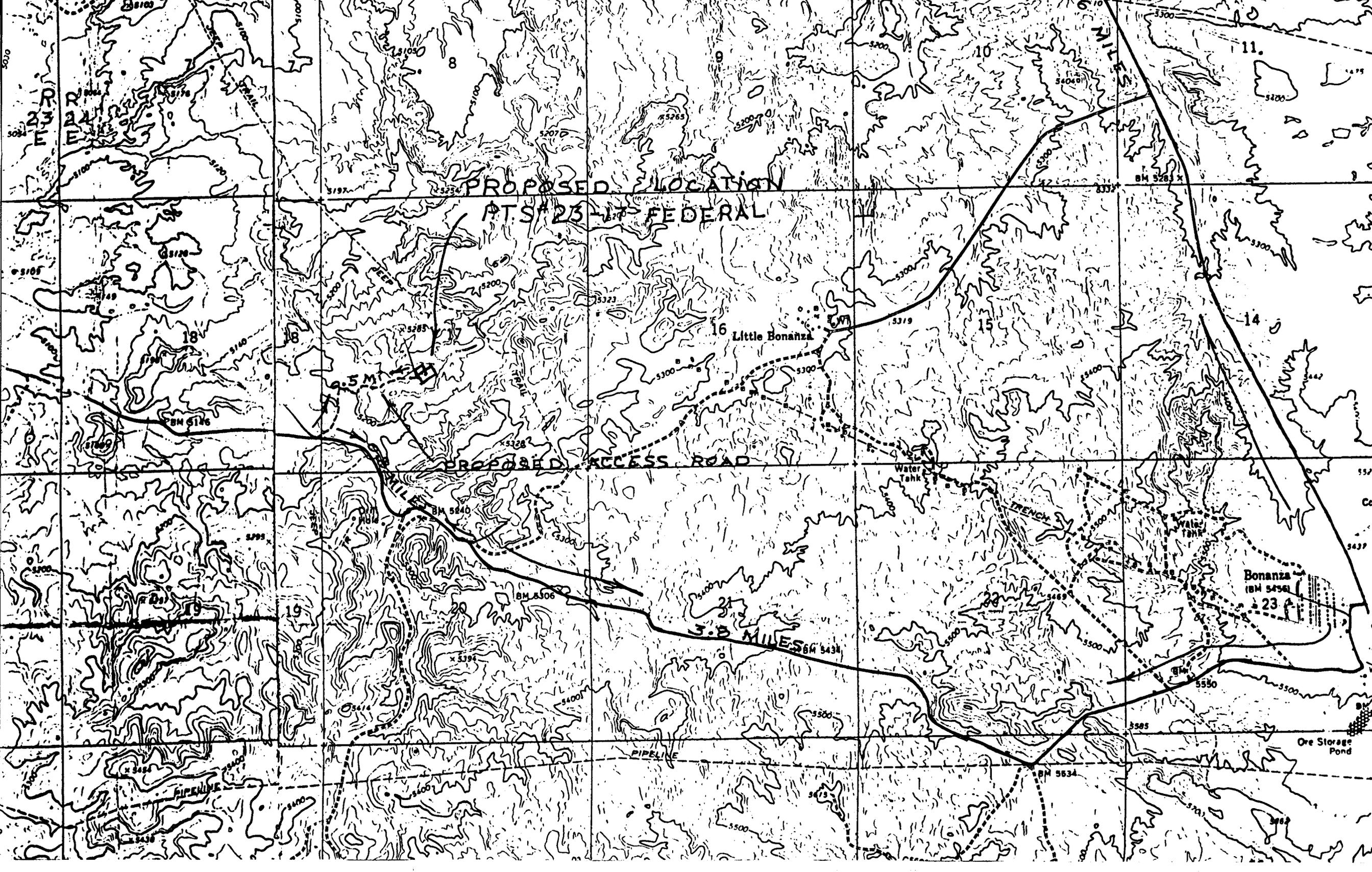


SCALE  
 1" = 50'

APPROX YARDAGES

CUT - 5,009 CU. YDS.  
 FILL - 493 CU. YDS.





**PACIFIC TRANSMISSION SUPPLY COMPANY**

**SUPPLEMENT**

**to**

**13 Point Surface Use Plan**

**Well Location**

**P.T.S. #23-17**

**Section 17, 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 SE 1/4 SE 1/4 Section 18, T9S, R24E, S.L.B. & M., and proceeds in a north-easterly 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 known wells within a one mile radius are identified as follows:

- (1) Water Wells - None
- (2) Abandoned Wells - 1 (one), PTS #11-20, NWNW, Section 20, T9S, R24E, S.L.B. & M.
- (3) Temporarily abandoned wells - None
- (4) Disposal Wells - None
- (5) Drilling Wells - None
- (6) Producing Wells - 1 (one), PTS #1-18, NWNE, Section 18, 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

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. #23-17 Federal  
Section 17, 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 west or at approximately point 3 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.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

\*\* FILE NOTATIONS \*\*

Date: Jan. 22-  
Operator: Pacific Transmission  
Well No: Devils Playground  
Spd 23-17  
Location: Sec. 17 T. 9S R. 24E County: Utah

File Prepared:  Entered on N.I.D.:   
Card Indexed:  Completion Sheet:

API NUMBER: 43-047-30568

CHECKED BY:

Administrative Assistant [Signature]

Remarks: Unit Well

Petroleum Engineer M. J. M.

Remarks:

Director [Signature]

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

DUPLICATE  
(Other instructions on reverse side)

LEASE DESIGNATION AND SERIAL NO.

U-31266

6. IF INDIAN, ALLOTTED OR TRIBE NAME

7. UNIT AGREEMENT NAME

Devils Playground

8. FARM OR LEASE NAME

Federal

9. WELL NO.

23-17

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 17, T9S, R24E

12. COUNTY OR PARISH 13. STATE

Uintah Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL

DEEPEN

PLUG BACK

b. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR

P.O. Box 3093, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface  
1923' FSL, 2080' FWL, NE SW Section 17, T9S, R24E, S.L.B. & M.

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

51 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)

727' (+)

16. NO. OF ACRES IN LEASE

1600 (+)

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

7100'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5243' Ungraded Ground, 5257' 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	2800	BACK TO 300 sacks SURE
7-7/8	4-1/2	11.6	7100	As necessary to protect all productive intervals.

Operator proposes to drill to 7100' 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 program and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attached Pressure Control 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. Following commencement, drilling operations will continue for approximately 30 days.

RECEIVED

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*

R. A. Firth

TITLE

Petroleum Engineer DIVISION OF OIL, GAS & MINING

OCTOBER 11, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

(Orig. Sgd.) R. A. Henricks

TITLE

ACTING DISTRICT ENGINEER

DATE

FEB 22 1980

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

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

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

*Utah O & G*

FROM: : DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. 431266

OPERATOR: Pacific Transmission Supply

WELL NO. 23-17

LOCATION: NE 1/4 SW 1/4 sec. 17, T. 9S, R. 24E, 56M

Uintah County, Utah

1. Stratigraphy:

Surface - Uintah Fm  
Green River - 900'  
Parachute Creek Mbr - 1390  
Mahogany bed - 1920  
Douglas Creek Mbr - 2600'  
Wasatch - 4210  
Mesa Verde - 6050

2. Fresh Water:

probable usable aquifer in top of Parachute Creek, (~1400')  
possible " " in Douglas Creek - (~2600-4200)

3. Leasable Minerals:

oil shale in Parachute Creek 1400 - 2600 - especially around  
mahogany bed

oil +/or gas in Wasatch +/or Mesa Verde

4. Additional Logs Needed:

adequate

5. Potential Geologic Hazards:

slight geopressuring from mid Wasatch (5100') 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 #23-80

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

Usual Environmental Analysis

Lease No.: U-31266

Operator: Pacific Transmissions Supply Company Well No.: 23-17

Location: 1923' FSL & 2080' FWL \* Sec.: 17 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 Supply
Red Case	Ross Construction

Related Environmental Analyses and References:

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

Analysis Prepared by: Greg Darlington	Reviewed by: George Diwachak
Environmental Scientist	Environmental Scientist
Vernal, Utah	Salt Lake City, Utah

Date: November 6, 1979

T.M.

Noted - G. Diwachak

*Process changed  
 Red 175 x 375  
 100 x 150  
 100 x 150  
 Flow line  
 29/10  
 1/11*

Proposed Action:

On October 16, 1979, Pacific Transmission Supply Company filed an Application for Permit to Drill the No. 23-17 development well, a 7100 ft. gas test of the Wasatch and Mesaverde Formations; located at an elevation of 5243 ft. in the NE $\frac{1}{4}$  SW $\frac{1}{4}$  Section 17, T. 9S., R. 24E. on Federal mineral lands and public surface; lease No. U-31266. 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 .6 miles long from a maintained road. This new access road would be crowned and any needed drainage ditches would also be constructed with respect to it as indicated in the 13-Point plan of the APD. 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 51 miles Southeast of Vernal, Utah, the nearest town. A fair road runs to within .5 miles of the location. This well is in the Devils Playground unit.

Topography:

The location is on a fairly level sloping hillside. The access road crosses two large washes before reaching this hillside. Some Gilsonite mining is located about one half mile to the Southeast of the location.

Geology:

The surface geology is the Green River formation.

The soil is a sandy clay with well mixed oil and shale 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/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 hydro-carbon 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 2.9 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, occurring 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 to the White River through a non-perennial drainage. The White River is a tributary of the Green River.

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:

Vegetation consists of sagebrush, native grasses and other plants in the area of the salt-desert-shrub types.

Proposed action would remove about 2.9 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 environ-

mental consequences are not too severe or irreversible. Upon rehabilitation 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.

Mitigative Measures & Stipulations:

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

- A. The proposed access road would be modified to allow for a better low water crossing of the first drainage it crosses after leaving the existing road and to reroute it around a small knoll which it unnecessarily crosses just after crossing the second drainage. Adequate low water crossings will be constructed at the two large washes which the access road crosses.

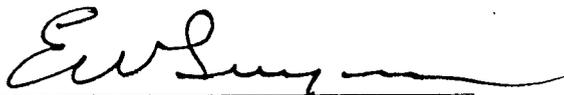
Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 2.9 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 commitment 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 White River 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 12/26/79

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



Well 23-17 FTS  
Sec 17, T9S, R24E



Well 23-17  
Pacific Transmission  
Supply Sec 17 T9S, R24E

DUPLICATE COPY  
**PACIFIC TRANSMISSION SUPPLY COMPANY**  
**Natural Gas Corporation of California**

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

February 27, 1980

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

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

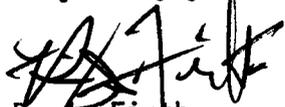
Mr. J. Milton Wege  
RALPH E. DAVIS & ASSOCIATES  
500 Jefferson, Suite 2031  
Houston, TX 77002

Re: PTS #23-17 Federal, Devils Playground  
NE SW Section 17, T9S, R24E  
Uintah County, UT

Gentlemen:

Enclosed is your approved copy of Form 9-331, Application for Permit to Drill, Deepen, or Plug Back 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)

**RECEIVED**

FEB 28 1980

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**DUPLICATE COPY**  
-31266

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. -31266		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR Pacific Transmission Supply Company			7. UNIT AGREEMENT NAME Devils Playground		
3. ADDRESS OF OPERATOR P.O. Box 3093, Casper, Wyoming 82602			8. FARM OR LEASE NAME Federal		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface: 1923' FSL, 2080' FWL, NE SW Section 17, T9S, R24E, S.L.B. & M. At proposed prod. zone:			9. WELL NO. 23-17		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 51 miles SE of Vernal, Utah			10. FIELD AND POOL, OR WILDCAT		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY ON LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 727' (+)		16. NO. OF ACRES IN LEASE 1600 (+)		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 7100'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5243' Ungraded Ground, 5257' 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	2800	300 sacks <i>Sria #7</i>
7-7/8	4-1/2	11.6	7100	As necessary to protect all productive intervals.

Operator proposes to drill to 7100' 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 program and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attached Pressure Control 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. Following commencement, drilling operations will continue for approximately 30 days.

**RECEIVED**

FEB 28 1980

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 DIVISION OF OIL, GAS & MINING DATE October 11, 1979

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY *RA Henrich* TITLE ACTING DISTRICT ENGINEER DATE FEB 22 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

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

*Operator*

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Pacific Transmission Supply Well No. 23-17  
Location Sec. 17-9S-24E Lease No. U-31266

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

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended for more than 30 days, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Engineer must be notified at least 48 hours in advance of the plugging of the well, in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a

follow-up report on form 9-331 should be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the District Engineer within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Engineer's office on a frequency and form or method as may be acceptable to the District Engineer.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed in duplicate directly with the U.S. Geological Survey Area Office, P.O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Engineer. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6 and prior approval by the District Engineer.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) ~~(are not)~~ involved at this location. Accordingly, you (must) ~~(need not)~~ notify ~~this office and~~ the Surface Management Agency at least 24 hours prior to commencing field operations to allow ~~this office and/or~~ the Surface Management Agency office to have personnel present for consultation during the construction of roads and locations.

The Surface Management Agency contact is: Cory Bodman, BLM  
Office Phone: 801-789-1362, Home Phone: \_\_\_\_\_  
City: Vernal, State: Utah

The U.S. Geological Survey District Office address and contacts are:

Address: 2000 Administration Building, 1745 West 1700 South, S.L.C., UT 84104  
Office Phone (801) 524-4590  
District Engineer E. W. Gynn Home Phone: 582-7042  
Asst. Dist. Engineer W. P. Martens Home Phone: 466-2780  
Asst. Dist. Engineer R. A. Henricks Home Phone: 484-2294

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil, and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed for prior approval of the District Engineer, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Engineer's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This application is valid for a period of one year from the date of approval. No extensions will be considered. If the application terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, future operations will require a new application be filed for approval.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SUPPLEMENTAL STIPULATIONS OF APPROVAL CONTINUED

Pacific Transmission Supply  
Well No. 23-17  
Sec. 17-9S-24E  
Uintah County, Utah  
Devils Playground Unit  
Lease No. U-31266

Supplemental Stipulations:

1. The top 4 to 6 inches of soil materials will be stockpiled as indicated in Location Layout Sheet.
2. The BLM must be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding and restoration requirements.
3. A burn pit will not be constructed. There will be no burning or burying of trash or garbage at the well site. Refuse must be contained and hauled to an approved disposal site.
4. A wire mesh or web type fence will be used around the reserve pits.
5. The access road will be slightly relocated to reduce the amount of cut required, and to avoid excessive snowdrift problems. The new route was reflagged during the on-site examination. Adequate low water crossings will be constructed at the two large washes which the access road crosses. Natural drainages will not be obstructed.
6. It was agreed to by all parties present that the applied-for pad dimensions are adequate to handle all drilling and fracturing operations.
7. Adequate and sufficient electric/radioactive logs will be run to locate and identify the prime oil shale horizons in the Green River formation. Cementing program for the 9-5/8" intermediate casing will require circulation of cement to the surface to adequately protect the Green River oil shale section and "Birds Nest" aquifer.

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  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1923' FSL, 2080' FWL, NE SW  
AT TOP PROD. INTERVAL: Section 17, T9S, R24E  
AT TOTAL DEPTH: S.L.B.&M.

5. LEASE  
U-31266

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Devil's Playground

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
23-17

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 17, T9S, R24E

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5243' GR

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      

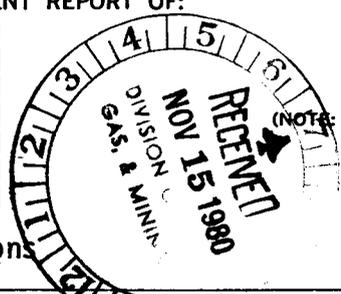
PULL OR ALTER CASING      

MULTIPLE COMPLETE      

CHANGE ZONES      

ABANDON\*      

(other) Commencing Drilling Operations      



(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.\*

September 26 thru 30, 1980: Moved in air drilling equipment. Spudded 17½" surface hole 9/26/80. Drilled 17½" hole to 155'. Ran 5 jts. 13-3/8", 48.0#, H40 surface casing with float shoe and 2 centralizers. Landed casing at 150' GL and cemented with 150 sacks Class G cement. Good circulation throughout job and cement circulated to surface. Rigged down equipment.

December 6 thru 11, 1980: Moved in and rigged up rotary drilling rig. Installed flange on 13-3/8" surface casing and installed and pressure tested 12" - 3,000# BOP equipment. Picked up 12½" bit and 9" drill collars. Drilled cement and shoe and drilled out below 13-3/8" casing at 8:45 p.m., 12-11-80.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED R. J. Firth TITLE District Super. DATE December 12, 1980

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:  
cc: USGS, UT (3); OG&M, UT (1); E. J. Gelwick (1); E. R. Henry (1); C. T. Clark (1)

\*See Instructions on Reverse Side

JS-164-A

COMPANY NATURAL GAS OF CALIFORNIA  
WELL FEDERAL #23-17  
TEST NO. 1  
COUNTY UINTAH  
STATE UTAH

RECEIVED

JAN 9 1931

DIVISION OF  
OIL, GAS & MINING

**JOHNSTON-MACCO**  
**Schlumberger**

**technical  
report**

FIELD REPORT # 28204 D

----- WELL IDENTIFICATION -----

COMPANY:	NATURAL GAS OF CALIFORNIA	CUSTOMER:	SAME
	85 SOUTH 200 EAST		
	VERNAL, UTAH 84078		
WELL:	FEDERAL #23-17	LOCATION:	SEC. 17 - 9S - 20E
TEST INTERVAL:	4680' TO 4704'	FIELD:	DEVILS PLAYGROUND
TEST NO:	1	TEST DATE:	12-29-80
COUNTY:	UINTAH	STATE:	UTAH
TECHNICIAN:	GREENFIELD (ROCK SPRINGS)	TEST APPROVED BY:	MR. CURTIS WINN

----- EQUIPMENT AND HOLE DATA -----

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	4134	FT.
ELEVATION:	5257	DRILL PIPE I.D.:	3.8	IN.
TOTAL DEPTH:	4704	DRILL COLLAR LENGTH:	510	FT.
MAIN HOLE/CASING SIZE:	7 7/8	DRILL COLLAR I.D.:	2.25	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	4674 & 4680	FT.
FORMATION TESTED:	WASATHA		&	FT.
NET PROD. INTERVAL:	12		&	FT.
POROSITY:	9	DEPTH REF. TO:	KELLY BUSHING	FT.
				%

----- TEST TOOL CHAMBER DATA -----

SAMPLER PRESSURE:	90	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	.37 FT.3			
OIL:	- CC			
WATER:	- CC			
MUD:	150 CC	1.0	50	
FILTRATE:		.7	50	135000
TOTAL LIQUID:	150 CC			

----- MUD DATA -----

TYPE:	BRINE POLYMER		
WEIGHT:	9.8	LB/GAL.	
VISCOSITY:	34	SEC.	
WATER LOSS:	15.0	CC	
FLUID	RESIST (OHM-M)	TEMP (DEG F)	CHLOR (PPM)
MUD:	.8	50	
FILTRATE:	.5	50	143000

----- REMARKS -----

NO. OF REPORTS REQUESTED: 7 (6X)

FIELD REPORT NO. 28204D

----- SURFACE INFORMATION -----

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
OPENED TOOL	0805	-	-
BLOW OFF BOTTOM OF BUCKET			
	0825	15	-
CLOSED FOR INITIAL SHUT-IN	0835	40	-
GAS TO SURFACE	0915	25	-
FINISHED SHUT-IN	1005	-	-
RE-OPENED TOOL	1007	-	-
BLOW OFF BOTTOM OF BUCKET	1010	7	-
OPEN TO PIT	1013	40	1/4"
GAS, 80 MCF/DAY	1018	42	"
GAS, 83 MCF/DAY	1023	45	"
GAS, 85 MCF/DAY	1028	47	"
GAS, 91 MCF/DAY	1032	51	"
GAS, 220 MCF/DAY	1040	55	3/8"
GAS, 180 MCF/DAY	1050	41	"
GAS, 185 MCF/DAY	1100	44	"
GAS, 198 MCF/DAY	1105	46	"
CLOSED FOR FINAL SHUT-IN	1107	-	"
FINISHED SHUT-IN	1507	-	"
PULLED PACKER LOOSE	1508	-	"

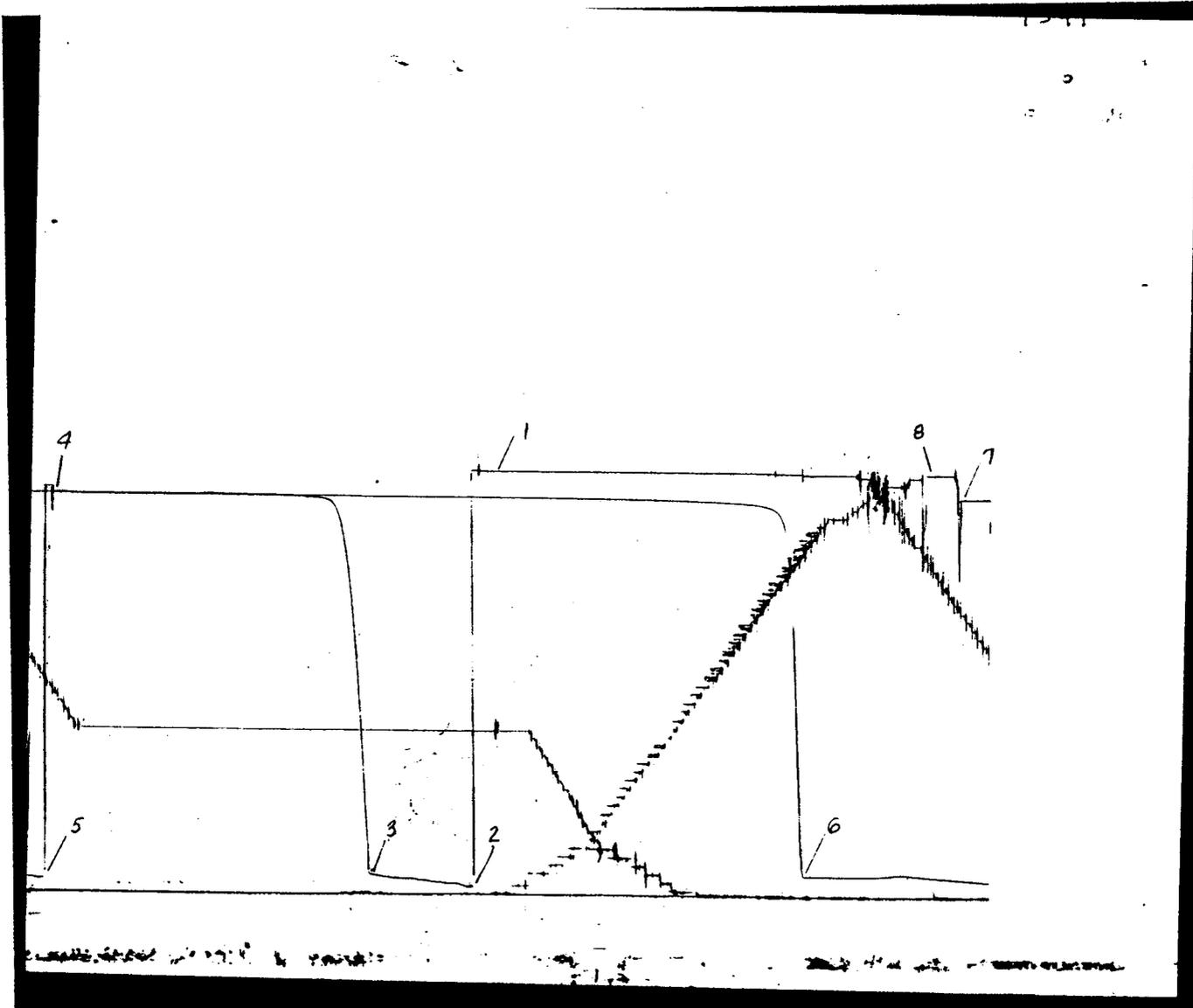
CUSHION TYPE: FT PSIG | 15/16 IN. BOTTOM CHOKE

----- RECOVERY INFORMATION -----

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
GAS CUT MUD	300	1.47								
TOP SAMPLE								.9	50	141000
MIDDLE SAMPLE								1.1	50	144000
BOTTOM SAMPLE								1.1	50	141000

FIELD REPORT NO.: 28204 D CAPACITY: 4700#  
INSTRUMENT NO.: J-1341 NUMBER OF REPORTS: 7-

JOHNSTON  
Schlumberger



# PRESSURE LOG

FIELD REPORT NO. 282040

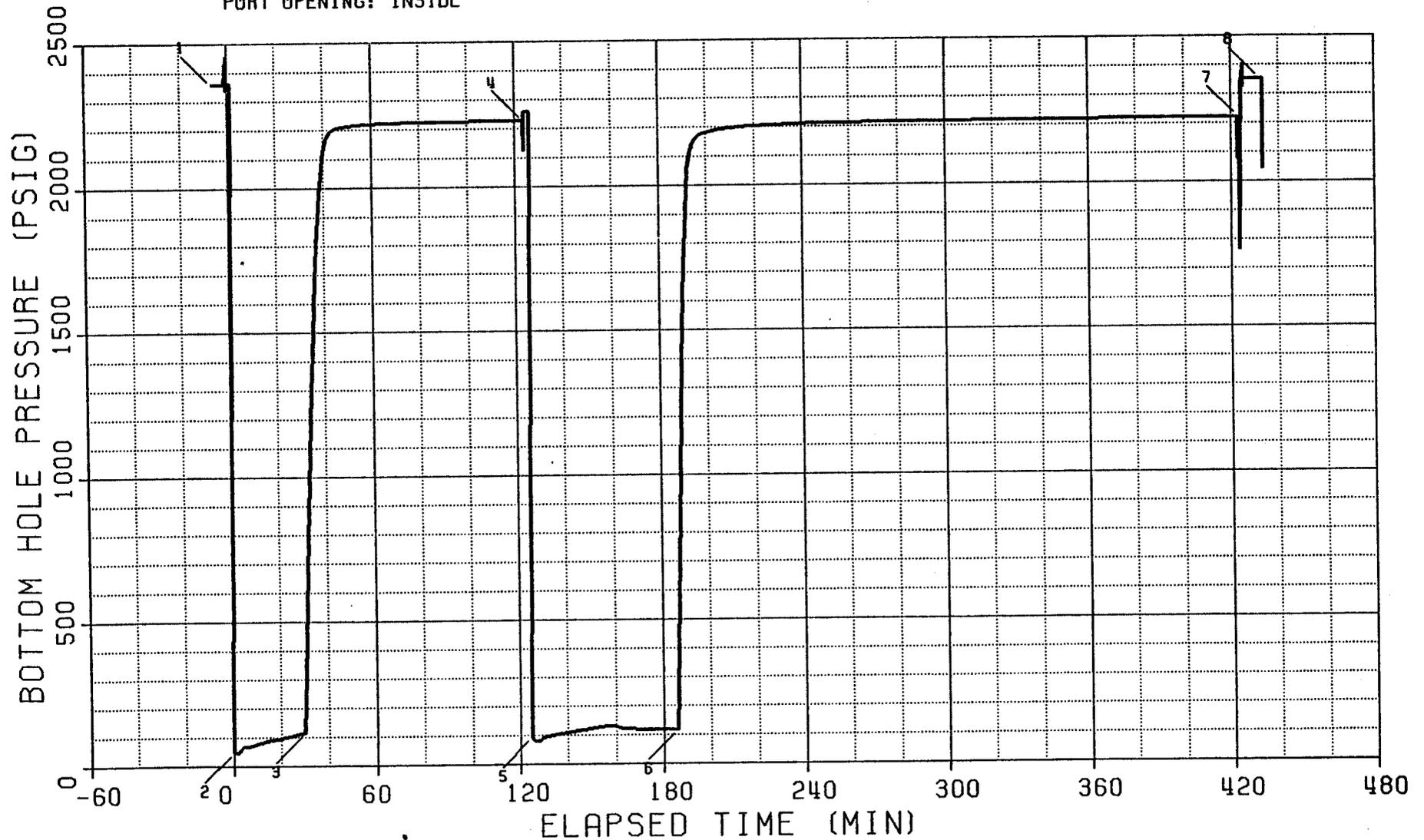
INSTRUMENT:

NUMBER: J-1341

CAPACITY: 4700 PSI

DEPTH: 4656 FT

PORT OPENING: INSIDE



**BOTTOM HOLE PRESSURE AND TIME DATA**

INSTRUMENT NO.: J-1341  
 PORT OPENING: INSIDE

CAPACITY (PSI): 4700  
 BOTTOM HOLE TEMP (F): 215

DEPTH (FT): 4656  
 PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	2358	-6.5
START FLOW	2	50	0.0
END FLOW & START SHUT-IN	3	117	30.0
END SHUT-IN	4	2228	123.4
START FLOW	5	94	124.9
END FLOW & START SHUT-IN	6	119	185.9
END SHUT-IN	7	2223	422.7
HYDROSTATIC MUD	8	2354	431.8

\*\*\*\*\*  
 \* SUMMARY OF FLOW PERIODS \*  
 \*\*\*\*\*

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	30.0	30.0	50	117
2	124.9	185.9	61.1	94	119

