

FILE NOTATIONS

Entered in NID File	Checked by Chief
Location Map Pinned	Approval Letter
Card Indexed	Disapproval Letter

COMPLETION DATA:

Date Well Completed 7-31-77	Location Inspected
..... WW..... TA.....	Bond released
SI OS..... PA.....	State or Fee Land

LOGS FILED

Driller's Log...✓.....

Electric Logs (No.) .✓.....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Other side reverse side)

5. LEASE DESIGNATION AND SERIAL NO.
U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Sand Ridge II Unit

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

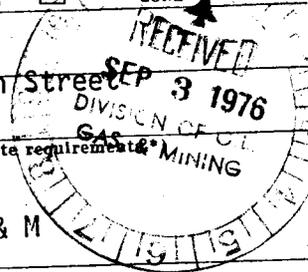
9. WELL NO.
PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S, R23E S.L.M.

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
**First of Denver Plaza, 633 17th Street
Denver, Colorado 80202**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
 At surface
**NE 1/4, SW 1/4 (1980' FWL, 1983' SL)
At proposed prod. zone Sec. 25, T8S, R23E, S.L. B & M**

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 16. NO. OF ACRES IN LEASE
600

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 19. PROPOSED DEPTH
9400

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
Ground 5030'

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START*
August 1976

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#	300	390 Sacks
12 1/2"	9 5/8"	36#	3300	565 Sacks
7 7/8"	5 1/2"	20#	9160	735 Sacks

PTS, as operator, proposes to drill a well and test the Mesaverde formation in the Uintah Basin of Southeast Utah. Plans for the project include cutting 400' of core and Drill Stem Testing the entire Mesaverde section.

If promising reservoir properties are found to exist, a 5-1/2" production string will be run and cemented. Hydraulic stimulation and extended flow testing will then follow. 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 reported. The well will be operated according to the regulations of NTL-6 and all state and county regulations which so apply. Drilling will be accomplished with adequate BOP control, a rotating head and choke manifold when penetrating the Wasatch and Mesaverde formations.

This project is being completed with the U.S. Energy Research and Development Administration as part of its research program to encourage production from tight gas bearing sands.

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 *D. E. Beardsley* TITLE District Manager DATE August 2, 1976

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY *E. S. ...* TITLE DISTRICT ENGINEER DATE SEP 02 1976
 CONDITIONS OF APPROVAL, IF ANY:

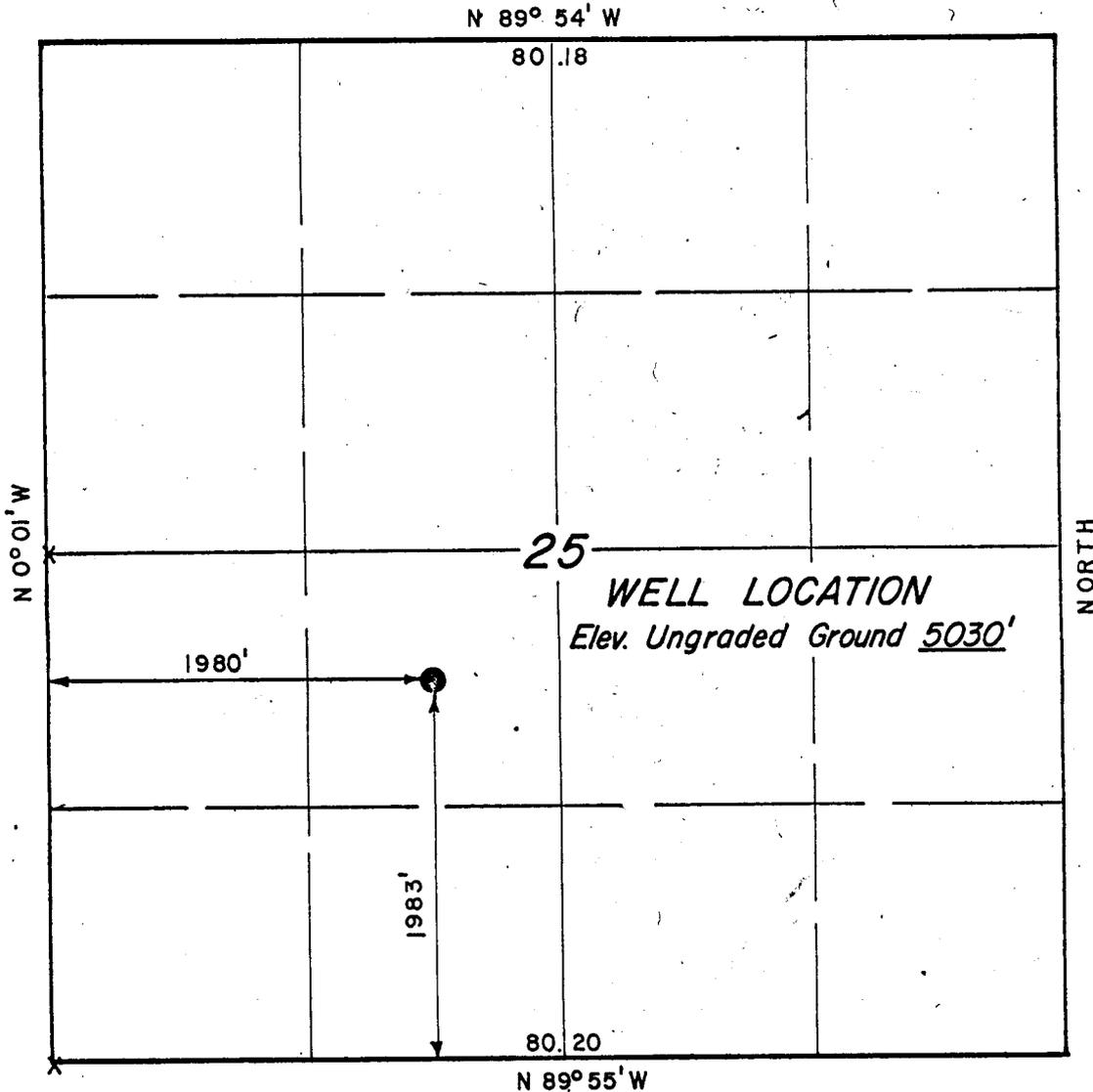
*See Instructions On Reverse Side

T8S, R23E, S.L.B. & M.

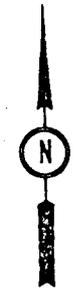
PROJECT

PACIFIC TRANSMISSION SUPPLY

Well location, located as shown in the NE 1/4 SW 1/4 Section 25, T8S, R23E, S.L.B. & M. Uintah County, Utah.



NORTH



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.

Alon J. Marshall
 REGISTERED LAND SURVEYOR
 REGISTRATION NO 2464
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING P. O. BOX Q - 110 EAST - FIRST SOUTH VERNAL, UTAH - 84078	
SCALE 1" = 1000'	DATE 6/28/76
PARTY DA DB BW	REFERENCES GLO PLAT
WEATHER HOT	FILE PACIFIC TRANS. SUPPLY

X = Section corners located.

PACIFIC TRANSMISSION SUPPLY COMPANY - SCHEDULE

ACTIVITY	TIME (MONTHS)																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
PHASE I (WEEKS)	CONTRACT EXECUTION																												
SITE PREPARATION (2)																													
DRILL WELL-DETERMINE Kh IN CASTLEGATE (12)																													
DECISION POINT			▲																										
PHASE II																													
FRACTURE CASTLEGATE (3)																													
PRODUCTION TEST (12)																													
PRESSURE BUILDUP (4)																													
DECISION POINT								▲																					
PHASE III																													
DETERMINE Kh IN COALY FACIES (1)																													
DECISION POINT									▲																				
FRACTURE COALY FACIES (3)																													
PRODUCTION TEST (12)																													
PRESSURE BUILDUP (4)																													
DECISION POINT																													
PHASE IV																													
DETERMINE Kh IN FARRER FACIES (1)																													
DECISION POINT																													
FRACTURE FARRER FACIES (3)																													
PRODUCTION TEST (12)																													
PRESSURE BUILDUP (4)																													
DECISION POINT																													
PHASE V																													
RECOMPLETE WELL - ALL ZONES FOR PRODUCTION (2)																													
LONG TERM PRODUCTION TEST (52)																													

APPLICATION FOR PERMIT TO DRILL

- 1) LOCATION SURVEY: See attached Survey Plat sheet signed by Nelson J. Marshall, Registered Land Surveyor, Registration Number 2454.
- 2) ELEVATION ABOVE SEA LEVEL: 5030', ungraded ground.
- 3) GEOLOGIC NAME OF SURFACE FORMATION: Uinta Formation
- 4) TYPE OF DRILLING TOOLS: Rotary drilling rig
- 5) PROPOSED DRILLING DEPTH: 9400'
- 6) ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

<u>Formation</u>	<u>Estimated Depth</u>	<u>(Ref Ground)</u>	<u>Datum</u>
Surface	0		+5030'
Green River	730'		+4300'
Wasatch	4560'		+470'
Mesaverde			
Farrer	6700'		-1670'
Neslen "Coaly Facies"	8050'		-3020'
Buck Tongue	9030'		-4000'
Castlegate	9130'		-4100'

- 7) ESTIMATED DEPTH OF WATER, OIL AND GAS: No significant quantities of water or hydrocarbons are expected above the mesaverde formation. Slight shows of oil and gas may be encountered in the lower Wasatch. The anticipated hydrocarbons are estimated to be encountered at 6700', Farrer, 8050', Neslen; and the Castlegate sand at 9130'.

8) PROPOSED CASING PROGRAM:

<u>Depth Set</u>	<u>Length</u>	<u>Size</u>	<u>Wt/Ft</u>	<u>Grade</u>	<u>Condition</u>	<u>Cement</u>
Surface to 300'	300'	13-3/5"	54.5#/Ft	J55	New	390 sacks Class G, 1/4#/Sack Clinton Flake, .2% CaCl ₂
Surface to 3300'	3300'	9-5/8"	36#/Ft	J55	New	280 sacks, Regulated Fill cement 1/4#/sack Clinton Flake 280 sacks, Class G Cement, 1/4#/sack Clinton Flake.
Surface to 9160'	9160'	5-1/2"	20#/Ft	N80	New	310 sacks, 50/50 Litepoz 3, 18% Salt, 0.75% D-65 dispersant, 0.3% D-13 retarder 425 sacks Class G cement, 10% salt, 0.3 gal/sack D-73 Liquid Fluid loss additive, 0.75% D-65 Dispersant, 0.3% D-13 Retarder.

- 10) PRESSURE CONTROL SPECIFICATIONS AND TEST FREQUENCY: See attached schematic diagram

The following auxiliary equipment will be used while drilling below surface casing; pit level indicator, rotating head, mud gas separator, kelly cock (upper & lower), drill pipe stabbing valve.

11) TYPE AND CHARACTERISTIC OF DRILLING FLUID:

<u>Interval Ft.</u>	<u>Mud Wt. #/Gal.</u>	<u>sec.</u> <u>VIS Ft.</u>	<u>Fluid Loss</u> <u>ML/30 Min</u>	<u>Type</u>
0-300'	8.5 - 9.0	35-50	No Control	Spud
300-3700'	8.7 - 9.0	28-30	No Control	Salt Water
3700-7400'	8.7 - 9.0	28-30	No Control	Salt Water
7400-TD	9.2 - 9.5	35-45	6-8 cc's	Salt Water

Lost circulation material and Barite will be stored on location in the event unusual hole problems develop.

12) TESTING LOGGING AND CORING PROGRAM:

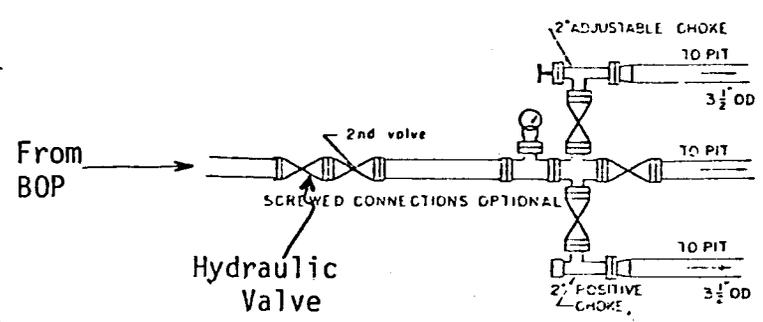
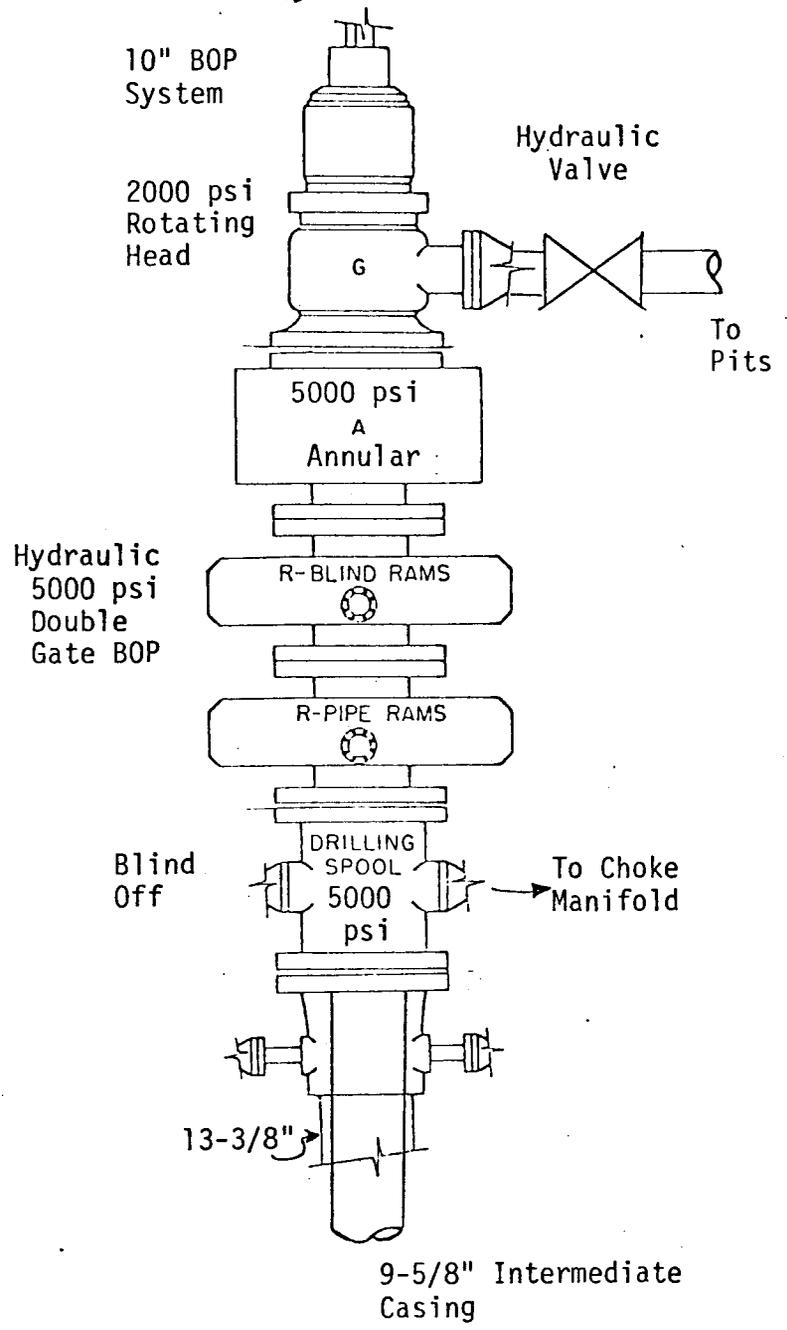
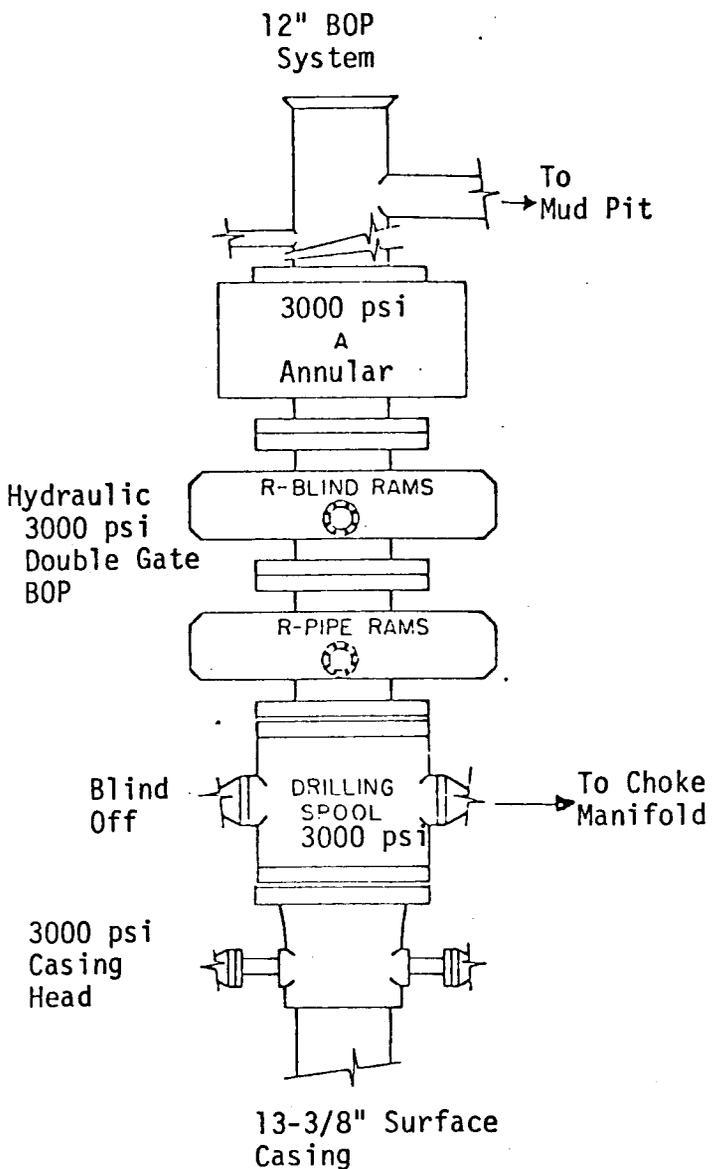
Drill Stem Test - Entire Mesaverde interval, 12 DST's (2300'±)
 Core Program - Core 400' of Mesaverde
 Logging Program - 300' to TD
 Dual induction electrical, compensated gamma ray sonic, compensated density-neutron, differential temperature log & manned mud log unit.