\*\*\*\*\*  
 \* SUMMARY OF SHUT-IN PERIODS \*  
 \*\*\*\*\*

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	30.0	123.4	93.4	117	2228	117	30.0
2	185.9	422.7	236.7	119	2223	119	91.1

TEST PHASE : FLOW PERIOD # 1  
\*\*\*\*\*

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
*****	*****	*****
0.0	0.0	50
5.0	5.0	68
10.0	10.0	77
15.0	15.0	89
20.0	20.0	98
25.0	25.0	106
30.0	30.0	116
30.0	30.0	117

TEST PHASE : SHUT-IN PERIOD # 1  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P<sup>WF</sup>"] = 117 PSIG
2. PRODUCING TIME ["T<sub>P</sub>"] = 30.0 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P <sup>WS</sup> "] (PSIG)	LOG [(T + DT)/DT] P	DELTA PRESSURE [P <sup>WS</sup> - P <sup>WF</sup> ]
*****	*****	*****	*****	*****
30.0	0.0	117		0
31.0	1.0	422	1.492	305
32.0	2.0	689	1.204	573
33.0	3.0	979	1.042	862
34.0	4.0	1237	0.930	1120
35.0	5.0	1463	0.845	1346
36.0	6.0	1659	0.778	1543
37.0	7.0	1832	0.723	1715
38.0	8.0	1950	0.677	1833
39.0	9.0	2046	0.637	1930
40.0	10.0	2113	0.602	1996
42.0	12.0	2180	0.544	2063
44.0	14.0	2200	0.498	2084
46.0	16.0	2208	0.459	2091
48.0	18.0	2210	0.426	2094
50.0	20.0	2213	0.398	2097
52.0	22.0	2215	0.374	2098
54.0	24.0	2217	0.352	2100
56.0	26.0	2219	0.333	2102
58.0	28.0	2220	0.316	2103
60.0	30.0	2221	0.301	2104
65.0	35.0	2223	0.269	2106
70.0	40.0	2223	0.243	2107
75.0	45.0	2224	0.222	2107
80.0	50.0	2224	0.204	2108
85.0	55.0	2225	0.189	2108

TEST PHASE : SHUT-IN PERIOD # 1  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P " ] = 117 PSIG
2. PRODUCING TIME ["T " ] = <sup>WF</sup> 30.0 MIN  
P

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P " ] WS (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P ] WS WF *****
90.0	60.0	2225	0.176	2109
95.0	65.0	2226	0.165	2109
100.0	70.0	2226	0.155	2110
105.0	75.0	2226	0.146	2110
110.0	80.0	2227	0.138	2110
115.0	85.0	2227	0.131	2111
120.0	90.0	2228	0.125	2111
123.4	93.4	2228	0.121	2112

TEST PHASE : FLOW PERIOD # 2  
\*\*\*\*\*

ELAPSED TIME (MIN) *****	DELTA TIME (MIN) *****	FLOWING PRESSURE (PSIG) *****
124.9	0.0	94
129.9	5.0	93
134.9	10.0	101
139.9	15.0	109
144.9	20.0	116
149.9	25.0	123
154.9	30.0	130
159.9	35.0	131
164.9	40.0	121
169.9	45.0	120
174.9	50.0	119
179.9	55.0	119
184.9	60.0	119
185.9	61.1	119

FIELD REPORT NO. 28204D  
INSTRUMENT NO. J-1341TEST PHASE : SHUT-IN PERIOD # 2  
\*\*\*\*\*1. FINAL FLOW PRESSURE ["P " ] = 119 PSIG  
2. PRODUCING TIME ["T " ] = <sup>WF</sup><sub>P</sub> 91.1 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P " ] WS (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P ] WS WF *****
185.9	0.0	119		0
186.9	1.0	480	1.964	362
187.9	2.0	889	1.668	771
188.9	3.0	1298	1.496	1179
189.9	4.0	1626	1.376	1507
190.9	5.0	1869	1.284	1751
191.9	6.0	2023	1.209	1904
192.9	7.0	2098	1.147	1980
193.9	8.0	2134	1.093	2015
194.9	9.0	2152	1.046	2033
195.9	10.0	2163	1.005	2044
197.9	12.0	2175	0.934	2056
199.9	14.0	2182	0.875	2063
201.9	16.0	2185	0.826	2067
203.9	18.0	2189	0.783	2071
205.9	20.0	2193	0.745	2074
207.9	22.0	2194	0.711	2076
209.9	24.0	2196	0.681	2077
211.9	26.0	2198	0.654	2079
213.9	28.0	2199	0.629	2081
215.9	30.0	2201	0.606	2082
220.9	35.0	2203	0.557	2085
225.9	40.0	2205	0.516	2086
230.9	45.0	2207	0.481	2088
235.9	50.0	2208	0.451	2090
240.9	55.0	2210	0.424	2092
245.9	60.0	2212	0.401	2093
250.9	65.0	2213	0.380	2094
255.9	70.0	2213	0.362	2095
260.9	75.0	2214	0.345	2095
265.9	80.0	2214	0.330	2096
270.9	85.0	2215	0.316	2096
275.9	90.0	2216	0.304	2097
280.9	95.0	2216	0.292	2098
285.9	100.0	2217	0.281	2098
290.9	105.0	2217	0.271	2098
295.9	110.0	2217	0.262	2098
300.9	115.0	2217	0.253	2099
305.9	120.0	2217	0.245	2099
310.9	125.0	2218	0.238	2099
315.9	130.0	2218	0.231	2099
320.9	135.0	2218	0.224	2099

FIELD REPORT NO. 28204D  
INSTRUMENT NO. J-1341TEST PHASE : SHUT-IN PERIOD # 2  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P " ] = 119 PSIG
2. PRODUCING TIME ["T " ] = 91.1 MIN  
p

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P " ] WS (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P ] WS WF *****
325.9	140.0	2218	0.218	2100
330.9	145.0	2218	0.212	2100
335.9	150.0	2219	0.206	2100
340.9	155.0	2219	0.201	2100
345.9	160.0	2219	0.196	2101
350.9	165.0	2220	0.191	2101
355.9	170.0	2220	0.186	2102
360.9	175.0	2221	0.182	2102
365.9	180.0	2221	0.178	2102
370.9	185.0	2221	0.174	2103
375.9	190.0	2222	0.170	2103
380.9	195.0	2222	0.166	2104
385.9	200.0	2223	0.163	2104
390.9	205.0	2223	0.160	2104
395.9	210.0	2223	0.156	2105
400.9	215.0	2223	0.153	2105
405.9	220.0	2223	0.150	2105
410.9	225.0	2223	0.148	2105
415.9	230.0	2223	0.145	2105
420.9	235.0	2223	0.142	2105
422.7	236.7	2223	0.141	2105

JS-164-A

COMPANY NATURAL GAS OF CALIFORNIA

WELL FEDERAL #23-17

TEST NO. 2

COUNTY

UTAH

STATE UTAH

**JOHNSTON-MACCO**  
**Schlumberger**

# technical report

**RECEIVED**

JAN 14 1931

DIVISION OF  
OIL, GAS & MINING

FIELD REPORT # 28251 D

----- WELL IDENTIFICATION -----

COMPANY:	NATURAL GAS OF CALIFORNIA	CUSTOMER:	SAME
	85 SOUTH 200 EAST		
	VERNAL, UTAH 84078		
WELL:	FEDERAL #23-17	LOCATION:	SEC. 17 - T9S - R20E
TEST INTERVAL:	6104' TO 6161'	FIELD:	DEVIL'S PLAYGROUND (WILD CAT)
TEST NO:	2	TEST DATE:	1-4-81
COUNTY:	UINTAH	STATE:	UTAH
TECHNICIAN:	FOOTE (ROCK SPRINGS)	TEST APPROVED BY:	MR. CURTIS WINN

----- EQUIPMENT AND HOLE DATA -----

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	5579	FT.
		DRILL PIPE I.D.:	-	IN.
ELEVATION:	5257	DRILL COLLAR LENGTH:	492	FT.
TOTAL DEPTH:	6161	DRILL COLLAR I.D.:	-	IN.
MAIN HOLE/CASING SIZE:	7 7/8	PACKER DEPTHS:	6098 & 6104	FT.
RAT HOLE/LINER SIZE:	-		&	FT.
FORMATION TESTED:	MESA VERDE		&	FT.
NET PROD. INTERVAL:	11	DEPTHS REF. TO:	KELLY BUSHING	
POROSITY:	5-10	%		

----- TEST TOOL CHAMBER DATA -----

SAMPLER PRESSURE:	270	PSIG
RECOVERED OIL GRAVITY:	API @	DEG. F.
RECOVERY GOR:		FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	.4 FT.3			
OIL:	CC			
WATER:	CC			
MUD:	CC			
FILTRATE:				
TOTAL LIQUID:	CC			

----- MUD DATA -----

TYPE:	KCL BRINE POLYMER
WEIGHT:	9.9 LB/GAL.
VISCOSITY:	30 SEC.
WATER LOSS:	8.6 CC
FLUID	RESIST (OHM-M) TEMP (DEG F) CHLOR (PPM)
MUD:	.08 50
FILTRATE:	1 50 81000

----- REMARKS -----

NO. OF REPORTS REQUESTED: 7 (6X)

FIELD REPORT NO. 28251D

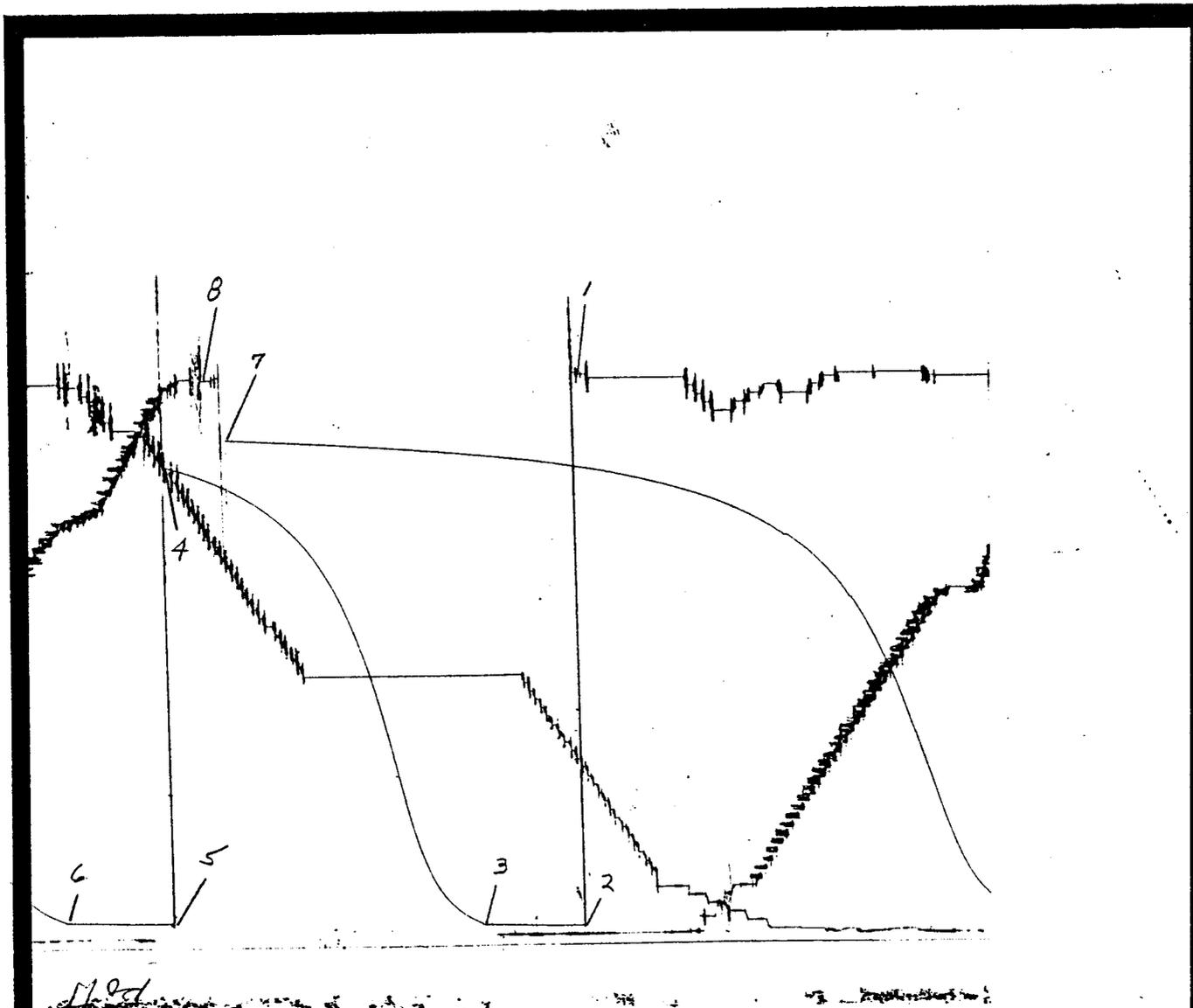
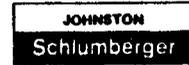


FIELD REPORT NO.: 28251 D

CAPACITY: 4700#

INSTRUMENT NO.: J-1341

NUMBER OF REPORTS: 7-

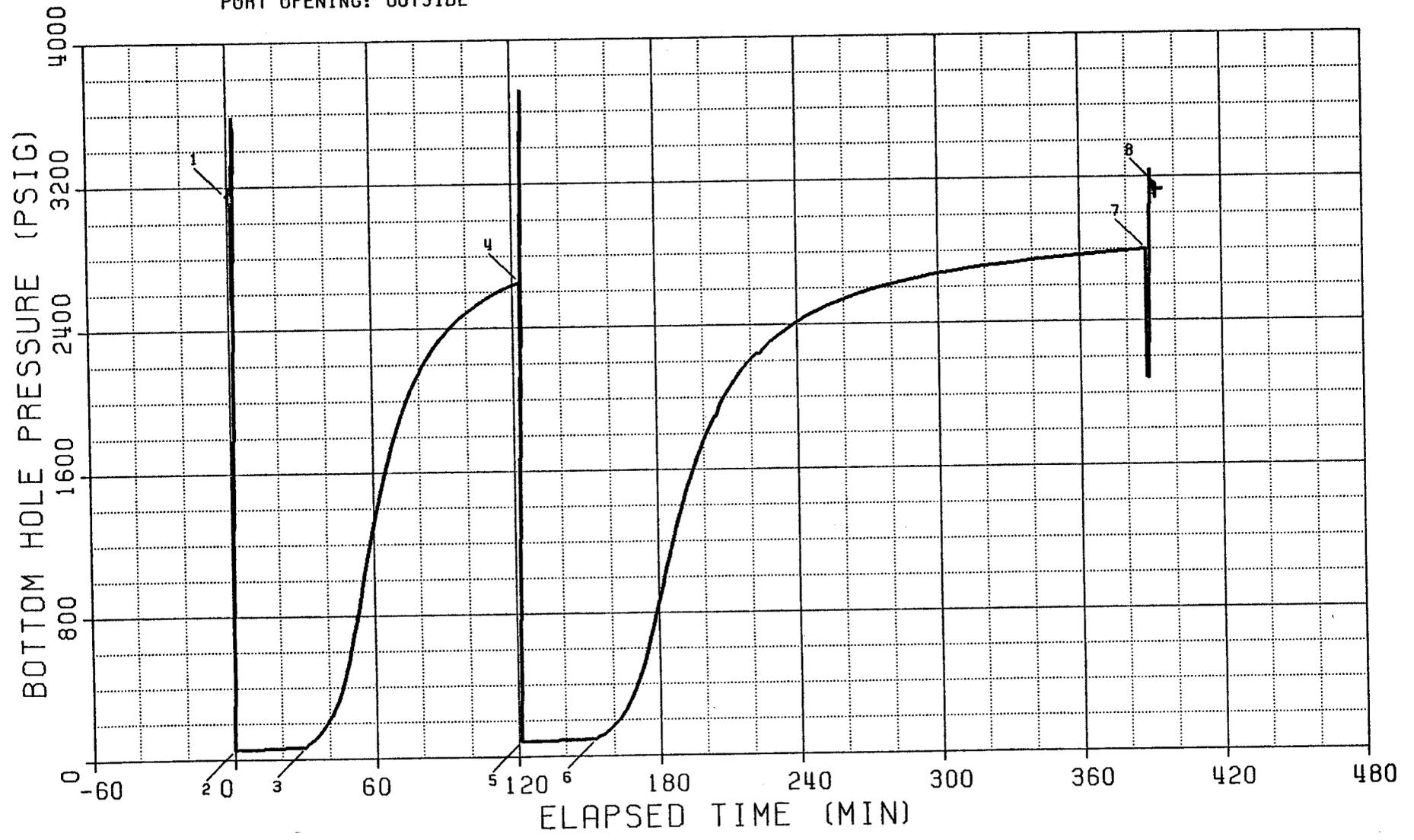


# PRESSURE LOG

FIELD REPORT NO. 282510

INSTRUMENT:

NUMBER: J-1341  
CAPACITY: 4700 PSI  
DEPTH: 6114 FT  
PORT OPENING: OUTSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1341  
 PORT OPENING: OUTSIDE

CAPACITY (PSI): 4700  
 BOTTOM HOLE TEMP (F): 158

DEPTH (FT): 6114

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3148	-0.7
START FLOW	2	56	0.0
END FLOW & START SHUT-IN	3	67	29.8
END SHUT-IN	4	2651	123.1
START FLOW	5	86	121.2
END FLOW & START SHUT-IN	6	97	152.8
END SHUT-IN	7	2798	388.2
HYDROSTATIC MUD	8	3131	394.5

\*\*\*\*\*  
 \* SUMMARY OF FLOW PERIODS \*  
 \*\*\*\*\*

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	29.8	29.8	56	67
2	121.2	152.8	31.6	86	97

\*\*\*\*\*  
 \* SUMMARY OF SHUT-IN PERIODS \*  
 \*\*\*\*\*

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	29.8	123.1	93.3	67	2651	67	29.8
2	152.8	388.2	235.5	97	2798	97	61.3

Contractor Olsen Drilling Co. Top Choke 1/4"  
 Rig No. 2 Bottom Choke 9/16"  
 Spot NW-NE Size Hole 7 7/8"  
 Sec. 17 Size Rat Hole --  
 Twp. 9 S Size & Wt. D. P. 4 1/2" 16.60  
 Rng. 20 E Size Wt. Pipe --  
 Field Devils Playground I. D. of D. C. 2 1/4"  
 County Uintah Length of D. C. 405'  
 State Utah Total Depth 7220'  
 Elevation 5259' "K.B." Interval Tested 7090'-7220'  
 Formation -- Type of Test Bottom Hole  
Conventional

Flow No. 1 -- Min.  
 Shut-in No. 1 -- Min.  
 Flow No. 2 -- Min.  
 Shut-in No. 2 -- Min.  
 Flow No. 3 -- Min.  
 Shut-in No. 3 -- Min.

Bottom Hole Temp. 163°F  
 Mud Weight 9.5  
 Gravity --  
 Viscosity 30

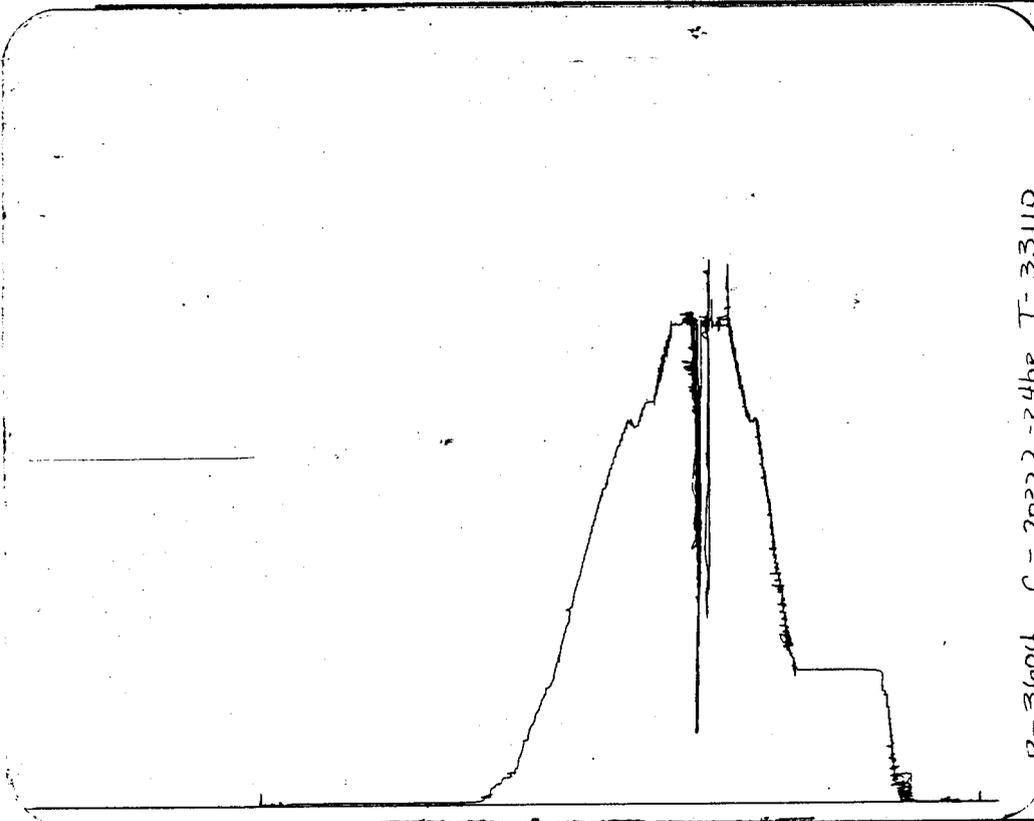
Tool opened @ 2:10 AM

**Inside Recorder**

PRD Make Kuster AK-1  
 No. 3604 Cap. 5700 @ 7095'

	Press	Corrected
Initial Hydrostatic	A	--
Final Hydrostatic	K	--
Initial Flow	B	--
Final Initial Flow	C	--
Initial Shut-in	D	--
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, WYO.  
 Our Tester: Stormy Hayes  
 Witnessed By: Curtis Winn



Did Well Flow - Gas NO Oil NO Water NO  
 RECOVERY IN PIPE:

**\*MISRUN:** Could not obtain packer seats.

Make Up Water R.W.: 10.0 @ 65°F = 580 ppm. Cl.  
 Mud Pit Sample R.W.: 9.0 @ 75°F = 560 ppm. Cl.

Operator Natural Gas Corp. of California  
 Well Name and No. Federal #23-17  
 Ticket No. 33110  
 Date 1-11-81  
 No. Final Copies 7

COMPANY NATURAL GAS CORP. OF WELL FEDERAL #23-17 TEST NO. 6 COUNTY UINTAH STATE UTAH  
CALIFORNIA

**JOHNSTON-MACCO**  
**Schlumberger**

# technical report

SURFACE INFORMATION				EQUIPMENT & HOLE DATA			
Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke	Type Test	M.F.E. OPEN HOLE		
Opened Tool				Formation Tested	MESA VERDE		
				Elevation	5257 GR. Ft.		
				Net Productive Interval	- Ft.		
				Estimated Porosity	- %		
				All Depths Measured From	KELLY BUSHING		
				Total Depth	7893 Ft.		
				Main Hole/Casing Size	7 7/8"		
				Rat Hole/Liner Size	-		
				Drill Collar Length	492'	I.D.	2.25"
				Drill Pipe Length	-	I.D.	3.8"
				Packer Depth(s)	- Ft.		
				<b>MULTI-FLOW EVALUATOR FLUID SAMPLE DATA</b>			
				Sampler Pressure	_____ P.S.I.G. at Surface		
				Recovery: Cu. Ft. Gas	_____		
				cc. Oil	_____		
				cc. Water	_____		
				cc. Mud	_____		
				Tot. Liquid cc.	_____		
				Gravity	_____ °API @ _____ °F.		
				Gas/Oil Ratio	_____ cu. ft./bbl.		
					RESISTIVITY	CHLORIDE CONTENT	
				Recovery Water	_____ @ _____ °F.	_____ ppm	
				Recovery Mud	_____ @ _____ °F.		
				Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm	
				Mud Pit Sample	_____ @ _____ °F.		
				Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm	

Cushion Type	Amount	Pressure	Bottom Choke Size <b>15/16"</b>
--------------	--------	----------	---------------------------------

MUD DATA			
Mud Type	_____	Wt.	_____
Viscosity	_____	Water Loss	_____ C.C.
Resist: of Mud	_____ @ _____ °F.	of Filtrate	_____ @ _____ °F.
Chloride Content	_____ PPM		

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
						@ _____ °F.	@ _____ °F.	
						@ _____ °F.	@ _____ °F.	
						@ _____ °F.	@ _____ °F.	
						@ _____ °F.	@ _____ °F.	
						@ _____ °F.	@ _____ °F.	
						@ _____ °F.	@ _____ °F.	
						@ _____ °F.	@ _____ °F.	
						@ _____ °F.	@ _____ °F.	

Remarks: **UNSUCCESSFUL TEST; UNABLE TO GET TO BOTTOM, LACKED 40'**

Address **85 SOUTH 200 EAST; VERNAL, UTAH 84078**

Company **NATURAL GAS CORPORATION OF CALIFORNIA** Field **DEVILS PLAY GROUND**

Well **FEDERAL #23-17** Location **SEC.17-T9S-R20E**

Test Interval **7880' TO 7893' (ATTEMPTED)** Test # **6** Date **1-14-81**

County **UINTAH** State **UTAH** Field Report No. **32235 D**

Technician **RICHARDS (VERNAL)** Test Approved By **MR. CURTIS WINN** No. Reports Requested **8 (7X'S)**

**BOTTOM HOLE PRESSURE AND TIME DATA**

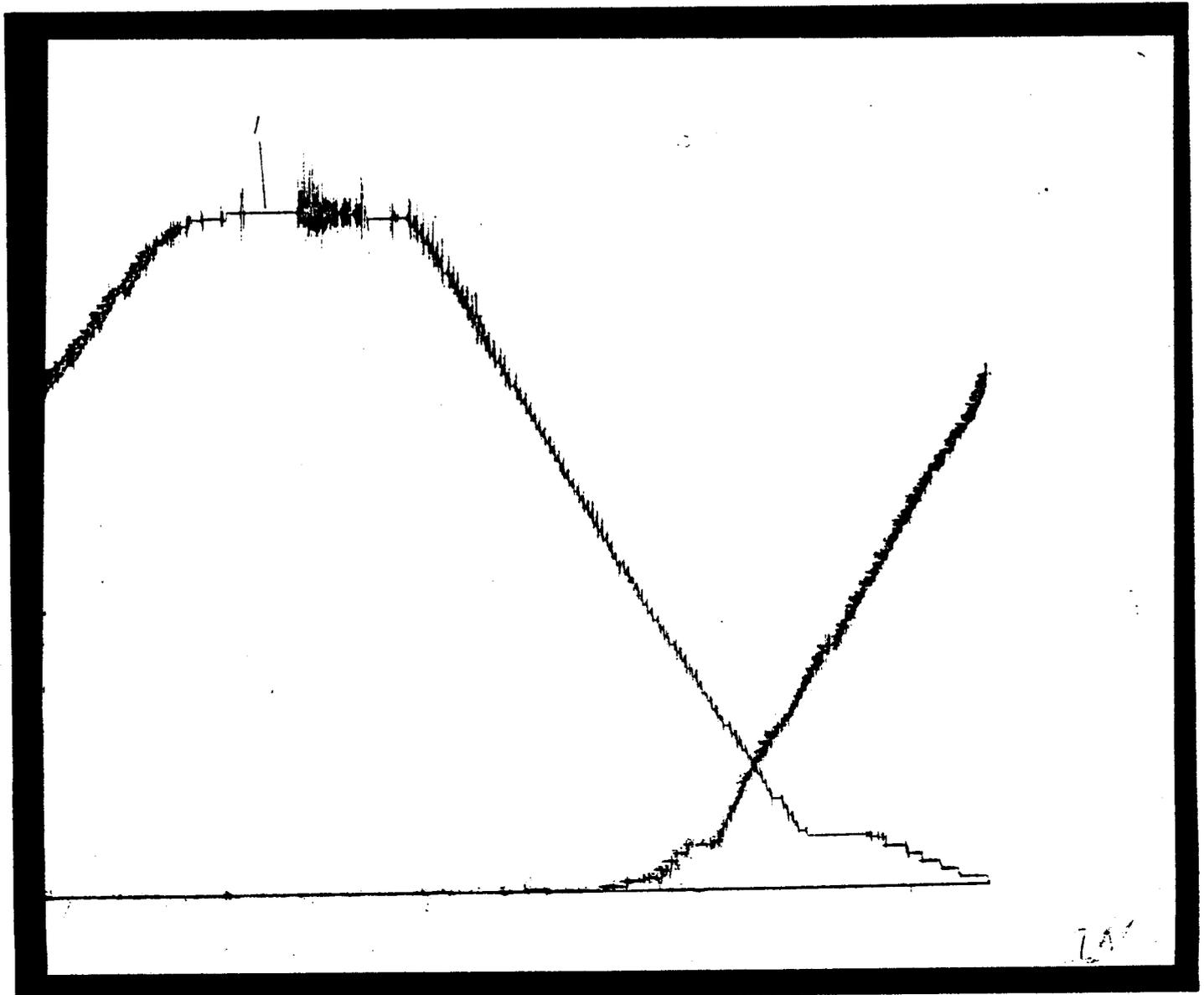


PAGE NUMBER 2

INSTRUMENT NUMBER <b>J-1237</b>	CAPACITY (P.S.I.) <b>4700#</b>	DEPTH <b>-</b>
PORT OPENING <b>INSIDE</b>	BOTTOM HOLE TEMPERATURE <b>READ AT 150°F.</b>	FIELD REPORT NUMBER <b>32235 D</b>

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	4003.3		
INITIAL FLOW (1)				
INITIAL FLOW (2)				
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD				

REMARKS: UNSUCCESSFUL TEST.