13) ANTICIPATED ABNORMAL PRESSURES AND HAZZARDS: Abnormal pressures are not expected in this well. No Hydrogen Sulfide or excessive formation temperatures are anticipated.

14) ANTICIPATED START DATE: Late August to early September, 1976. See attached Appendix-C for chronological schedule of job.

15) GENERAL INFORMATION: PTS plans to drill and complete the proposed well in cooperation with the U.S. Energy Research and Development Administration as part of their research program to encourage gas production from tight reservoirs.

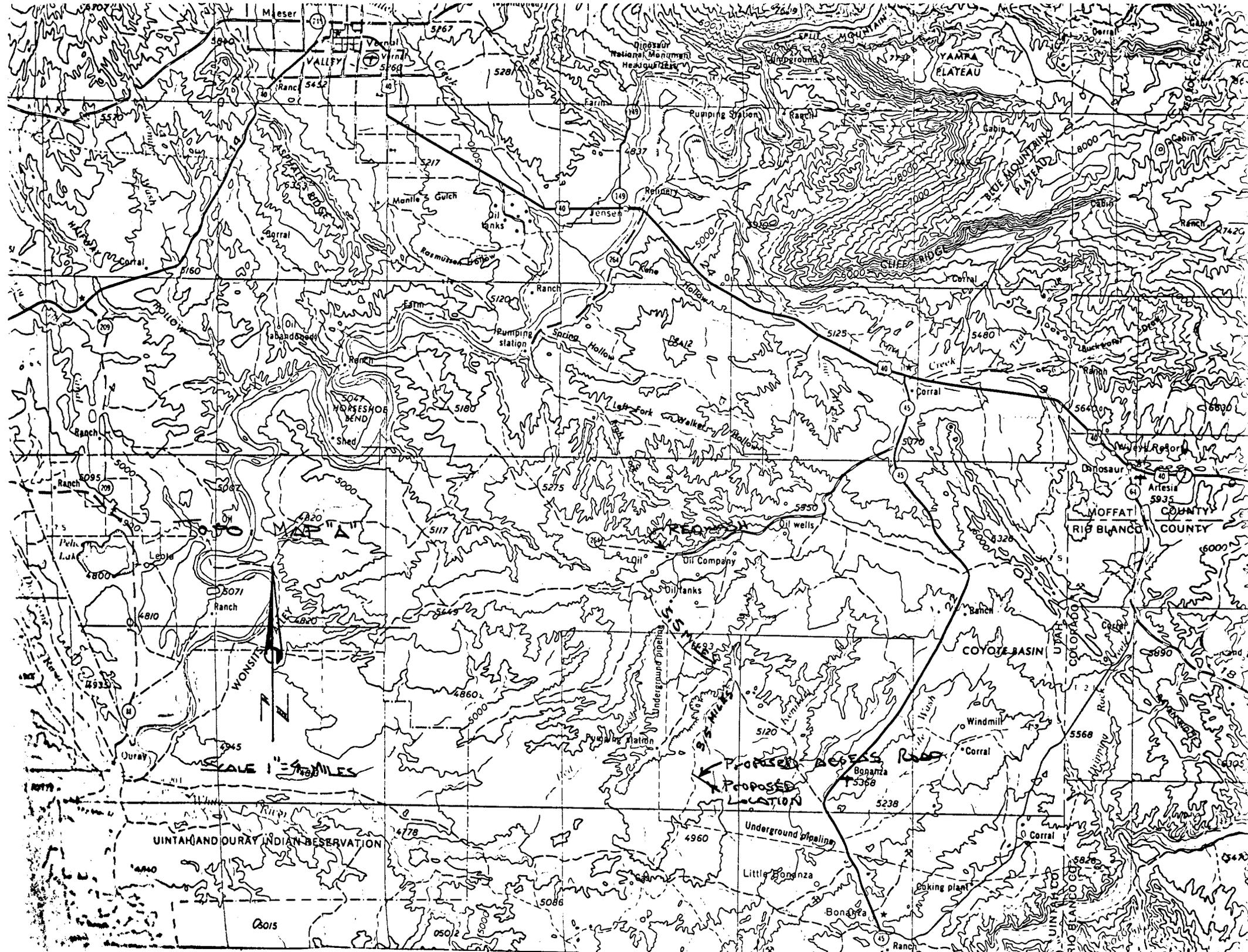
PRESSURE CONTROL SPECIFICATIONS AND TEST FREQUENCY

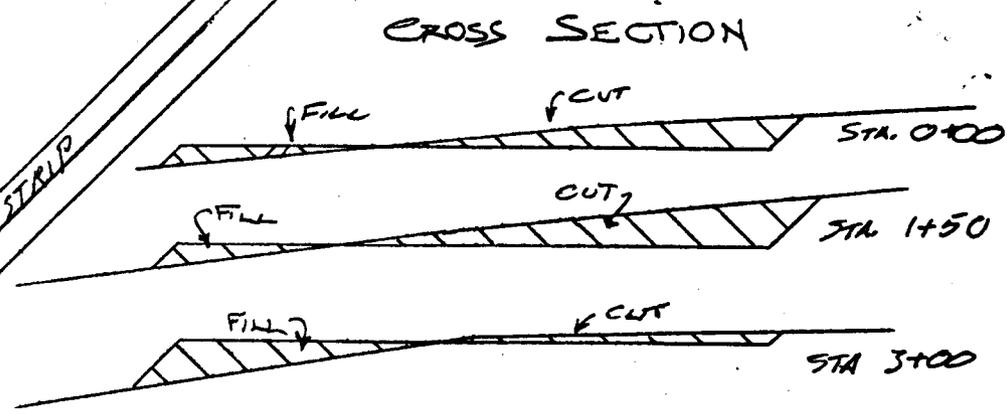
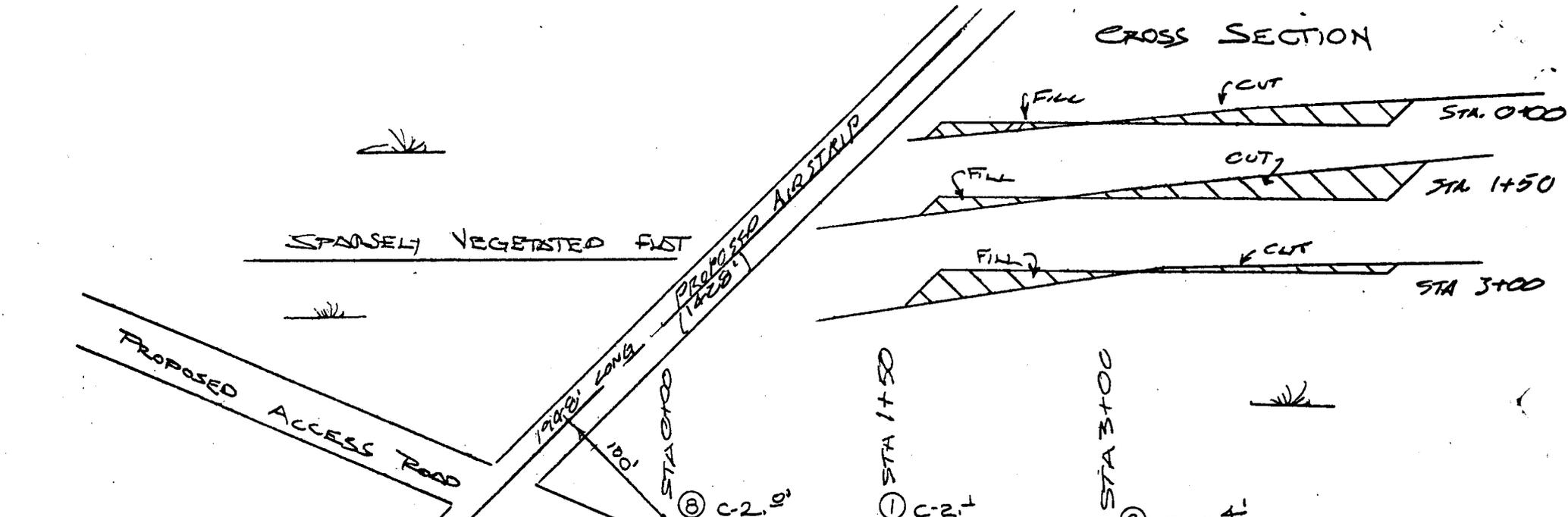


TEST SCHEDULE

- 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

5000 PSI CHOKE MANIFOLD

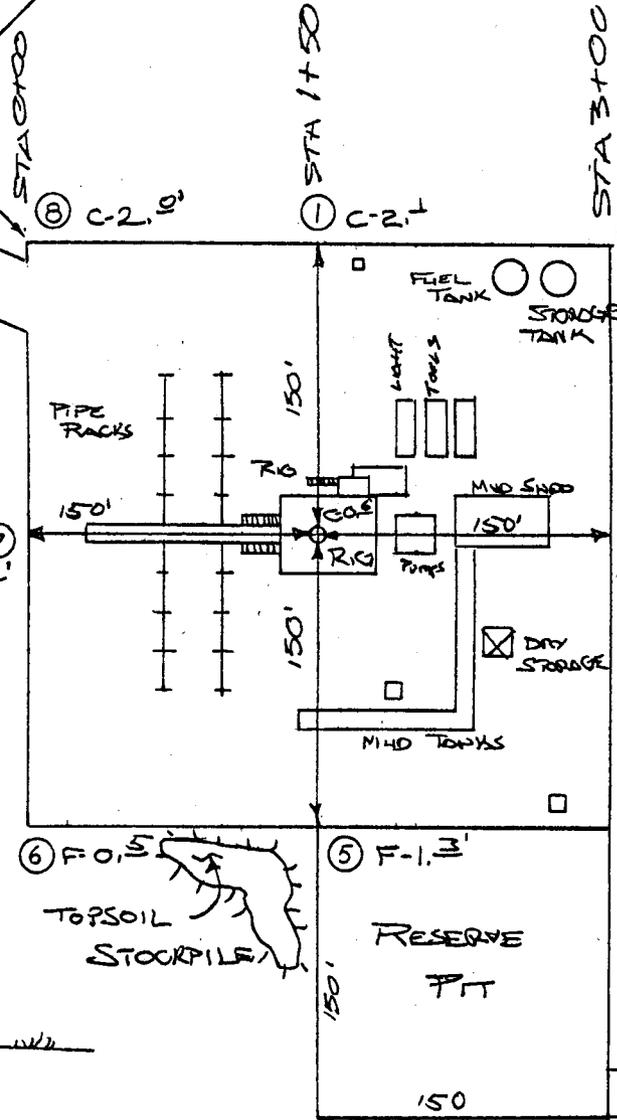
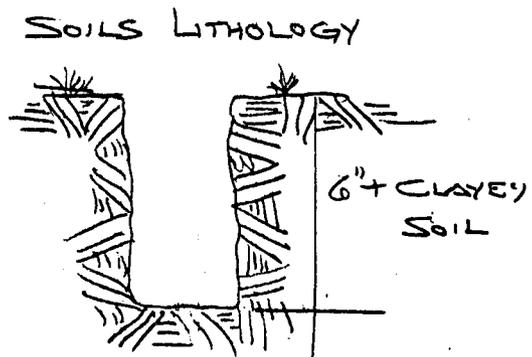




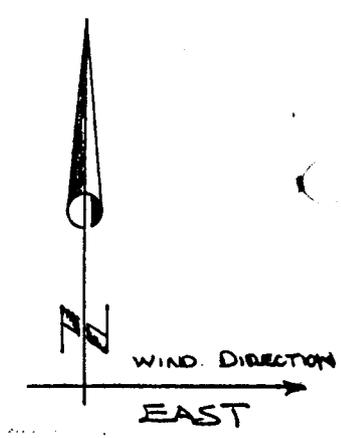
APPROXIMATE YARDAGE

CUT = 2161 CU. YDS

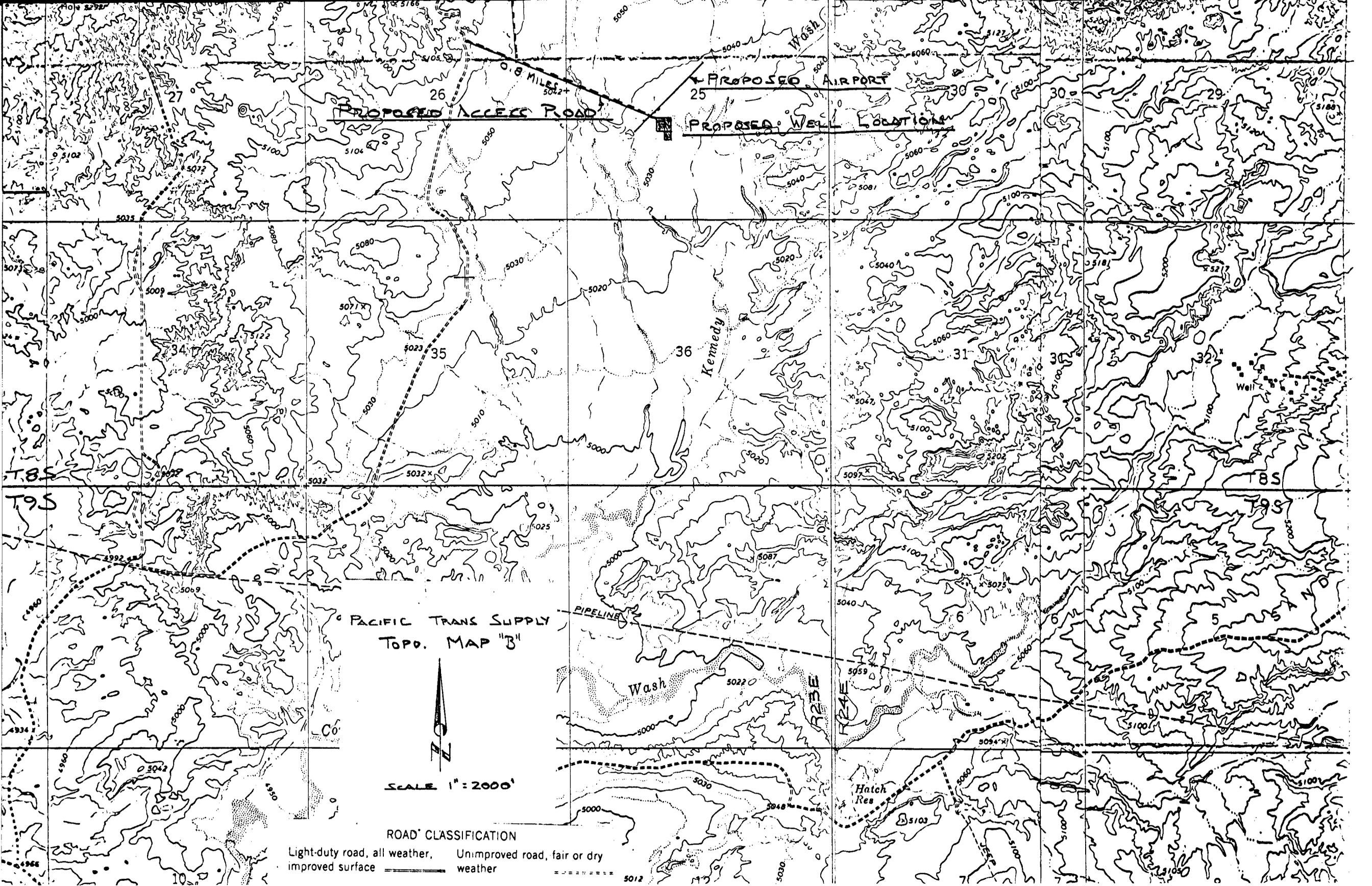
FILL = 740 CU. YDS.