JS-164-A

COMPANY NATURAL GAS CORP. OF WELL \_\_\_\_\_ FEDERAL #23-17 TEST NO. 7 COUNTY \_\_\_\_\_ UTAH STATE UTAH  
CALIFORNIA

**JOHNSTON-MACCO**  
**Schlumberger**

# technical report



**BOTTOM HOLE PRESSURE AND TIME DATA**

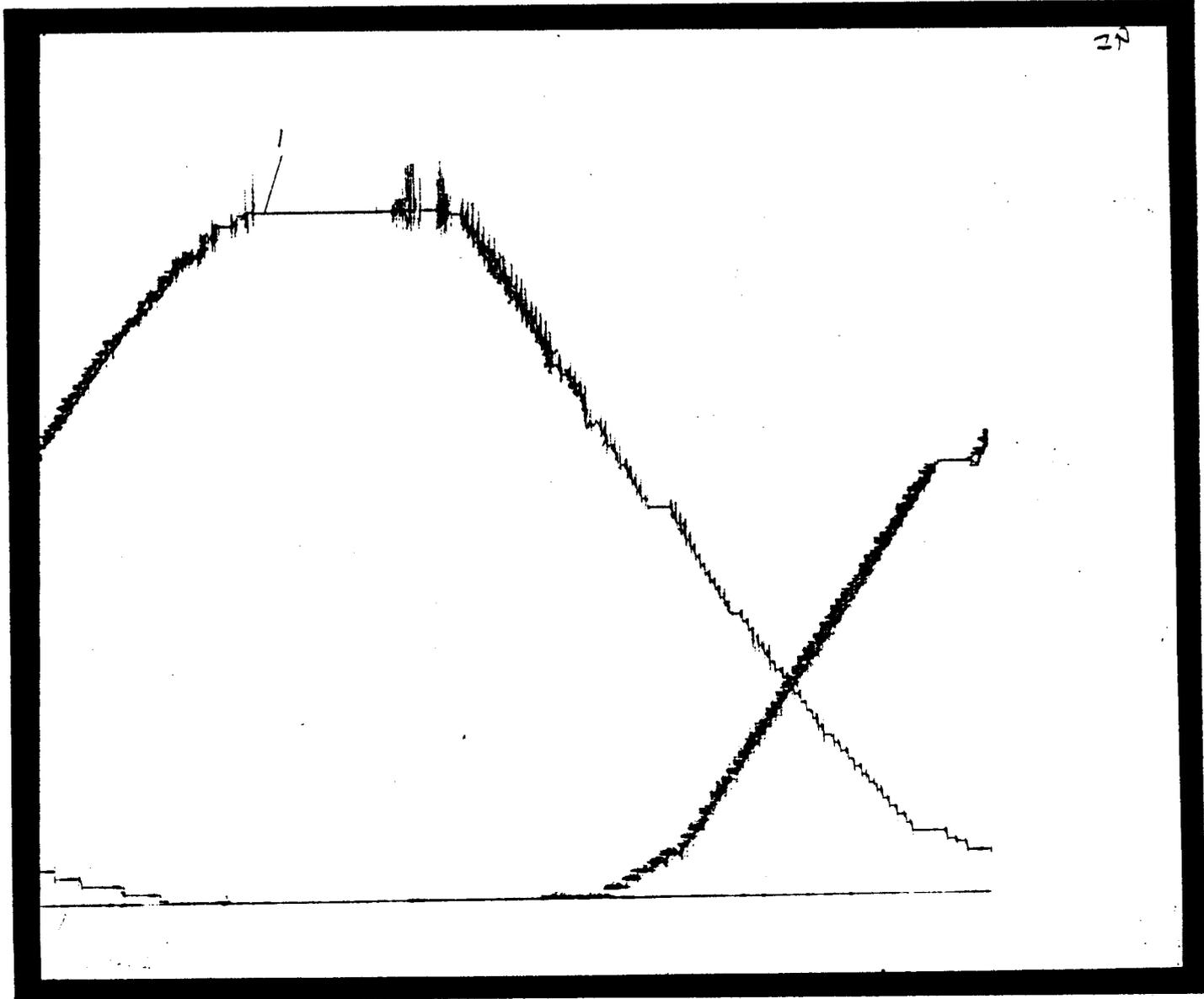
JOHNSTON CO  
Schlumberger

PAGE NUMBER 2

INSTRUMENT NUMBER J-1238	CAPACITY (P.S.I.) 4700#	DEPTH -
PORT OPENING OUTSIDE	BOTTOM HOLE TEMPERATURE READ AT 150°F.	FIELD REPORT NUMBER 32236 D

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	4051.8		
INITIAL FLOW (1)				
INITIAL FLOW (2)				
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD				

REMARKS: UNSUCCESSFUL TEST.



Contractor Olsen Drilling Top Choke 1/4"  
 Rig No. 2 Bottom Choke 9/16"  
 Spot NW-NE Size Hole 7 7/8"  
 Sec. 17 Size Rat Hole --  
 Twp. 9 S Size & Wt. D. P. 4 1/2" 16.60  
 Rng. 20 E Size Wt. Pipe --  
 Field Dolls playground unit I. D. of D. C. 2 1/4"  
 County Uintah Length of D. C. 490'  
 State Utah Total Depth 7120'  
 Elevation 5259' "K.B." Interval Tested 7087-7120'  
 Formation -- Type of Test Bottom Hole  
Conventional

Flow No. 1 -- Min.  
 Shut-in No. 1 -- Min.  
 Flow No. 2 -- Min.  
 Shut-in No. 2 -- Min.  
 Flow No. 3 -- Min.  
 Shut-in No. 3 -- Min.  
 Bottom Hole Temp. --  
 Mud Weight 9.5  
 Gravity --  
 Viscosity 29

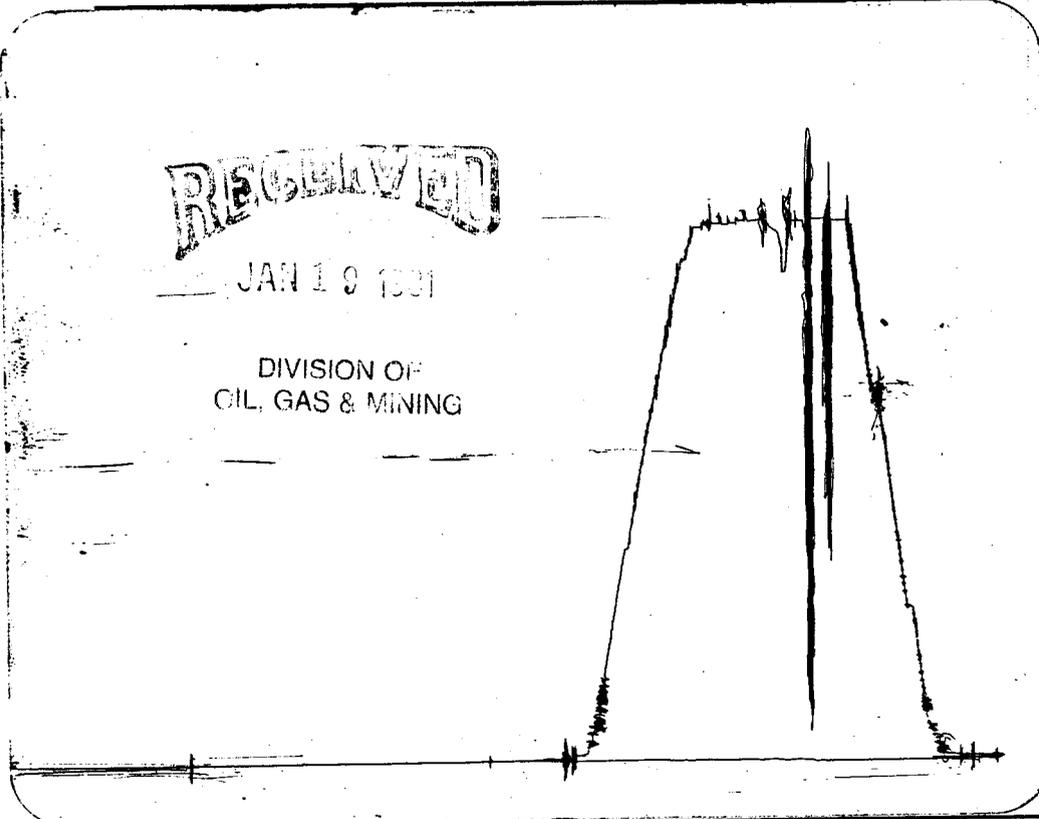
Tool opened @ --

**Inside Recorder**

PRD Make Kuster AK-1  
 No. 2559 Cap. 5050 @ 7077'

	Press	Corrected
Initial Hydrostatic	A	--
Final Hydrostatic	K	--
Initial Flow	B	--
Final Initial Flow	C	--
Initial Shut-in	D	--
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, Wyo.  
 Our Tester: James Samoy  
 Witnessed By: Curtis Winn



Did Well Flow - Gas no Oil no Water no (Test was reverse circulated)  
 RECOVERY IN PIPE: None

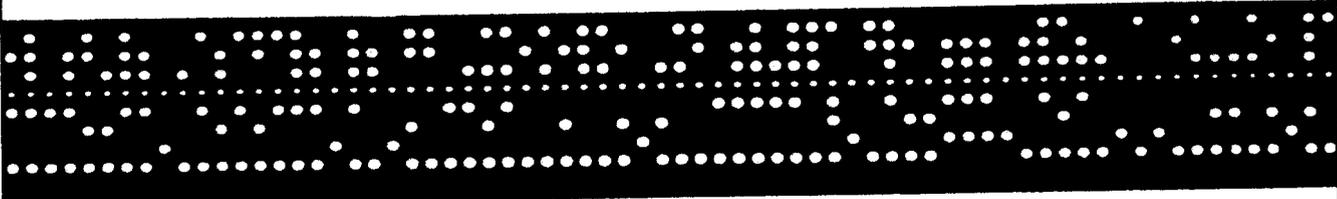
MISRUN: Could not obtain packer seats.

Make up water R.W.: 7.0 @ 60°F = 900 ppm. Cl.  
 Mud pit sample R.W.: 3.0 @ 70°F = 1900 ppm. Cl.

Operator Natural Gas Corp. of California  
 Well Name and No. Federal #23-17  
 Address See Distribution  
 Ticket No. 29814  
 Date 1-8-81  
 No. Final Copies 8

JOHNSTON  
Schlumberger

computerized  
data  
analysis



JOHNSTON

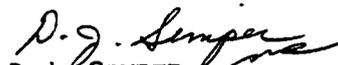
Schlumberger

## COMPUTERIZED DATA ANALYSIS

JANUARY 27, 1981

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION DID NOT PRODUCE ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION OR FOR FLOW RATE DETERMINATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT BUT ADEQUATE SHUT-IN BUILD-UPS DID NOT OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. AFTERFLOW WAS STILL IN EFFECT ON THE INITIAL SHUT-IN BUILD-UP TO THE EXTENT THAT THE PLOT IS CONSIDERED UNRELIABLE FOR ANALYSIS.

  
D.J. SIMPER  
RESERVOIR EVALUATION  
DEPARTMENT

NATURAL GAS CORPORATION OF CALIFORNIA  
FEDERAL #23-17; UINTAH COUNTY, UTAH  
TEST #8; 7870' TO 7910'  
LOCATION: SEC. 17 - T9S - R20S  
FIELD REPORT # 32237 D

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

$\Delta T$  (MIN)

0.1 0.2 0.3 0.5 0.9 1.7 3.2 6.3 13 37 100

# HORNER PLOT

FIELD REPORT NO. 322370

**INSTRUMENT:**

NUMBER: J-1237  
CAPACITY: 4700 PSI  
DEPTH: 7841 FT

**SHUT-IN #1:**

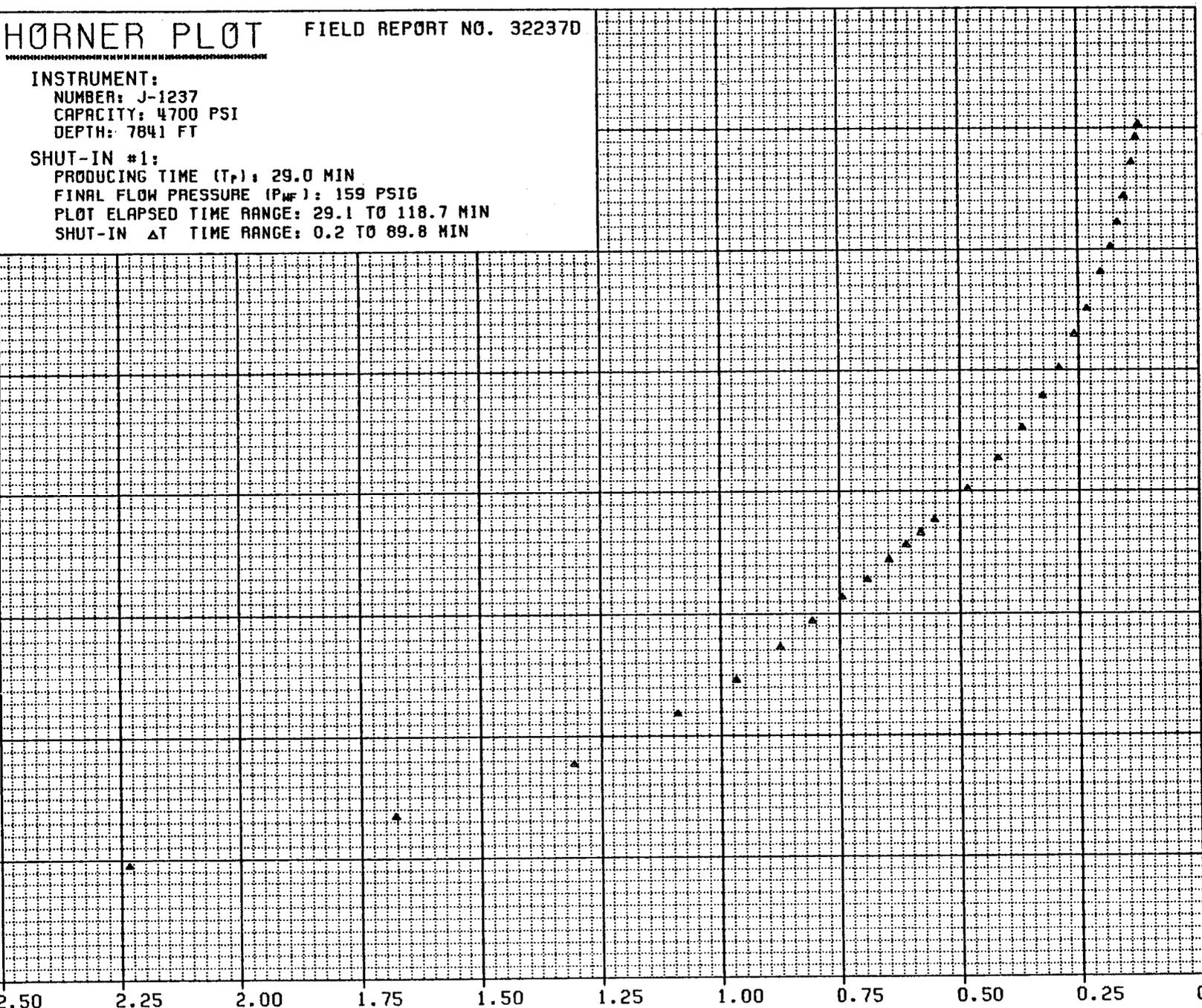
PRODUCING TIME ( $T_p$ ): 29.0 MIN  
FINAL FLOW PRESSURE ( $P_{wf}$ ): 159 PSIG  
PLOT ELAPSED TIME RANGE: 29.1 TO 118.7 MIN  
SHUT-IN  $\Delta T$  TIME RANGE: 0.2 TO 89.8 MIN

SHUT-IN PRESSURE (PSIG)

500  
450  
400  
350  
300  
250  
200  
150  
100

2.50 2.25 2.00 1.75 1.50 1.25 1.00 0.75 0.50 0.25 0.00

$$\text{LOG} \left[ \frac{T_p + \Delta T}{\Delta T} \right]$$



$\Delta T$  (MIN)

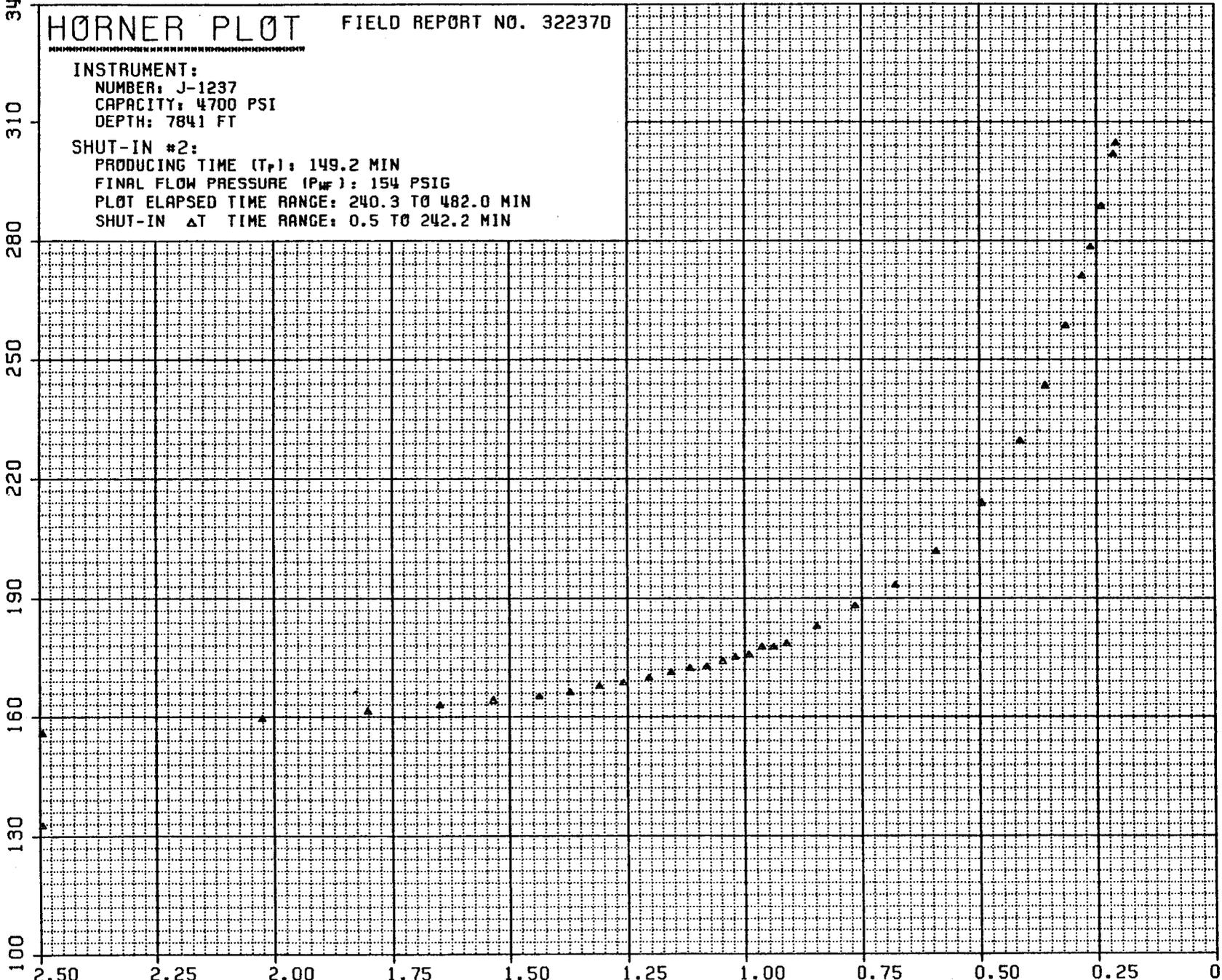
0.5 0.8 1.5 2.7 4.9 8.9 17 32 69 192  $\infty$

# HORNER PLOT FIELD REPORT NO. 32237D

INSTRUMENT:  
NUMBER: J-1237  
CAPACITY: 4700 PSI  
DEPTH: 7841 FT

SHUT-IN #2:  
PRODUCING TIME ( $T_p$ ): 149.2 MIN  
FINAL FLOW PRESSURE ( $P_{wf}$ ): 154 PSIG  
PLOT ELAPSED TIME RANGE: 240.3 TO 482.0 MIN  
SHUT-IN  $\Delta T$  TIME RANGE: 0.5 TO 242.2 MIN

SHUT-IN PRESSURE (PSIG)



2.50 2.25 2.00 1.75 1.50 1.25 1.00 0.75 0.50 0.25 0.00

$$\text{LOG} \left[ \frac{T_p + \Delta T}{\Delta T} \right]$$

FIELD REPORT NO. 32237D

INSTRUMENT:

NUMBER: J-1237

CAPACITY: 4700 PSI

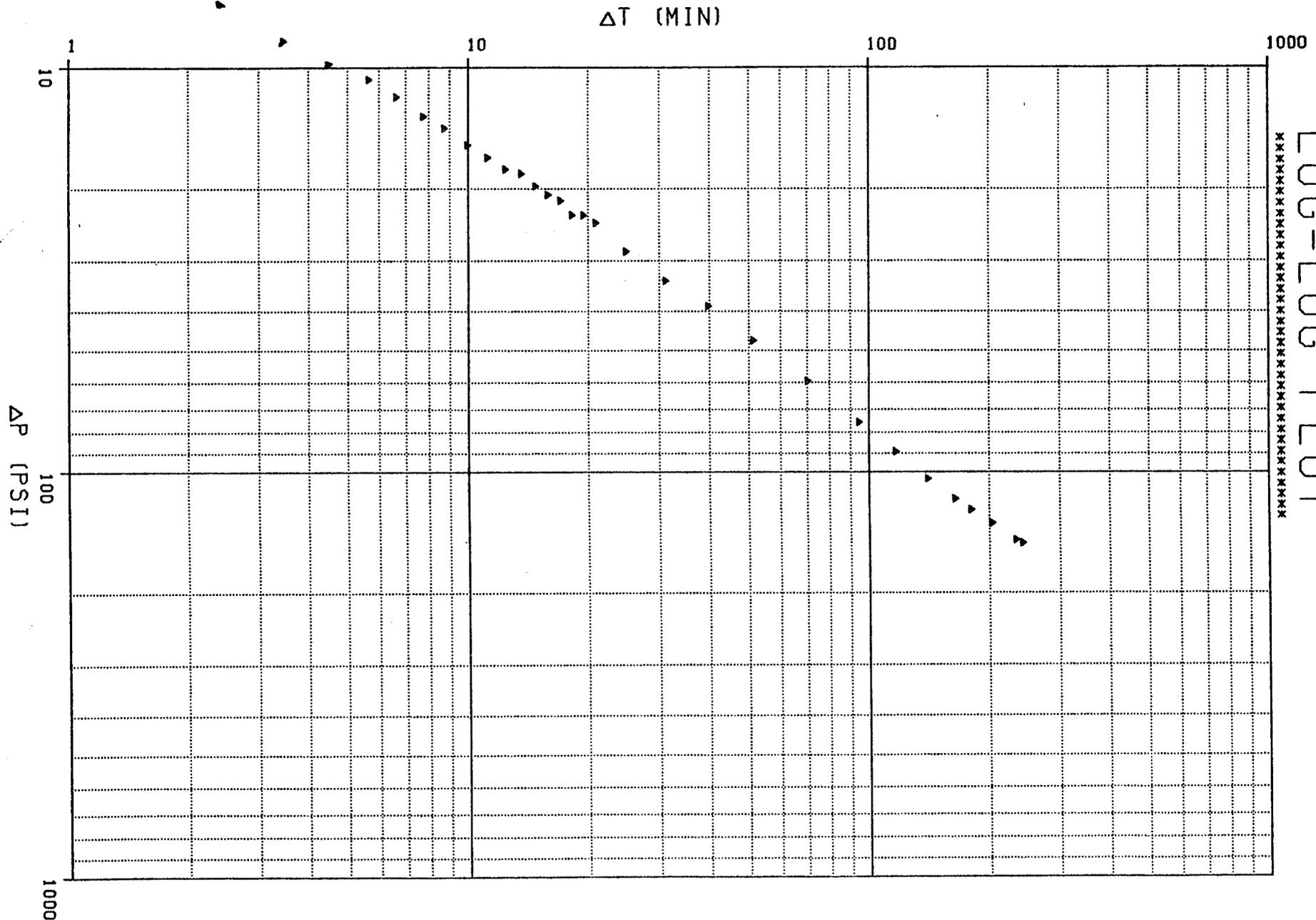
DEPTH: 7841 FT

SHUT-IN #2:

FINAL FLOW PRESSURE ( $P_{MF}$ ): 154 PSIG

PLOT ELAPSED TIME RANGE: 245.5 TO 482.0 MIN

SHUT-IN  $\Delta T$  TIME RANGE: 5.7 TO 242.2 MIN



\*\*\*\*\*  
LOG-LOG PLOT  
\*\*\*\*\*

----- WELL IDENTIFICATION -----

COMPANY:	NATURAL GAS CORPORATION OF CALIF.	CUSTOMER:	SAME
WELL:	85 SOUTH 200 EAST	LOCATION:	SEC.17, T9S R20
TEST INTERVAL:	VERNAL, UTAH 84078	FIELD:	DEVIL'S PLAYGROUND (WILD CAT)
TEST NO:	FEDERAL #23-17	TEST DATE:	1-17-81
COUNTY:	8	STATE:	UTAH
TECHNICIAN:	UINTAH	TEST APPROVED BY:	MR. CURTIS WINN
	RICHARDS (VERNAL)		

----- EQUIPMENT AND HOLE DATA -----

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	7427	FT.
ELEVATION:	5257	DRILL PIPE I.D.:	3.8	IN.
TOTAL DEPTH:	7910	DRILL COLLAR LENGTH:	399	FT.
MAIN HOLE/CASING SIZE:	7 7/8	DRILL COLLAR I.D.:	2.25	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	7866 & 7870	FT.
FORMATION TESTED:	MESA VERDE		&	FT.
NET PROD. INTERVAL:	-	DEPTHS REF. TO:	KELLY BUSHING	FT.
POROSITY:	-			%

----- TEST TOOL CHAMBER DATA -----

SAMPLER PRESSURE:	250	PSIG
RECOVERED OIL GRAVITY:	API @	DEG. F.
RECOVERY GOR:		FT3/BBL.
SAMPLE CHAMBER CONTENTS		
FLUID	VOLUME	RESIST. MEAS. CHLOR.
		(OHM-M) (DEG F.) (PPM)
GAS:	1.15 FT.3	
OIL:	- CC	
WATER:	- CC	
MUD:	- CC	
FILTRATE:		
TOTAL LIQUID:	- CC	

----- MUD DATA -----

TYPE:	-		
WEIGHT:	10	LB/GAL.	
VISCOSITY:	31	SEC.	
WATER LOSS:	9.2	CC	
FLUID	RESIST	TEMP	CHLOR
	(OHM-M)	(DEG F)	(PPM)
MUD:	.11	85	
FILTRATE:	.11	85	155000

----- REMARKS -----

NO. OF REPORTS REQUESTED: 8 (7X'S)

FIELD REPORT NO. 32237D



FIELD REPORT NO.: 32237 D CAPACITY: 4700#  
INSTRUMENT NO.: J-1237 NUMBER OF REPORTS: 8

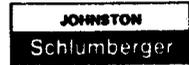
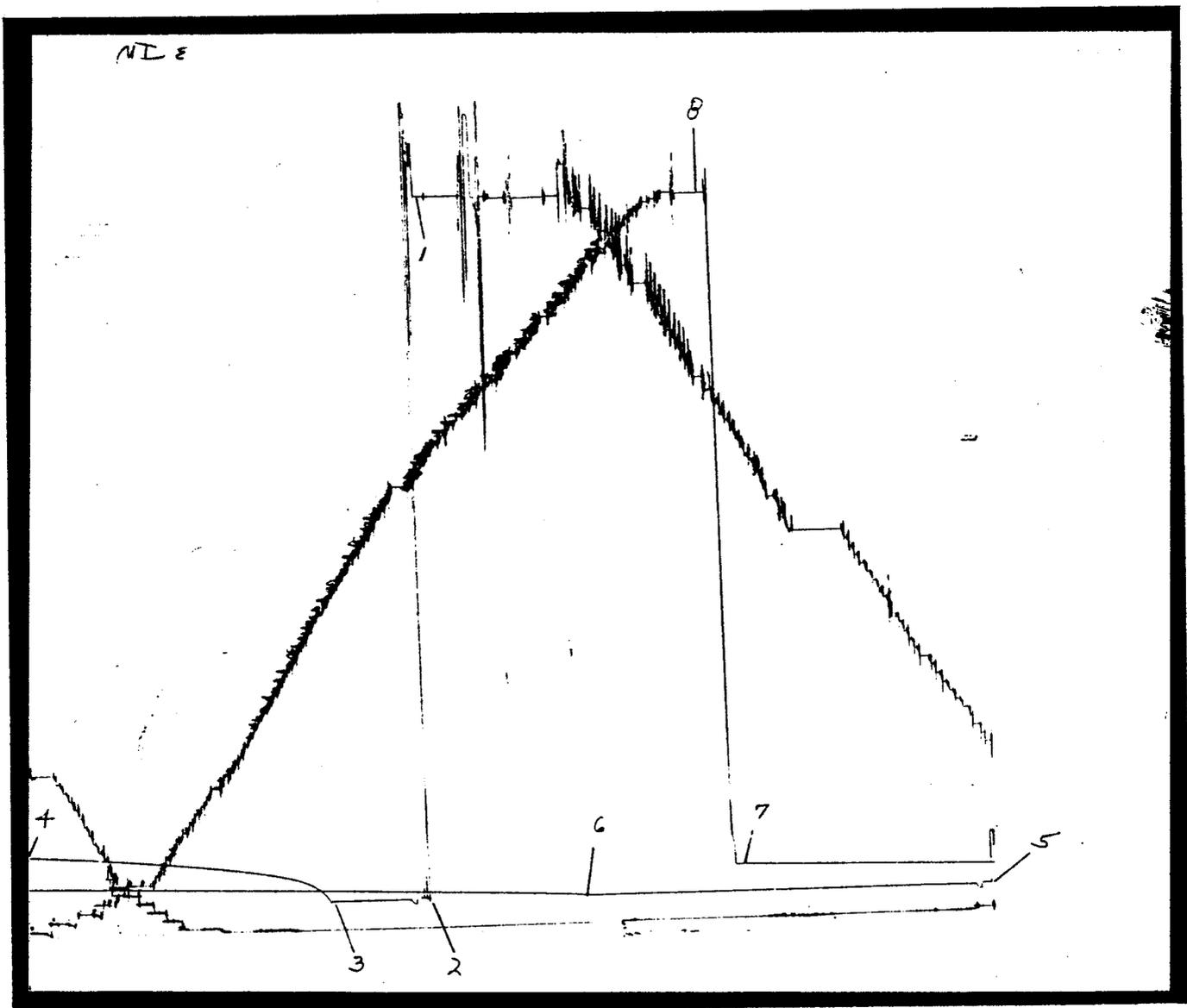


CHART INDICATES PERFORATED ANCHOR PLUGGING DURING THE TEST.