- ① C-2.1'
- ② C-0.4'
- ③ C-0.4'
- ④ F-1.8'
- ⑤ F-1.3'
- ⑥ F-0.5'
- ⑦ C-1.1'



SCALE 1"=100'



PROPOSED ACCESS ROAD

PROPOSED AIRPORT

PROPOSED WELL LOCATION

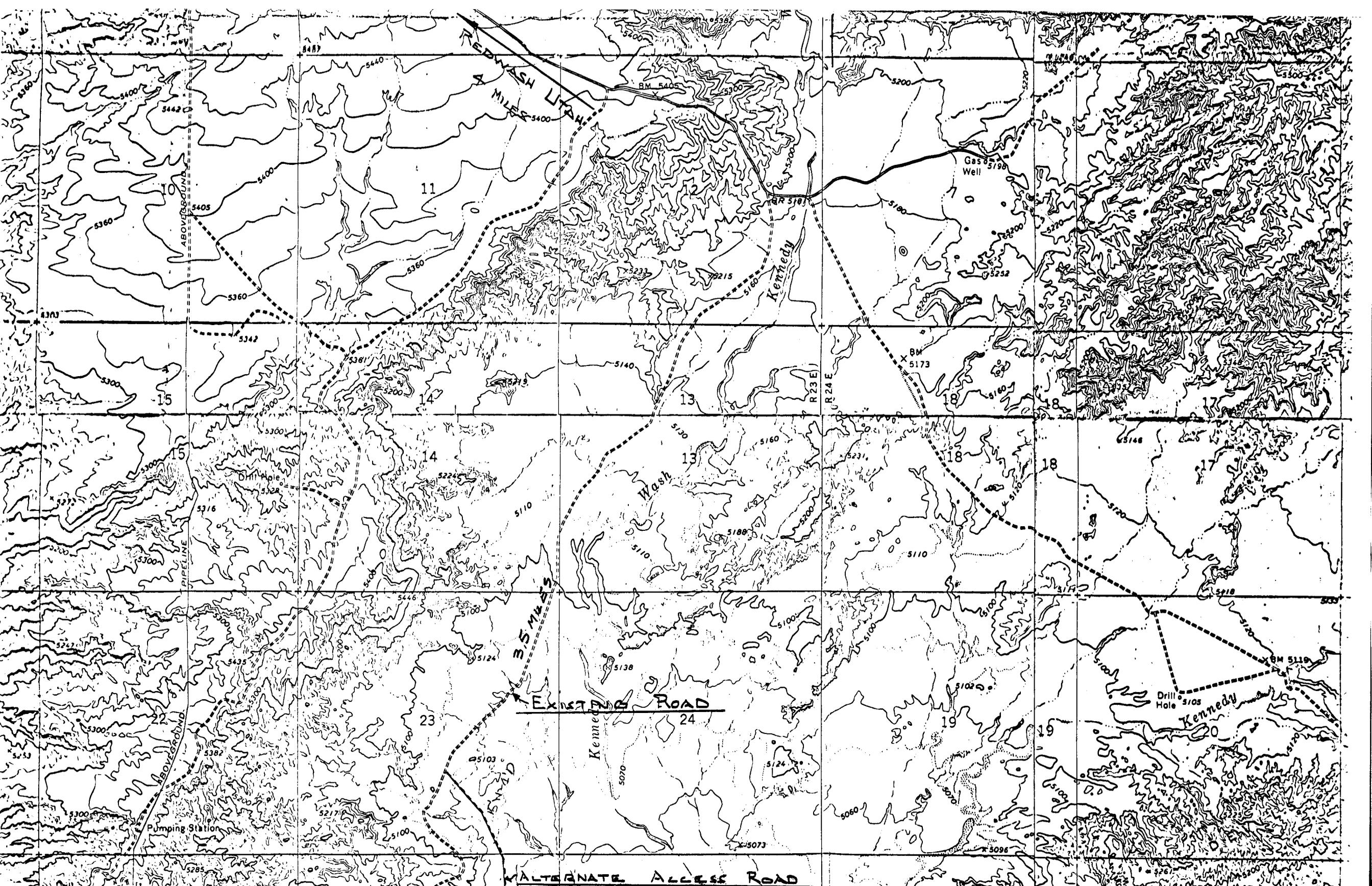
PACIFIC TRANS SUPPLY
TOPO. MAP "B"



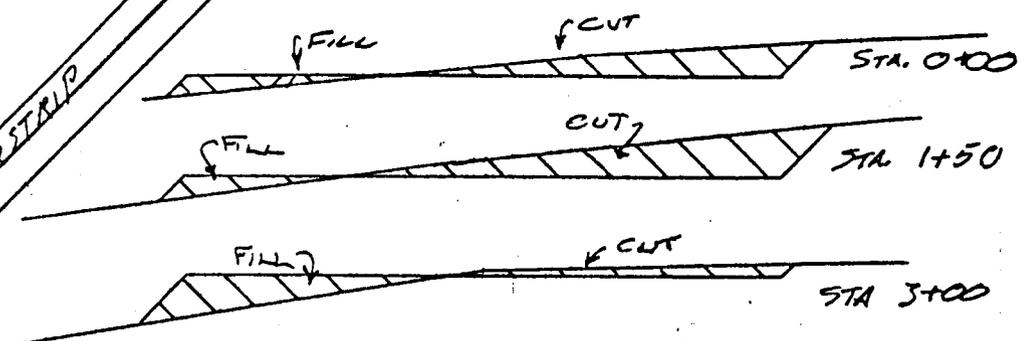
SCALE 1" = 2000'

ROAD CLASSIFICATION

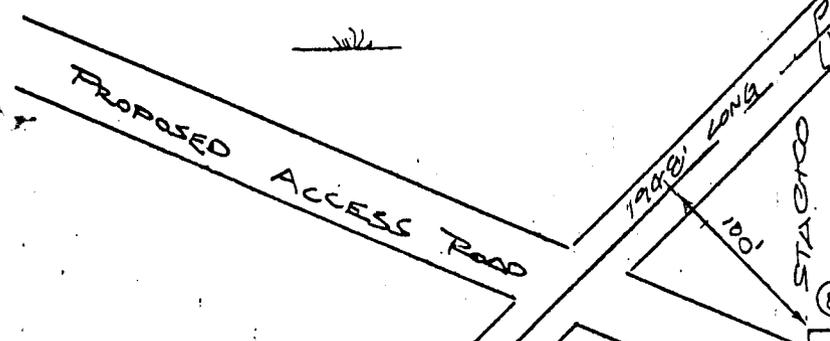
Light-duty road, all weather, improved surface Unimproved road, fair or dry weather



CROSS SECTION

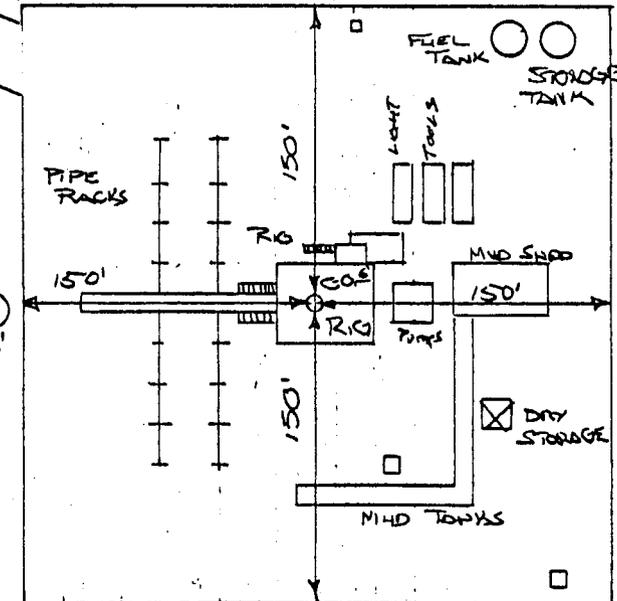


SPARSELY VEGETATED FLAT



⑧ C-2.0'
 ① STA 1+50
 ② STA 3+00

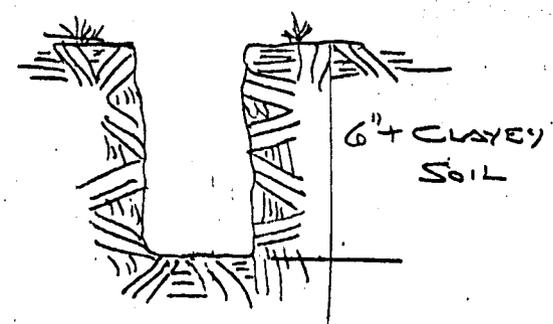
PACIFIC TRANS SUPPLY
 LOCATION LAYOUT



APPROXIMATE YARDAGE

CUT = 2161 CU. YDS
 FILL = 740 CU. YDS.

SOILS LITHOLOGY

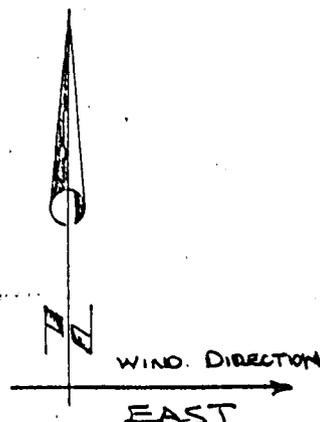


⑥ F-0.5'
 TOPSOIL STOCKPILE

⑤ F-1.3'
 RESERVE PIT

③ C-0.4'

④ F-1.8'



SCALE 1"=100'

25' x 25' TRASH & BURN PIT

DIVISION OF OIL, GAS, AND MINING

FILE NOTATIONS

Date: Aug. 4
 Operator: Pacific Transmission Supply
 Well No: PTS Federal 23-25
 Location: Sec. 25 T. 82 R. 23E County: Uintah

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

Checked By:

Administrative Assistant: DW

Remarks: No other wells in Area

Petroleum Engineer/Mined Land Coordinator: o.k. P

Remarks: Please include in approval letter that the State requests 1 copy of all core info. plus 1 copy of well D.S.T. info.

Director: [Signature]

Remarks: [Signature]

Include Within Approval Letter:

Bond Required Survey Plat Required
 Order No. Blowout Prevention Equipment
 Rule C-3(c) Topographical exception/company owns or controls acreage within a 660' radius of proposed site
 O.K. Rule C-3 O.K. In _____ Unit
 Other:

Letter Written

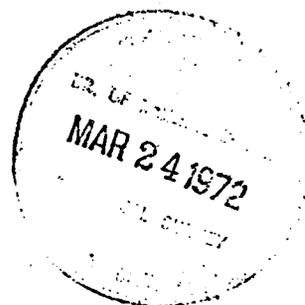
Depths of fresh-water zones:

Chorney Oil Co. - Pacific Gas Trans. Co., So. Red Wash-Fed. #1-23, Wildcat
607' fw1, 803' fsl, sec. 23, T 8 S, R 23 E, Uintah Co., Utah
Elev. 5,131 ft G. Proposed depth 10,300 ft.

<u>Stratigraphic units</u>	<u>Tops, roughly approx.</u>	<u>Quality of water</u>
Uinta Formation	surface	fresh/usable
Green River Formation	2,000 ft	usable/saline
Wasatch Formation	5,000 ft	saline/brine
Mesaverde Group	8,000 ft	brine
Mancos Shale	10,000 ft	brine

There are no water wells in the near vicinity of the proposed test. Fresh or usable water may be found as deep as 3,000 feet below land surface. Deeper aquifers contain moresaline water or brine.

USGS - WRD
3-24-72



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
SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR
First of Denver Plaza, 633 17th Street
Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
NE 1/4, SW 1/4 (1980' FWL, 1983' SL)
At proposed prod. zone Sec. 25, T8S, R23E, S.L. B & M

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

16. NO. OF ACRES IN LEASE
600

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
9400

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
Ground 5030'

22. APPROX. DATE WORK WILL START*
August 1976

23. PROPOSED CASING AND CEMENTING PROGRAM

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This project is being completed with the U.S. Energy Research and Development Administration as part of its research program to encourage production from tight gas bearing sands.

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.

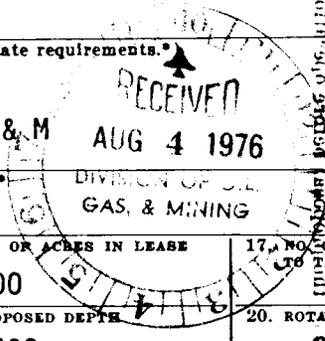
24. SIGNED D. E. Beardley TITLE District Manager DATE August 2, 1976

(This space for Federal or State office use)

PERMIT NO. 43-047-30230 APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:



5. LEASE DESIGNATION AND SERIAL NO.
J-7386 C

6. INDIAN ALLOTTEE OR TRIBE NAME
Sand Ridge II Unit ✓

7. AGREEMENT NAME

8. PART OR LEASE NAME
PTS 23-25 Federal ✓

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT
Wildcat ✓

11. SEC., T., S., M. OR BLM. AND SURVEY OR AREA
Sec. 25, T8S, R23E, S.L.M. ✓

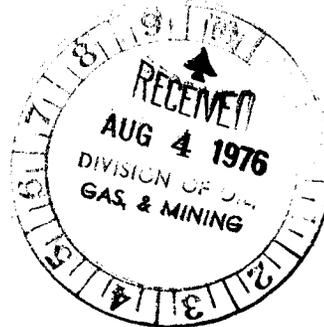
12. COUNTY OR PARISH STATE
Dintan Utah

13. APPROX. DATE WORK WILL START*
August 1976

PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING
P. O. BOX 3093
CASPER, WYOMING 82601
(307) 265-1027

August 2, 1976



State of Utah
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Cleon B. Feight

Reference: Proposed Application for Permit to Drill
PTS #23-25 Federal
Sec. 25-T8S-R23E
Uintah County, Utah

Gentlemen,

Pacific Transmission Supply Company submits its Application for Permit to Drill the captioned well. It is our intent that this well be the qualifying unit well for the pending Sand Ridge II Unit.

This project is being completed with the U. S. Energy Research and Development Administration as a part of its research program regarding production from tight, gas-bearing sandstones.

Enclosed for your review and approval are the following items (in triplicate) pertaining to the well:

1. Application for Permit to Drill
2. Surface Use Plan
3. BOP and Casing Design Plan
4. Surveyor's Plat
5. Location Map
6. Vicinity Map
7. Time Schedule as Allocated for the Project

Very truly yours,

Dee E. Beardsley
DEE E. BEARDSLEY
District Manager

DEB:a

encl.

cc: U. S. Geological Survey
Salt Lake City, Utah

August 6, 1976

Pacific Transmission Supply Co.
First of Denver Plaza
633 17th Street
Denver, Colorado 80202

Re: Well No. PTS Federal 23-25
Sec. 25, T. 8 S, R. 23 E,
Uintah County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure. It should be noted, however, that this Division does require at least one copy of all core and D.S.T. information to be submitted upon completion.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-047-30230.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
DIRECTOR

CBF:sw
cc: U.S. Geological Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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

5. LEASE DESIGNATION AND SERIAL NO.
U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.
PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S, R23E SLM

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
**NE 1/4, SW 1/4, (1980' FWL, 1983' SL)
Sec. 25, T8S, R23E, S.L. B&M**

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

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 checked="" type="checkbox"/>	(Other) <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.)*

PTS requests permission to lay approximately 3.8 miles of temporary surface fuel gas line from the 1-18 to the PTS 23-25 Federal to supply fuel gas to drill the PTS 23-25 Federal. This will be laid to minimize damage to the landscape and is expected to be needed for approximately 120 days.

The proposed route is shown on the attached sketch.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: Oct. 12, 1976

BY: P. L. Amcull

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

SIGNED Dee E. Bearedsey TITLE District Manager DATE September 30, 1976

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

PACIFIC TRANSMISISON SUPPLY

12 Point Surface Use Plan

for

Well Location

Located In

Sec. 25, T8S, R23E, S.L.B. § M.

Uintah County, Utah

1. EXISTING ROADS

See attached topographic map "A" to reach Pacific Transmission Supply well location in Sec. 25, T8S, R23E, S.L.B. & M. Existing roads will not need improvements at this time.

2. PLANNED ACCESS ROAD

See attached topographic map "B". The proposed access road will be a 33' wide road (16.5' on either side of the centerline) with a side drain ditch on each side to handle drainage. Maximum grade on the proposed access road is approximately 1%. The access road is to be constructed of native borrow. Two semi-permanent fords shall be constructed in the natural drainages 250' and 350' west of the location site. The proposed access road will leave the location site on the west side and proceed Northwesterly approximately 0.8 miles to the existing unimproved dirt road.

3. LOCATION OF EXISTING WELLS

There are no other known wells within a radius of 1 mile. (See location plat for placement of Pacific Transmission supply well within section).

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

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

5. LOCATION AND TYPE OF WATER SUPPLY

Water used to drill this well is to be hauled from Redwash, Utah Municipal Water Supply approximately 9 miles to the North of the location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location and access road are to be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining materials from other sources are anticipated at this time.

7. METHODS FOR HANDLING WASTE DISPOSAL

All garbage and trash that can be burned shall be burned. All unburnable garbage and trash accumulated during the development of this well shall be contained in the trash pit shown on the attached location layout sheet. On completion of this well, this pit shall be covered with a minimum 4' of cover. All production waste such as cuttings, salts, chemicals, overflows, of condensate, water, and drilling fluids shall be contained in the reserve pit and on completion of the well buried with a minimum 4' of cover. A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

The proposed airstrip is to be built 100' NW of the proposed location site and is to be a 1948' long strip, 30' wide (15' perpendicular on either side of of the centerline) with a side drain ditch on each side and will contain 1.34 acres more or less. The proposed airstrip is to be constructed of native borrow accumulated during construction of said airport. No additional construction material is anticipated at this time. No other ancillary facilities are planned for this location.

9. WELL SITE LAYOUT

See attached location layout plat. B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

10. PLANS FOR RESTORATION OF THE SURFACE

As there is minimal topsoil in the area, all topsoil will be stripped and stockpiled prior to drilling. When all production activities have been completed, the location site and access road will be reshaped to the original contour and the topsoil spread over the disturbed area. Any drainages re-routed during construction and production activities shall be restored to their original line of flow. All wastes being contained in the reserve pit and trash pit shall be buried with a minimum 4' of cover. The drainages crossed by the access road shall be cleared of all debris to the satisfaction of the B.L.M. District Manager. The location site, airstrip and access road shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun they shall be completed within 30 days.

11. OTHER INFORMATION

Topography of the general area consists of small rolling hills trending North-South with some rock out croppings and ledges occurring along the steeper ridges. Level areas broken by large washes and gullies occur intermittently throughout the area. Drainages in the area are intermittent in nature running occasionally in the spring time and draining South into the annually flowing White River. Soils of this semi-arid area are light brown clayey soils containing some poorly graded gravels, of the Uinta Formation, Quaternary Gravel Surfaces, Terraces and Pediments. The marginal top soil throughout the area supports low desert shrubs and grasses, (20% vegetation, 80% bare earth). Wildlife is sparse; predominantly coyotes, rabbits, and a variety of small ground squirrels and mice. Birds in the area are hawks, finches and ground sparrows. The location site is located on a sloping flat, a drainage parallels the location on the west and also on the east of the location site. The ground slopes through the location site on approximately a 1% grade and is minimally vegetated with low desert shrubs and grasses. There are no occupied dwellings, or other facilities including archeological, historical, or cultural sites within any reasonable close proximity of the proposed location site.

12. LESSES'S OR OPERATOR'S REPRESENTATIVE

Ron Dethlefsen Field Representative
80 South 1500 East
Vernal, Utah Ph: 789-4573

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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, true and correct; and 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 the terms and conditions under which it is approved.

August 2, 1976
Date


Dee E. Beardsley
Name and Title DEE E. BEARDSLEY, District Manager

Pacific Gas Trans Supply
 # 23-25-NESW
 Sec 25-8s-23E
 Uintah Co. Utah.

BLM - Robbins
 USGS - ALEXANDER
 RTS - Detlefsen

Enhance
 No Effect
 Minor Impact
 Major Impact

Construction	Pollution	Drilling Production	Transport Operations	Accidents	Others													
						Roads, bridges, airports	Transmission lines, pipelines	Dams & impoundments	Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal	Liquid effluent discharge	Subsurface disposal	Others (toxic gases, noxious gas, etc.)	Well drilling	Fluid removal (Prod wells, facilities)	Secondary Recovery	Noise or obstruction of scenic views	Mineral processing (ext. facilities)

Land Use	Forestry	NA																				
	Grazing	LO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Wilderness	NA																				
	Agriculture	NA																				
	Residential-Commercial	NA																				
	Mineral Extraction	NA																				
	Recreation	LO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Scenic Views	LO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Parks, Reserves, Monuments	NA																				
	Historical Sites	NA																				
Unique Physical Features	NA																					
Flora & Fauna	Birds	LO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Land Animals	LO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Fish	NA																				
	Endangered Species	NONE KNOWN																				
Phy. Charact.	Trees, Grass, Etc.	LO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Surface Water	NA																				
	Underground Water	?																				
	Air Quality	LO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Other	Erosion	LO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Effect On Local Economy	LO	0	0							0					0						
Safety & Health	LO	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Others	Orig: Files CC: Utah Doem BLM, Uerxal w/o malix Reg Denver																					

Lease

U-7386

Well No. & Location

23-25 N E S W Sec 25-83-23E

Uintah Co. Utah -

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

- 1.) Pacific Trans. Supply Co. proposes to drill a wildcat oil & gas test well w/rotary tools to approx 9400'
- 2.) to construct a drill pad approx 300'x300' and a reserve pit approx 100'x100' and to construct an airstrip approx 1948' long and 30' wide.
- 3.) to construct a new access road approx 1 mile. An existing trail will be upgraded for approx 3.5 miles.

2. Location and Natural Setting (existing environmental situation)

The well site falls on a desert flat area surrounded by ruins. The well site and airstrip are very level.

The vegetation is sparse sagebrush and assorted native grasses.

The wildlife is the usual deer, antelope, small mammals, and birds. There are no known endangered species.

There are no known historical sites that would be affected and no evidence of ~~archaeological~~ archaeological sites was noted.

The drilling and completion of a dry hole or failure would have little long term effect on the environment.

Discovery of an gas Deposit would also have little long term effect in that production equipment would be held to a minimum and painted to blend w/ Natural environment.

Improvement of the roads would benefit the grazing and recreational use of the land in that it would be more accessible. There would be moderate scaring of the land that would require two-to five years to rehab.

The drilling and associated traffic would add a minor amount of pollution to the air as well as temporarily disturbing livestock & wildlife.

There would be potential for minor induced & accelerated erosion due to surface disturbance and support traffic use.

4. Alternatives to the Proposed Action

Not Approving the proposed permit.

Denying the proposed permit and suggesting an alternate location, where environmental damage would be lessened. No nearby locations could be found that would justify this action.

Temporary disturbance of Livestock & wildlife.

Temporary mess due to drilling activity and regrading about 2 to 3 years to rehab.

Detraction from the aesthetics.

Minor air pollution due to rig exhaust and support traffic.

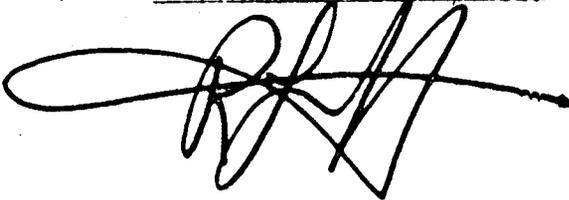
Potential for minor induced & accelerated erosion due to surface disturbance for drill site and support traffic use.

6. Determination

(This requested action ~~is~~ (does Not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2)(c)).

Date Inspected

8-19-76



WP Martin
U. S. Geological Survey 8-24-76

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH
 TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

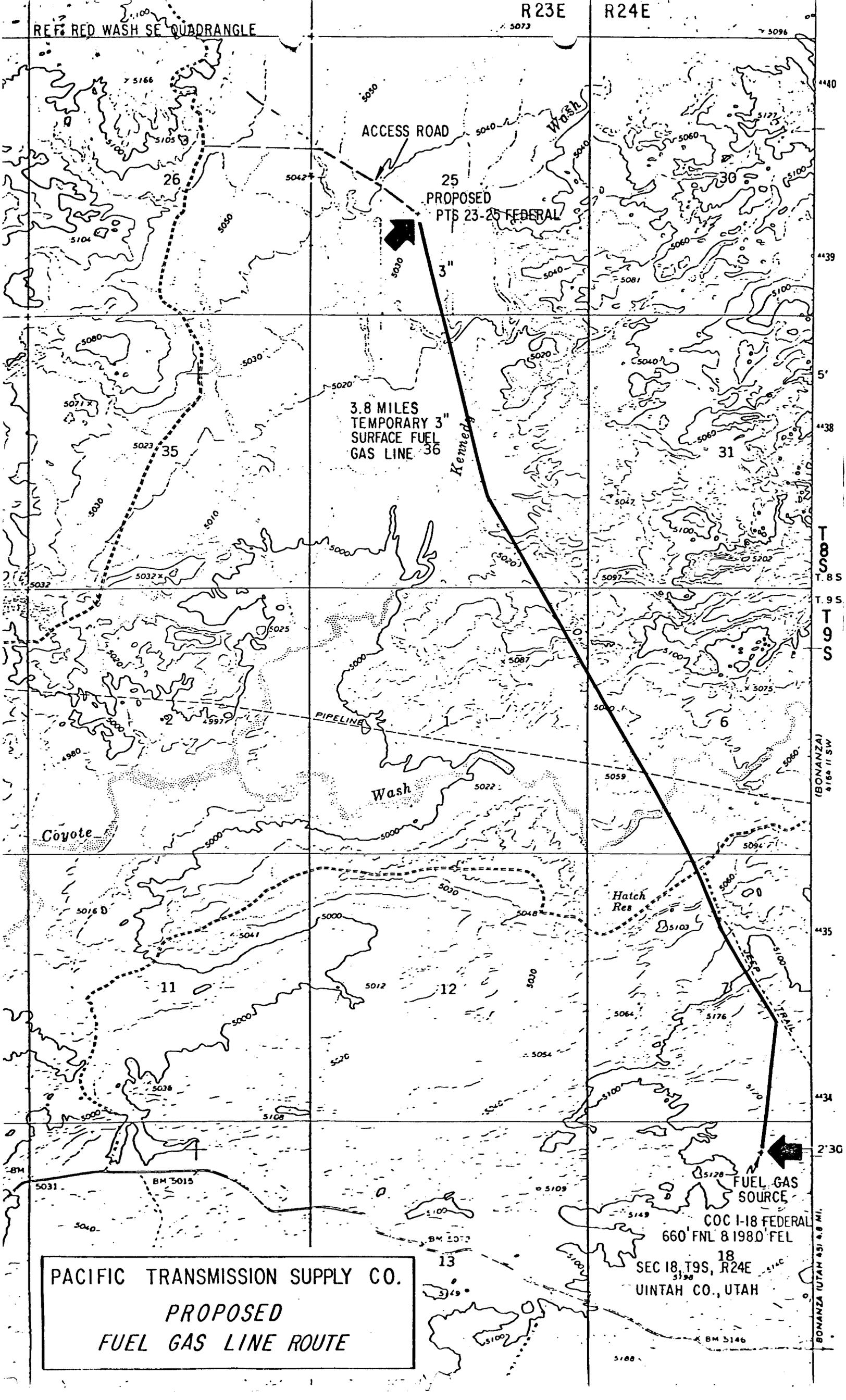


Well	Location	Lease No.
Pacific Transmission Supply Co. #PTS-23-25 Federal	1980' FWL, 1983' FSL, sec. 25, T.8S, R.23E, SLM, Uintah Co, Utah, Gr. El. 5030'.	U-7386

- Stratigraphy and Potential Surface rocks are Uintah Formation. The Chorney-Oil and Gas Horizons. Pacific Gas Trans. Co. #1-23 in sec. 23 (same township) reported tops: Green River-1624', Wasatch-5226', Mesaverde-7546', Buck Tongue-9608', Castlegate-9676', Mancos-10,036'. T.D. 10,297'. P&A.
- Fresh Water Sands. For the well of item 1, WRD reported as follows: (see page 2).
- Other Mineral Bearing Formations. Prospectively valuable for solid and semi-solid (Coal, Oil Shale, Potash, Etc.) bitumens. Coal in Mesaverde is at a depth greater than 6000 feet. The well in item 1 reported coal at 9350'. In oil shale withdrawal E.O. 5327. Cashion's 1969 map shows top of Mahogany zone at elevation of about 2500'. Based on elevation of this well, Mahogany top should be at a depth of about 2530'.
- Possible Lost Circulation Zones. None reported in well of item 1.
- Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Unknown
- Possible Abnormal Pressure Zones and Temperature Gradients. None reported in well of item 1.
- Competency of Beds at Proposed Casing Setting Points. Probably competent.
- Additional Logs or Samples Needed. In an area where Cashion says that sonic, density, gamma ray, electric, and neutron logs are valuable aids in evaluating oil shale resources.
- References and Remarks More than 2 miles from KGS.

State Oil & Gas

Date: **SEP 13 1976** Signed: *BR Act*



ACCESS ROAD

25 PROPOSED P.TS 23-25 FEDERAL

3.8 MILES TEMPORARY 3" SURFACE FUEL GAS LINE

36

PIPELINE

Wash

Coyote

Hatch Res

11

12

13

FUEL GAS SOURCE

COC I-18 FEDERAL 660' FNL 8 1980' FEL

SEC 18, T9S, R24E

UINTAH CO., UTAH

PACIFIC TRANSMISSION SUPPLY CO.

PROPOSED FUEL GAS LINE ROUTE

T. 8 S
T. 9 S

(BONANZA)
4164 II SW

2' 30"

BONANZA (UTAH 45) 4.8 MI.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.

PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 25, T8S, R23E SLM

12. COUNTY OR PARISH

13. STATE

Uintah

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
 PACIFIC TRANSMISSION SUPPLY COMPANY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
 At surface
 NE 1/4, SW 1/4, (1980' FWL, 1983' SL)
 Sec. 25, T8S, R23E, S.L. B&M

14. PERMIT NO.
 43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5030' ground

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 type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

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.)*

PTS requests permission to lay approximately 3.8 miles of temporary surface fuel gas line from the 1-18 to the PTS 23-25 Federal to supply fuel gas to drill the PTS 23-25 Federal. This will be laid to minimize damage to the landscape and is expected to be needed for approximately 120 days.

The proposed route is shown on the attached sketch.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: Oct. 12, 1976

BY: P. H. Amcell

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

SIGNED Dee E. Bearedsey

TITLE District Manager

DATE September 30, 1976

(This space for Federal or State office use)

APPROVED BY _____
 CONDITIONS OF APPROVAL, IF ANY:

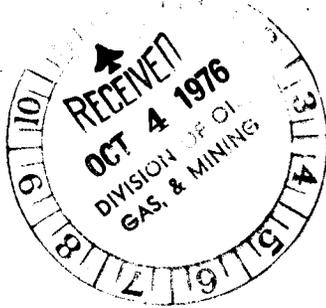
TITLE _____

DATE _____

PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING
P. O. BOX 3093
CASPER, WYOMING 82601
(307) 265-1027

September 30, 1976



Mr. Edgar W. Guynn
U. S. GEOLOGICAL SURVEY
8426 Federal Building
Salt Lake City, Utah 84116

Dear Mr. Guynn,

Enclosed please find, for your approval, the Sundry Notices regarding the PTS #23-25 Federal (Sec. 25-T8S-R23E) where we are requesting permission to lay a temporary surface fuel gas line from the #1-18 to the PTS #23-25 Federal to supply fuel gas to drill the PTS #23-25 Federal. The #1-18 will be the source well for the gas.

The proposed route is shown on the attached sketch.

Yours very truly,

Dee E. Beardsley
DEE E. BEARDSLEY
District Manager

DEB:a

cc: Mr. Cleon B. Feight
Division of Oil, Gas & Mining
State of Utah
1588 West North Temple
Salt Lake City, Utah 84116

Chorney Oil Company
401 Lincoln Tower Building
Denver, Colorado 80203

*Cathy I send letter
Please w/ copy of Approval.
Address letter to Chorney
& tell them they will
be expected to file
monthly production
reports.*

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.
PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E, SLM

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

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
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

(Other) Weekly Report

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.)*

Spudded 7:45 P.M. 11/4/76. Depth 300', preparing to cement.

~~APPROVED BY THE DIVISION OF OIL, GAS, AND MINING~~

DATE: _____

BY: _____

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

SIGNED Original signed by JACK L. WROBLE /SKA

TITLE EXPLORATION MANAGER

DATE 11/5/76

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.

PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 25, T8S-R23E, SLM

12. COUNTY OR PARISH

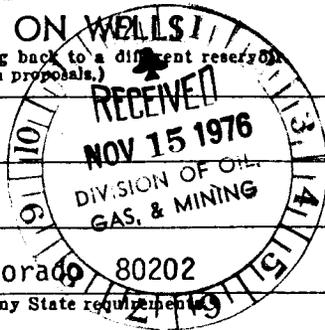
Uintah

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
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

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

NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
5030' ground

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

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

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

11/6/76 - TD 300'. Ran 8 jts. 13-3/8" 54#, J-55, short T&C Surface Casing, landed casing @ 300' K.B. Cemented with 390 sacks Class "G", 1/4# per sack, 2% CaCl, mixed & pumped 390 sacks (80 bbls slurry); dropped plug, started to displace, pumped 2 bbls water @ 400#, threads failed on cement head and pulled out of casing. Rigged up swedge and head, displaces slurry, pumped 3.5 bbls water, pressured to 800#, unable to displace cement, rigged up pipe to check cement in annulus, cemented at 90', recemented with 125 sacks Class "G", 2% CaCl, 1" pipe.
 11/7/76 - TD 300', drilling cement @ 288'.
 11/8/76 - TD 985', drilling sand and shale.
 11/9/76 - TD 1290', waiting on drill collar inspection. Made 305' in sand and shale.
 11/10/76 - TD 1428', drilling sand and shale.
 11/11/76 - TD 1949', tripping for bit.
 11/12/76 - TD 2138', preparing to trip.