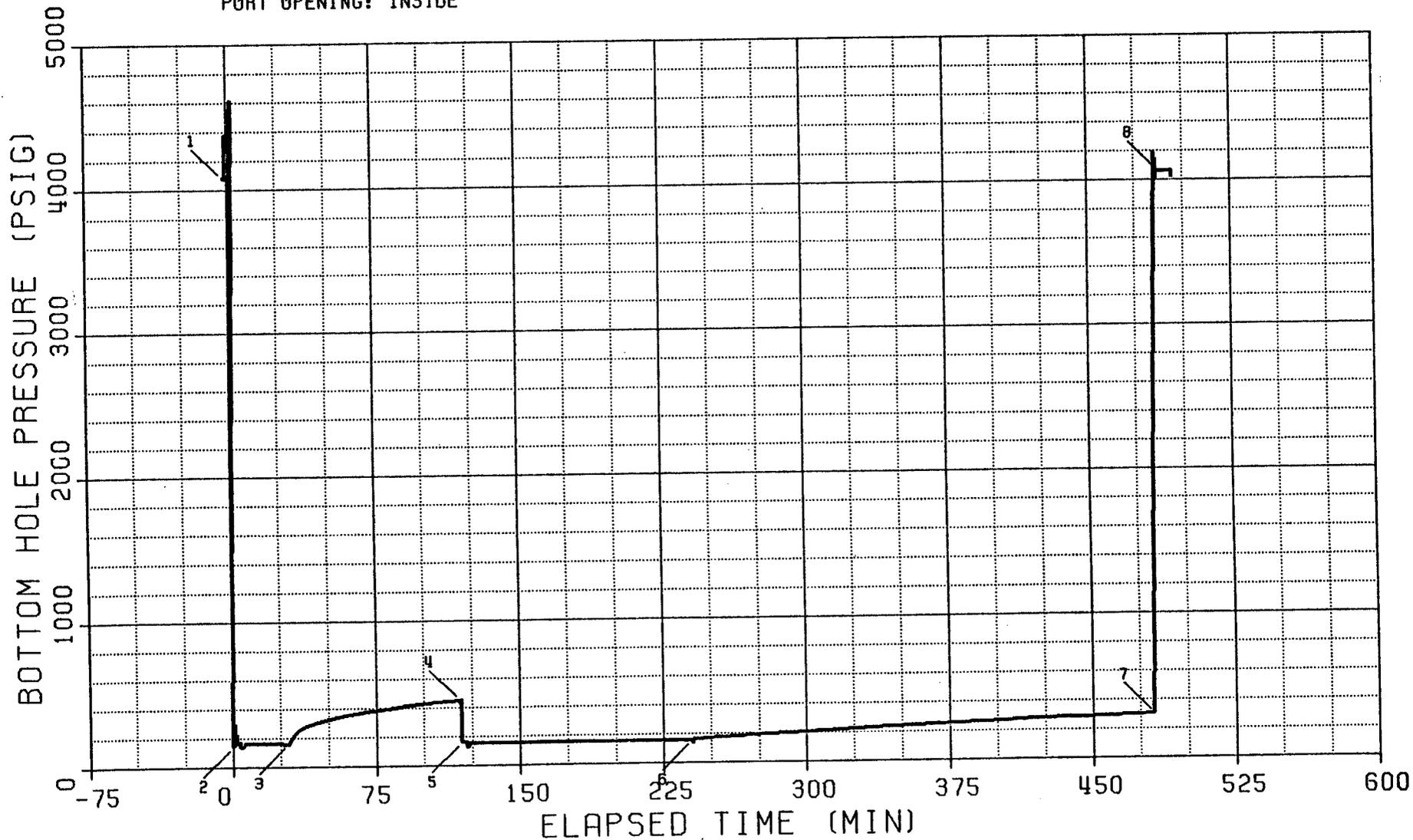


# PRESSURE LOG

FIELD REPORT NO. 322370

INSTRUMENT:

NUMBER: J-1237  
CAPACITY: 4700 PSI  
DEPTH: 7841 FT  
PORT OPENING: INSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1237  
 PORT OPENING: INSIDE

CAPACITY (PSI): 4700  
 BOTTOM HOLE TEMP (F): 179

DEPTH (FT): 7841  
 PAGE 1

EXPLANATION	LABELLED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	4079	-2.3
START FLOW	2	143	0.0
END FLOW & START SHUT-IN	3	159	29.0
END SHUT-IN	4	451	118.7
START FLOW	5	160	119.6
END FLOW & START SHUT-IN	6	154	239.8
END SHUT-IN	7	305	482.0
HYDROSTATIC MUD	8	4061	487.9

\*\*\*\*\*  
 \* SUMMARY OF FLOW PERIODS \*  
 \*\*\*\*\*

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	29.0	29.0	143	159
2	119.6	239.8	120.3	160	154

\*\*\*\*\*  
 \* SUMMARY OF SHUT-IN PERIODS \*  
 \*\*\*\*\*

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	29.0	118.7	89.8	159	451	159	29.0
2	239.8	482.0	242.2	154	305	154	149.2

TEST PHASE : FLOW PERIOD # 1  
\*\*\*\*\*

ELAPSED TIME (MIN) *****	DELTA TIME (MIN) *****	FLOWING PRESSURE (PSIG) *****
0.0	0.0	143
5.0	5.0	135
10.0	10.0	160
15.0	15.0	160
20.0	20.0	160
25.0	25.0	160
29.0	29.0	159

TEST PHASE : SHUT-IN PERIOD # 1  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P " ] = 159 PSIG
2. PRODUCING TIME ["T " ] = 29.0 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P " ] WS (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P ] WS WF *****
29.0	0.0	159		0
30.0	1.0	177	1.476	18
31.0	2.0	198	1.190	39
32.0	3.0	216	1.027	57
33.0	4.0	230	0.916	71
34.0	5.0	243	0.832	84
35.0	6.0	253	0.765	95
36.0	7.0	261	0.711	102
37.0	8.0	269	0.665	110
38.0	9.0	276	0.625	117
39.0	10.0	281	0.591	122
41.0	12.0	291	0.533	132
43.0	14.0	300	0.487	141
45.0	16.0	307	0.449	148
47.0	18.0	314	0.416	155
49.0	20.0	321	0.389	162
51.0	22.0	328	0.365	169
53.0	24.0	334	0.344	175
55.0	26.0	340	0.325	181
57.0	28.0	345	0.308	186
59.0	30.0	350	0.293	191
64.0	35.0	363	0.262	204
69.0	40.0	373	0.236	214
74.0	45.0	383	0.216	224
79.0	50.0	392	0.198	233
84.0	55.0	400	0.184	241
89.0	60.0	409	0.171	250

TEST PHASE : SHUT-IN PERIOD # 1  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P<sub>WF</sub> "] = 159 PSIG
2. PRODUCING TIME ["T<sub>P</sub> "] = 29.0 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P <sub>WS</sub> "] (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P <sub>WS</sub> - P <sub>WF</sub> ] *****
94.0	65.0	417	0.160	258
99.0	70.0	425	0.150	266
104.0	75.0	432	0.142	273
109.0	80.0	439	0.134	280
114.0	85.0	447	0.127	288
118.7	89.8	451	0.121	292

TEST PHASE : FLOW PERIOD # 2  
\*\*\*\*\*

ELAPSED TIME (MIN) *****	DELTA TIME (MIN) *****	FLOWING PRESSURE (PSIG) *****
119.6	0.0	160
129.6	10.0	156
139.6	20.0	158
149.6	30.0	157
159.6	40.0	157
169.6	50.0	156
179.6	60.0	156
189.6	70.0	155
199.6	80.0	155
209.6	90.0	154
219.6	100.0	154
229.6	110.0	154
239.6	120.0	154
239.8	120.3	154

FIELD REPORT NO. 32237D  
INSTRUMENT NO. J-1237TEST PHASE : SHUT-IN PERIOD # 2  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P<sub>WF</sub> "] = 154 PSIG  
 2. PRODUCING TIME ["T<sub>P</sub> "] = 149.2 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P <sub>WS</sub> "] (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P <sub>WS</sub> - P <sub>WF</sub> ] *****
239.8	0.0	154		0
240.8	1.0	158	2.177	3
241.8	2.0	161	1.879	6
242.8	3.0	162	1.705	8
243.8	4.0	164	1.583	9
244.8	5.0	164	1.489	10
245.8	6.0	165	1.413	11
246.8	7.0	167	1.349	12
247.8	8.0	168	1.293	13
248.8	9.0	169	1.245	14
249.8	10.0	170	1.202	16
251.8	12.0	172	1.128	18
253.8	14.0	173	1.067	19
255.8	16.0	175	1.014	21
257.8	18.0	177	0.968	23
259.8	20.0	178	0.927	24
261.8	22.0	180	0.891	25
263.8	24.0	182	0.858	28
265.8	26.0	184	0.829	30
267.8	28.0	186	0.801	31
269.8	30.0	187	0.776	33
279.8	40.0	194	0.675	39
289.8	50.0	201	0.600	46
299.8	60.0	207	0.542	53
309.8	70.0	214	0.496	59
319.8	80.0	220	0.457	66
329.8	90.0	227	0.425	73
339.8	100.0	233	0.397	79
349.8	110.0	239	0.372	85
359.8	120.0	246	0.351	91
369.8	130.0	252	0.332	98
379.8	140.0	259	0.315	104
389.8	150.0	264	0.300	109
399.8	160.0	269	0.286	115
409.8	170.0	274	0.274	120
419.8	180.0	279	0.262	124
429.8	190.0	283	0.252	129
439.8	200.0	287	0.242	133
449.8	210.0	292	0.233	137
459.8	220.0	296	0.225	142
469.8	230.0	301	0.217	146
479.8	240.0	304	0.210	150
482.0	242.2	305	0.208	150

FIELD REPORT NO.: 32237D

CAPACITY: 4700#

INSTRUMENT NO.: J-1238

NUMBER OF REPORTS: 8

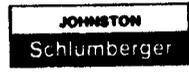
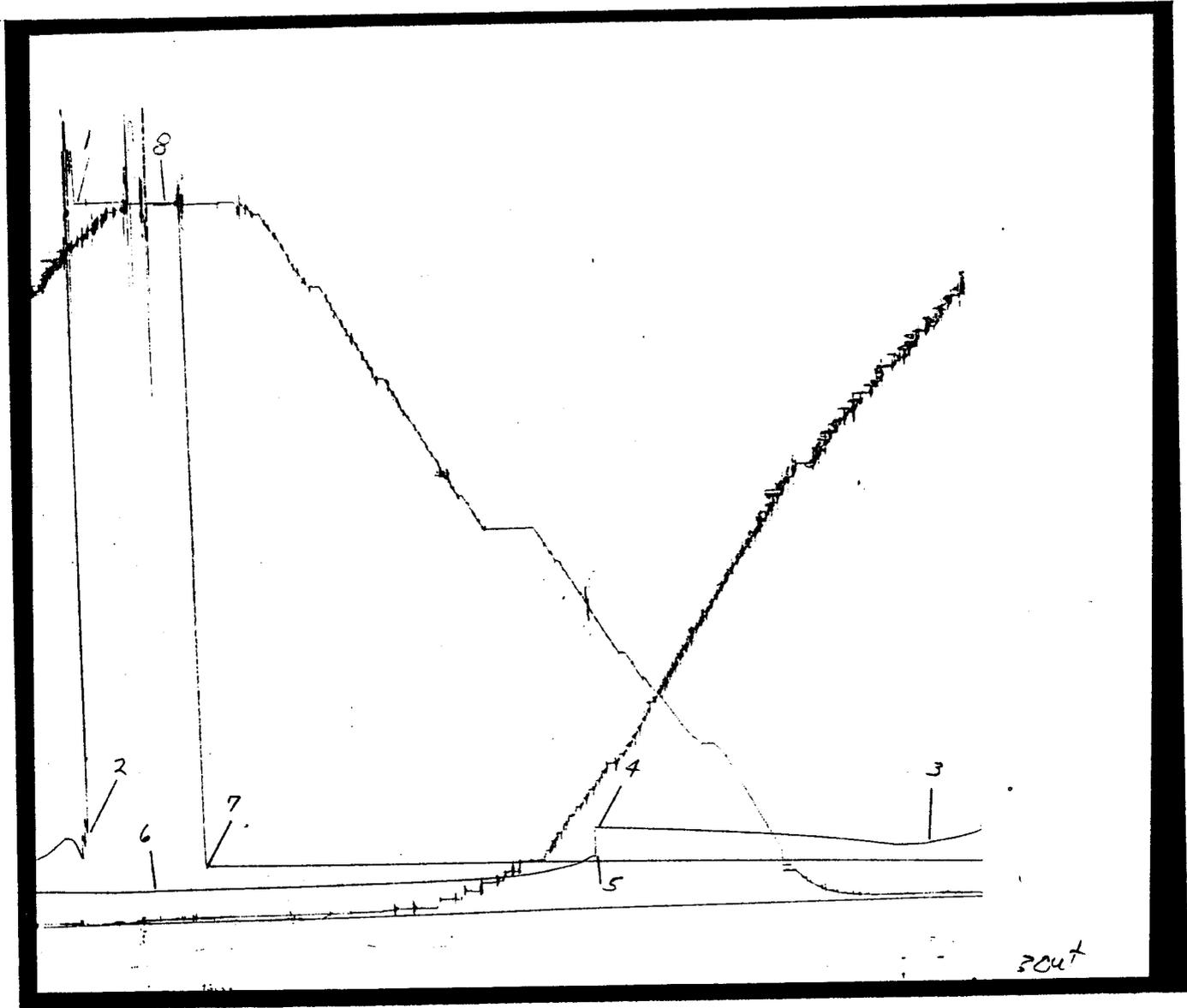


CHART INDICATES PERFORATED ANCHOR PLUGGING DURING THE TEST.



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1238  
 PORT OPENING: OUTSIDE

CAPACITY (PSI): 4700  
 BOTTOM HOLE TEMP (F): 179

DEPTH (FT): 7876

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	4093	-2.8
START FLOW	2	524	0.0
END FLOW & START SHUT-IN	3	316	28.7
END SHUT-IN	4	463	119.1
START FLOW	5	301	119.8
END FLOW & START SHUT-IN	6	185	239.7
END SHUT-IN	7	316	481.9
HYDROSTATIC MUD	8	4070	487.0

\*\*\*\*\*  
 \* SUMMARY OF FLOW PERIODS \*  
 \*\*\*\*\*

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	28.7	28.7	524	316
2	119.8	239.7	119.9	301	185

\*\*\*\*\*  
 \* SUMMARY OF SHUT-IN PERIODS \*  
 \*\*\*\*\*

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	28.7	119.1	90.4	316	463	316	28.7
2	239.7	481.9	242.2	185	316	185	148.6

COMPANY NATURAL GAS  
CORPORATION OF CALIFORNIA

WELL FEDERAL #23-17

TEST NO. 9

COUNTY

UNITAH

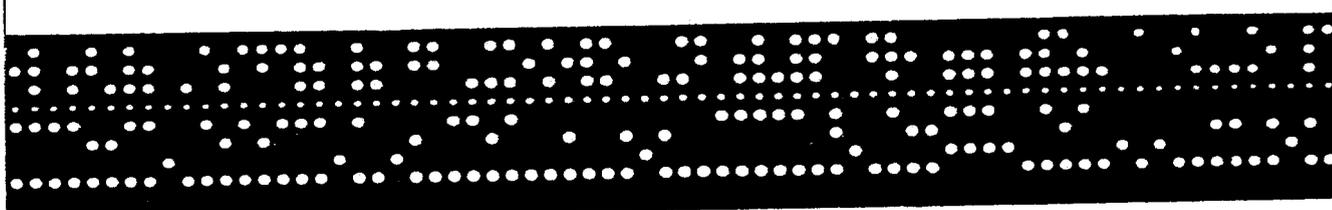
STATE

UTAH

JOHNSTON

Schlumberger

**computerized  
data  
analysis**



FIELD REPORT # 32256 D

JOHNSTON  
Schlumberger

## COMPUTERIZED DATA ANALYSIS

JANUARY 27, 1981

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION DID NOT PRODUCE ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT BUT ADEQUATE SHUT-IN BUILD-UPS DID NOT OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. AFTERFLOW WAS STILL IN EFFECT ON THE INITIAL AND FINAL SHUT-IN BUILD-UPS TO THE EXTENT THAT THE PLOTS ARE CONSIDERED UNRELIABLE FOR ANALYSIS.

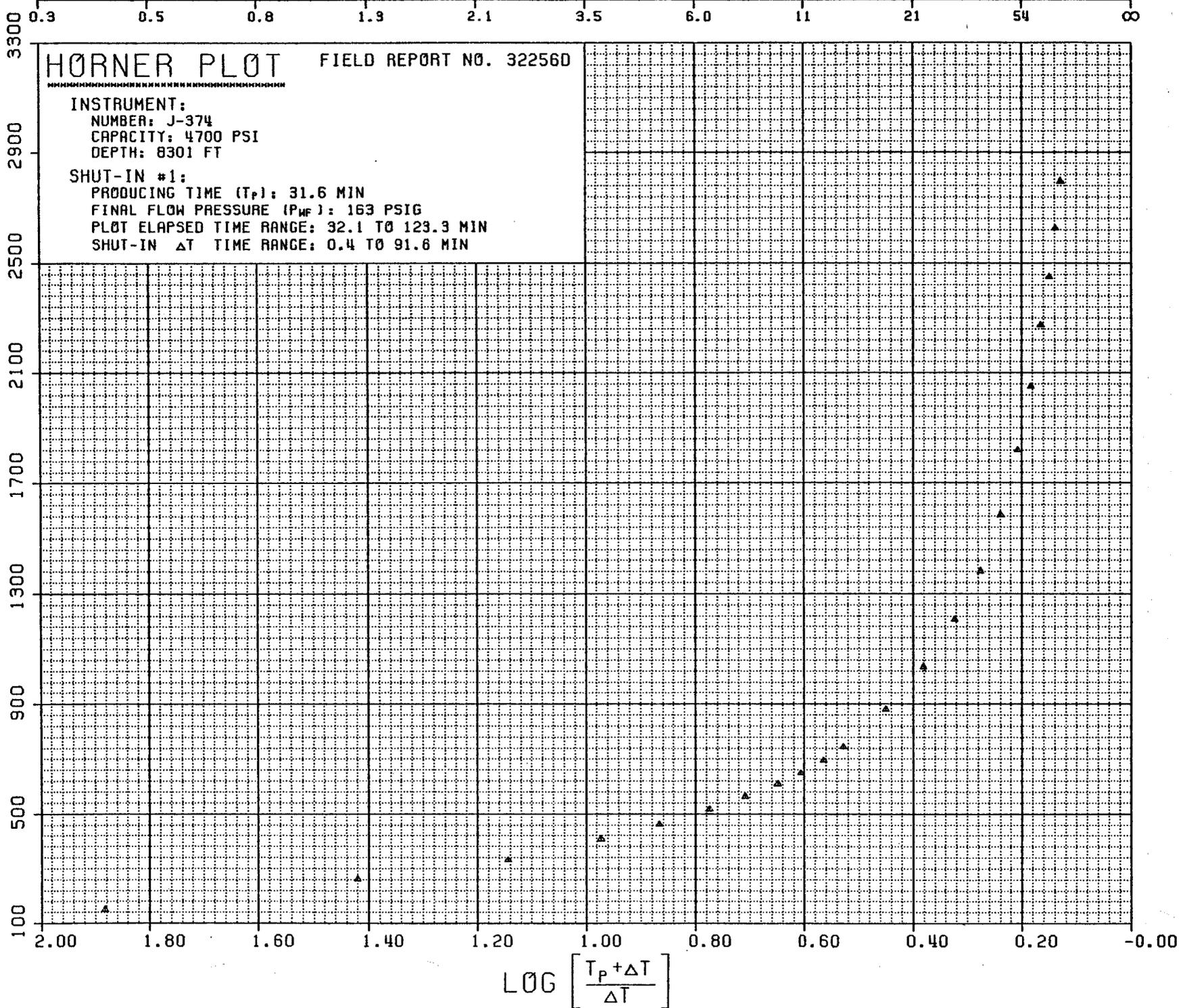
*D. J. Simper*  
D.J. SIMPER  
RESERVOIR EVALUATION  
DEPARTMENT

NATURAL GAS CORPORATION OF CALIFORNIA  
FEDERAL #23-17; UINTAH COUNTY, UTAH  
TEST #9; 8320' TO 8347'  
LOCATION: SEC. 17 - T9S - R24E

FIELD REPORT # 32256 D

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

$\Delta T$  (MIN)



$\Delta T$  (MIN)

# HORNER PLOT

FIELD REPORT NO. 32256D

**INSTRUMENT:**

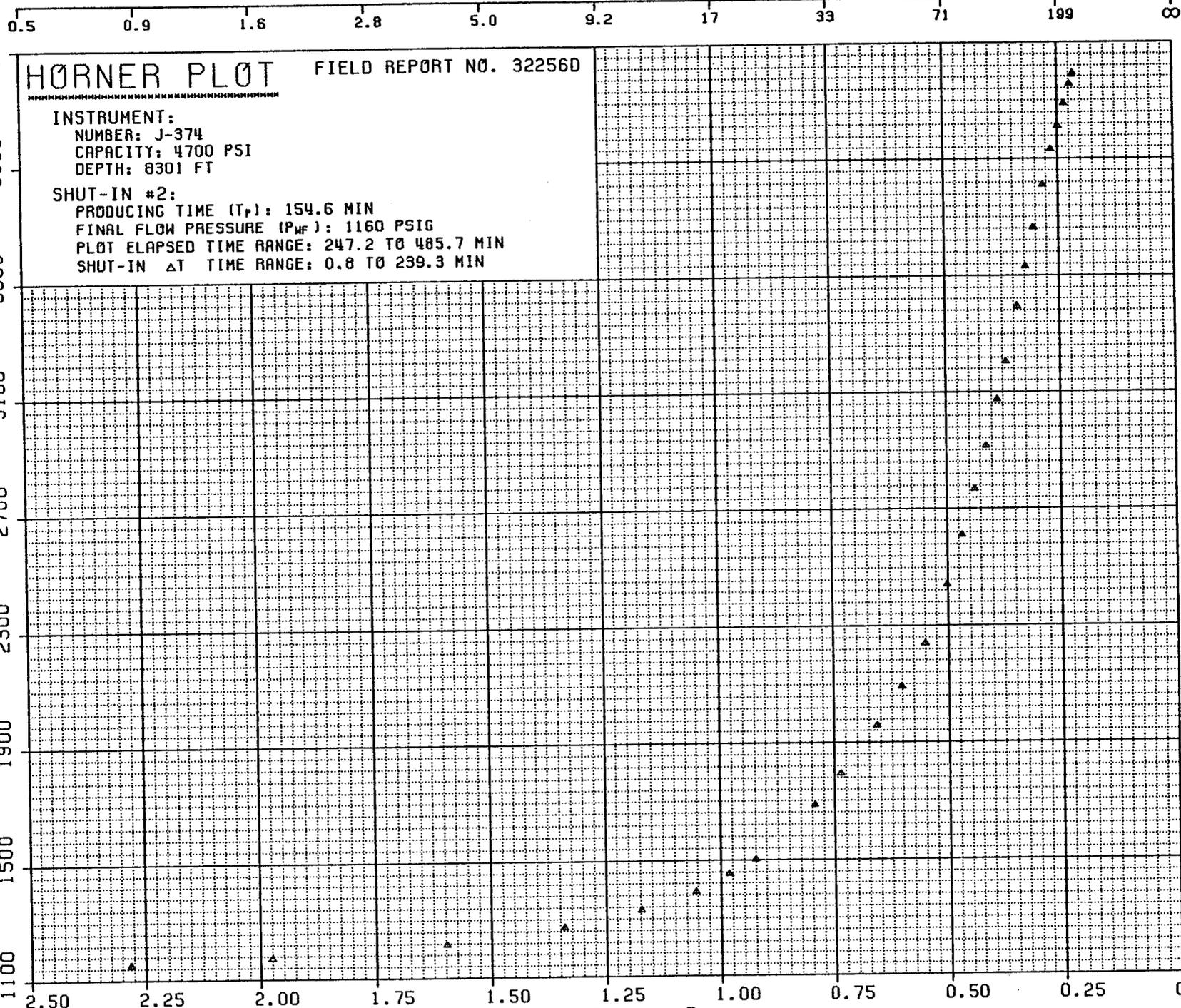
NUMBER: J-374  
CAPACITY: 4700 PSI  
DEPTH: 8301 FT

**SHUT-IN #2:**

PRODUCING TIME ( $T_p$ ): 154.6 MIN  
FINAL FLOW PRESSURE ( $P_{wf}$ ): 1160 PSIG  
PLOT ELAPSED TIME RANGE: 247.2 TO 485.7 MIN  
SHUT-IN  $\Delta T$  TIME RANGE: 0.8 TO 239.3 MIN

SHUT-IN PRESSURE (PSIG)

4300  
3900  
3500  
3100  
2700  
2300  
1900  
1500  
1100



$\log \left[ \frac{T_p + \Delta T}{\Delta T} \right]$

FIELD REPORT NO. 32256D

INSTRUMENT:

NUMBER: J-374

CAPACITY: 4700 PSI

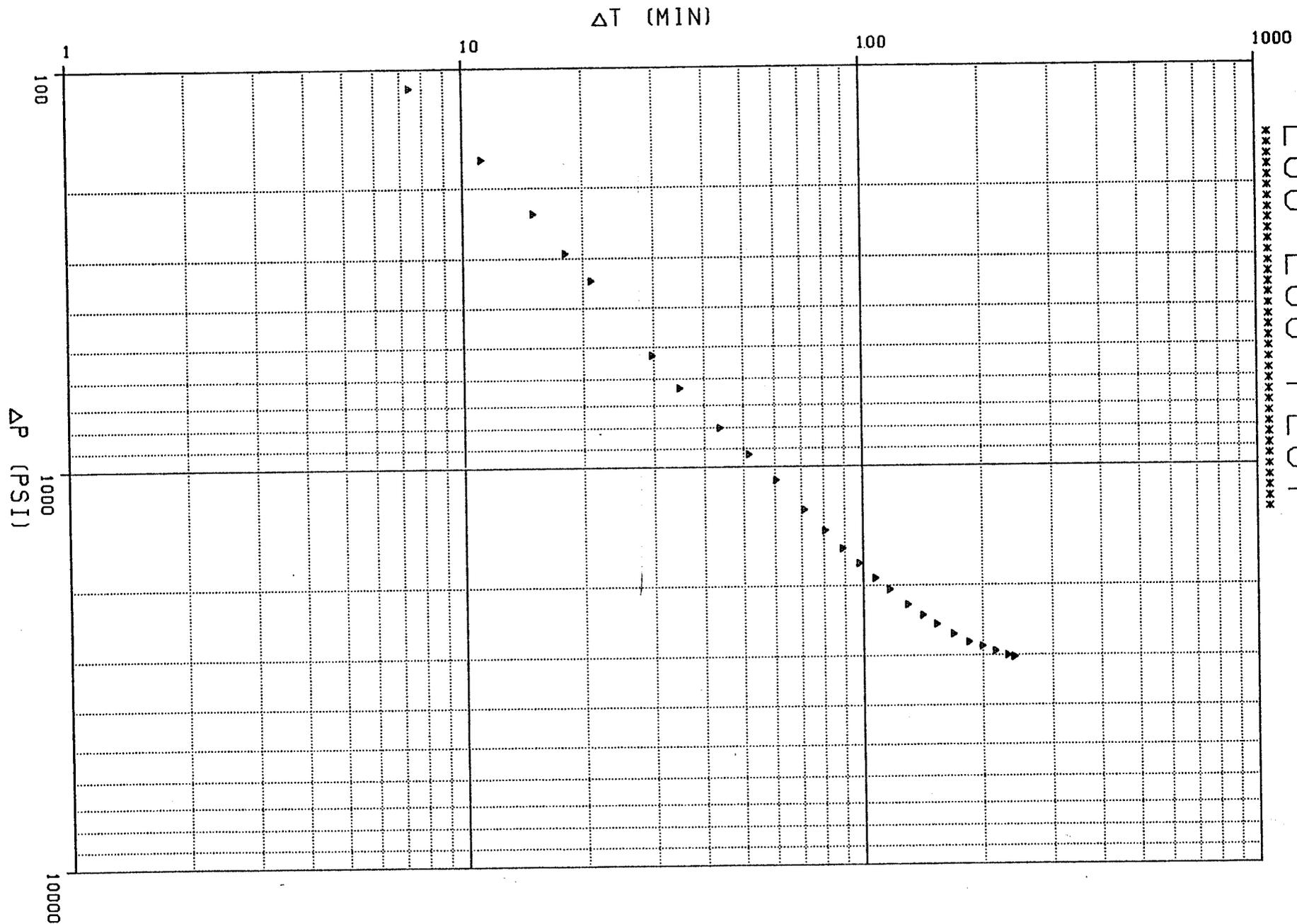
DEPTH: 8301 FT

SHUT-IN #2:

FINAL FLOW PRESSURE ( $P_{WF}$ ): 1160 PSIG

PLOT ELAPSED TIME RANGE: 253.8 TO 485.7 MIN

SHUT-IN  $\Delta T$  TIME RANGE: 7.4 TO 239.3 MIN



LOG-LOG PLOT

----- WELL IDENTIFICATION -----

COMPANY:	NATURAL GAS CORPORATION OF CALIFORNIA	VERNAL, UTAH	84078
WELL:	85 S. 200 EAST	LOCATION:	SEC. 17 - T9S - R24E
TEST INTERVAL:	FEDERAL #23-17	FIELD:	WILD CAT
TEST NO:	9	TEST DATE:	1-21-81
COUNTY:	UINTAH	STATE:	UTAH
TECHNICIAN:	TORGENSON (VERNAL)	TEST APPROVED BY:	MR. CURTIS WINN

----- EQUIPMENT AND HOLE DATA -----

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	-	FT.
ELEVATION:	5257	DRILL PIPE I.D.:	-	IN.
TOTAL DEPTH:	8347	DRILL COLLAR LENGTH:	-	FT.
MAIN HOLE/CASING SIZE:	7 7/8	DRILL COLLAR I.D.:	-	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	8315 & 8320	FT.
FORMATION TESTED:	CASTLEGATE		&	FT.
NET PROD. INTERVAL:	-	DEPTHS REF. TO:	KELLY BUSHING	FT.
POROSITY:	-			%

----- TEST TOOL CHAMBER DATA -----

SAMPLER PRESSURE:	1100	PSIG
RECOVERED OIL GRAVITY:	-	API @
RECOVERY GOR:		DEG. F.
		FT3/BBL.