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

SIGNED [Signature]

TITLE EXPLORATION MANAGER

DATE 11/12/76

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLE COPY
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

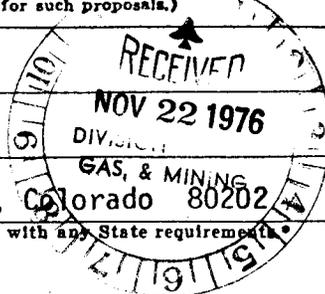
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M



7. UNIT AGREEMENT NAME
Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.
PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E, SLM

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

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
 FRACTURE TREAT
 SHOOT OR ACIDIZE
 REPAIR WELL
 (Other) Weekly Report

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.)*

11/13/76 - TD 2495', drilling.
 11/14/76 - TD 2935', drilling.
 11/15/76 - TD 3320', drilling.
 11/16/76 - TD 3410', tripping out to run casing.
 11/17/76 - TD 3410', WOC. Ran 74 joints 9-5/8", 35#, K-55 (2997.44') and 10 joints 9-5/8" 40#, N-80 (409.24') intermediate casing with Baker guide shoe, differential fill float collar, 10 centralizers and metal pedal cement basket. Landed casing @ 3405', cemented with 280 sacks regulated fillup cement with 1/4# per sack Clinton Flake and 280 sacks Class "G" cement with 1/4# per sack Clinton Flake, displaced with 259 bbls water with good circulating throughout job. Bumped plug with 2000# @ 3 P.M., released pressure, float ok.
 11/18/76 - TD 3410', tripping.
 11/19/76 - TD 3720', drilling.

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

SIGNED J. L. Wroble

TITLE EXPLORATION MANAGER

DATE 11/19/76

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.
6. LEASE DESIGNATION AND SERIAL NO.

U-7386

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
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

5. ELEVATIONS (Show whether DF, RT, CR, etc.)
5030' ground

6. LEASE DESIGNATION AND SERIAL NO.
U-7386

7. UNIT AGREEMENT NAME
Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

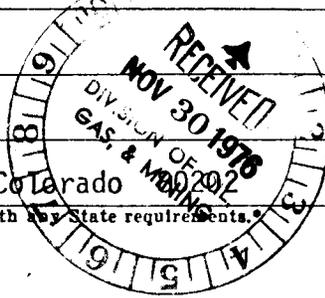
9. WELL NO.
PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E, SLM

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 checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	

(Other) Weekly Report

(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.)*

PLEASE HOLD CONFIDENTIAL

11/20/76 - TD 4220', drilling.
 11/21/76 - TD 4585', drilling.
 11/22/76 - TD 4905', drilling.
 11/23/76 - TD 5155', mixing and conditioning mud.
 11/24/76 - TD 5248', tripping in hole with test tools for DST #1.
 11/25/76 - TD 5280', drilling. DST #1 - 5121'-5248'. Open 15 min, shut in 60 min, Open 180 min, shut in 180 min. Opened with good blow, GTS immediately in 2 min. Final flow as follows:

10 min	3/4" choke	50 psi	756 MCF
20 "	" "	61 "	883 "
35 "	" "	98 "	1313 "
50 "	" "	100 "	1450 "
65 "	" "	101 "	1464 "
80 "	" "	110 "	1595 "
110 "	" "	107 "	1551 "
180 "	" "	107 "	1551 "

Pressures: IHP 2434; FHP 2423; IF 172-209; FF 308-330; ISIP 2402; FSIP 2328.
 Rec: 420' heavily gas cut mud, 90' muddy water (gas cut). BHT 141°F

11/26/76 - TD 5590', drilling.

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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 11/26/76

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TR (DATE)
(Other Instructions on reverse side)

Form approved,
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

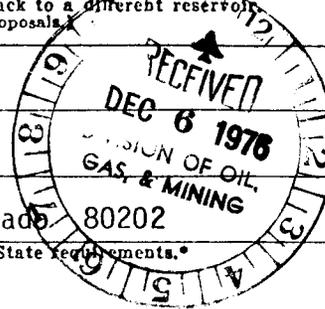
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M



7. UNIT AGREEMENT NAME
Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.
PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E, SLM

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

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 type="checkbox"/>
(Other) Weekly Report	X

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 type="checkbox"/>	ABANDONMENT* <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.)*

PLEASE HOLD CONFIDENTIAL

- 11/27/76 - TD 5895', drilling.
- 11/28/76 - TD 6165', drilling.
- 11/29/76 - TD 6475', drilling.
- 11/30/76 - TD 6812', circulating.
- 12/1/76 - TD 6812', circulating and washing to bottom. Fishing for DST tools.
- 12/2/76 - TD 6812', circulating and washing to bottom. Fishing for DST tools.
- 12/3/76 - TD 6812', tripping out, picking up fishing tools.

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

SIGNED [Signature] TITLE EXPLORATION MANAGER

DATE 12/3/76

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other Instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.
U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Proposed Sand Ridge II Unit

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9. WELL NO.

PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 25, T8S-R23E, SLM

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
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

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

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

(Other) Weekly Report

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.)*

PLEASE HOLD CONFIDENTIAL

12/4/76 - Fishing at 6812'.
12/5/76 - Fishing at 6812'.
12/6/76 - TD 6812', circulated and conditioned for DST.
12/7/76 - TD 6812', ran DST #2 from 6560-6812'. IF 15 min, ISI 60 min, FF 60 min, FSI 255 min. Tool opened w/weak blow, incr to strong. Final flow, GTS in 10 min @ 36 MCF/GPD rate, decr to 7 MCF. Rec 460' GCM. Pressures: IHP 3274, FHP 3235, IF 191-179, FF 191-217, ISI 1361, FSI 2632. Sample chamber recovery: 1800 cc GCM, scum oil. BHT 156°.
12/8/76 - TD 6940', drilling.
12/9/76 - TD 7050', tripping in with test tools.
12/10/76 - TD 7050', tripping out with test tools. Ran DST #3 from 6800'-7050', packer seat failed. RIH for DST #4, packers set at 6829' to test to 7050'. IF 15 min, ISI 60 min, FF 60 min, FSI 265 min. IF opened w/weak blow to fair after 10 min. FF strong blow, remained throughout. GTS in 80 min, TSTM. Rec 375' drilling mud.

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

SIGNED J. L. Wroble TITLE EXPLORATION MANAGER

DATE 12/10/76

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Confidential
SUBMIT IN TRIP DATE
Other Instruction: a re-verse side)

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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.)

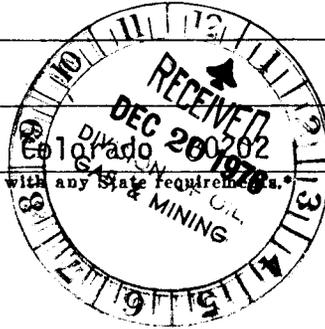
1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado

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

NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M



7. UNIT AGREEMENT NAME
Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.
PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E, SLM

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

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PLEASE HOLD CONFIDENTIAL

- 12/11/76 - TD 7064', coring. TD corrected from 7050' to 7040'. DST #4 interval correction to 6819'-7040'. Pressures: IH 3345, FH 3269, IF 74-200, FF 173-198, ISI 1017, FSI 2290. Core #1, 7040'-7055'. Cut and rec 15'.
- 12/12/76 - TD 7151', drilling. Core #2, 7055'-7100'. Cut and rec 45'.
- 12/13/76 - TD 7259', tripping in for DST #5.
- 12/14/76 - TD 7330', drilling. DST #5, 7030'-7259': IF 18 min, ISI 60 min, FF 91 min, FSI 240 min. IF fair blow, 6" in bucket in 18 min. FF strong blow from bottom of bucket in 2 min, remained throughout test. No GTS. Rec 330' drlg mud. IHP 3284, FHP 3485, IFP 67-47, FFP 90-90, ISIP 112, FSIP 338.
- 12/15/76 - TD 7490', tripping in w/core barrel for Core #3.
- 12/16/76 - TD 7490', tripping out w/test tools. Core #3, 7430'-7490'. Cut and rec 60'. DST #6: 7250'-7490', misrun, packers would not hold.
- 12/17/76 - TD 7550', testing, DST #7. Interval 7282'-7550'.

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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 12/17/76

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL GAS WELL OTHER

7. UNIT AGREEMENT NAME

Proposed Sand Ridge II Unit

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

9. WELL NO.
PTS 23-25 Federal

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

10. FIELD AND POOL, OR WILDCAT
Wildcat

NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

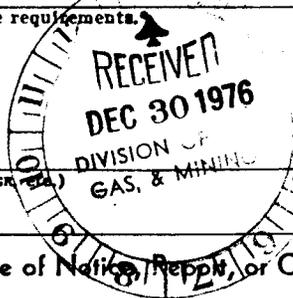
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Sec. 25, T8S-R23E, SLM

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, CR, or other)
5030' ground

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 type="checkbox"/>
(Other) Weekly Report	X

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 type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) _____	

(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.)*

PLEASE HOLD CONFIDENTIAL

- 12/18/76 - TD 7605', drilling. Ran DST #7, 7282-7550'. IF 15 min, ISI 60 min, FF 90 min, FSI 310 min. Opened w/weak blow, incr to strong blow. FF in 7 min, 78 MCF, 1/2" choke, 59 MCF in 10 min, 10 MCF in 25 min, dead in 30 min. Pressures: IH 3687-3687, IF 205-153, ISI 702, FF 217-191, FSI 995. Sample chamber recovery 750 cc GCM, 1/2 CF gas, BHT 100°.
- 12/19/76 - TD 7790', drilling.
- 12/20/76 - TD 7812', tripping in for DST #9. DST #8, 7582'-7812', misrun, packer did not hold. DST #9, 7598'-7812', misrun, packer did not hold.
- 12/21/76 - TD 7875', tripping in w/core barrel. Core #4, 7812'-7835', cut and rec 23'.
- 12/22/76 - TD 7875', drilling. Core #5, 7835'-7859', cut 24' and jammed, rec 23'.
- 12/23/76 - TD 8032', prep to run DST #10.
- 12/24/76 - TD 8032', prep to run DST #11. DST #10, 7879'-8032', recovered 4013' drilg mud. No pressures reported.

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

SIGNED *[Signature]*

TITLE EXPLORATION MANAGER

DATE 12/24/76

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.

PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 25, T8S-R23E, SLM

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
NE/4, SW/4 (1980' FWL, 1983' FSL)
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SHOOT OR ACIDIZE
REPAIR WELL

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

(Other) Weekly Report

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(Other)

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PLEASE HOLD CONFIDENTIAL

- 12/25/76 - Coring. DST #11: 7954-8032'. IF 10 min, ISI 60 min, FF 60 min, blowing from bottom of bucket 2 min steady, FSI 240 min. No GTS. Rec 320' drlg mud. Pressures: IH 3945, FH 3915, IF plugged, FF 178-242, IS 1133, FS 497.
- 12/26/76 - TD 8095', drilling. Core #6: 8032-8074', cut 42', recovered 36'.
- 12/27/76 - TD 8215', drilling.
- 12/28/76 - TD 8330', drilling.
- 12/29/76 - TD 8341', tripping out with DST #12.
- 12/30/76 - TD 8423', drilling. DST #12: 8084-8341'. IF 15 min, opened 3", blow incr to bottom of bucket in 5 min, steady. ISI 60 min, FF 120 min, -opened w/blow off bottom of bucket, FSI 360 min. GTS in 115 min @ 34 MCFPD, rec 315' GCM. BHT 178°, sample pressure 75#, rec 2100 cc GCM. Pressures: IH 4104, FH 4075, IF 165-165, ISI 433, FSI 765.
- 12/31/76 - TD 8567', circulating for DST #13.

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

SIGNED

J. Labadie

TITLE

EXPLORATION MANAGER

DATE

12/31/76

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

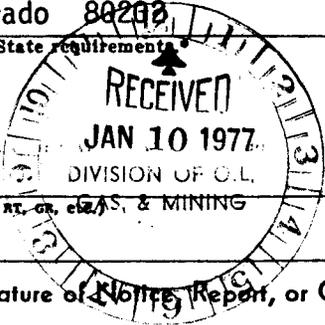
SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR PACIFIC TRANSMISSION SUPPLY COMPANY.</p> <p>3. ADDRESS OF OPERATOR 633 17th Street, Suite 2140, Denver, Colorado 80202</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface NE/4, SW/4 (1980' FWL, 1983' FSL) Section 25, T8S-R23E, S.L. B&M</p> <p>14. PERMIT NO. 43-047-30-230</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. U-7386</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME Proposed Sand Ridge II Unit</p> <p>8. FARM OR LEASE NAME</p> <p>9. WELL NO. PTS 23-25 Federal</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 25, T8S-R23E, SLM</p> <p>12. COUNTY OR PARISH Uintah</p> <p>13. STATE Utah</p>
<p>15. ELEVATIONS (Show whether DF, RT, CR, etc.) 5030' ground</p>	<p>16. COUNTY OR PARISH & MINING Uintah & MINING</p>



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) _____	(Other) _____
(Other) Weekly Report <input checked="" type="checkbox"/>		(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.)*

PLEASE HOLD CONFIDENTIAL

1/1/77 - TD 8567', tripping out w/DST #13.
 1/2/77 - TD 8688', drilling. DST #13, 8330-8567'. IF 15 min, ISI 60, FF 120, FSI 360. Opened w/3" blow in bucket, increasing to bottom of bucket in 15 min. Final flow, blow steady, no GTS. Rec. 540' very slightly GCM. Sampler - 1100 cc slightly GCM, 50# pressure. IH 4205#, FH 4179#, IF 318-255#, ISI 395#, FF 306-280#, FSI 510.
 1/3/77 - TD 8711', waiting on corehead. Core #7, 8690-8711', cut 21', rec. 18'.
 1/4/77 - TD 8769', tripping. Core #8, 8711-8769', cut 58', rec. 29'.
 1/5/77 - TD 8789', cut drlg line & prep to pick up test tools. Core #9, 8769-8789', cut and rec. 20'.
 1/6/77 - TD 8789', tripping out w/DST #14.
 1/7/77 - TD 8850', circulating. DST #14, IF 15 min, ISI 60 min, FF 120 min, FSI 480 min. Interval 8578'-8789'. IH 4403#, IH 4387, IF 230-164, FF 164-166, ISI 246, FSI 353, BHT 142. Rec. 210' very slightly gas cut drlg fluid, no GTS. Sampler 1000 cc mud, .12 c.f. gas, 55 psig.

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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 1/7/77

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

U-7386

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

Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

9. WELL NO.
PTS 23-25 Federal

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

NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

10. FIELD AND POOL, OR WILDCAT
Wildcat

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

Sec. 25, T8S-R23E, SLM

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

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 type="checkbox"/>
(Other) Weekly Report	<input checked="" 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 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.)*

PLEASE HOLD CONFIDENTIAL

1/8/77 - TD 8872', drilling.
 1/9/77 - TD 8950', tripping in for DST #15., 8772'-8950'. IF 15 min, ISI 60 min, FF 90 min, FSI 240 min. GTS in 2 min on IF, @ 15 min 121 MCF. GTS on FF, stabilized @ 260 MCF after 30 min. Rec 450' HGCM, 100' HGC salt water. Sampler rec 1100 cc salt water & 4.5 c.f. gas @ 250#. Pressures: IHP 4684#, IFP 427-657#, ISI 4340#, 2nd FP 427-657#, FSI 4856#, FHP 4668#.
 1/10/77 -TD 8960', drilling.
 1/11/77 -TD 9000', coring.
 1/12/77 -TD 9032', rigging up for mini-frac. Core #10, 8990-9032', cut 42', rec 42½'.
 1/13/77 -TD 9032', inflating impression packer. Performed mini-frac on Buck Tongue Shale 9017'-9032'.
 1/14/77 -TD 9045', drilling. Impression packers misrun.

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

SIGNED [Signature]

TITLE EXPLORATION MANAGER

DATE 1/14/77

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.
U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.
PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E, SLM

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
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

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

NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

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) Weekly Report

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

X

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.)*

PLEASE HOLD CONFIDENTIAL

- 1/15/77 - TD 9081', tripping.
- 1/16/77 - TD 9118', drilling.
- 1/17/77 - TD 9163', circulating for DST #16.
- 1/18/77 - TD 9163', testing, DST #17. DST #16, 8934-9163', 229', misrun.
- 1/19/77 - TD 9183', coring, core #11. DST #17: 8956-9163': Open 15 min, SI 10 min, open 90 min, SI 240 min. Initial open weak to btm of bucket in 8 min; final open weak blow incr to 6" water in 2 min, steady for 45 min, decr to 3" water @ end of test. No GTS. Rec 120' mud. Pressures: -IH 4975, IF 117-94, ISI 389, FF 94-106, FSI 400, FHP 4962. Sample chamber recovered 1500 cc mud, 25#, temperature 44° F.
- 1/20/77 - TD 9223', coring. Core #11, oriented, 9163-9223', cut and recovered 60'.
- 1/21/77 - TD 9282', laying down core barrel. Core #12, oriented, 9223-9282', cut 59', recovered 56'.