SAMPLE CHAMBER CONTENTS				
FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	2.68 FT.3			
OIL:	- CC			
WATER:	- CC			
MUD:	- CC			
FILTRATE:				
TOTAL LIQUID:	- CC			

----- MUD DATA -----

TYPE:	BRINE POLYMER
WEIGHT:	10.0 LB/GAL.
VISCOSITY:	31 SEC.
WATER LOSS:	8.0 CC
FLUID	RESIST (OHM-M) TEMP (DEG F) CHLOR (PPM)
MUD:	.06 50
FILTRATE:	142000

----- REMARKS -----

CYCLED TOOL SEVERAL TIMES BEFORE OPENING TOOL FOR TEST.

NO. OF REPORTS REQUESTED: 8 (7X)

FIELD REPORT NO. 32256D

----- SURFACE INFORMATION -----

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
SET PACKER (1-21-81)	1812	-	-
OPENED TOOL	1919	-	-
CLOSED FOR INITIAL SHUT-IN	1949	-	-
FINISHED SHUT-IN	2119	-	-
RE-OPENED TOOL	2120	1	-
BLOW, 12" IN WATER			
BLOW, 10" IN WATER	2130	.5	-
BLOW, 4" IN WATER	2145	-	-
BLOW, 2" IN WATER	2200	-	-
BLOW, 2" IN WATER	2215	-	-
BLOW, 2" IN WATER	2230	-	-
BLOW, 2" IN WATER	2300	-	-
BLOW, 1" IN WATER	2315	-	-
BLOW, 1" IN WATER	2320	-	-
CLOSED FOR FINAL SHUT-IN	2320	-	-
FINISHED SHUT-IN (1-22-81)	0325	-	-
PULLED PACKER LOOSE	0326	-	-

CUSHION TYPE: -	- FT	- PSIG	15/16 IN. BOTTOM CHOKE
-----------------	------	--------	------------------------

----- RECOVERY INFORMATION -----

RECOVERY	FEET	BARRELS	XOIL	XWATER	XOTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
MUD	540	3						.06	52	142000
FILTRATE								.05	56	

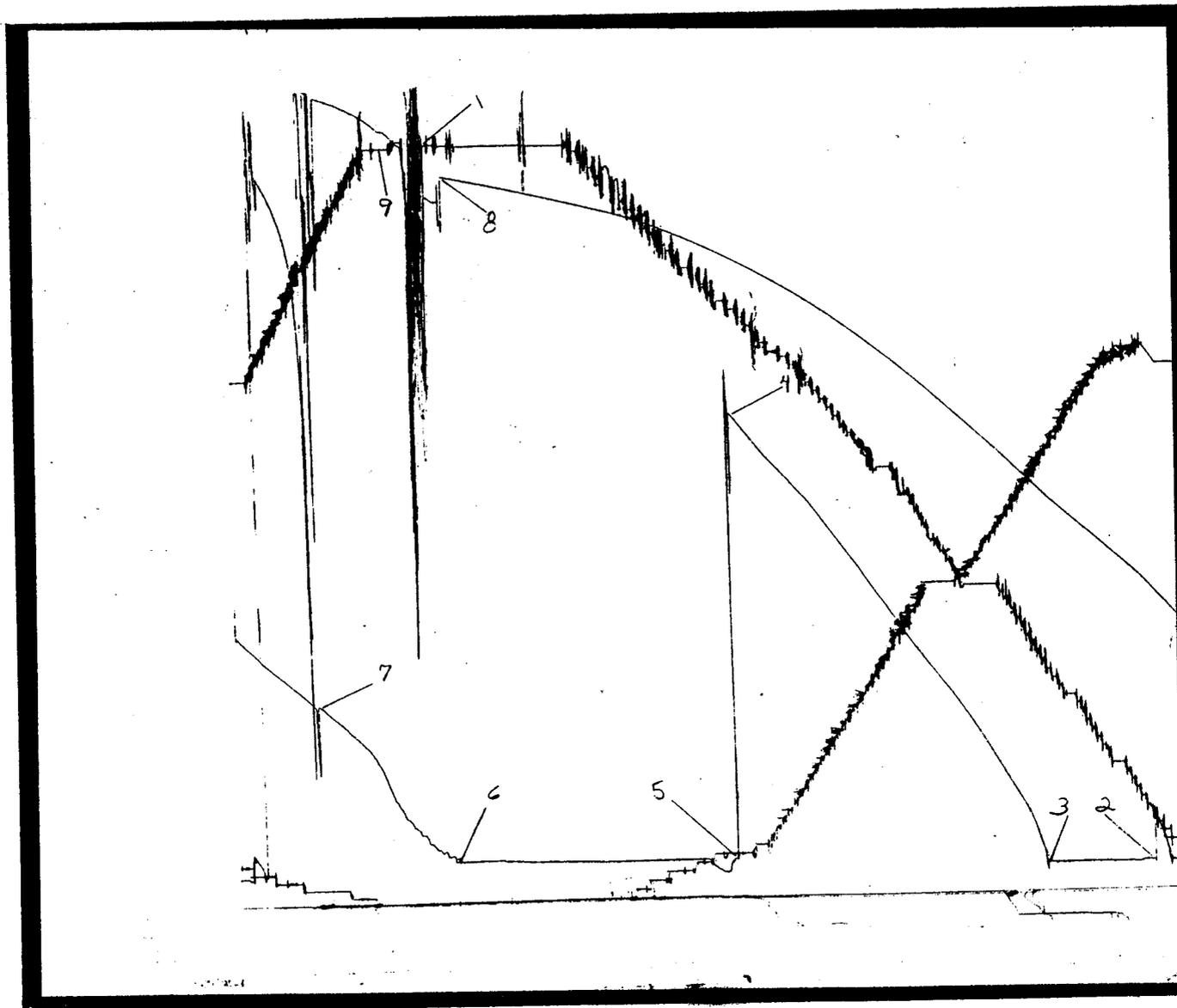
FIELD REPORT NO. 32256D

FIELD REPORT NO.: 32256 D CAPACITY: 4700#

INSTRUMENT NO.: J-374 NUMBER OF REPORTS: 8



CHARTS INDICATE TOOL PLUGGED AT POINT '6' LABELED ON CHART.



# PRESSURE LOG

FIELD REPORT NO. 32256D

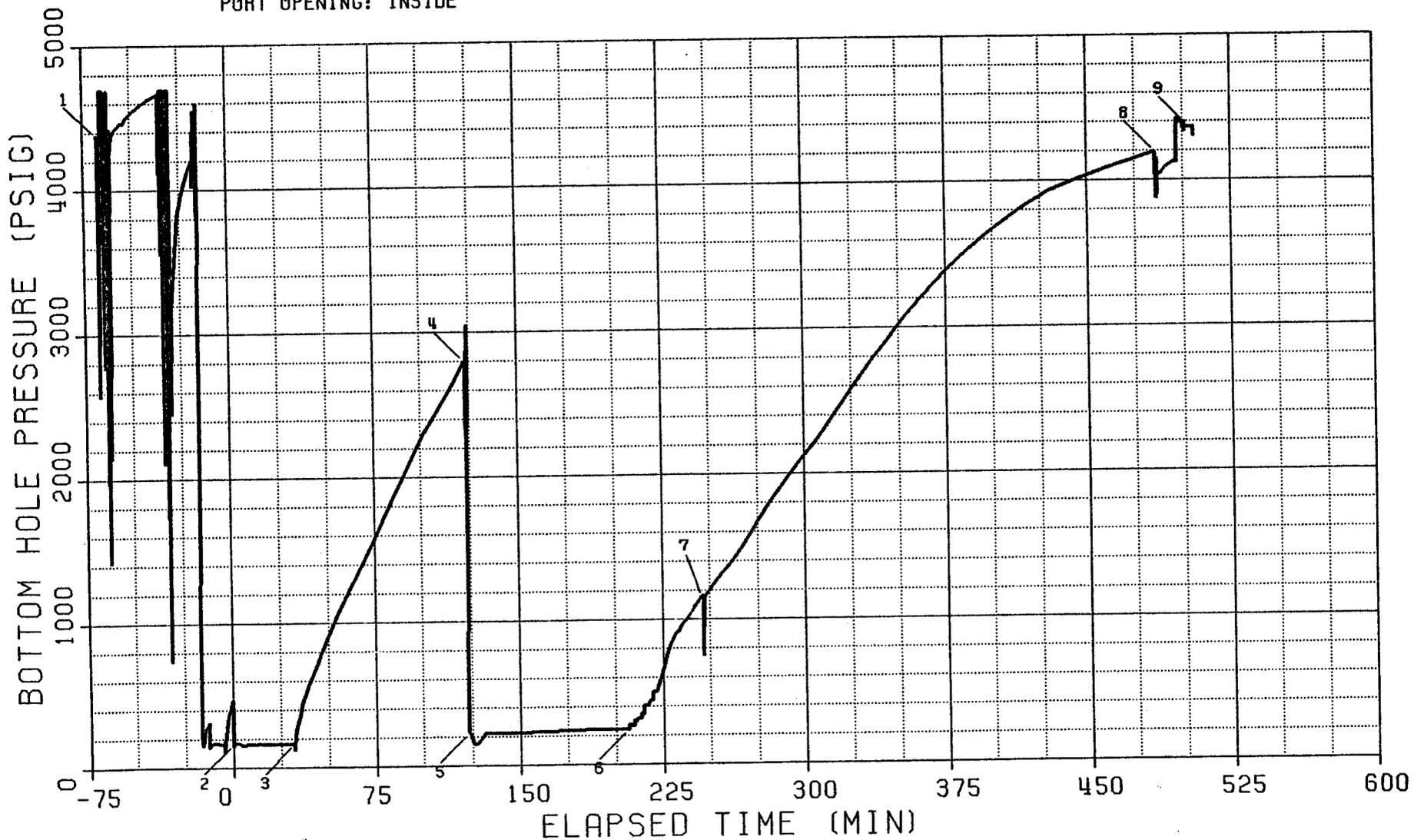
INSTRUMENT:

NUMBER: J-374

CAPACITY: 4700 PSI

DEPTH: 8301 FT

PORT OPENING: INSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-374  
 PORT OPENING: INSIDE

CAPACITY (PSI): 4700  
 BOTTOM HOLE TEMP (F): 158

DEPTH (FT): 8301  
 PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
*****	*****	*****	*****
HYDROSTATIC MUD	1	4376	-68.4
START FLOW	2	166	0.0
END FLOW & START SHUT-IN	3	163	31.6
END SHUT-IN	4	2796	123.3
START FLOW	5	229	123.5
FLOW POINT	6	242	206.6
END FLOW & START SHUT-IN	7	1160	246.4
END SHUT-IN	8	4194	485.7
HYDROSTATIC MUD	9	4359	503.8

\*\*\*\*\*  
 \* SUMMARY OF FLOW PERIODS \*  
 \*\*\*\*\*

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
*****	*****	*****	*****	*****	*****
1	0.0	31.6	31.6	166	163
2	123.5	246.4	122.9	229	1160

\*\*\*\*\*  
 \* SUMMARY OF SHUT-IN PERIODS \*  
 \*\*\*\*\*

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
*****	*****	*****	*****	*****	*****	*****	*****
1	31.6	123.3	91.6	163	2796	163	31.6
2	246.4	485.7	239.3	1160	4194	1160	154.6

TEST PHASE : FLOW PERIOD # 1  
\*\*\*\*\*

ELAPSED TIME (MIN) *****	DELTA TIME (MIN) *****	FLOWING PRESSURE (PSIG) *****
0.0	0.0	166
5.0	5.0	158
10.0	10.0	161
15.0	15.0	162
20.0	20.0	162
25.0	25.0	163
30.0	30.0	163
31.6	31.6	163

TEST PHASE : SHUT-IN PERIOD # 1  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P<sub>WF</sub> "] = 163 PSIG
2. PRODUCING TIME ["T<sub>P</sub> "] = 31.6 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P <sub>WS</sub> "] (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P <sub>WS</sub> ] WS WF *****
31.6	0.0	163		0
32.7	1.0	229	1.514	66
33.7	2.0	306	1.226	143
34.7	3.0	364	1.063	200
35.7	4.0	418	0.950	255
36.7	5.0	463	0.865	300
37.7	6.0	501	0.798	337
38.7	7.0	538	0.742	375
39.7	8.0	574	0.695	410
40.7	9.0	605	0.655	442
41.7	10.0	636	0.620	473
43.7	12.0	701	0.561	538
45.7	14.0	767	0.513	604
47.7	16.0	834	0.474	671
49.7	18.0	899	0.441	736
51.7	20.0	960	0.412	796
53.7	22.0	1020	0.387	857
55.7	24.0	1077	0.365	914
57.7	26.0	1133	0.346	969
59.7	28.0	1189	0.328	1025
61.7	30.0	1240	0.313	1077
66.7	35.0	1366	0.280	1202
71.7	40.0	1499	0.253	1336
76.7	45.0	1635	0.231	1472
81.7	50.0	1775	0.213	1612
86.7	55.0	1911	0.197	1748

TEST PHASE : SHUT-IN PERIOD # 1  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P " ] = 163 PSIG
2. PRODUCING TIME ["T " ] = 31.6 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P " ] WS (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P ] WS WF *****
91.7	60.0	2046	0.184	1882
96.7	65.0	2180	0.172	2016
101.7	70.0	2306	0.162	2143
106.7	75.0	2415	0.153	2252
111.7	80.0	2524	0.145	2361
116.7	85.0	2635	0.137	2471
121.7	90.0	2761	0.131	2598
123.3	91.6	2796	0.129	2632

TEST PHASE : FLOW PERIOD # 2  
\*\*\*\*\*

ELAPSED TIME (MIN) *****	DELTA TIME (MIN) *****	FLOWING PRESSURE (PSIG) *****
123.5	0.0	229
133.5	10.0	225
143.5	20.0	227
153.5	30.0	229
163.5	40.0	232
173.5	50.0	236
183.5	60.0	240
193.5	70.0	243
203.5	80.0	243
213.5	90.0	349
223.5	100.0	589
233.5	110.0	921
243.5	120.0	1115
246.4	122.9	1160

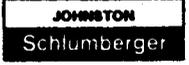
FIELD REPORT NO. 32256D  
INSTRUMENT NO. J-374TEST PHASE: SHUT-IN PERIOD # 2  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P " ] = 1160 PSIG
2. PRODUCING TIME ["T " ] = 154.6 MIN  
P

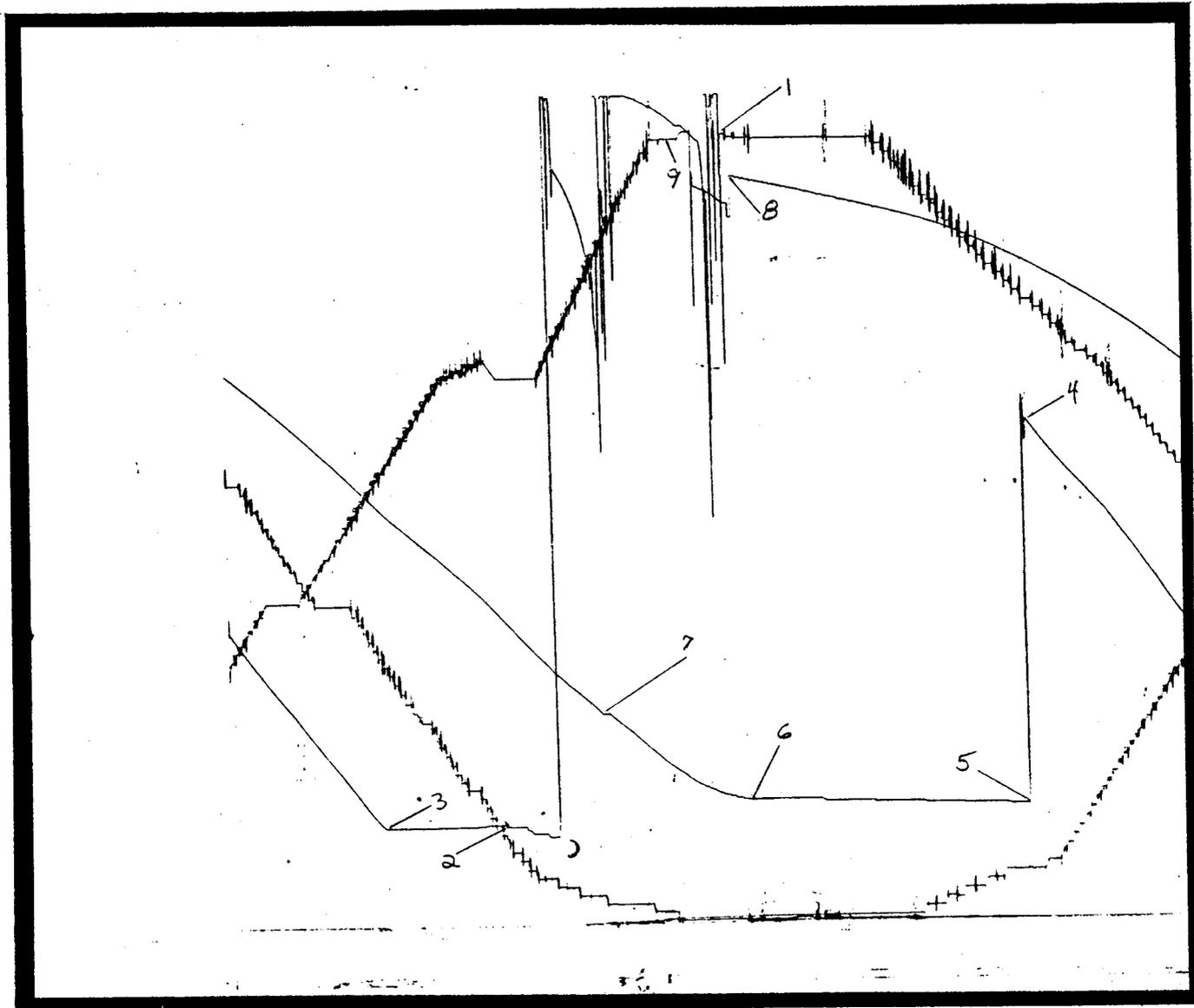
ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P " ] WS (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE ["P - P " ] WS WF *****
246.4	0.0	1160		0
247.4	1.0	1155	2.192	-5
248.4	2.0	1178	1.894	18
249.4	3.0	1197	1.720	36
250.4	4.0	1216	1.598	55
251.4	5.0	1232	1.504	72
252.4	6.0	1249	1.428	89
253.4	7.0	1266	1.363	105
254.4	8.0	1282	1.308	121
255.4	9.0	1297	1.259	137
256.4	10.0	1313	1.216	152
258.4	12.0	1344	1.142	184
260.4	14.0	1376	1.081	216
262.4	16.0	1413	1.028	252
264.4	18.0	1452	0.982	292
266.4	20.0	1487	0.941	327
268.4	22.0	1526	0.904	366
270.4	24.0	1569	0.872	408
272.4	26.0	1611	0.842	451
274.4	28.0	1654	0.814	493
276.4	30.0	1696	0.789	536
286.4	40.0	1892	0.687	732
296.4	50.0	2066	0.612	906
306.4	60.0	2232	0.553	1072
316.4	70.0	2419	0.506	1259
326.4	80.0	2608	0.467	1447
336.4	90.0	2788	0.434	1627
346.4	100.0	2956	0.406	1796
356.4	110.0	3118	0.381	1958
366.4	120.0	3264	0.359	2104
376.4	130.0	3405	0.340	2244
386.4	140.0	3528	0.323	2367
396.4	150.0	3637	0.308	2476
406.4	160.0	3734	0.294	2574
416.4	170.0	3825	0.281	2665
426.4	180.0	3905	0.269	2744
436.4	190.0	3966	0.259	2806
446.4	200.0	4018	0.249	2857
456.4	210.0	4065	0.240	2905
466.4	220.0	4110	0.231	2950
476.4	230.0	4153	0.223	2992
485.7	239.3	4194	0.216	3033

FIELD REPORT NO.: 32256 D CAPACITY: 4700#

INSTRUMENT NO.: J-1651 NUMBER OF REPORTS: 8



CHARTS INDICATE TOOL PLUGGED AT POINT '6' LABELED ON CHART.



**BOTTOM HOLE PRESSURE AND TIME DATA**

INSTRUMENT NO.: J-1651  
 PORT OPENING: OUTSIDE

CAPACITY (PSI): 4700  
 BOTTOM HOLE TEMP (F): 158

DEPTH (FT): 8325

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	4423	-66.0
START FLOW	2	565	0.0
END FLOW & START SHUT-IN	3	555	34.2
END SHUT-IN	4	2802	124.7
START FLOW	5	646	124.8
FLOW POINT	6	690	205.9
END FLOW & START SHUT-IN	7	1182	248.1
END SHUT-IN	8	4188	485.9
HYDROSTATIC MUD	9	4398	503.5

\*\*\*\*\*  
 \* SUMMARY OF FLOW PERIODS \*  
 \*\*\*\*\*

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	34.2	34.2	565	555
2	124.8	248.1	123.3	646	1182

\*\*\*\*\*  
 \* SUMMARY OF SHUT-IN PERIODS \*  
 \*\*\*\*\*

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	34.2	124.7	90.5	555	2802	555	34.2
2	248.1	485.9	237.9	1182	4188	1182	157.4

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

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

January 23, 1981

Mr. E. W. Guynn  
Geological Survey-Conservation Div.  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, UT 84104

Mr. Michael T. Minder  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, UT 84116

Enserch Exploration, Inc.  
909 South Meridian, Suite 608  
Oklahoma City, OK 73128

Enserch Exploration, Inc.  
Metrobank Bldg., Suite 1322  
Denver, CO 80202  
Attn: Richard Smith

Mr. Bob Gilmore  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Re: NGC #23-17 Federal  
Section 17, T9S, R24E  
Uintah County, Utah  
Devils Playground Unit

Gentlemen:

Enclosed are copies of Form 9-331, Sundry Notices and Reports on Wells,  
Request for Approval to Change Plans and Revise Proposed Depth for the  
above referenced well.

Sincerely,

R. J. Firth  
District Supt.

RJF/kh

Encls.

cc: E. J. Gelwick  
C. T. Clark  
E. R. Henry

DIVISION OF  
OIL, GAS & MINING

**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  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1923' FSL, 2080' FWL, NE $\frac{1}{4}$  SW $\frac{1}{4}$   
AT TOP PROD. INTERVAL: Section 17, T9S, R24E  
AT TOTAL DEPTH:

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

5. LEASE  
U-31266

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Devils Playground

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
23-17

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 17, T9S, R24E

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5243' GR, 5258' KB

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other)		

Revise Proposed 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.)\*

Approved Application for permission to Drill, Deepen, or Plug Back dated 2-22-80 indicated a proposed depth of 7100'.

In order to fully evaluate the Mesaverde formation in this area, operator desires to drill the well to a new proposed depth of 8500'.

**APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING**  
DATE: 1-27-81  
BY: M. J. Minder

*[Faint stamp]*  
JAN 27 1981

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ DIVISION OF OIL, GAS & MINING \_\_\_\_\_ Ft.

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

SIGNED [Signature] TITLE District Supt. DATE 1/23/81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: USGS; UT Div. OG&M; E. J. Gelwick; C. T. Clark; E. R. Henry; Enserch, Denver; Enserch, Oklahoma City; DeGolyer & MacNaughton

NATURAL GAS CORPORATION  
OF CALIFORNIA

85 South 200 East  
Vernal, Utah 84078  
(801) 789-4573  
January 26, 1981

Mr. E. W. Guynn  
Geological Survey-Conservation Div.  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, UT 84104

Mr. Michael T. Minder  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, UT 84116

Enserch Exploration, Inc.  
909 South Meridian, Suite 608  
Oklahoma City, OK 73128

Enserch Exploration, Inc.  
Metrobank Bldg., Suite 1322  
Denver, CO 80202  
Attn: Richard Smith

Mr. Bob Gilmore  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Re: NGC #23-17 Federal  
Section 17, T9S, R24E  
Uintah County, Utah  
Devils Playground Unit

Gentlemen:

Enclosed are copies of Form 9-331, Sundry Notices and Reports on Wells, Subsequent Report of Setting and Cementing Production Casing for the above captioned well.

Sincerely,

R. J. Firth  
District Superintendent

/kh

Encls.

cc: E. J. Gelwick  
C. T. Clark (Cover Letter Only)  
E. R. Henry

1981 JAN 27 10 10 AM

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  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1923' FSL, 2080' FWL, NE SW  
AT TOP PROD. INTERVAL: Section 17, T9S, R24E  
AT TOTAL DEPTH: S.L.B. & M.

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

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Setting &amp; Cementing</u>	<input checked="" type="checkbox"/>
<u>Production Casing</u>	

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 well on September 26, 1980. Set 13-3/8" surface casing at 150' with 150 sacks cement. Drilled 12-1/4" hole to 2809' and ran electric logs. Ran 72 jts. 9-5/8", 36.0#, K55 new intermediate casing and landed at 2809'. Cemented to surface with 1200 sacks cement. W.O.C. and nipple up BOP equipment.