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

SIGNED Original signed by J. L. WROBLE TITLE EXPLORATION MANAGER DATE 1/21/77

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

U-7386

7. 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.)

Confidential

1. OIL WELL GAS WELL OTHER

7. UNIT AGREEMENT NAME
Proposed Sand Ridge II Unit

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

9. WELL NO.
PTS 23-25 Federal

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

10. FIELD AND POOL, OR WILDCAT
Wildcat

NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E, SLM

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GW, etc.)
5030' ground

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
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other) Weekly Report

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.)*

PLEASE HOLD CONFIDENTIAL

- 1/22/77 - TD 9282', tripping.
- 1/23/77 - TD 9282', logging.
- 1/24/77 - TD 9282', tripping out for DST.
- 1/25/77 - TD 9282', tripping out w/DST #18. DST #18, 8916-8956' (40'), straddle test w/inflatable packers. IF 15 min, ISI 60 min, FF 75 min. IF fair to good blow btm of bucket, 14 ozs. pressure. Final blow fair to good blow btm of bucket, 18 ozs, decreasing to 9 ozs. Lost packer seat during final flow, lost 47 bbls mud. Pressures: IH 5002#, FH 4951#, IF 102-102#, FF 102-127#, ISI 3008#. Rec 3700' GCDM.
- 1/26/77 - TD 9282', WOC.
- 1/27/77 - TD 9282', testing, DST #19. PBTD 8965'.
- 1/28/77 - TD 9282', waiting on orders. DST #19, 8924-8965': IF 15 min, ISI 60 min, FF 210 min, FSI 300 min. IF weak blow, increasing to btm of bucket at end. Final flow, strong blow, remained steady. Recovered 80' GCM, 200' G&WCM, 100' GCW. Sample chamber recovered 1500 cc water, .1 cu. ft. gas. Pressures: IHP 4818#, FHP 4818#, IFP 140-140#, FF 102-217#, ISI 612#, FSI 3907#.

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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 1/28/77

(This space for Federal or State office use) [Signature]

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TR
(Other instruct
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-7386

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		7. UNIT AGREEMENT NAME Proposed Sand Ridge II Uni
2. NAME OF OPERATOR PACIFIC TRANSMISSION SUPPLY COMPANY		8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR 633 17th Street, Suite 2140, Denver, Colorado 80202		9. WELL NO. PTS 23-25 Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/4, SW/4 (1980' FWL, 1983' FSL) Section 25, T8S-R23E, S.L. B&M		10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO. 43-047-30-230	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5030' ground	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 25, T8S-R23E, SLM
		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) Weekly Report <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.)*

PLEASE HOLD CONFIDENTIAL

Waiting on Completion.



18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 2/11/77

(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
GEOLOGICAL SURVEY

PERMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

P

7. UNIT AGREEMENT NAME

Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.

PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 25, T8S-R23E, SLM

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
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

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 type="checkbox"/>
(Other) Weekly Report <input type="checkbox"/>	<input checked="" 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 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.)*

PLEASE HOLD CONFIDENTIAL

2/13/77 - 2/18/77: Moved in and rigged up service rig. Picked up and ran 289 joints of 2-7/8" tubing, 6.5#, J-55 with Baker scraper and 4-5/8" bit. Tagged cement at 8885'. Pressured BOP & 5 1/2 casing to 5000#, ok. POOH 2-7/8" tubing & tools. Rigged up OWP and ran Cement Bond Log with Gamma-Ray Correlation Log from 8880-6200', ran Base Temperature Log from 8880-6200'. Prep to perf for squeeze.



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

SIGNED [Signature]

TITLE EXPLORATION MANAGER

DATE 2/18/77

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other Instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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

Proposed Sand Ridge II Unit

8. FARM OR LEASE NAME

9. WELL NO.

PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 25, T8S-R23E, SLM

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

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

NE/4, SW/4 (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L. B&M

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' ground

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) Weekly Report

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) _____

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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.)*

PLEASE HOLD CONFIDENTIAL

- 2/19/77 - Perf'd with 4 shots per foot @ 8814'. Picked up & ran 284 jts. 2-7/8" tubing w/Baker packer, set @ 8745', btm of packer @ 8747'. Rigged up to squeeze, unable to breakdown formation, shut in for weekend.
- 2/22/77 - Rigged up to circulate out drlg. mud with calcium chloride; lost fluid. Set packer @ 8685'; fluid was going through D.V. tool.
- 2/23/77 - Rigged up & squeezed cement through stage tool @ 5509' with 100 sx Class "G" cement, .6% D-60, 1% D-13 (20 bbls 15.8#/gal. cement slurry). Pressured up tubing & SIFN.
- 2/24/77 - WOC. Rigged up drlg. equip., drlg & circ. cement from 5449-5512', circ. hole clean, pressure tested with rig pump, still lost fluid.
- 2/25/77 - Rigged up & resqueezed with 100 sx Class "G" cement, .5% D-60 (20 bbls 16#/gal. slurry), set packer @ 5364', displaced cement, 1/8 BPM @ 2800#, increasing to final squeeze pressure of 4100#, released pressure, held OK. Reversed out excess cement, POOH w/tubing & packer, shut in. Prep to pick up bit & scraper.

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

SIGNED J. L. WROBLE

TITLE EXPLORATION MANAGER

DATE 2/25/77

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

February 28, 1977



TO ALL INTERESTED PARTIES:

Reference: PTS #23-25 Federal
Sec. 25-T8S-R23E
Uintah County, Utah
ERDA Contract No.EY-76-C-08-0680

Gentlemen,

We are enclosing final prints of the following logs for the above-captioned well:

O.W.P. Acoustic Cement Bond-Gamma Ray Log

O.W.P. Temperature Log

Very truly yours,


DEE E. BEARDSLEY
District Manager

DEB:a

encl.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER
(Other Instructions on reverse side)

Form Approved
Budget Bureau No. 42-R1424

5. LEAST DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

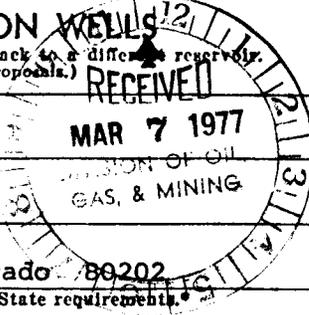
Sec. 25, T8S-R23E

12. COUNTY OR PARISH 18. STATE

Uintah 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
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
5030' Ground

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS
X

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.)*

PLEASE HOLD CONFIDENTIAL

- 2/26/77 - WOC. Pumped 1 BPM @ 4400# to pressure test. RU drlg equip & circulated. Drld cement from 5365'-5510', circulated hole clean.
- 2/27/77 - RU to pressure test squeeze job, pressured up, 1 BPM @ 4400#, released pressure, rigged down. Rigged up to squeeze, mixed 50 sx Class "G", .5% D-60, 10 bbls, 15.8#/gal. slurry, spotted cement in tubing, set packer at 5364', displaced & squeezed @ 3400#, increased to 4500#, released pressure, reset packer, pressured tubing, rigged down; WOC.
- 2/28/77 - Shut down. WOC 24 hrs.
- 3/2/77 - RU drlg equip, circulated & drld cement from 5361-5510', circulated hole clean, pressured up, broke down @ 4500#, took fluid - 1 1/2 BPM @ 4000#, bled off & rigged down. Rigged up & squeezed 100 sx Class "G" cement (20 bbls 15.8#/gal. slurry). Set packer @ 5364', displaced cement w/water @ 3000#, increased to 5000#, released pressure, held OK.
- 3/3/77 - RU to drill cement & pressure test.
- 3/4/77 - Drld & circulated hard cement from 5365'-5510', circulated hole clean, rigged down drlg equip, rigged up to pressure test, tested to 4000#, held OK. Prep to run tubing to PBD 8885' & displace mud w/CaCl.

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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 3/4/77

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRICATE*
(Other Instruct on re-verse side)

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

P

7. UNIT AGREEMENT NAME

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

12. COUNTY OR PARISH 13. STATE

Uintah 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

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PACIFIC TRANSMISSION SUPPLY COMPANY

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633 17th Street, Suite 2140, Denver, Colorado 80202

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Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' Ground

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 type="checkbox"/>
(Other) <input type="checkbox"/>	<input checked="" 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 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.)*

PLEASE HOLD CONFIDENTIAL

- 3/6/77 - Perf'd w/casing gun from 8824-8832' with 16 holes (2 per foot). Displaced 10.6#/gal CaCl water w/2% potassium chl water, set packer @ 8818'.
- 3/7/77 - SDF Sunday. SITP @ 7 A.M. 1350#.
- 3/8/77 - Acidized perfs 8824-8832' as follows: 2000 gal, 15% HCl, 4900#, 5 BPM. 2000 gal, Reg. mud acid, 4750#, 5 BPM, 2000 gal, 15% HCl acid, 3900#, 5 BPM, 2000# Reg. mud acid, 4700#, 5 BPM, 2000 gal, 15% HCl, 4400#, 5 BPM. Flushed w/51 bbls 2% KCl water containing 800 SCF/bbl CO₂ @ 4300# & 5 BPM. All acid contained 8 gal/thousand gal A-170 inhibitor, 5 gal/thousand gal F-78 surfactant, 100#/thousand gal L-41 & 800 SCF/bbl CO₂. Max press. 5000#, avg. press 4600#, final press 4300#, ISI 3000#, 15 min 2750#, 30 min 3650#, avg rate of treatment 5 BPM. Ran Temp survey from 8600'-8880', all perfs took acid. Flowed well to tank for 2 hrs thru 12/64" choke, FTP 2400#, decr to 2050#, recovered 38 BW, flowed to pit for 14 1/2 hrs, thru 16/64" choke, FTP 2050#, decr to 450#, recovered 112 BW, total 150.
- 3/9/77 - Flow testing thru 16/64" choke, 12 hrs, recovered 65 BW. Flowed thru 20/64" choke, recovered 70 bbls water. Total 135 bbls in 24 hrs. Well heading with average flowing pressure 100#, estimated gas volume 100 MCF/day.
- 3/10/77 - Flowed to pit for 24 hrs thru 24/64" choke. Recovered 72 bbls water with tr oil, average FTP 50#. Est. 100 MCF/D. Prep to connect to separator unit.

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

SIGNED J. A. Rohle TITLE EXPLORATION MANAGER DATE 3/11/77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN 1 PLICATE*
(Other Instru on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' Ground

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 type="checkbox"/>
(Other) Weekly Report <input checked="" 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 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.)*

PLEASE HOLD CONFIDENTIAL

- 3/12/77 - Flow testing. FTP 25-75#, variable, avg. volume 25-30 MCF/D.
- 3/13/77 - Flowed to pit for 5 hrs thru 20/64" choke, rec 5 BW, tr oil. Shut well in 18 hrs, SITP 450#. Flowed to pit 2 hrs thru 24/64" choke, rec 3 BW, 1/2 bbl oil.
- 3/14/77 - SI. Prep to RUSU & swab.
- 3/15/77 - SITP 650#. RUSU, RU swab equip. Swabbed & rec 40 BW in 4 hrs. Swabbed down to 3780', turned thru gas separator, flowed thru separator on 16/64" choke for 6 hrs, gas volume 30 MCF/D, decr to TSTM in 6 hrs. FTP 25# decr to zero.
- 3/16/77 - Swabbing.
- 3/17/77 - Swabbing.
- 3/18/77 - Swabbing.

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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 3/18/77

(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
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instruct on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

U-7386

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

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

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PACIFIC TRANSMISSION SUPPLY COMPANY

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633 17th Street, Suite 2140, Denver, Colorado 80202

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43-047-30-230

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5030' Ground

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NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

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

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Swabbed and ran Tracer Survey from 8700-8850' while pumping 2% KCl water @ 1/2 BPM, 850-1350 psi; total of 9 bbls injected w/four units tracer into formation; tracer log indicates all material entered perforated interval and no channeling. Waiting on Orders.

Confidential

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: May 2, 1977

BY: P. H. Ansell

[Handwritten initials]

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

SIGNED [Signature]

TITLE EXPLORATION MANAGER

DATE 3/25/77

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

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Sec. 25, T8S-R23E

12. COUNTY OR PARISH

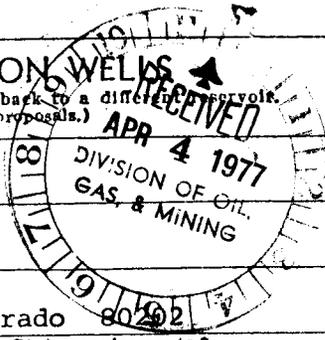
Utah

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.)



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PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR

633 17th Street, Suite 2140, Denver, Colorado

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

NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.

43-047-30-230

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

5030' Ground

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NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

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.)

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PLEASE HOLD CONFIDENTIAL

Waiting on workover rig to attempt completion. Will set CIBP @ 8750'; perforate and test interval 7792-7802'.

APPROVED BY THE DIVISION OF
OIL, GAS AND MINING

DATE: April 3, 1977

BY: PK Ansell

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

SIGNED [Signature]

TITLE EXPLORATION MANAGER

DATE 4/1/77

(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
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-verse side)

Form approved.
Budget Bureau No. 42 R1424.
5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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.)

6. IF INDIAN, ALLEGITE, OR TRIBE NAME

7. UNIT AGREEMENT NAME

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

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TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
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SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			<input checked="" 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 type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)			

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PLEASE HOLD CONFIDENTIAL

4/7/77 - Moved in and Rigged Up service rig. SITP 850#, bled off pressure, strong gas blow, decreasing to weak in 5 min, blowing water w/trace of oil.

4/8/77 - SITP 550#, bled off pressure, removed Xmas tree, installed 5000# BOP equipment. Pulled out of hole 286 joints 2-7/8" tubing with packer, placed one sack of cement on top of cast iron bridge plug at 8750'. Pulled out of hole with tools, rigged down OWP.

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

SIGNED

J. W. Noble

TITLE

EXPLORATION MANAGER

DATE

4/8/77

(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
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

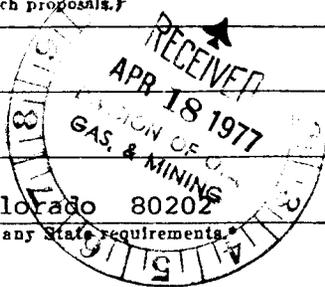
Sec. 25, T8S-R23E

12. COUNTY OR PARISH 13. STATE

Uintah Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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43-047-30-230

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SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

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SHOOT OR ACIDIZE

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REPAIR WELL

CHANGE PLANS

(Other)

(Other)

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

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4/10/77 - Ran cement bond log from 5000'-8000', log indicated fair to good bond thru interval to be perf'd. Perf'd from 7793-780', 2 SPF.

4/11/77 - SI.

4/12/77 - SITP 500#, bled off in 5 min. Rigged up & displaced KCl water w/160 bbls 2% KCl water, set packer @ 7730', pressured annulus to 2000#. Rigged up & acidized thru perfs from 7793-7801' w/1250 gal. 15% HCl @ 4500#; 5 BPM, 1250 gal. regular mud acid @ 4500# @ 5 BPM, 1250 gal. 15% HCl @ 4700# @ 5 BPM, 1250 gal. regular mud acid @ 5000# @ 5 BPM, 1000 gal. 5% HCl @ 5100# @ 5 BPM, flushed 2/45 bbls 2% KCl water @ 5200# @ 5 BPM. All acid & flush contained 800 standard cu. ft. CO₂ per bbl; ISIP 3000#, 15 min SIP 2900#, max. press. 5300#, avg. press. 5100#, final press. 5200#, average injection rate 5 BPM. RU to flow test. 6 P.M. SITP 2700#, flowed 3 hrs on 12/64" choke, 9 hrs on 16/64" choke, recovered approx. 60 BW, FTP decr. to 25# @ 6 A.M.

4/13/77 - Flowed for 6 hrs on 24/64" choke, recovered approx. 15 BW, weak gas blow; FTP decr. from 25 to zero. RU swabbing equip., RIH w/swab, F.L. @ surface. Swabbed & recovered 58 BW in 4 hrs, strong gas blow following swab run.

4/14/77 - Swabbing.

4/15/77 - Swabbing.

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

SIGNED

[Signature]

TITLE

EXPLORATION MANAGER

DATE

4/15/77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Form No. 42 1-1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

12. COUNTY OR PARISH

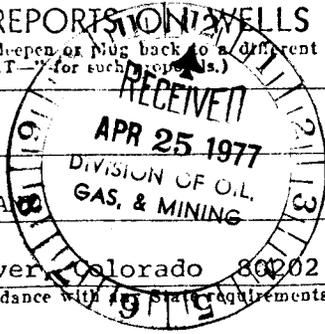
Uintah

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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1. OIL WELL GAS WELL OTHER

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PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements. See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' Ground

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 checked="" type="checkbox"/> Weekly Report	<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.)*

4/16/77 - SITP 200#, bled off, fluid level 7000'. Flow tested 1½ hours, gas volume 6-7 MCFD. Tripped out with tubing and packer, rigged up to perf. Set CIBP at 7750', with one sack cement on top. Perfed from 6800'-6814', 14 shots.