Drilled 7-7/8" hole to 8450' and conducted electric logging operations. Ran 224 jts. 4-1/2", 11.6#, N-80 production casing with guide shoe, float collar, and DV collar at 5021'. Cemented thru shoe with 950 sacks RFC cement and thru DV collar at 5021.82 with 550 sacks RFC cement. W.O.C. Released rotary drilling rig and equipment 1-25-81. Waiting on completion unit and determining completion procedures.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED [Signature] TITLE District Supt. DATE 1/26/81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: USGS; UT Div. OG&M; Enserch, CO; Enserch, OK; DeGolyer & MacNaughton; E. J. Gelwick; E. R. Henry

\*See Instructions on Reverse Side

5. LEASE  
U-31266

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Devils Playground

8. FARM OR LEASE NAME  
Federal FEB 2 1981

9. WELL NO.  
23-17

10. FIELD OR WILDCAT NAME  
DIVISION OF OIL, GAS & MINING

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 17, T9S, R24E

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5243' GR

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

June 23, 1981

Natural Gas Corporation of California  
85 South 200 East,,  
Vernal, Utah 84078

Re: Well No. Devils Playground 23-17  
Sec. 17, T. 9S, R. 24E  
Uintah County, Utah  
(February-May '81)

Gentlemen:

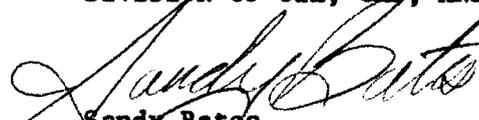
Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U. S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells," or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING



Sandy Bates  
Clerk-Typist

/lm

Enclosures: Forms

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

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

June 26, 1981

Mr. Michael T. Minder  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, UT 84116

Enserch Exploration, Inc.  
Metrobank Bldg., Suite 1322  
Denver, CO 80202  
Attn: Richard Smith

Mr. E. W. Guynn  
Geological Survey-Conservation Div.  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, UT 84104

Mr. Bob Gilmore  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Enserch Exploration, Inc.  
909 South Meridian, Suite 608  
Oklahoma City, OK 73128

Re: NGC #23-17 Federal, Devils Playground  
Section 17, T9S, R24E  
Uintah County, Utah

Gentlemen:

Enclosed are copies of Form OGC-1B, Sundry Notices and Reports on Wells,  
Subsequent Report of Monthly Operations for the period of February - June,  
1981, for the above referenced well.

**RECEIVED**  
JUN 29 1981

Yours truly,

*William A. Ryan*  
William A. Ryan  
Petroleum Engineer

/kh

Encls.

**DIVISION OF  
OIL, GAS & MINING**

cc: Operations Supt.  
C. T. Clark (Cover Letter Only)  
E. R. Henry

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO. U-31266
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME Devils Playground
8. FARM OR LEASE NAME Federal
9. WELL NO. 23-17
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Section 17, T9S, R24E
12. COUNTY OR PARISH Uintah
13. STATE Utah

**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.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
1923' FSL, 2080' FWL, NE 1/4 SW 1/4 Section 17, T9S, R24E

14. PERMIT NO.      15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5243' GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Monthly Report - Feb.-June</u> <input checked="" type="checkbox"/>	

(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.)\*

Shut in gas well - waiting on completion.

18. I hereby certify that the foregoing is true and correct  
SIGNED W. A. Ryan TITLE Petroleum Engineer DATE June 26, 1981

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:  
cc: USGS; Div. OG&M; Enserch Explo.-OK; Enserch - CO; DeGolyer; Operations; E. R. Henry



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 4, 1982

Natural Gas Corporation of Cal.  
85 South 200 East  
Vernal, Utah 84078

Re: Well No. Federal 4-4  
Sec. 4, T. 10S, R. 23E  
Uintah County, Utah

Well No. Devil's Playground Federa 23-17  
Sec. 17, T. 9S, R. 24E  
Uintah County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse  
Clerk Typist



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 4, 1982

Natural Gas Corporation of Cal.  
85 South 200 East  
Vernal, Utah 84078

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

NATURAL GAS  
CORPORATION

FEB 05 1982

VERNAL OFFICE

Re: Well No. Federal 4-4  
Sec. 4, T. 10S, R. 23E  
Uintah County, Utah

Well No. Devil's Playground Federa 23-17  
Sec. 17, T. 9S, R. 24E  
Uintah County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

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

February 9, 1982

Mr. E. W. Guynn  
Geological Survey-Conservation Div.  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, UT 84104

Mr. Richard Smith  
Enserch Exploration, Inc.  
Metrobank Bldg., Suite 1322  
Denver, CO 80202

Ms. Cari Furse  
State of Utah  
Natural Resources and Energy  
Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Mr. Bob Gilmore  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Enserch Exploration, Inc.  
909 South Meridian, Suite 608  
Oklahoma City, OK 73128

Re: NGC #23-17 Federal  
Section 17, T.9S, R.24E  
Uintah County, Utah  
Devils Playground Unit

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells,  
Notification of Well Status, for the above referenced well.

Yours truly,



Rick Canterbury  
Associate Engineer

/kh

Attachment

cc: Operations  
E. R. Henry  
C. T. Clark (Cover Letter Only)

THE DIRTY DEVIL, L.P. - OPERATOR  
GAS WELLS IN THE DIRTY DEVIL UNIT

022019

<u>Well Name</u>	<u>Location</u>	<u>Lease #</u>
1. Well No. 31-15A	NW/4NE/4 Section 15 T9S-R24E SLM Uintah County, Utah API #4304731726	ML-28042
2. Well No. 32-31	SW/4NE/4 Section 31 T9S-R24E SLM Uintah County, Utah API #4304731010	U-9215
3. Well No. 44-5	SE/4SE/4 Section 5 T10S-R24E SLM Uintah County, Utah API #4304730280	U-1207
4. Well No. 11-29	NW/4NW/4 Section 29 T9S-R24E SLM Uintah County, Utah API #4304731617	ML - 22161
5. Well No. 23-20	NE/4SW/4 Section 20 T9S-R24E SLM Uintah County, Utah API #4304731009	U-31266
6. Well No. 23-17	NE/4SW/4 Section 17 T9S-R24E SLM Uintah County, Utah API #4304730568	U-31266 SGW
7. Well No. 22-27	SE/4NW/4 Section 27 T9S-R24E SLM Uintah County, Utah API #4304731507	SL-071725-C
8. Well No. 41-9	NE/4NE/4 Section 9 T9S-R24E SLM Uintah County, Utah API #4304730339	U-5217

**DIRTY DEVIL UNIT  
GAS WELLS**

9. Well No. 1-18

NW/4NE/4 Section 18  
T9S-R24E  
SLM  
Uintah County, Utah  
API #4304730124

U-0145459

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  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1923' FSL, 2080' FWL, Sec. 17,  
AT TOP PROD. INTERVAL: T.9S, R.24E  
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <u>Notification of Well Status</u>			

(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.)\*

**Drilling operations on this well were completed on January 26, 1981 and on this date the well has not been completed for production.**

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Rick Canterbury TITLE Associate Engr. DATE February 9, 1982  
Rick Canterbury

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: USGS; Div. Oil, Gas & Mining; Operations; ERHenry; DeGolyer; Enserch

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-31266

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**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.)

7. UNIT AGREEMENT NAME

Devils Playground

8. FARM OR LEASE NAME

Federal

9. WELL NO.

23-17

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 17, T.9S, R.24E

12. COUNTY OR PARISH 13. STATE

Uintah Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078 Telephone 801-789-4573

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
1923' FSL, 2080' FWL, NE SW Section 17, T.9S, R.24E

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5243' GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other) Notify of Change of Operator   
PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)   
REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*   
(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.)\*

This is to notify you that the operator of the subject well has changed from Pacific Transmission Supply to Natural Gas Corporation of California.

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

SIGNED Rick Canterbury TITLE Associate Engineer DATE 2/10/82  
Rick Canterbury

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: Operations; E. R. Henry

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

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

February 10, 1982

**RECEIVED**  
FEB 11 1982

Ms. Cari Furse  
State of Utah Natural Resources and Energy  
Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

**DIVISION OF  
OIL, GAS & MINING**

Re: NGC #4-4 Federal, Lease No. U-33433  
NW SE Section 4, T.10S, R.23E  
Uintah County, Utah

NGC #23-17 Federal, Lease No. U-31266  
NE SW Section 17, T.9S, R.24E  
Uintah County, Utah

Dear Ms. Furse:

Attached are copies of Form OGC-1b, Sundry Notices and Reports on Wells,  
Notification of Change of Operator from Pacific Transmission Supply Co.  
to Natural Gas Corporation of California, for the above referenced wells.

Sincerely,

*Rick Canterbury*

Rick Canterbury  
Associate Engineer

/kh

Attachment

cc: Operations  
E. R. Henry



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 15, 1983

Natural Gas Corporation of California  
85 South 200 East  
Vernal, Utah 84078

Re: Well No. Devil's Plygr Fed. # 23-17  
Sec. 17, T. 9S, R. 24E.  
Uintah County, Utah

Well No. Federal # 4-4  
Sec. 4, T. 10S, R. 23E.  
Uintah County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells are due and have not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Well Records Specialist

CF/cf  
Enclosure



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 22 1983

Natural Gas Corporation of California  
85 South 200 East  
Vernal, Utah, 84078

Re: Well No. Fed. #23-17  
1923' FSL, 2080' FWL NE SW  
Sec. 17, T. 9S, R. 24E.  
Uintah County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

\*\*You are in violation with the above rule. If you wish to continue developing business in the State of Utah, compliance with pertinent rules and regulations is essential. Further delay in your attention to the above matter may result in punitive action. Please submit the required information as stated above within fifteen (15) days.

Respectfully,

A handwritten signature in cursive script that reads "Claudia Jones".

Claudia Jones  
Well Records Specialist

CJ/cj  
Enclosure

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

U-31266

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Devils Playground

8. FARM OR LEASE NAME

Federal

9. WELL NO.

23-17

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 17, T.9S., R.24E.

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

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 Pending Completion

2. NAME OF OPERATOR

Natural Gas Corporation of California

3. ADDRESS OF OPERATOR

85 South 200 East, Vernal, UT 84078 Telephone 801-789-4573

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1923' FSL, 2080' FWL NE 1/4 SW 1/4 Sec. 17, T.9S., R.24E.

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

43-047-3826

15. DATE SPUNDED

9/27/80

16. DATE T.D. REACHED

1/25/81

17. DATE COMPL. (Ready to prod.)

SI Pending Completion

18. ELEVATIONS (DF, REB, RT, GR, ETC.)\*

5243' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

8469'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

→

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

Not completed

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction, BHC Sonic, DLL-CNL, Cyberlook *sample*

27. WAS WELL CORED

None

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"		150'	17-1/2"	150 sx	None
9-5/8"	36#	2809'	12-1/4"	1200 sx	None
4-1/2"	11.6#	8465'	7-7/8"	1500 sx	None

29. LINER RECORD

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

30. TUBING RECORD

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

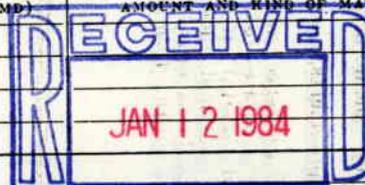
31. PERFORATION RECORD (Interval, size and number)

None

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

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

None



33.\* PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or Not completed/Shut-in)

None

None

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

NA

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED

*Wm Ryan*  
W. A. Ryan

TITLE

DATE 1/5/84

\*(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 report 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 36.

**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.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH
				Douglas Creek	3600'
				Wasatch	4283'
				Mesaverde	6272'
				Castle Gate	8209'



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

November 7, 1984

Natural Gas Corporation of California  
85 South 200 East  
Vernal, Utah 84078

Gentlemen:

Re: Well No. Federal 23-17 - Sec. 17, T. 9S., R. 24E.  
Uintah County, Utah - API #43-047-30568

The above referred to well has been under an operation suspended status for six months or longer. Please inform this office of the current status of this well location or what operations are currently being performed on this well. Enclosed is Form OGC-1b, "Sundry Notices and Reports on Wells" that you may use to inform our office regarding this matter.

Thank you for your prompt attention to the above matter.

Sincerely,

A handwritten signature in cursive script that reads "Claudia Jones". The signature is fluid and elegant, with a prominent loop at the end of the last name.

Claudia Jones  
Well Records Specialist

clj  
Enclosure  
cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File  
00000012/8

*Natural Gas  
Corporation of  
California*

NGC NGC

November 15, 1984

Bureau of Land Management  
Branch of Fluid Minerals  
Vernal District Office  
170 South 500 East  
Vernal, UT 84078

Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

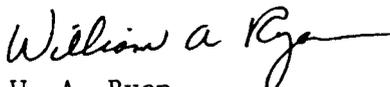
Mr. John Baker  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Re: NGC #23-17 Federal  
Section 17, T.9S., R.24E.  
Uintah County, UT  
Devils Playground Unit

Gentlemen:

Attached are copies of Form 3160-5, Sundry Notices and Reports on Wells, Report of Well Status, for the subject well.

Yours truly,

  
W. A. Ryan  
Petroleum Engineer

/kh

Attachment

cc: H. Myers  
Land Dept.  
L. Jorgensen  
S. Furtado

Enserch Exploration, Inc.  
Metrobank Bldg., Suite 1322  
Denver, CO 80202

Enserch Exploration, Inc.  
909 South Meridian, Suite 608  
Oklahoma City, OK 73128

**RECEIVED**  
NOV 20 1984

**DIVISION OF  
OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL  
(Other instructions  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

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.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-31266
2. NAME OF OPERATOR Natural Gas Corporation of California		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 85 South 200 East, Vernal, UT 84078		7. UNIT AGREEMENT NAME Devils Playground
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1923' FSL, 1080' FWL, NE 1/4 SW 1/4 Sec. 17, T.9S., R.24E.		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-047-30568	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5243' Gr.	9. WELL NO. 23-17
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T.9S., R.24E.
		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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Well Status</u> <input checked="" type="checkbox"/>	

(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 reports the status of the subject well as "shut-in gas well" pending re-evaluation of completion operations.

"Operations Suspended"

RECEIVED  
NOV 20 1984  
DIVISION OF  
OIL, GAS & MINING

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

SIGNED William A. Ryan TITLE Petroleum Engineer DATE Nov. 15, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP  
(Other instruction  
reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

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.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-31266
2. NAME OF OPERATOR Natural Gas Corporation of California		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 85 South 200 East, Vernal, UT 84078		7. UNIT AGREEMENT NAME Devils Playground
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1923' FSL 2080 FWL NE SW Section 17, T.9S., R.24E.		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-047-30568	15. ELEVATIONS (Show whether OF, RT, GR, etc.) 5243' GR	9. WELL NO. 23-17
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 17, T.9S., R.24E.
		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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(Other) Request Temporary Surface Pit  (NOTE: Report results of multiple completion on Well Completion or Recombination 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 requests an unlined surface pit per NTL-2B, Sec. VI. The subject pit would be used as a blow down pit when the well is flow tested.

If you require additional information, please contact me at our Vernal office - telephone 789-4573.

RECEIVED  
NOV 23 1984

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct  
SIGNED William A. Ryan TITLE Petroleum Engineer DATE November 15, 1984  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE APPROVED BY THE STATE DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY: OF UTAH DIVISION OF

Federal approval of this action is required before commencing operations.

ACCEPTED  
DATE: 12/20/84  
BY: [Signature]

\*See Instructions on Reverse Side



## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
UTAH STATE OFFICE  
324 SOUTH STATE, SUITE 301  
SALT LAKE CITY, UTAH 84111-2303

October 9, 1986

Dirty Devil, L.P.  
10200 East Girard Ave., Suite E225  
Denver, Colorado 80231

Re: Successor of Operator  
Dirty Devil Unit  
Uintah County, Utah

Gentlemen:

We received an indenture dated October 8, 1986, whereby Hiko Bell Mining and Oil Company resigned as Operator and Dirty Devil, L.P. was designated as Operator for the Dirty Devil Unit Agreement, Uintah County, Utah.

This indenture was executed by all required parties. The signatory parties have complied with Section 6 of the unit agreement. The instrument is hereby accepted effective as of October 9, 1986. Please advise all interested parties of the change in unit operator.

Sincerely,

Howard A. Lemm  
Chief, Branch of Fluid Minerals

Enclosure

RECEIVED  
NOV 14 1986

DIVISION OF  
OIL, GAS & MINING



# United States Department of the Interior

IN REPLY REFER TO

BUREAU OF LAND MANAGEMENT  
UTAH STATE OFFICE  
324 SOUTH STATE, SUITE 301  
SALT LAKE CITY, UTAH 84111-2303

3160  
(U-922)

October 15, 1986

Dirty Devil, L.P.  
10200 East Girard Ave.  
Suite E 225  
Denver, CO 80231

Re: Wasatch Formation Participating Area  
Dirty Devil Unit  
Uintah County, Utah

Gentlemen:

Your application of August 22, 1986, originally filed by Hiko Bell Mining and Oil Company, requests an Initial Wasatch Formation Participating Area "A" of 320.00 acres. The application is to be named the Wasatch Formation Participating Area and is approved effective as of August 17, 1984, pursuant to Section 11 of the Dirty Devil Unit Agreement, Uintah County, Utah.

This participating area is based upon the completion of Unit Well No. 22-27, in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 27, T. 9 S., R. 24 E., SLM, Federal Unit Tract No. 1, Lease No. SL-071725C, as being a well capable of producing unitized substances in paying quantities. Enclosed is a schedule showing the lands and their percentage of allocation in the participating area. At this time, leases U-14233 and U-38433 are considered unleased tracts, pending outcome of appeals, and should not receive any allocation of revenues.

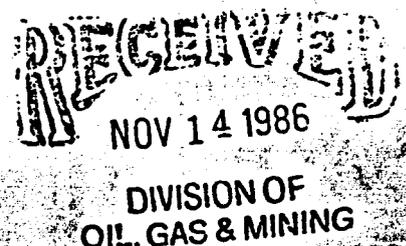
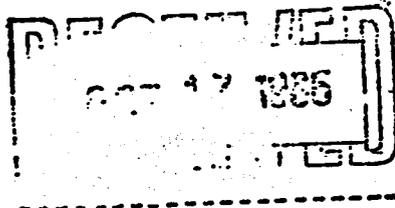
Copies of the approved request are being distributed to the appropriate agencies and one copy is returned herewith. Please advise all interested parties of the establishment of the Wasatch Formation Participating Area.

In accordance with Section 11 and 32 of the Dirty Devil Unit, the Devils Playground Unit No. 14-08-0001-16086 automatically terminated August 17, 1984, and associated participating areas with the Devils Playground Unit are now incorporated into the Dirty Devil Unit.

Sincerely,

*Howard A. Lemm*  
Howard A. Lemm  
Chief, Branch of Fluid Minerals

Enclosure





**EPS Resources Corporation**

Kennedy Center  
10200 E. Girard Ave. Bldg. B. Suite 225  
Denver, Colorado 80231  
(303) 696-2654

November 12, 1986

**RECEIVED**  
NOV 14 1986

**DIVISION OF  
OIL, GAS & MINING**

Ms. Claudia L. Jones  
State of Utah Natural Resources  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

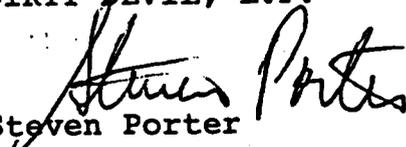
Dear Claudia:

As per our conversation, the Dirty Devil, L.P. is Operator of the Dirty Devil Unit. The Unit was formed August 17, 1984 when the Participating Area was approved for Unit well no. 22-27 on October 15, 1986.

The Dirty Devil, L.P. will be reporting production quantities as of November 1, 1986, for all wells within the unit. To expedite reporting of the Dirty Devil 11-29 well, enclosed are production reports for September and October. The well has been tested and is awaiting a pipeline. Production of the well is expected to commence in December.

Sincerely,

DIRTY DEVIL, L.P.

  
Steven Porter

SP/ng



**EPS Resources Company**

Kennedy Center  
10200 E. Girard Ave. Bldg. B. Suite 225  
Denver, Colorado 80231  
(303) 696-2654

February 12, 1987

FEB 17 1987

Bureau of Land Management  
U. S. Department of Interior  
170 South 500 East  
Vernal, Utah 84078

DIVISION OF  
OIL, GAS & MINING

Gentlemen:

Please find enclosed the **Well Completion Reports and Logs**, in duplicate, for the following three wells, located in Uintah County, Utah:

Well No. 23-20, Lease No. U-31266, Sec. 20, T9S-R24E  
Well No. 23-17, Lease No. U-31266, Sec. 17, T9S-R24E  
Well No. 31-15A, Lease No. ML-28042, Sec. 15, T9S-R24E

If you need any further information, please call.

Sincerely,

THE DIRTY DEVIL, L.P.

Edward Neibauer

cc: State of Utah, Natural Resources ✓  
Champlin Petroleum Company  
Chorney Oil Company  
Enserch Exploration, Inc.  
Natural Gas Corp. of California

EN/ng

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See Instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-31266

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

022034

7. UNIT AGREEMENT NAME

Dirty Devil

8. FARM OR LEASE NAME

Federal

9. WELL NO.

23-17

10. FIELD AND POOL, OR WILDCAT

Bonanza

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 17, T9S-R24E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT (AND LOG)

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY   
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESRV.  Other \_\_\_\_\_  
 FEB 17 1987

2. NAME OF OPERATOR: Dirty Devil, L.P. DIVISION OF OIL, GAS & MINING  
 3. ADDRESS OF OPERATOR: (303)696-2654

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
 At surface: 10200 E. Girard Ave., Suite B-225, Denver, Colorado 80231  
 At top prod. interval reported below: 1923' FSL, 2080' FWL, Section 17, T9S-R24E, SLB & M  
 At total depth: Same

14. PERMIT NO. 43-047-30568 DATE ISSUED

15. DATE SPUDDED: 9/27/80 16. DATE T.D. REACHED: 1/25/81 17. DATE COMPL. (Ready to prod.): 1/20/87 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*: 5243' GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD: 8469' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY: 0-TD ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*: Mesaverde (Neslin) 7226-7236' (2 SPF) 25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, BHC Sonic, DLL-CNL, Cyberlook, Cement Bond Log 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#	150'	17-1/2"	150 SX Class "G"	None
9-5/8"	36#	2809'	12-1/4"	1200 SX	"
4-1/2"	11.6#	8465'	7-7/8"	1500 SX	"

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-3/8"	7150'	None

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

INTERVAL	SPF	TYPE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8320-8330'	2	CIBP @ 8300'	7226-7236'	Frac w/ 75,000# 20/40
7892-7898'	2	CIBP @ 7850'		Mesh Sand and 125 tons CO <sub>2</sub>
7226-7236'	2	SPF		

33.\* PRODUCTION

DATE FIRST PRODUCTION: Shut-in PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): Flowing WELL STATUS (Producing or shut-in): Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1/23/87	24	12/64	→	2 BO	500 MCF	4 BW	250,000

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
1100	1200	→	2 BO	500 MCF	4 BW	50°

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

35. LIST OF ATTACHMENTS

Geological and Well History Reports Previously Submitted by Natural Gas Corp. of CA (NGC)

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

SIGNED: David Peterson TITLE: Engineer DATE: 2-2-87

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

**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.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-31266 <b>SGW</b>																				
2. NAME OF OPERATOR Dirty Devil, L.P.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>051115</b>																				
3. ADDRESS OF OPERATOR (303) 696-2654 10200 E. Girard Ave., Bldg. B, Suite 225 Denver, CO 80231		7. UNIT AGREEMENT NAME Dirty Devil																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface		8. FARM OR LEASE NAME Federal																				
14. PERMIT NO. 43-047-30568	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5243' GR	9. WELL NO. 23-17																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Bonanza																				
<table border="0"> <tr> <td colspan="2">NOTICE OF INTENTION TO:</td> <td colspan="2">SUBSEQUENT REPORT OF:</td> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input checked="" type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> <td>(Other) <input checked="" type="checkbox"/></td> </tr> </table>		NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input checked="" type="checkbox"/>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T9s R24E
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:																				
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>																			
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>																			
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>																			
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input checked="" type="checkbox"/>																			
		12. COUNTY OR PARISH 13. STATE Uintah Utah																				

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 plans to perforate the following intervals in the Mesaverde/Wasatch Formation:

7182-7190 8'  
7080-7122 42'  
50'

Operator plans to stimulate (frac) the above intervals using a cross-linked gel, 20/40 mesh sand media.

**RECEIVED**  
MAY 08 1987

DIVISION OF  
OIL, GAS & MINING

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

SIGNED Edward Johnson TITLE Engineer DATE May 7, 1987

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action  
is required before commencing  
operations.

\*See Instructions on Reverse Side

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE 5-11-87  
BY: John R. Day

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 August 31, 1985

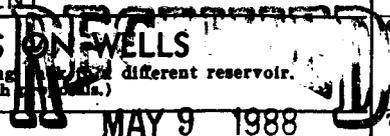
5. LEASE DESIGNATION AND SERIAL NO.

U-31266

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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



1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Dirty Devil L.P. C/O EPS Resources Company

DIVISION OF  
OIL, GAS & MINING

3. ADDRESS OF OPERATOR  
5655 S. Yosemite, Suite 460, Englewood, CO 80111 (303) 721-7920

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

1923' FSL, 2080' FWL NE 1/4 SW 1/4  
Section 17, T9S-R24E, SLM

7. UNIT AGREEMENT NAME

Dirty Devil

8. FARM OR LEASE NAME

Federal

9. WELL NO.

23-17

10. FIELD AND POOL, OR WILDCAT

Bonanza

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 17, T9S, R24E

14. PERMIT NO.  
43-047-30568

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5243' GR

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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(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 plans to change the subsequent report of perforating and stimulating new Mesaverde intervals to establishing production from existing perforations through artificial lifting, (pumping unit).

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

SIGNED

*Edward Peterson*

TITLE

*Petroleum Engineer*

DATE

5-3-88

(This space for Federal or State office use)

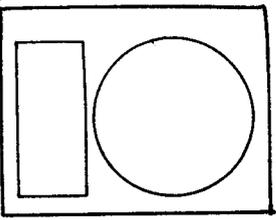
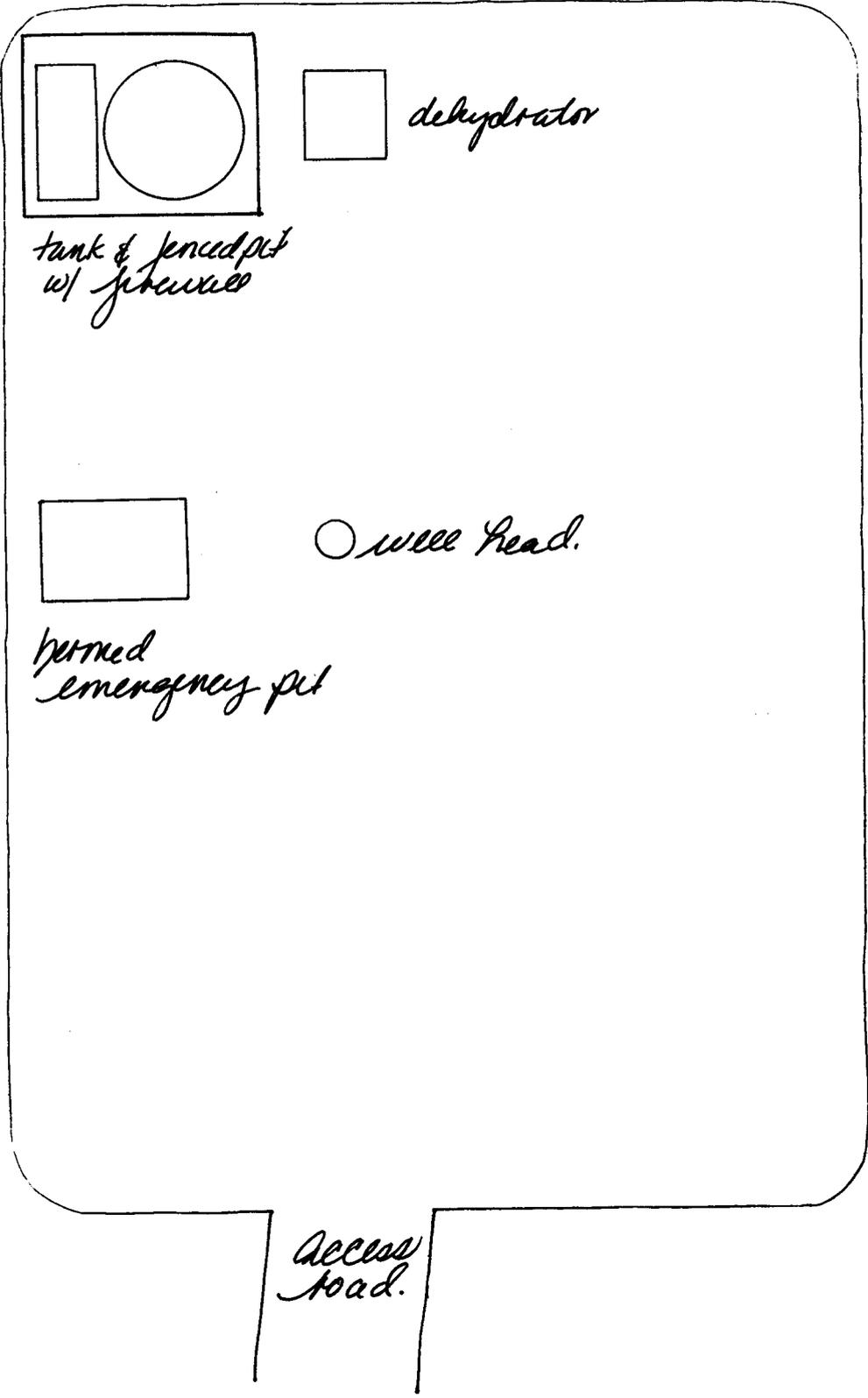
APPROVED BY

TITLE

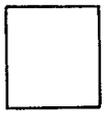
DATE

CONDITIONS OF APPROVAL, IF ANY:

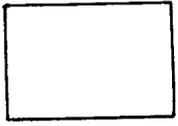
\*See Instructions on Reverse Side



tank & fenced pit  
w/ fence



dehydrator



bermed  
emergency pit

well head.

Access  
Road.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO. 23-17  
1-18 (U-0145459) (U-31266)

SUNDRY NOTICES AND REPORTS OF

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

**RECEIVED**  
OCT 07 1988

1. OIL WELL  GAS WELL  OTHER  Pipeline Connection

2. NAME OF OPERATOR Dirty Devil L.P./EPS Resources Company

3. ADDRESS OF OPERATOR 5655 S. Yosemite Ste: 460 Englewood, Colorado 80111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
1-18 (NW NE, 660' FNL, 1980' FEL Sec. 18, T9S, R24E)  
23-17 (NE SW, 1923' FSL, 2080' FWL, Sec. 17, T9S, R24E)

14. PERMIT NO. 43-047-30568  
15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
1-18 (5115' GR) 23-17 (5243' GR)

INDIAN, ALLOTTEE OR TRIBE NAME

7. WELL AGREEMENT NAME Dirty Devil

8. FARM OR LEASE NAME Federal

9. WELL NO. 1-18 & 23-17

10. FIELD AND POOL, OR WILDCAT Bonanza

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 18 & 17, T9S, R24E

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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(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.)\*

Operator plans to pipeline connect the #1-18 well into the existing unit pipeline system at the #23-17 well. The pipeline will be welded 0.188 inch wall thickness steel pipe and laid upon the surface and pressure tested to 560 psig. The pipeline will follow a route based on access and terrain (see map).

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

SIGNED [Signature] TITLE Engineer DATE 10/3/88

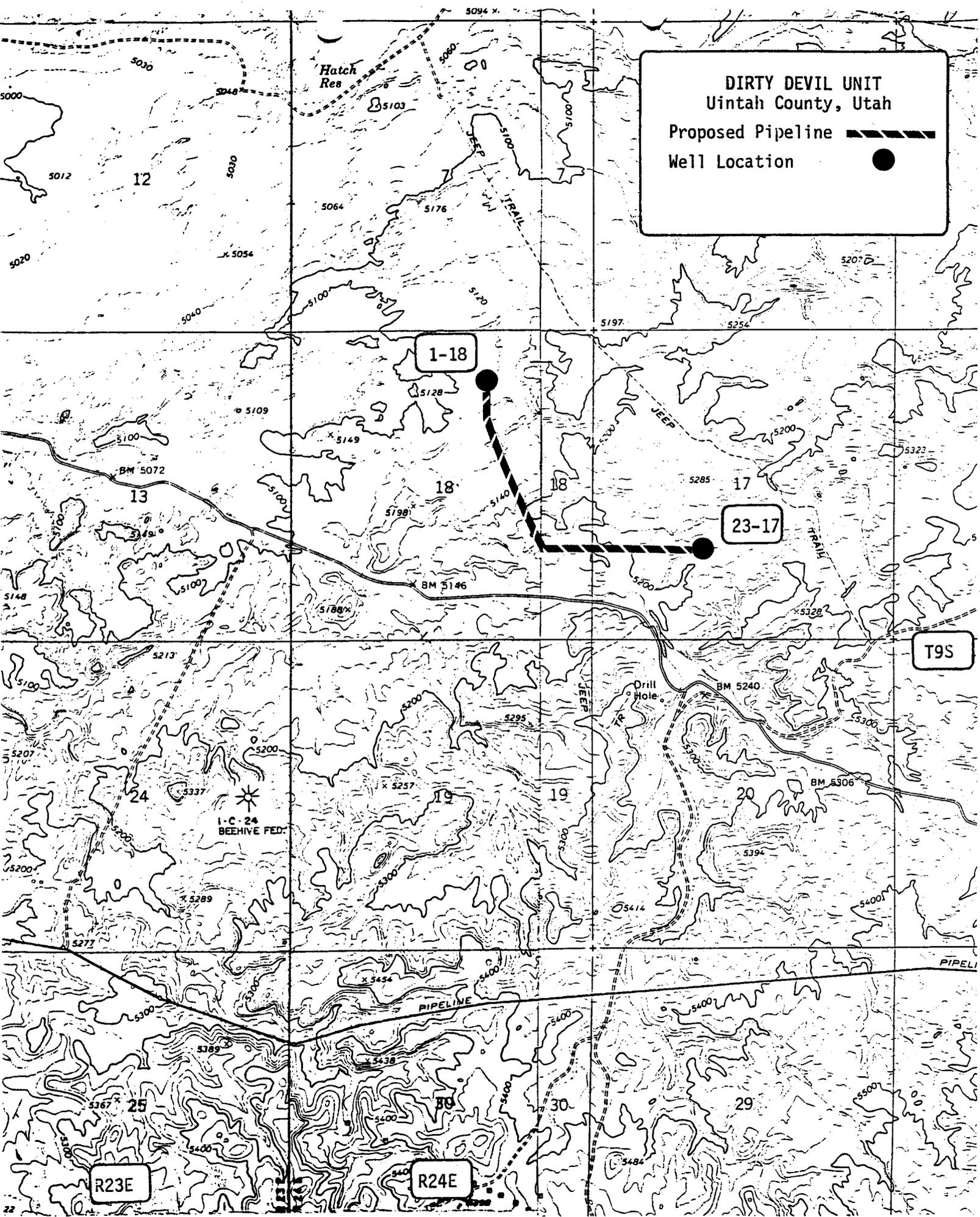
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

**DIRTY DEVIL UNIT**  
Uintah County, Utah  
Proposed Pipeline   
Well Location 



TAS



**EPS Resources Company**

5655 South Yosemite  
Suite 460  
Englewood, CO 80111  
(303) 721-7920

October 6, 1988

**RECEIVED**  
OCT 11 1988

Connie Larsen  
Utah State Tax Commission  
160 East Third South  
Salt Lake City, UT 84134-0550

DIVISION OF  
OIL, GAS & MINING

RE: Dirty Devil Unit  
Uintah County, Utah  
Utah Account No. N5001

Dear Connie:

In reference to our recent conversation, I spoke with Dwain Immel of our office and he informed me that The Dirty Devil, L.P. is the operator of The Dirty Devil Unit located in Uintah County, Utah. EPS Resources Company is the Managing General Partner of The Dirty Devil, L.P. Please let your records show The Dirty Devil, L.P. as operator of the following wells with the corresponding account number N5001.

<u>Well Name</u>	<u>Entity</u>	<u>Location</u>	
<u>API Number</u>			
Devils Playground Fed 23-17 4304730568	23-17 06136	09S 24E 17	SGW
Devils Playground 41-9 4304730339	41-9 06195	09S 24E 9	PBW
Red Wash Fed 1-18 4304730124	1-18 06200	09S 24E 18	PBW
Dirty Devil 22-27 4304731507	22-27 09585	09S 24E 27	PBW
Dirty Devil Unit 11-29 4304731617	11-29 09586	09S 24E 29	SGW
Dirty Devil Unit 31-15A 4304731726	31-15A 10697	09S 24E 15	SGW
Devils Playground Fed 23-20 4304731009	23-20 10698	09S 24E 20	SGW



355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut  
84180-1203. (801-538-5340)

# MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

*eff. 1-1-89*

~~DIRTY DEVIL, L.P.~~ *EPS RESOURCES CORP.*  
5655 S. YOSEMITE, STE 460  
ENGLEWOOD CO 80111  
ATTN: DALE ANNE KESSLER

*N 2025*

Utah Account No. ~~N5001~~  
Report Period (Month/Year) 4 / 89  
Amended Report

Well Name	Producing	Days	Production Volume		
API Number    Entity    Location	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)
<del>DEVILS PLAYGROUND FED 23-17</del>					
4304730568 06136 09S 24E 17	MVRD				
<del>DEVILS PLAYGRND 41-9</del>					
4304730339 06195 09S 24E 9	WSTC				
<del>RED WASH FED 1-18</del>					
4304730124 06200 09S 24E 18	WSTC				
<del>DIRTY DEVIL 22-27</del>					
4304731507 09585 09S 24E 27	WSTC				
<del>DIRTY DEVIL UNIT #11-29</del>					
4304731617 09586 09S 24E 29	MVRD				
<del>DIRTY DEVIL UNIT #31-15A</del>					
4304731726 10697 09S 24E 15	GRRV				
<del>DEVILS PLAYGROUND FED 23-20</del>					
4304731009 10698 09S 24E 20	MVRD				
TOTAL					

Comments (attach separate sheet if necessary) \* 5-26-89 Entities are all single entity wells (ok!) Jcf

I have reviewed this report and certify the information to be accurate and complete. Date \_\_\_\_\_

Authorized signature \_\_\_\_\_ Telephone \_\_\_\_\_



**EPS Resources Corporation**

5655 South Yosemite  
Suite 460  
Englewood, CO 80111  
(303) 721-7920

**RECEIVED**  
MAY 22 1989

May 18, 1989

Bureau of Land Management  
Attn: Mr. Ed Forman  
Vernal District Office  
170 South, 500 East  
Vernal, Utah 84078

DIVISION OF  
OIL, GAS & MINING

*5/24/89 spoke w/ Mr. Neibauer  
at 4:10 p.m. effective date  
is 1-1-89 AS*

RE: Dirty Devil Unit  
Uintah County, Utah

Dear Mr. Forman:

This letter is written notification to change the name of the Operator of the Dirty Devil Unit from the Dirty Devil L.P. to EPS Resources Corporation.

EPS Resources Corporation is the Managing General Partner of the Dirty Devil L.P..

EPS Resources Corporation has provided a letter of credit #244 to the Bureau of Land Management.

Attached is the list of wells EPS Resources Corporation owns and operates in the Dirty Devil Unit.

If you have any questions, please do not hesitate to contact myself or Cindy Senko at (303) 721-7920.

Sincerely,

Edward Neibauer  
President

CS/ntm

Enclosure

cc: State of Utah, Division of Oil, Gas & Mining  
Attn: Mickey Coulthard  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

OIL AND GAS	
DRN	3 ✓
4-JRB ✓	5- GLH ✓
DTC	6- SLS ✓
1-TAS ✓	<del>7- [REDACTED]</del>
2-NCR ✓	
	7- MICROFILM ✓
	8- FILE

✓

Mr. Ed Forman  
Page Two  
May 18, 1989

DIRTY DEVIL UNIT  
UINTAH COUNTY, UTAH

<u>Well Number</u>	<u>Lease No.</u>	<u>Section</u> <u>¼ of ¼</u>	<u>TWP</u>	<u>RNG</u>
23-17	U-31266	NESW Sec. 17	9S	24E
23-20	U-31266	NESW Sec. 20	9S	24E
41-9	U-5217	NENE Sec. 9	9S	24E
1-18	U-0145459	NWNE Sec. 18	9S	24E
22-27	SL-071725-C	SESW Sec. 27	9S	24E
11-29	ML-22161	NWNW Sec. 29	9S	24E
31-15A	ML-28042	NWNE Sec. 15	9S	24E
1-4	U-1207	NENW Sec. 4	10S	24E
1-5	U-1207	NENW Sec. 5	10S	24E
1-8	U-59150	SESW Sec. 8	9S	24E
1-9	U-59089	SWSE Sec. 9	9S	24E

3160  
(U-927)

August 7, 1989



EPS Resources Corp.  
3045 South Yosemite, Suite 450  
Englewood, Colorado 80111

Gentlemen:

Pursuant to your request of July 18, 1989, we have reviewed our paying well determinations of January 12, 1989 (copy enclosed).

As a result of this review we have determined that under existing conditions the following wells are not capable of producing unitized substances in paying quantities as defined by Section 11 of the Dirty Devil Unit Agreement.

<u>Entity #</u>	<u>Well no.</u>	<u>Location</u>	<u>Lease no.</u>
<del>6136</del>	23-17	NE1/4 sec. 17, T. 9 S., R. 24 E.	U-31256 43-047-30568
9586	11-29	NW1/4 sec. 29, T. 9 S., R. 24 E.	State ML-22161 43-047-31617
10697	31-15A	NW1/4 sec. 15, T. 9 S., R. 24 E.	State ML-28042 43-047-31726
10698	23-20	NE1/4 sec. 20, T. 9 S., R. 24 E.	U-31266 43-047-31009

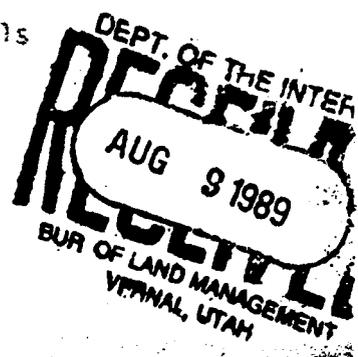
Therefore, our paying well determination dated January 12, 1989, and the approval of the [initial] Wasatch Mesaverde participating Acre "D", dated May 7, 1989 (copy enclosed), are hereby rescinded. Production from these wells shall be handled and reported on a lease basis. Please advise all interested parties with evidence of this determination.

Sincerely,  
**(Orig. Sgd.) R. A. Henricks**

Robert A. Henricks  
Chief, Branch of Fluid Minerals

- 1 Enclosure
- re: determination 1/12/89
- bcc: DH Vernal
- Dirty Devil Unit File
- U-942 w/encl
- RMP-Denver w/encl
- Utah State Land Board w/encl
- Ag. Sec. Chron
- Fluid Chron

\* No Entity changes necessary.  
9-26-89  
JCR



# Valley Operating, Inc.

Office: (303) 355-3242 Fax: (303) 377-9798

745 Gilpin Street  
Denver, Colorado 80218-3633

August 8, 1991

Division of Oil, Gas & Mining  
ATTN: Lisha Romero  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Approved Sundry Notices for wells  
in Uintah County, Utah

Dear Ms. Romero:

As per the regulations please find enclosed the approved Sundry Notices from the Bureau of Land Management for the following wells in which Valley Operating, Inc. has been approved as the new Operator in Uintah County, Utah:

11-29	31-15-A
28-1	1-18
13-1	
22-27	
32-2	
1-9	
41-9	
23-17	
23-20	

Please inform me if we are missing any Sundry Notices that you are aware of.

Sincerely yours,

  
Cindy Senko  
Contract Landman

cs

Enclosures

RECEIVED

AUG 12 1991

DIVISION OF  
OIL GAS & MINING

3160-5  
November 1983)  
formerly 9-331)

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 August 31, 1985  
LEASE DESIGNATION AND SERIAL NO.

UTU-31266

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.)

OIL WELL  GAS WELL  OTHER

NAME OF OPERATOR

Valley Operating, Inc.

ADDRESS OF OPERATOR

745 Gilpin Street, Denver, Colorado 80218-3633

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

T9S-R24E, Sec. 17: NESW 23-17 Well  
T9S-R24E, Sec. 20: NESW 23-20 Well

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Dirty Devil Unit

8. FARM OR LEASE NAME

9. WELL NO.

23-17 & 23-20

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

T9S-R24E, Sec. 17 & 20

12. COUNTY OR PARISH | 13. STATE

Uintah

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Change of Operator

PLUG OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

7. 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.)

Valley Operating, Inc., is submitting this Sundry Notice to effect the change of Operator from EPS Resources Corporation to Valley Operating, Inc.

Valley Operating, Inc., as Operator is covered under Statewide Utah Oil and Gas Bond No. UT0832.

Effective 3/8/91.

RECEIVED

AUG 12 1991

DIVISION OF  
OIL GAS & MINING

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

SIGNED

F. Lee Robinson

TITLE Vice-President

DATE 4-8-91

(This space for Federal or State office use)

APPROVED BY

TITLE

ASSISTANT DISTRICT  
MANAGER MINING

DATE JUN 12 1991

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

any person knowingly and willfully to make to any department or agency of the

1- LCR	<input checked="" type="checkbox"/>
2- DTS	<input checked="" type="checkbox"/>
3- VLC	<input checked="" type="checkbox"/>
4- RJF	<input checked="" type="checkbox"/>
5- RWM	<input checked="" type="checkbox"/>
6- LCB	<input checked="" type="checkbox"/>

Attach all documentation received by the division regarding this change.  
Initial each listed item when completed. Write N/A if item is not applicable.

- 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: 3-8-91)

TO (new operator)	<u>VALLEY OPERATING, INC.</u>	FROM (former operator)	<u>EPS RESOURCES CORP.</u>
(address)	<u>745 GILPIN STREET</u>	(address)	<u>5655 S. YOSEMITE, #460</u>
	<u>DENVER, CO 80218-3633</u>		<u>ENGLEWOOD, CO 80111</u>
	<u>CINDY SENKO/LANDMAN</u>		<u>DALE ANN KESLER</u>
phone ( 303 )	<u>355-3242</u>	phone ( 303 )	<u>721-7920</u>
account no.	<u>N8270</u>	account no.	<u>N 2025</u>

Well(s) (attach additional page if needed):

Name: <u>DEVILS PLAYGRND 23-17/MV</u>	API: <u>43-047-30568</u>	Entity: <u>6136</u>	Sec <u>17</u> Twp <u>9S</u> Rng <u>24E</u>	Lease Type: <u>J-31266</u>
Name: <u>DEVILS PLAYGRND 23-20/MV</u>	API: <u>43-047-31009</u>	Entity: <u>10698</u>	Sec <u>20</u> Twp <u>9S</u> Rng <u>24E</u>	Lease Type: <u>J-31266</u>
Name: <u>DIRTY DEVIL U 31-15A/GRR</u>	API: <u>43-047-31726</u>	Entity: <u>10697</u>	Sec <u>15</u> Twp <u>9S</u> Rng <u>24E</u>	Lease Type: <u>ML-28042</u>
Name: <u>RED WASH FED 1-18/WSTC</u>	API: <u>43-047-30124</u>	Entity: <u>6200</u>	Sec <u>18</u> Twp <u>9S</u> Rng <u>24E</u>	Lease Type: <u>J-014545</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

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). (*Unable to get documentation*).
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (*Rec'd 8-12-91*)
- See 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: #150678.
- See 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.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (*8-21-91*)
6. Cardex file has been updated for each well listed above.
- See 7. Well file labels have been updated for each well listed above.
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- See 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.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

OPERATOR VERIFICATION (Fee wells only)

- 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

- 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.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

MICROFILMING

- 1. All attachments to this form have been microfilmed. Date: Sept 6 1991.

INDEXING

- 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.

REMARKS

910815 Btm/Vernal Approved, effective dates 6-3-91 and 6-12-91. (see individual well sundry)

Routing
1- LCK ✓
2- <del>DFS</del> ✓
3- VLC ✓
4- RJF ✓
5- RWM ✓
6- LCK ✓

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- 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: 3/8/91)

TO (new operator)	<u>VALLEY OPERATING, INC.</u>	FROM (former operator)	<u>EPS RESOURCES CORP.</u>
(address)	<u>745 GILPIN STREET</u>	(address)	<u>5655 S. YOSEMITE, #460</u>
	<u>DENVER, CO 80218-3633</u>		<u>ENGLEWOOD, CO 80111</u>
	<u>CINDY SENKO/LANDMAN</u>		<u>DALE ANN KESLER</u>
	<u>phone (303 ) 355-3242</u>		<u>phone (303 ) 721-7920</u>
	<u>account no. N 8270</u>		<u>account no. N2025</u>

Well(s) (attach additional page if needed):

Name: <u>DIRTY DEVIL U #11-29/MV</u>	API: <u>43-047-31617</u>	Entity: <u>9586</u>	Sec <u>29</u> Twp <u>9S</u> Rng <u>24E</u>	Lease Type: <u>ML-2216</u>
Name: <u>COYOTE BASIN 28-1/GRRV</u>	API: <u>43-047-30098</u>	Entity: <u>10095</u>	Sec <u>28</u> Twp <u>8S</u> Rng <u>25E</u>	Lease Type: <u>U-01625</u>
Name: <u>FEDERAL #13-1/UNTA</u>	API: <u>43-047-31811</u>	Entity: <u>10796</u>	Sec <u>13</u> Twp <u>8S</u> Rng <u>23E</u>	Lease Type: <u>U-61396</u>
Name: <u>DIRTY DEVIL U 22-27/WST</u>	API: <u>43-047-31507</u>	Entity: <u>9585</u>	Sec <u>27</u> Twp <u>9S</u> Rng <u>24E</u>	Lease Type: <u>SL71725</u>
Name: <u>CONOCO ST 32-2/DGCRK</u>	API: <u>43-047-30100</u>	Entity: <u>10096</u>	Sec <u>32</u> Twp <u>8S</u> Rng <u>25E</u>	Lease Type: <u>ML-1124</u>
Name: <u>FEDERAL 1-9/DRL</u>	API: <u>43-047-31852</u>	Entity: <u>11199</u>	Sec <u>9</u> Twp <u>9S</u> Rng <u>24E</u>	Lease Type: <u>U-5217</u>
Name: <u>DEVILS PLAYGRND 41-9/WS</u>	API: <u>43-047-30339</u>	Entity: <u>6195</u>	Sec <u>9</u> Twp <u>9S</u> Rng <u>24E</u>	Lease Type: <u>U-5217</u>

**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). (*Unable to get documentation*)
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (*Rec'd 8-12-91*)
- See 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: #150678.
- See 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.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (*8-21-91*)
- See 6. Cardex file has been updated for each well listed above. (*8-21-91*)
- See 7. Well file labels have been updated for each well listed above.
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- See 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.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 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

- 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.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.   
 *9-3-91 to - Ed Bonner*

MICROFILMING

- 1. All attachments to this form have been microfilmed. Date: Sept 6 1991.

FILED

- 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.

REMARKS

910815 Btm/Vernal Approved, effective dates 6-3-91 and 6-12-91. (see individual well sundry)

*Leisha*



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:

3162.3  
UT08438

October 23, 1995

Gerrity Oil & Gas Corporation  
Attn: Terry L. Ruby  
4100 E Mississippi Ave, #1200  
Denver, CO 80222

Re: Dirty Devil Federal 23-17  
NESW, Sec. 17, T9S, R24E  
Lease U-31266  
Uintah County, Utah

Dear Mr. Ruby:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Gerrity Oil & Gas Corporation is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. UT1014, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (801) 789-1362.

Sincerely,

Jerry Kenczka  
Assistant District Manager for  
Minerals Resources

cc: Thermo Cogeneration  
~~Div. Oil, Gas & Mining~~

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1-LEC	7-PL
2-LWP	8-SJ
3-DTS	9-FILE
4-VLC	
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.

- 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: 10-23-95 (BLM APRV DATE))

TO (new operator)	<u>GERRITY OIL &amp; GAS CORP</u>	FROM (former operator)	<u>VALLEY OPERATING INC</u>
(address)	<u>4100 E MISSISSIPPI #1200</u>	(address)	<u>745 GILPIN ST</u>
	<u>DENVER CO 80222</u>		<u>DENVER CO 80218-3633</u>
	<u>TERRY RUBY</u>		<u>LEE ROBINSON</u>
	phone (303) <u>757-1110</u>		phone (303) <u>289-7720</u>
	account no. <u>N 6355</u>		account no. <u>N 8270</u>

Well(s) (attach additional page if needed):

Name: <u>DEVILS PLAYGROUND 23-17</u>	API: <u>43-047-30568</u>	Entity: <u>6136</u>	Sec <u>17</u>	Twp <u>9S</u>	Rng <u>24E</u>	Lease Type: <u>U31266</u>
Name: <u>DEVILS PLAYGROUND 23-20</u>	API: <u>43-047-31009</u>	Entity: <u>10698</u>	Sec <u>20</u>	Twp <u>9S</u>	Rng <u>24E</u>	Lease Type: <u>U31266</u>
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Lee 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 10-16-95)*
- Lee 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 10-16-95)*
- 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: \_\_\_\_\_.
- Lee 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.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(10-27-95)*
- LWP 6. Cardex file has been updated for each well listed above. *11-16-95*
- LWP 7. Well file labels have been updated for each well listed above. *11-16-95*
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(10-27-95)*
- Lee 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.

**ENTITY REVIEW**

- Sec* 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* *Fee* 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.  
*1/14/95*  
*OTS*
- 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: 11-27 1995.

**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**

950831 BLM/Vernal "Denied 8-15-95"

951027 BLM/Vernal Aprv. 10-23-95.

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

JENNIFER CARTER  
 GERRITY OIL & GAS CORP  
 4100 E MISSISSIPPI #1200  
 DENVER CO 80222

UTAH ACCOUNT NUMBER: N6355

REPORT PERIOD (MONTH/YEAR): 6 / 96

AMENDED REPORT  (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entry	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ 4304730568	06136	09S 24E 17	MVRD			431266		
✓ 4304730339	06195	09S 24E 9	WSTC			45217	Dirty Devil Unit	
✓ 4304730124	06200	09S 24E 18	WSTC			40145459	"	
✓ 4304731507	09585	09S 24E 27	WSTC			560717250	"	
✓ 4304731617	09586	09S 24E 29	MVRD			422161		
✓ 4304730098	10095	08S 25E 28	GRRV			4016257		
✓ 4304730100	10096	08S 25E 32	DGCRK			4211124		
✓ 4304731726	10697	09S 24E 15	WSMVD			428042		
✓ 4304731009	10698	09S 24E 20	WSTC			431266		
✓ 4304731811	10796	08S 23E 13	UNTA			461396		
✓ 4304731897	11223	11S 24E 21	WSTC			454224		
✓ 4304732452	11609	10S 24E 29	WSTC			466421	Antelope Unit	
✓ 4304732680	11609	10S 24E 20	WSTC			466420	Antelope Unit	
Federal 14-10 4304732680	11478	9S 24E 10	GRRV		<b>TOTALS</b>	459149	WDW/Antelope Unit	

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

**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

July 25, 1996

Ron Firth  
Utah Division of Oil, Gas, & Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: CHANGE OF OPERATOR SUNDRY NOTICES  
UINTAH COUNTY, UTAH

Dear Ron:

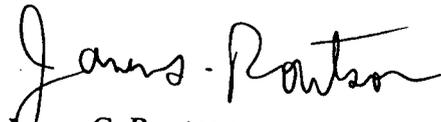
Enclosed in triplicate are Sundry Notices for two wells on State Lands for which Lone Mountain Production Company has assumed operations effective July 22, 1996. Also enclosed for your information are Sundry Notices for twelve wells on BLM lands we are also now operating.

Please contact Joe Dyk in our Grand Junction office in regard to field operations. Day to day operations of these wells will be handled by Dick White, who will be based in Rangely, Colorado. We will furnish you with his phone and cell phone numbers when he is moved to Rangely.

If any further information is needed please advise.

Sincerely,

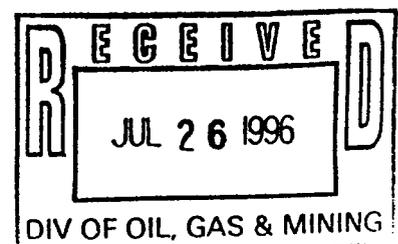
Lone Mountain Production Company



James G. Routson  
President

Enclosures

xc: Joe Dyk



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

5. Lease Designation and Serial No.  
**U-31266**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

8. Well Name and No.

**Dirty Devil Fed. #23-17**

9. API Well No.

**43-047-305668-30568**

2. Name of Operator

**Lone Mountain Production Co.**

10. Field and Pool, or Exploratory Area

**Wildcat**

3. Address and Telephone No.

**P. O. Bo 3394 Billings, MT 59103**

11. County or Parish, State

**Uintah Co., Utah**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**1923' FSL & 2080' FWL Sec. 17-T9S-R24E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>Change of Operator</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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 Dirty Devil Federal #23-17, NESW Section 17, Township 9 South, Range 24 East, Uintah County, Utah; and is 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.

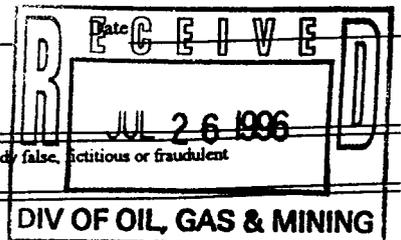
14. I hereby certify that the foregoing is true and correct  
Signed James G. Routson Title Lone Mountain Production Co. President Date 7/22/96

14. I hereby certify that the foregoing is true and correct  
Signed Terry L. Ruby Title Gerrity Oil & Gas Corporation Vice President Date 7/22/96

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any: \_\_\_\_\_

Title \_\_\_\_\_



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.

\*See Instructions on Reverse Side



# United States Department of the Interior

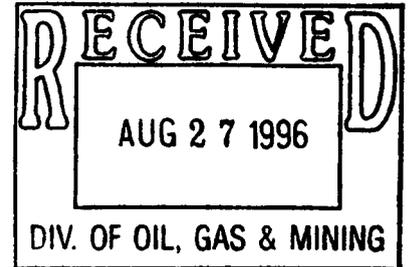
## BUREAU OF LAND MANAGEMENT

Vernal District Office  
170 South 500 East  
Vernal, Utah 84078-2799

Phone: (801) 781-4400  
Fax: (801) 781-4410

IN REPLY REFER TO:  
3162.3  
UT08300

August 22, 1996



Lone Mountain Production  
Attn: James E. Routson  
P O Box 3394  
Billings, MT 59013

Re: Well No. Dirty Devil Fed. 23-17  
NESW, Sec. 17, T9S, R24E  
Lease U-31266  
Uintah County, Utah

Dear Mr. Routson:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Lone Mountain Production is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. UT0719, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (801) 789-1362.