4/17/77 - RIH with retrievable BP and pkr, set BP at 6840', pkr at 6720'. Swabbed 35 bbls water, reran swab in one hour, rec. 2 bbls. water. Weak gas blow. SI.

4/18/77 - Well SI. Shut down for Sunday.

4/19/77 - SITP 25#, fluid level 5700'. Acidized 6800'-6814' with 1500 gallons 7½% BDA and 2% KCl flush, well pressured up to 7000#, released, bled off. Reset retrievable BP at 6870' and pkr at 6690', pressured annulus to 2000#, acidized well with 1500 gallons 7½% BDA, flush with 40 bbls 2% KCl water. Breakdown pressure 2500#, avg. 3100#, max. 3300#, final 3000#, ISI 1800#, 15 min. 1400#, 6.5 BPM rate. Flowed to pit 1 hour, rec. 6 bbls. water. Swabbed, rec. 40 bbls. water, varying gas flow. Reran swab in 1 hour, fluid level 5000', rec. 13 bbls. water, gas blow. Flow tested 13 hours with 1/8" plate, gas rate 18 MCFD, decr. to 6 MCFD.

4/20/77 - Flowing 6 MCFD, swabbed, fluid level 1500', rec. 47 bbls. water. Flow tested 2½ hours, rate 13 MCFD. Swabbed, fluid level 5000', rec. 8 bbls. water, gas rate 8 MCFD. Swabbed, rec. 5 bbls. water, fluid level 5300'. Flowed 14 hours with 1/8" plate, rate 5-6 MCFD.

REPORT CONTINUED ON REVERSE.

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

SIGNED J. J. [Signature] TITLE EXPLORATION MANAGER DATE 4/22/77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

- 4/21/77 - Flow rate 6 MCFD. Swabbed, fluid level 2000', rec. 27 bbls. water, gas rate 5-6 MCFD. Released packer, reset retrievable bridge plug at 6780', reset pkr. at 6655'. Perfed 6755'-6764', 1 shot per foot. Acidized with 1000 gallons 7½% BDA, flushed with 2% KCl water. Breakdown pressure 2500#, average 2800#, max. 3000#, final 2600#, ISI 1700#, 15 min. 1450#, 5 BPM. Flowed for 3/4 hour, rec. 12 bbls. water. Swabbed, rec. 60 bbls. water and acid, had weak gas blow. One hour later, swabbed, fluid level 4300', rec. 11 bbls. water, weak gas blow followed. SI.
- 4/22/77 - SITP 50#, bled off, swabbed, fluid level 1000', rec. 40 bbls. water, gas rate 8.4 MCFD after 2 hours. Swabbed, fluid level 4900', rec. 8 bbls. water, gas rate 7 MCFD after 2 hours. Swabbed, fluid level 5000', rec. 7 bbls. water. Flowed through 1/8" plate for 15 hours, gas rate 8 MCFD, decr. to 5 MCFD. Prep to reset BP and perf.

PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

April 21, 1977

Confidential

Mr. E. W. Guynn
U. S. GEOLOGICAL SURVEY
8426 Federal Building
Salt Lake City, Utah 84116

Mr. C. B. Feight
UTAH GEOLOGICAL & MINERAL SURVEY
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Reference: PTS #23-25 Federal
NE SW Sec. 25-T8S-R23E
Uintah County, Utah
ERDA Contract No. EY-76-C-08-0680

Gentlemen,

We are enclosing herewith your required number of copies of the
GEOLOGICAL WELL COMPLETION REPORT for the above-captioned well.

Very truly yours,

Dee E. Beardsley

DEE E. BEARDSLEY
District Manager

DEB:a
cc: Mr. J. L. Wroble

encl.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PERMIT IN TERRITORIES
(Other Instructions on reverse side)

Budget Bureau No. 42-11424
5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR PACIFIC TRANSMISSION SUPPLY COMPANY</p> <p>3. ADDRESS OF OPERATOR 633 17th Street, Suite 2140, Denver, Colorado 80202</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE SW (1980' FWL, 1983' FSL) Section 25, T8S-R23E, S.L.B. & M.</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME SAND RIDGE II UNIT</p> <p>8. FARM OR LEASE NAME</p> <p>9. WELL NO. PTS #23-25 FEDERAL</p> <p>10. FIELD AND POOL, OR WILDCAT WILDCAT</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 25, T8S-R23E</p>		
<p>14. PERMIT NO. 43-047-30-230</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5030' Ground</p>	<p>12. COUNTY OR PARISH Uintah</p>	<p>13. STATE Utah</p>

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) Weekly Report (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.)*

4/23/77 - Flowing 5 MCFD. Perforated 6755'-6764', fluid level 1000', swabbed, rec. 30 bbls water, very weak gas blow. Reset BP at 6663', reset packer at 6534', perforated 6603'-6624' with 1 shot per foot. SIFN.

4/24/77 - SITP 150#. Acidized perfs 6603'-6624' with 2000 gallons 7½% BDA, flushed with 40 bbls 2% KCl water. Breakdown pressure 2900#, avg. 2500#, max and final 3000#, ISI 1900#, 15 min. 1600#, avg. rate 4 BPM. SITP 1450#, flowed to pit 1 hour with ¼" ck., rec. 25 bbls. water. Swabbed, rec. 58 bbls water with heads of gas. After 1 hour, swabbed, fluid level 4700', rec. 8 bbls water; flowed 1 hour with weak gas blow. SIFN.

4/25/77 - Well SI for Sunday.

4/26/77 - SITP 1000# after 38 hours. Flowed to pit 1 hour with ¼" ck, rec. gas and tr. oil. Gas rate decr. to 19 MCFD. Swabbed, fluid level 1000', rec. 45 bbls water. Flowed 1½ hours, gas rate 7.7 MCFD. Swabbed, fluid level 5000', rec. 6 bbls water. Flowed 1½ hours, gas rate 12 MCFD. Swabbed, fluid level 4800', rec. 4 bbls water. Flowed 1½ hours, gas rate 9.5 MCFD. Swabbed, fluid level 5100', rec. 6 bbls water. Flowed 15 hours with 1/8" orifice plate. Final rate 12 MCFD. Max rate 17.5 MCFD.

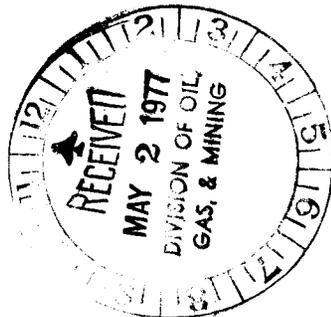
4/27/77 - Flowing 12 MCFD, FTP 25#. Swabbed, fluid level 800', rec. 42 bbls water with trace oil. Flowing 15 MCFD. Reset BP at 6590', packer at 6470. SDFN.

CONTINUED ON REVERSE.

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

SIGNED <u>[Signature]</u>	TITLE <u>EXPLORATION MANAGER</u>	DATE <u>4/29/77</u>	
(This space for Federal or State office use)			
APPROVED BY _____	TITLE _____	DATE _____	
CONDITIONS OF APPROVAL, IF ANY:			

- 4/28/77 - Perforated 6558'-6576' with 1 shot per foot. Acidized with 2000 gallons 7½% BDA. Flushed with 30 bbls 2% KCl water. Breakdown pressure 3000#, max. 3000#, avg. 2800#, final 2600#, ISI 2000#, 15 min. 1500#, avg. rate 5 BPM. SITP 1175#. Flowed to pit with ¼" ck. for 1 hour, rec. 18 bbls water. Swabbed, rec. 70 bbls water. Flow tested 15 hours with 1/8" orifice palte, avg gas rate 7 MCFD with FTP 10#.
- 4/29/77 - Flowing 6 MCFD. Swabbed, fluid level 5000', rec. 46 bbls water, trace oil. Flow tested 2 hours, final volume 12.6 MCFD, FTP 25#. Swabbed, fluid level 4300', rec. 10 bbls water. Flowed 2 hours, rate 16.5 MCFD, FTP 35#, SIFN.



PTS 23-25 Federal
NESW Section 25, T8S, R23E SLM
Sand Ridge II Unit
Uintah County, Utah
Lease No. U-7386

SCHEDULE 37
CORE DESCRIPTION

Core No.

1	7040' - 7055'	Cut and recovered 51'
2	7055' - 7100'	Cut and recovered 45' (full recovery)
3	7430' - 7490'	Cut and recovered 60'
4	7812' - 7835'	Cut and recovered 23'
5	7835' - 7859'	Cut 24', recovered 23'
6	8032' - 8074'	Cut 42', recovered 36'
7	8690' - 8711'	Cut 21', recovered 18'
8	8711' - 8769'	Cut 58', recovered 29'
9	8769' - 8789'	Cut 20', recovered 20'
10	8990' - 9033'	Cut 42', recovered 42'
11	9163' - 9223'	Cut 60', recovered 60'
12	9223' - 9282'	Cut 59', recovered 56'

Confidential

PTS 23-25 Federal
NESW Section 25, T8S, R23E SLM
Sand Ridge II Unit
Uintah County, Utah
Lease No. U-7386

SCHEDULE 31

<u>Perforating</u>	<u>Schedule</u>
8824' - 8832'	16 holes
7793' - 7801'	16 holes
6800' - 6814'	14 holes
6755' - 6764'	9 holes
6603' - 6624'	21 holes
6558' - 6576'	18 holes
6524' - 6536'	12 holes
6438' - 6444'	6 holes
6458' - 6466'	8 holes
5390'	2 holes
5402'	2 holes
5365'	2 holes
5392' - 5399'	7 holes
5154' - 5155'	2 holes
5124' - 5144'	18 holes

*PTS 23-25 Federal
NESW Section 25, T8S, R23E SLM
Sand Ridge II Unit
Uintah County, Utah
Lease No. U-7386*

SCHEDULE 32

Acid Fracture, cement squeeze

- 8824' - 8832' Acidized with 10,000 gal of HCL and mud acid
- 7793' - 7801' Acidized with 6,000 gal of HCL and mud acid
- 6800' - 6814' Acidized with 1500 gal of 7-1/2% BDA (Break Down Acid)
- 6755' - 6764' Acidized with 1,000 gal 7-1/2% BDA
- 6603' - 6624' Acidized with 2,000 gal 7-1/2% BDA
- 6558' - 6576' Acidized with 2,000 gal 7-1/2% BDA
- 6524' - 6536' Acidized with 1,500 gal 7-1/2% BDA
- 6438' - 6444' and 6458' - 6466' Acidized with 1,500 gal of 7-1/2% BDA
- 6438' - 6444' and 6458' - 6466' Squeezed with 75 sacks of Class G cement
- 6458' - 6466' Acidized with 1,000 gal of 7-1/2% BDA
- 6438' - 6466' Re-acidized with 1,000 gal of 7-1/2% BDA
- 6438' - 6466' Squeezed with 75 sacks of Class G cement
- 5390' - 5402' Squeezed with 150 sacks of Class G cement plus additional 75 sacks of Class G cement
- 5365' Squeezed with 150 sacks and re-squeezed with 100 sacks Class G cement
- 5392' - 5399' Acidized with 1,000 gal 7-1/2% BDA
- 5392' - 5399' Squeezed with 50 sacks of Class G cement
- 5143' - 5144' and 5154' - 5155' Squeezed with 150 sacks Class G cement
- 5124' - 5144' Acidized with 2,000 gal of 7-1/2% BDA

SCHEDULE 37
DRILLSTEM TESTS

DST #1, 5121-5248'

Open tool at 7:15 A.M. 11-24-76. Initial open 15 minutes, gas to surface in 2 minutes; at 5 minutes, 61#, 883 MCF and building; initial shut-in 60 minutes. Final open 180 minutes, gas to surface immediately; final shut-in 180 minutes.

Recovered 420 feet heavy gas-cut mud, 90 feet muddy water (gas cut). Sample chamber contained trace of water, 4.2 cubic feet of gas at 85#; bottom hole temperature 141 degrees F.

Pressures: IH 2434 psi
IF 176-209 psi
ISI 2402 psi
FH 2423 psi
FF 308-330 psi
FSIP 2328 psi

Flow Rates: 5 minutes 756 MCF
15 " 883 MCF
30 " 1313 MCF
45 " 1450 MCF
60 " 1464 MCF
75 " 1595 MCF
90 " 1551 MCF
Steady through end of test

DSI #2, 6560-6812'

Initial open with weak blow, increasing to strong blow off bottom of bucket in 5 minutes, steadily increasing through flow period, no gas to surface. Final open with strong blow off bottom of bucket, gas to surface in 10 minutes into flow period.

Recovered 460 feet of gas-cut drilling mud. Sample chamber contained 1800 cc of gas-cut drilling mud with slight scum of paraffin, and gas at 125 psig.

Pressures: IH 3274 psi
FH 3235 psi
IFP 191-179 psi (15 minutes)
FFP 191-217 psi (60 minutes)
ISIP 1361 psi (60 minutes)
FSIP 2632 psi (255 minutes)
BHT 156 degrees F.

DST #2, 6560-6812' (continued)

Flow rates for final flow period: (3/8" surface choke)

10 minutes	36.3 MCF/D
15 "	27.0 MCF/D
20 "	19.0 MCF/D
25 "	9.45 MCF/D
30 "	7.98 MCF/D
35 "	7.58 MCF/D
40 "	7.58 MCF/D
45 "	7.58 MCF/D
50 "	7.14 MCF/D
55 "	7.14 MCF/D
60 "	7.14 MCF/D

DST #3, 6790-7040', misrun - packer would not hold, probable wash-out.

DST #4, 6819-7040' (10' strap correction)

10-15", weak blow to strong blow after 10 minutes; initial shut-in 60 minutes, final open 120 minutes with strong blow, gas to surface in 80 minutes - too small to measure, final shut-in 265 minutes.

Recovered 375' mud; no sample recovery (lost recovery); bottom hole temperature 180 degrees F.

At 6834' -

IH	3345 psi
IF	74-200 psi
ISI	1017 psi
FF	173-198 psi
FSI	2290 psi
FH	3269 psi

At 6840' -

IH	3293 psi
IF	75-176 psi
ISI	1010 psi
FF	151-176 psi
FSI	2201 psi
FH	3122 psi

DST #5, 7030-7260'

Initial open 18 minutes, open with fair blow, 6 inches below H₂O in 18 minutes, initial shut-in 60 minutes, final open 91 minutes, strong blow off bottom of bucket in 2 minutes and continued through end of test, final shut-in 240 minutes. No gas to surface.

DST #5, 7030-7260' (continued)

Recovered 330' mud; sample chamber recovered 3000 cc mud (no pressure).

Pressures:	IH	3284 psi
	FH	3485 psi
	IF	67-47 psi
	ISI	112 psi
	FF	90-90 psi
	FSI	338 psi

DST #6, 7250-7490', misrun - packer failed.

DST #7, 7282-7550'

10-15 minutes weak blow building to strong blow bottom of bucket in 7 minutes, initial shut-in 60 minutes, final open 90 minutes, strong blow, gas to surface in seven minutes, final shut-in 250 minutes.

Flow rates (1/2" orifice):

7 minutes	78.1 MCF/D
10 "	59.2 MCF/D
15 "	33.9 MCF/D
20 "	16.0 MCF/D
25 "	10.0 MCF/D

Dead in 30 minutes

Pressures:	IH	3687 psi
	IF	205-217 psi
	ISI	702 psi
	FF	153-191 psi
	FSI	995 psi
	FH	3687 psi

Sample chamber recovered 750 cc gas-cut mud, .5 cubic feet gas at 125 psi; bottom hole temperature 110 degrees F.

DST #8, 7528-7812' - misrun

DST #9, 7598-7812' - misrun

DST #10, 7879-8032' - misrun, hole in drill pipe (lost 18 barrels mud before set packer and gained 20,000# on weight indicator)

DST #10, 7879-8032' (continued)

Initial open 10 minutes, opened off bottom throughout, initial shut-in 60 minutes; final open 60 minutes, opened off bottom, increasing, final shut-in 90 minutes; no gas to surface. Recovered 4013'. Sample chamber recovery 100 cc mud at 500#, bottom hole temperature 177 degrees F..

Pressures:	IH	3906 psi
	IF	1929-1929 psi
	ISI	3829 psi
	FF	1954-1967 psi
	FSI	3868 psi
	FH	3906 psi

DST #11, 7954-8032'

Initial open 10 minutes, opened with one inch blow and slowly increased to 2 inches at end, initial shut-in 60 minutes, final open 60 minutes, opened with surface blow, increasing to bottom in 2 minutes and stayed throughout test, final shut-in 240 minutes, no gas to surface. Recovered 420' mud. No sample chamber recovery.