Sincerely,

  
Howard B. Cleavinger II  
Assistant Field Manager,  
Minerals Resources

cc: Gerrity Oil & Gas Corporation  
Division of Oil, Gas & Mining  
Thermo Cogeneration

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JUL 26 1996

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**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

**Lone Mountain Production Co.**

3. Address and Telephone No.

**P. O. Bo 3394 Billings, MT 59103**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**1923' FSL & 2080' FWL Sec. 17-T9S-R24E**

5. Lease Designation and Serial No.

**U-31266**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**Dirty Devil Fed. #23-17**

9. API Well No.

**43-047-305668**

10. Field and Pool, or Exploratory Area

**Wildcat**

11. County or Parish, State

**Uintah Co., Utah**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

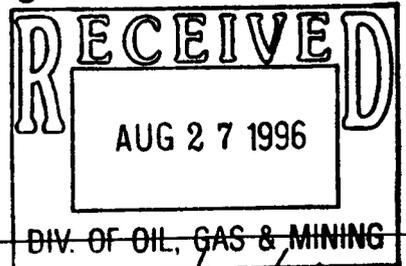
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>Change of Operator</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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 Dirty Devil Federal #23-17, NESW Section 17, Township 9 South, Range 24 East, Uintah County, Utah; and is 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 G. Routson

**Lone Mountain Production Co.**  
Title **President**

Date 7/22/96

14. I hereby certify that the foregoing is true and correct.  
Signed Terry L. Ruby

**Gerrity Oil & Gas Corporation**  
Title **Vice President**

Date 7/22/96

(This space for Federal or State office use)

Approved by [Signature]  
Conditions of approval, if any:

**ACTING** Assistant Field Manager  
Title **Mineral Resources**

Date AUG 22 1996

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.

\*See Instructions on Reverse Side

**OPERATOR CHANGE WORKSHEET**

Routing:	
1-LEC ✓	6-LEG ✓
2-GLH ✓	7-KDR ✓
3-DPS ✓	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.

- 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: 7-22-96

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:

*Name: <u>DEVILS PLAYGROUND 23-17</u>	API: <u>43-047-30568</u>	Entity: <u>6136</u>	S <u>17</u>	T <u>9S</u>	R <u>24E</u>	Lease: <u>U31266</u>
Name: <u>COYOTE BASIN 28-1</u>	API: <u>43-047-30098</u>	Entity: <u>10095</u>	S <u>28</u>	T <u>8S</u>	R <u>25E</u>	Lease: <u>U016257</u>
Name: <u>DIRTY DEVIL FED 23-20</u>	API: <u>43-047-31009</u>	Entity: <u>10698</u>	S <u>20</u>	T <u>9S</u>	R <u>24E</u>	Lease: <u>U31266</u>
Name: <u>FEDERAL 13-1</u>	API: <u>43-047-31811</u>	Entity: <u>10796</u>	S <u>13</u>	T <u>8S</u>	R <u>23E</u>	Lease: <u>U61396</u>
Name: <u>END OF THE RAINBOW 21-1</u>	API: <u>43-047-31897</u>	Entity: <u>11223</u>	S <u>21</u>	T <u>11S</u>	R <u>24E</u>	Lease: <u>U54224</u>
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

**OPERATOR CHANGE DOCUMENTATION**

- LEC 1. (r649-8-10) Sundry or other legal documentation has been received from the FORMER operator (attach to this form). (Rec'd 7-26-96)
- LEC 2. (r649-8-10) Sundry or other legal documentation has been received from the NEW operator (Attach to this form). (Rec'd 7-26-96)
- 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. (8-29-96)
- LEC 6. Cardex file has been updated for each well listed above. (8-29-96)
- LEC 7. Well file labels have been updated for each well listed above. (8-29-96)
- 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.
- 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. (8-29-96)

**ENTITY REVIEW**

- Yes 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) 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)**

- N/A  
Yes 1. (r649-3-1) 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 operator's bond files.
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  
DC  
9/4/96 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.

**FILMING**

- KDP 1. All attachments to this form have been microfilmed. Today's date: 9/18/96.

**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**

960829 B/Lon/Vernal Aprv. 8-22-96.

**LONE MOUNTAIN PRODUCTION COMPANY**

Mailing Address:  
P.O. Box 80965  
Billings, MT 59108-0965

(406) 245-5077  
FAX 248-6321

Shipping Address:  
1911 King Avenue West  
Billings, MT 59102

December 23, 2002

**RECEIVED**

State of Utah  
Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

DIV. OF OIL, GAS & MINING

Attn: Jim Thompson

RE: RESIGNATION OF OPERATOR  
VARIOUS WELLS  
UINTAH COUNTY, UTAH

Dear Jim:

Please be advised Lone Mountain Production Company resigns as Operator of the following wells in Uintah County, Utah, effective December 1, 2002.

Federal #41-9 ✓	43-047-30339	NE NE Section 9: T9S-R24E
State #31-15A	43-047-31726	NW NE Section 15: T9S-R24E
Federal #23-17 ✓	43-047-30568	NE SW Section 17: T9S-R24E
Federal #1-18 ✓	43-047-30124	NW NE Section 18: T9S-R24E
Federal #23-20 ✓	43-047-31009	NE SW Section 20: T9S-R24E
State #11-29	43-047-31617	NW NW Section 29: T9S-R24E

All future correspondence should be directed to Byron R. Woodard, Dark Horse Exploration, Inc., P. O. Box 2153, Evanston, Wyoming 82931-2153. His phone number is (307) 789-1052.

Should you have any questions or need further information, please contact our office at (406) 245-5077.

Sincerely,

LONE MOUNTAIN PRODUCTION COMPANY



Carolyn (George) Farmer  
Land Department

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-31266**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. IF UNIT OR CA, AGREEMENT DESIGNATION

8. WELL NAME and No.  
**Federal No. 23-17**

9. API WELL NO.  
**43-047-30568**

10. Field and Pool, or Exploratory Area  
**Bonanza**

11. County or Parish, State  
**Uintah County, Utah**

**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**

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
**Dark Horse Exploration, Inc.**

3. ADDRESS OF OPERATOR  
**P. O. Box 2153, Evanston, Wyoming 82931-2153**

4. LOCATION OF WELL (Footage, Sec. T., R., M., or Survey Description)  
**1923' FSL, 2080' FWL Section 17-T9S-R24E  
(NESW)**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> New Construction
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Non-Routine Fracturing	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Altering Casing	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>	<input type="checkbox"/> 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.)\*

**Dark Horse Exploration, Inc. has assumed operation of the above referenced well, effective December 1, 2002. The former operator was Lone Mountain Production Company.**

**Bond coverage is provided by Dark Horse Exploration's well bond # 0006**

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

Signed: Byron R. Woodard Title: **President**  
Byron R. Woodard

Date: 12-15-02

(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

RECEIVED

APR 28 2003

DIV. OF OIL, GAS & MINING

6/30/05



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, Utah 84078-2799

<http://www.blm.gov/utah/vernal>

Phone: (435) 781-4400

Fax: (435) 781-4410

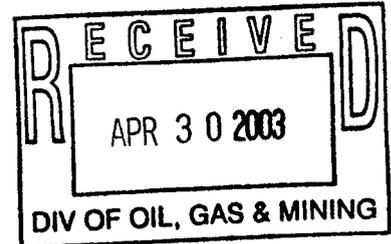
IN REPLY REFER TO:

3162.3

UT08300

April 14, 2003

Byron R. Woodard  
Dark Horse Exploration, Inc.  
P. O. Box 2153  
Evanston, Wyoming 82931-2153



Re: Wells: Federal 41-9 ✓  
NENE, Sec. 9, T9S, R24E  
Uintah County, Utah  
Lease No. U-5217

Red Wash Fed. 1-18 ✓  
NWNE, Sec. 18, T9S, R24E  
Uintah County, Utah  
Lease No. U-0145459

Federal 23-17 ✓  
NESW, Sec. 17, T9S, R24E  
Uintah County, Utah  
Lease No. U-31266

Federal 23-20 ✓  
NESW, Sec. 20, T9S, R24E  
Uintah County, Utah  
Lease No. U-31266

Dear Mr. Woodard:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced wells. After a review by this office, the change in operator request is approved. Effective immediately, Dark Horse Exploration, Inc. is responsible for all operations performed on the referenced wells. All liability will now fall under your bond, BLM Bond No. UTB000013, for all operations conducted on the referenced wells on the leased land.

If you have any other questions concerning this matter, please contact Leslie Walker of this office at (435) 781-4497.

Sincerely

Kirk Fleetwood  
Petroleum Engineer

cc: UDOGM – Jim Thompson



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 4/14/2003 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: N/A

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 7/31/2003

2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 7/31/2003

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: UTB000013

**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:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**UTU-31266**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
**Dirty Devil No. 23-17**

9. API NUMBER:  
**4304730568**

10. FIELD AND POOL, OR WILDCAT:

**SUNDRY NOTICES AND REPORTS ON WELLS**

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.

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
**Thurston Energy Operating Company, LLC**

3. ADDRESS OF OPERATOR:  
PO Box 240 CITY **Vernal** STATE **UT** ZIP **84078** PHONE NUMBER **(435) 789-2653**

4. LOCATION OF WELL

FOOTAGES AT SURFACE: COUNTY: **Uintah**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SWNE 17 9S 24E** STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

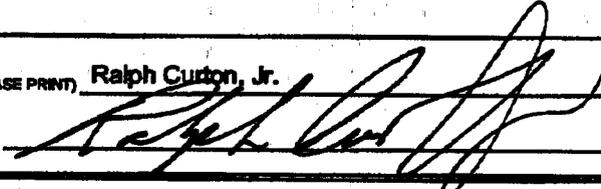
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please be advised that Thurston Energy, LLC has named Thurston Energy Operating Company, LLC as operator of record to replace Dark Horse Exploration, Inc. and that Thurston Energy Operating Company, LLC are considered to be operator of the well effective June 15, 2005; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

Bond coverage is provided by Thurston Energy Operating Company's statewide oil and gas bond #UTB-000181.

NAME (PLEASE PRINT) Ralph Curton, Jr. TITLE President

SIGNATURE  DATE 6/14/2005

(This space for State use only)

(5/2000)

(See instructions on Reverse Side)

RECEIVED  
JUN 14 2005  
DIV. OF OIL, GAS & MINING

# THURSTON ENERGY OPERATING COMPANY, LLC

## SELF-CERTIFICATION STATEMENT

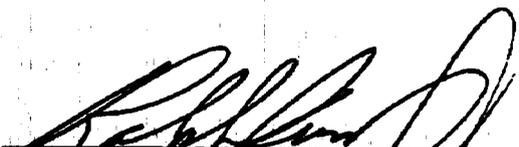
The following self-certification statement is provided per Federal requirements dated June 15, 1988.

Please be advised that Thurston Energy, LLC has named Thurston Energy Operating Company, LLC as operator of record to replace Dark Horse Exploration, Inc. and that Thurston Energy Operating Company, LLC are considered to be the operator of the following well effective June 15, 2005.

Dirty Devil No. 23-17  
SW ¼, NE ¼, Section 17, T9S, R24E  
Lease UTU-31266  
Uintah County, Utah

Thurston Energy Operating Company, LLC is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage is provided by Thurston Energy Operating Company's statewide oil and gas bond. Due to computer problems at the State BLM Office, a bond number has not been assigned to the operator. A bond is in place and can be confirmed by the attached approval statement or by contacting the State Office.



Ralph Curton  
President  
Thurston Energy Operating Company, LLC  
PO Box 240  
Vernal, UT 84078  
(214) 704-3896 Cell  
(214) 849-5501 Fax  
rcurton@att.net

PO BOX 240  
VERNAL, UT 84078

RECEIVED

JUN 14 2005

DEPT. OF OIL, GAS & MINING

Dear Arleen Russell

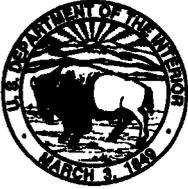
Dark Horse Exploration is the Lease holder for 31-15A and 11-29 located south of Vernal Utah. We do not agree to change Operator ship to anyone.

As for are Federal leases 1-18, 23-17, 23-20, and 41-9 located south of Vernal Utah. We do not agree to change operator ship to anyone.

Thank you,  
Byron R Woodard  
CEO  
Dark Horse Exploration Inc.

RECEIVED

JUN 14 2005



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, UT 84078

(435) 781-4400 Fax: (435) 781-4410

<http://www.blm.gov/utah/vernal>



IN REPLY REFER TO:

3162.3

UT08300

July 25, 2005

RECEIVED

JUL 26 2005

Ralph Curton  
Thurston Energy Operating Co., LLC  
P. O. Box 240  
Vernal, Utah 84078

DIV. OF OIL, GAS & MINING

Re: Wells: Federal 41-9  
NENE, Sec. 9, T9S, R24E  
Uintah County, Utah  
Lease No. U-5217

Red Wash Fed. 1-18  
NWNE, Sec. 18, T9S, R24E  
Uintah County, Utah  
Lease No. U-0145459

Federal 23-17  
NESW, Sec. 17, T9S, R24E  
Uintah County, Utah  
Lease No. U-31266

Federal 23-20  
NESW, Sec. 20, T9S, R24E  
Uintah County, Utah  
Lease No. U-31266

Dear Mr. Curton:

This correspondence is in regard to the sundry notice dated June 8, 2005 requesting a change in operator for the referenced wells. As you are well aware, the right to operate the referenced wells is a matter that is being disputed between Thurston Energy Operating Company, LLC (Thurston) and Dark Horse Exploration Inc. (Dark Horse). On June 24, 2005 this office received a letter from Dark Horse stating that they were opposed to the operator change. After a review by this office, it has been determined that the leases are owned equally by Thurston and Dark Horse.

In Harrison, Thomas D. 150 IBLA 001 (1999) the Interior Board of Land Appeals ruled that

"It is the Authorized Officers responsibility "to approve, inspect and regulate" onshore oil and gas operations with a view to "maximum ultimate recovery of oil and gas ..." 43 CFR 3161.2. When, as here, ownership of the lease is equally held, BLM has discretion to choose an operator that it deems best able to conduct operations in conformance with this policy".

After a review of the current conditions and statuses of the wells, and the status of OGRE reports submitted to the Minerals Management Service, the Authorized Officer has determined that a change of operator from Dark Horse to Thurston would best meet the objectives outlined in 43 CFR 3161.2

Effective immediately, Thurston Energy Operating Company, LLC is responsible for all operations performed on the referenced wells. All liability, will now fall under your bond, BLM Bond No. UTB000181, for all operations conducted on the referenced wells on the leased land.

Our records show that a right-of-way, UTU-71248 has been issued for the off lease portion of the pipeline to the subject well. Thurston Energy Operating Company, LLC to obtain the Bureau

of Land Management's approval for the use of this right-of-way, you must have this right-of-way assigned over to Thurston Energy Operating Company, LLC. Please contact Cindy McKee at 435-781-4434 for instructions on how to complete the assignment of the right-of-way.

If you have any other questions concerning this matter, please contact Kirk Fleetwood of this office at (435) 781-4486.

Sincerely,

A handwritten signature in black ink, appearing to read "Howard B. Cleavinger II". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Howard B. Cleavinger II  
AFM Mineral Resources

cc: UDOGM  
Dark Horse Exploration Inc.



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 7/25/2005 BIA n/a

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 7/25/2005

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: n/a

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 7/29/2005

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/29/2005

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

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000181

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: n/a

**FEE & STATE 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: \_\_\_\_\_

**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:**

BLM approved operator change per rule 43 CFR 3161.2 "After a review by this office, it has been determined that the leases are owned equally by Thurston and Dark Horse. When, as here, **ownership of the lease is equally held**, BLM has discretion to choose an operator that it deems best able to conduct operations in conformance with this policy."

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 reenter a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.  
UTU-31266

6. If Indian, Allottee or Tribe Name  
na

7. If Unit or CA, Agreement Designation  
na

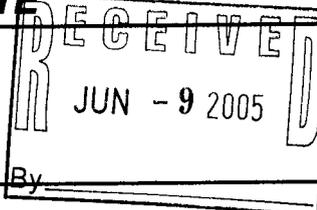
8. Well Name and No.  
Dirty Devil No. 23-17

9. API Well No.  
43-047-30568

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
Uintah Utah

**SUBMIT IN TRIPLICATE**



1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
Thurston Energy Operating Company, LLC

3. Address and Telephone No.  
PO Box 240, Vernal, UT 84078; (435) 789-2653

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
T9S, R24E S.L.M.  
Section 17: SW 1/4, NE 1/4

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of operator</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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 Thurston Energy Operating Company, LLC is assuming operations of the Dirty Devil #23-17, SWNE Section 17, Township 9 South, Range 24 East, Uintah County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

Bond coverage is provided by Thurston Energy Operating Company's statewide oil and gas bond. Due to computer problems at the State BLM Office, a bond number has not been assigned to the operator. A bond is in place and can be confirmed by the attached approval statement or by contacting the State Office. State wide Bond # UTB-000181

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

Signed [Signature] Title President Date 6/8/2005

(This space for Federal or State office use)  
Approved by [Signature] Title Petroleum Engineer Date 7/25/05

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 matter within its jurisdiction.

\*See Instructions on Reverse Side

RECEIVED  
AUG 11 2005

UDOGM

DIV. OF OIL, GAS & MINING

# THURSTON ENERGY OPERATING COMPANY, LLC

## SELF-CERTIFICATION STATEMENT

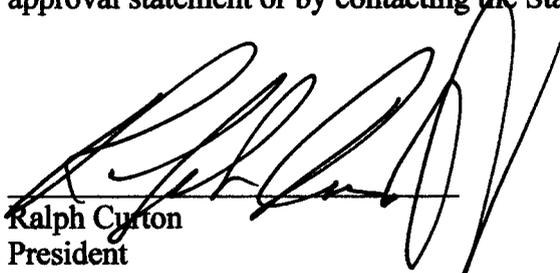
The following self-certification statement is provided per Federal requirements dated June 15, 1988.

Please be advised that Thurston Energy Operating Company, LLC are considered to be the operator of the following well.

Dirty Devil No. 23-17  
SW ¼, NE ¼, Section 17, T9S, R24E  
Lease UTU-31266  
Uintah County, Utah

Thurston Energy Operating Company, LLC is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage is provided by Thurston Energy Operating Company's statewide oil and gas bond. Due to computer problems at the State BLM Office, a bond number has not been assigned to the operator. A bond is in place and can be confirmed by the attached approval statement or by contacting the State Office. State wide Bond # UTB-000181

  
Ralph Curton  
President

Thurston Energy Operating Company, LLC  
PO Box 240  
Vernal, UT 84078  
(214) 704-3896 Cell  
(214) 849-5501 Fax  
rcurton@att.net



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:

3104  
(U-922)

DECISION

Obligors:

Thurston Energy, LLC  
Thurston Energy Operating Company, LLC  
Co-Principal  
2700 Patriot Boulevard, Suite 150  
Glenview, IL 60026

Bond Amount: \$25,000  
Bond Type: Statewide Oil and Gas  
BLM Bond No.: Separate Cover

Financial Institution:

Zions First National Bank  
3 West Main  
Vernal, Utah 84078

Statewide Oil and Gas Personnel Bond and  
Certificate of Deposit Accepted

On May 23, 2005, our office received executed Bond Form 3000-4 together with a Time Deposit Account, Receipt No. 0269434502, in the amount of \$25,000 to secure a statewide oil and gas bond for the above obligors.

The Time Deposit will be retained by the Bureau of Land Management (BLM) and will automatically renew annually until all the terms and conditions of your Federal leases have been fulfilled or until a satisfactory replacement bond is accepted by BLM.

The bond will be maintained by this office. The bond constitutes coverage of all operations conducted by or on behalf of the obligor on Federal leases in the State of Utah. The bond provides coverage to the obligor where that obligor has interest in, and/or responsibility for operations on leases issued under the authority of any of the Acts cited on the bond form. Please note that Federal leases do not include Indian leases.

If you have any questions, please contact Connie Seare at (801) 539-4111.

Terry L. Catlin  
Acting Chief, Branch of Fluid Minerals



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

April 6, 2010

Certified Mail No.: 7004 1160 0003 0190 3959

Mr. Tom S. Salk  
Thurston Energy Operating  
4925 Greenville Avenue, Suite 900  
Dallas, TX 75206

43 047 30568  
Devils Playground 23-17  
95 24E 17

Subject: Royalty Owner Complaint

Dear Mr. Salk:

As you are well aware, Mr. Garr Roberts filed a complaint with the Utah Division of Oil, Gas and Mining (the Division) on February 16, 2010, against Thurston Energy Operating (Thurston) for royalty payments he is due for production from the Red Wash 1-18, Devils Playground 41-9, Devils Playground 23-17, Dirty Devil Federal 23-20 and Dirty Devil Unit wells for the years 2005 and 2006.

A search of Division records verified Thurston reported production and sales for these wells for the subject time period.

I spoke with you regarding this matter on February 22, 2010. At your request, I sent you an e-mail detailing the complaint that also included a contact number for Mr. Roberts. The Division requested in the e-mail that Thurston resolve this royalty matter with Mr. Roberts.

I re-discussed this matter with you on March 23, 2010. You stated, at that time, someone from Thurston would contact Mr. Roberts to resolve this matter. In addition, you stated there were funds in suspense from the sales in 2005 and 2006.

Thurston is required by Utah Statute that oil and gas proceeds derived from the sale of production from any well producing oil or gas in the state shall be paid to any person legally entitled (40-6-9(1)(a)) and the payment shall be made directly to the person entitled to the payment by the payor (40-6-9(b)). Also, if accrued payments cannot be made within specified

Page 2

Thurston Energy Operating – Royalty Complaint

April 6, 2010

time limits the payor shall deposit all oil and gas proceeds credited to the eventual oil and gas owner to an escrow account in a federally insured bank or savings and loan institution using a standard escrow document form (40-6-9(b)(i)) and the deposit shall earn interest at the highest rate being offered by that institution for the amount and term of similar demand deposits (40-6-9(b)(ii)).

As of today, Thurston has still not contacted Mr. Roberts to make a good faith effort to resolve his royalty complaint. I recommend Thurston contact Mr. Roberts as soon as possible to resolve this matter before the Division is forced to take further action.

Should you need assistance from the Division regarding this matter feel free to contact me at 801-538-5280 or [clintondworshak@utah.gov](mailto:clintondworshak@utah.gov).

Sincerely,



Clinton Dworshak  
Compliance Manager

CLD/js

cc: Mr. Garr Roberts  
Enforcement File  
Well Files

N:\O&G Reviewed Docs\ChronFile\Enforcement

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-31266
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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> DEVILS PLAYGROUND 23-17	
<b>2. NAME OF OPERATOR:</b> THURSTON ENERGY OPERATING	<b>9. API NUMBER:</b> 43047305680000	
<b>3. ADDRESS OF OPERATOR:</b> 365 W. 50 N. Ste W-8 , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 214 704-3896 Ext	<b>9. FIELD and POOL or WILDCAT:</b> DEVILS PLAYGROUND
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1923 FSL 2080 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 17 Township: 09.0S Range: 24.0E Meridian: S	<b>COUNTY:</b> UINTAH	
	<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/31/2011  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Please be advised that the Devil's Plaground 23-17 well has been returned to producing status effective 5/31/2011		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Patti Cox	<b>PHONE NUMBER</b> 435 789-8580	<b>TITLE</b> Operations Manager
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/17/2011	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-31266
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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> DEVILS PLAYGROUND 23-17	
<b>2. NAME OF OPERATOR:</b> THURSTON ENERGY OPERATING	<b>9. API NUMBER:</b> 43047305680000	
<b>3. ADDRESS OF OPERATOR:</b> 365 W. 50 N. Ste W-8 , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 214 704-3896 Ext	<b>9. FIELD and POOL or WILDCAT:</b> DEVILS PLAYGROUND
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1923 FSL 2080 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 17 Township: 09.0S Range: 24.0E Meridian: S	<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/31/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 50px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Please be advised that the Devils Playground 23-17 well has resumed production effective 05/31/2011.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Patti Cox	<b>PHONE NUMBER</b> 435 789-8580	<b>TITLE</b> Operations Manager
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/15/2011	

Effective Date: 9/10/2014

<b>FORMER OPERATOR:</b> Thurston Energy Operating Company P.O. Box 1667 Vernal, UT 84078	<b>NEW OPERATOR:</b> Shiny One Operating Company, LLC P.O. Box 1667 Vernal, UT 84078
CA Number(s):	Unit(s):

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See attached list									

**OPERATOR CHANGES DOCUMENTATION:**

- Sundry or legal documentation was received from the **FORMER** operator on: 12/10/2014
- Sundry or legal documentation was received from the **NEW** operator on: 12/10/2015
- New operator Division of Corporations Business Number: 5917957-0161

**REVIEW:**

- Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
- Receipt of Acceptance of Drilling Procedures for APD on: N/A
- Reports current for Production/Disposition & Sundries: 1/4/2015
- OPS/SI/TA well(s) reviewed for full cost bonding: 1/4/2015
- UIC5 on all disposal/injection/storage well(s) approved on: N/A
- Surface Facility(s) included in operator change: N/A
- Inspections of PA state/fee well sites complete on (only upon operators request): N/A

**NEW OPERATOR BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: UTB000181
- Indian well(s) covered by Bond Number:
- State/fee well(s) covered by Bond Number(s):  
579-146262-4  
579-146263-2  
579-146264-0  
579-146265-7

**DATA ENTRY:**

- Well(s) update in the **OGIS** on: 1/4/2015
- Entity Number(s) updated in **OGIS** on: 1/4/2015
- Unit(s) operator number update in **OGIS** on: N/A
- Surface Facilities update in **OGIS** on: N/A
- State/Fee well(s) attached to bond(s) in **RBDMS** on: 1/4/2015
- Surface Facilities update in **RBDMS** on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/4/2015

**COMMENTS:**

---

From: Thurston Energy Operating N2790  
 To: Shiny One Operating Company, LLC N4185

Effective 10 September 2014

Well Name	Section	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
RED WASH FED 1-18	18	090S	240E	4304730124	6200	Federal	Federal	GW	P
DEVILS PLAYGROUND 41-9	9	090S	240E	4304730339	6195	Federal	Federal	OW	P
DIRTY DEVIL FEDERAL 23-20	20	090S	240E	4304731009	10698	Federal	Federal	GW	P
DIRTY DEVIL 22X-27	27	090S	240E	4304734825	15109	Federal	Federal	GW	P
THURSTON 7-9-9-24 GR	9	090S	240E	4304740625	17771	Federal	Federal	OW	P
THURSTON 10-15-9-24	15	090S	240E	4304740626	17773	State	Federal	GW	P
THURSTON 12-29-9-24	29	090S	240E	4304740628	18119	State	Federal	GW	P
THURSTON 8-9-9-24	9	090S	240E	4304751428	18135	Federal	Federal	OW	P
DEVILS PLAYGROUND 23-17	17	090S	240E	4304730568	6136	Federal	Federal	GW	S
DIRTY DEVIL UNIT 11-29	29	090S	240E	4304731617	9586	State	Fee	GW	S
THURSTON 5-15-9-24	15	090S	240E	4304740627	17772	State	Federal	GW	S

# Delaware

The First State

RECEIVED  
SEP 30 2014  
PAGE 1  
Div. of Oil, Gas & Mining

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "THURSTON ENERGY OPERATING COMPANY, LLC", CHANGING ITS NAME FROM "THURSTON ENERGY OPERATING COMPANY, LLC" TO "SHINY ONE OPERATING COMPANY, LLC", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF AUGUST, A.D. 2014, AT 3:24 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE TENTH DAY OF SEPTEMBER, A.D. 2014.

3972888 8100

141350778



You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1824738

DATE: 10-30-14

**STATE OF DELAWARE  
CERTIFICATE OF AMENDMENT**

1. Name of Limited Liability Company: Thurston Energy Operating Company, LLC
2. The Certificate of Formation of the limited liability company is hereby amended as follows:

The name of Thurston Energy Operating Company, LLC shall be changed to Shiny One Operating Company, LLC, to be effective September 10, 2014.

IN WITNESS WHEREOF, the undersigned have executed this Certificate on the 20 day of August, A.D. 2014.

By:

Crystal Meeks  
Authorized Person(s)

Name: Crystal Meeks - Manager

Print or Type

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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:

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:

Devils playground 23-17

2. NAME OF OPERATOR: Sting One Operating Company, LLC

9. API NUMBER:

4-305E+09

3. ADDRESS OF OPERATOR: CITY Vernal STATE UT ZIP 04070 PHONE NUMBER: 435-709-8500

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL  
FOOTAGES AT SURFACE:

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 17-0905-2400-6136-Federal

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective 9-10-14

Thurston Energy Operating Company shall be known as  
Sting one operating company, LLC

RECEIVED

DEC 11 2014

Div. of Oil, Gas & Mining

NAME (PLEASE PRINT) Crystal MEEKS

TITLE Assistant Manager

SIGNATURE Crystal MEEKS

DATE 12-8-14

(This space for State use only)

**APPROVED**

JAN 04 2016

DIV. OIL GAS & MINING  
BY: Rachel Medina