Pressures:	IH	3945 psi
	IF	Plug-Plug
	ISI	1133 psi
	FF	178-242 psi
	FSI	497 psi
	FH	3919

DST #12, 8084-8341'

Initial open 15 minutes, 3 inch blow to bottom of bucket in 5 minutes and remaining (7:55); initial shut-in 60 minutes (8:10-9:10); final open 120 minutes, open off bottom, gas to surface in 115 minutes into test (9:10-11:10); final shut-in 360 minutes (11:10-5:10). Gas to surface in 115 minutes into test.

Flow rate: 115 minutes, 1/2" choke, 1# at 33.9 MCF
 120 minutes, 1/2" choke, 1# at 33.9 MCF

Recovered 315' gas-cut mud. Sample chamber recovered 2100 cc gas-cut mud at 75#; bottom hole temperature 178 degrees F.

Pressures:	IH	4104 psi
	IF	165-165 psi
	ISI	435 psi
	FF	165-165 psi
	FSI	765 psi
	FH	4075 psi

DST #13, 8330-8567'

Initial open 15 minutes, open 3 inch blow increasing to bottom of bucket in 15 minutes, initial shut-in 60 minutes; final open 120 minutes, open in bottom of bucket and remained, final shut-in 360 minutes; no gas to surface. Recovered 540' slightly gas-cut mud. Sample chamber recovery 1100 cc slightly gas-cut mud at 50#; bottom hole temperature - misrun, thermometer broke.

Pressures: IH 4205 psi
IF 318-255 psi
ISI 395 psi
FF 306-280 psi
FSI 510 psi
FH 4179 psi

DST #14, 8578-8789'

Initial open with very weak blow increasing to strong blow off bottom of bucket in 15 minutes. Final open with very weak blow increasing to blow off bottom of bucket in 2 minutes, steady throughout remainder of flow period.

No gas to surface; recovered 210' very slightly gas-cut drilling fluid. Sample chamber contained 1000 cc of mud and 0.12 cubic feet gas at 55 psig.

Pressures: IH 4403 psi
FH 4387 psi
IFP 230-164 psi (15 minutes)
FFP 164-166 psi (120 minutes)
ISIP 246 psi (60 minutes)
FSIP 353 psi (480 minutes)
BHT 142 degrees F.

DST #15, 8772-8950'

Initial open with good blow off bottom of bucket immediately; gas to surface in 2 minutes. Final flow, strong, steady flow stabilizing in 20 minutes.

Pressures: IH 4684 psi
FH 4668 psi
IFP 411-378 psi (15 minutes)
FFP 427-657 psi (90 minutes)
ISIP 4340 psi (60 minutes)
FSIP 4856 psi (240 minutes)
BHT 144 degrees F.

DST #15, 8772-8950' (continued)

Flow rates as follows:

3/4" choke	15 minutes	246 MCF
3/4" choke	30 minutes	260 MCF
3/4" choke	45 minutes	260 MCF
3/4" choke	60 minutes	260 MCF
3/4" choke	90 minutes	260 MCF

Recovered 450' of highly gas-cut mud and 1000' of very heavily gas-cut water. Sample chamber contained 1100 cc of water, a trace of mud, and 4.15 cubic feet gas at 250 psig.

DST #16, 8934-9163' - Misrun, packer failed.

DST #17, 8956-9163'

Initial open 15 minutes with weak blow, increasing to bottom of bucket in 8 minutes and remained, initial shut-in period 60 minutes; final open 90 minutes with weak blow, increasing to 6 inches in two minutes, steady for 45 minutes, then decreased to 3 inches at end, final shut-in 240 minutes; no gas to surface, recovered 120' mud. Sample chamber contained 1500 cc mud at 144 degrees and 25#.

Pressures:	IH	4975 psi
	IF	117-94 psi
	ISI	389 psi
	FF	94-106 psi
	FSI	400 psi
	FH	4962 psi

DST #18, 8916-8956'

Initial flow had fair to good blow off bottom of bucket at 45 seconds into flow period. Second flow opened with fair to good blow off bottom of bucket at 30 seconds into flow period. Flow pressure was 18 ounces at 2 minutes, 15 ounces at 2 minutes, 15 ounces at 15 minutes, 11 ounces at 45 minutes, 9 ounces at 60 minutes. Lost packer seat at 75 minutes of second flow period. No gas to surface.

Recovered 3700' of fluid; 270' of drilling mud and 3430' of heavy gas-cut drilling mud. Sample chamber contained 400 cc of drilling mud. Top packer at 8912-8916' had fracture impressions on it, ranging in length from 4 inches to over 12 inches. Fractures appeared to be vertical.

Nitrate verification:	Mud:	100 ppm
	Top of fluid recovery:	95-100 ppm
	Bottom of fluid recovery:	95-100 ppm

Chloride verification:	Mud:	90,000 ppm
	Top of fluid recovery:	80,000 ppm
	Bottom of fluid recovery:	90,000 ppm

DST #18, 8916-8956' (continued)

Pressures:	IH	5002 psi	
	FH	4951 psi	
	IFP	102-102 psi	(15 minutes)
	FFP	102-127 psi	(75 minutes)
	ISIP	3008 psi	(60 minutes)
	FSIP	--	
	BHT	--	

DST #19, 8924-8965'

Initial flow opened with weak blow at 1", increasing to bottom of bucket at end of flow. Second flow opened with fair blow at 6", increasing to strong blow off bottom of bucket in 30 seconds, remaining until end of flow period. No gas to surface.

Recovered 380 feet of fluid: 80' of gas-cut drilling mud, 200' gas-cut, water-cut drilling mud, and 100' of gas-cut water. Sample chamber contained 1500 cc of water and 0.1 cubic feet gas at 110 psig.

Nitrate verification:	Mud:	100 ppm
	Top of fluid recovery:	90-100 ppm
	Middle of fluid recovery:	90-100 ppm
	Bottom of fluid recovery:	20 ppm

Sample Chamber:	15 ppm
-----------------	--------

Chloride verification:	Mud	75,000 ppm
	Top of fluid recovery:	77,000 ppm
	Middle of fluid recovery:	75,000 ppm
	Bottom of fluid recovery:	40,000 ppm

Sample Chamber:	40,000 ppm
-----------------	------------

Pressures:	IH	4818 psi	
	FH	4818 psi	
	IFP	140-140 psi	(15 minutes)
	FFP	102-217 psi	(210 minutes)
	ISIP	612 psi	(60 minutes)
	FSIP	3907 psi	(300 minutes)
	BHT	163 degrees F.	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROJECT DESIGNATION AND LEASE NO.

U-7386

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' Ground

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)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

Weekly report

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.)*

4/30/77 - SITP 750#, 14 hrs. SI. Bled off, swabbed, fluid level 2000', rec. 24 bbls. Reset BP at 6545', and reset packer at 6470'. Perforated 6524'-6536' with 12 shots. Acidized with 1500 gallons BDA, 2% KCl water. Breakdown and max. pressures 2500#, avg and final pressures 2100#, ISI 1500#, 15 min. 1200#; avg. rate 4 BPM. SITP 775#, flowed to pit, rec. 8 bbls water. Swabbed, fluid at surface, rec. 50 bbls water and acid. Installed flow prover, flow tested for 15 hours, final volume 17 MCFD.

5/1/77 - Flowing 17 MCFD. Swabbed, fluid level 500', rec. 33 bbls water. Flow tested 2 hours, final volume 16 MCFD, FTP 33#. Swabbed, fluid level 5200', rec. 5 bbls. Flow tested 2 hours, final 16.5 MCFD, FTP 35#. SI.

5/2/77 - SI.

5/3/77 - SITP 700#, 39 hours SI. Bled off, swabbed, fluid level 1500', rec. 30 bbls water with trace oil, flow tested 2 hours, final volume 15 MCFD. Swabbed, fluid level 5000', rec. 5 bbls. Flowed 1 hour, final volume 13.5 MCFD. Swabbed fluid level 5400', rec. 3 bbls water. Reset BP at 6502', reset packer at 6414; Perfed from 6438'-6444' with 6 shots and from 6458'-6466' with 8 shots. SI.

5/4/77 - Acidized perfs 6438'-44' and 6458'-66'. SITP 500#. Acidized with 1500 gallons 7½% BDA, flushed with 2% KCl. Breakdown pressure 3200#, avg. 2800#, final 2600 ISI 1600#, 15 min. 1200#, avg. rate 5 BPM. Flowed to pit 15 min and rec. 6 bbl water. Swabbed, rec. 75 bbls water and acid, good gas blows. Flow tested for ½ hour with 1/4" orifice, volume 56 MCFD, incr to 75 MCFD, FTP 40#. Swabbed,

CONTINUED ON REVERSE

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

SIGNED [Signature]

TITLE EXPLORATION MANAGER

DATE 5/6/77

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

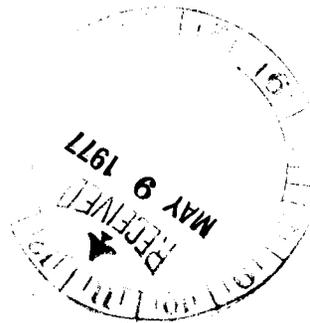
TITLE _____

DATE _____

*See Instructions on Reverse Side

fluid level 4600', rec. 8 bbls gas-cut water. Flow tested 15 hours with 1/4" orifice plate, 70 MCFD rate incr to 138 MCFD.

- 5/5/77 - Well flowing 104-138 MCFD, unloaded heads of water with trace oil. Flowed to pit 1 hour on 1" ck, rec. 4 bbls water. Swabbed, fluid level 1000', rec. 31 bbls water. Rate following 82 MCFD. Flowed through separator 16 hours with 20/64" ck, 62 MCFD and FTP 140#, separator 35#, first 6 hours. After 10 hours 80 MCF, FTP 225#, separator 85#. Flowed 5 bbls water and 1 bbl oil in 10 hours.
- 5/6/77 - Flowing through separator on 20/64" ck, FTP 225#, separator 85#. Flowed to pit with 1" ck for 1 hour, rec. 2 bbls water. Swabbed, fluid level 2000', rec. 29 bbls water. Flowed 4 hours through separator on 24/64" ck, FTP 35#, separator 25#, avg rate 64 MCFD. Swabbed, fluid level 4500', rec. 12 bbls water (88 bbls over load water). Reset BP at 6450' and packer at 6414' to test from 6438'-6444'. Swabbed, rec. 32 bbls water, flowed through separator for 14 hours with 24/64" ck, avg FTP 75#, avg. separator 25#. 48 MCFD avg first 7 hours. Started to unload water and oil, avg. rate 72 MCFD. Rec. 1 bbl oil and 7 bbls water. 7:00 AM 5/6/77 - Flowing through separator, FTP 85#, separator 35#, gas volume 68 MCFD. Flowing to pit on 1" ck.



CONFIDENTIAL

SONDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.
U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.
PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E

12. COUNTY OR PARISH
Uintah

18. STATE
Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements. See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether surface or other)
5030' Ground

MAY 16 1977
GEOLOGICAL SURVEY & MINERAL RESOURCES DEPARTMENT
CONFIDENTIAL

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) Weekly Report

(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.)*

5/7/77 - 7:00 AM 5/6: flowing through separator at 68 MCFD, FTP 85#, separator 35#, rec. 3 bbls water. Swabbed, fluid level 1000', rec. 32 bbls water. Flowed through separator 2 hrs. on 24/64" ck., FTP 35#, separator 25#, gas rate 48 MCFD. Swabbed, fluid level 5500', rec. 5 bbls water. Flowed through separator 19 hours on 24/64" ck. Avg. FTP 40#, avg. separator 25#, avg. gas rate 72 MCFD. Unloading water and trace oil periodically.

5/8/77 - Flowed through separator 5 hours on 24/64" ck. Avg. FTP 40#, separator 30#, avg. gas rate 72 MCFD. Rigged up, checked tubing with gauge ring, RIH with bottom hole pressure bomb with 72 hour clock to 6441'. Perfs at 6838'-6844'. SI.

5/9/77 - SI for BHP survey.

5/10/77 - SI for BHP survey.

5/11/77 - SITP 1659# after 72 hours. BHP 2541# after 72 hours. Ran static pressure survey. SI.

5/12/77 - SITP 1693# after 90 hours. Flowed to pit 1 hour on 1/4" ck. FTP decr to 250#. Flowed through separator for 23 hours on 24/64" ck. Initial FTP 125#, decr to 50#, unloading water with trace of oil after 3 hour flow. Initial water rate 2 BPH, decr to 1 BPH. Gas volume initially 74 MCFD, decr to 36 MCFD. Avg. gas rate for 23 hours 54 MCFD.

5/13/77 - Flowed through separator 2 hours, FTP 50#, gas rate 36 MCFD, water 1/4 BPH. Swabbed, fluid level 1000', rec. 25 bbls water. Flowed to pit 1 hour, FTP 25#, gas rate 53 MCFD. Rigged down swab equipment, rigged up tubing tools, released packer, lowered tubing to retrieve BP. POOH. Did not retrieve BP. SIFN.

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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 5/13/77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instruct on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

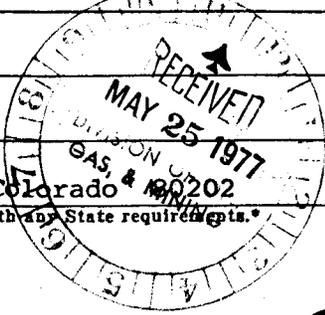
2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements.
See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' Ground



CONFIDENTIAL

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other) Weekly Report

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

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.)

- 5/14/77 - Retrieved BP, reset at 6502', set packer at 6414'. RU to swab, swabbed to packer, rec. 40 bbls load water. RD swab, RU to test, flowed through separator 15 hours on 16/64" ck. Avg. FTP 75#, separator 60#, avg. gas volume 42 MCFD, unloaded water and trace oil after 5 hours, 1/4 BPH.
- 5/15/77 - Flow tested 24 hours on 24/64" ck, avg FTP 50#, separator 35#. 8-4 PM 5/14 made 32 MCFD rate, 4-5:00 PM made 148 MCFD rate, with heads of water and gas, decr to 45 MCFD rate, 5-11 PM made 45 MCFD rate, FTP 45#, 11:00 PM to 4:00 AM 5/15 made 20 MCFD rate, FTP 35#, separator 35#.
- 5/16/77 - Flow tested 24 hours on 24/64" ck, avg. FTP 35#, separator 25#, gas 20 MCFD rate, incr to 32 MCFD rate in 14 hours, decr to 14 MCFD rate and remained steady. No fluid.
- 5/17/77 - Flow tested perfs 6438-44' and 6458-66' 24 hours through separator. FTP 25#, 14 MCFD rate gas decr to TSTM and FTP 10# in 16 hours. Prep to run tracer survey.
- 5/18/77 - FTP 10#, very weak blow. RU tubing tools, released packer, reset BP at 6515' and packer at 6355'. Ran tracer survey while pumping 2% KCl at 1/2-3/4 BPM, 1000-1400 psi. Injecting tracer material at perfs. Survey indicated channel from lower perfs down and some channeling between perfs. SI, prep to squeeze.
- 5/19/77 - RU, Released packer, pumped and spotted 2 sx 20/40 sand on BP, reset packer at 6355', pressured to 2000#, squeeze cemented through perfs at 6438-44' and 6458-66' with 75 sx Class "G" with .5% D-60. Displaced and staged 15 bbls 16.2#/gal. cement slurry with water. Final squeeze pressure 3000#. Released, released packer, and reverse circulated tubing. No excess cement. POOH 4 stands tubing, reset packer at 6110', pressured to 2000# SI, WOC

CONTINUED ON REVERSE.

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

SIGNED

[Signature]

TITLE

EXPLORATION MANAGER

DATE

5/20/77

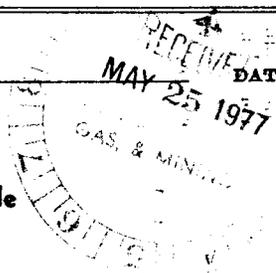
(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



*See Instructions on Reverse Side

5/20/77 - Released packer and POOH with tubing and packer, RIH with tubing, casing scraper, and 4-5/8" bit. RU drilling equipment, drilled and circulated cement from 6376'-6488'. Circulated hole clean. Shut down for night. Prep to pressure test squeeze job.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

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
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
5030' Ground

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other) Weekly report

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(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.)*

- 5/21/77 - Drilled out and circulated cement 6488'-6495'. On BP at 6515'. Circulated hole clean, rigged up and pressure tested squeeze to 4000# for 15 minutes. Held OK. Rigged down, POOH with tubing, scraper and bit, RIH with tubing and packer. Set packer at 6380'.
- 5/22/77 - Shut down for weekend.
- 5/23/77 - Shut down for weekend. Prep to perf and acidize.
- 5/24/77 - Rigged up, perforated 6458-66' with 1 SPF. POOH with tools, rigged down, prep to acidize. Acidized with 1000 gallons 7-1/2% BDA, flushed with 2% KCl. BD pressure 3500#, avg. pressure 2600#, final 2300#, ISI 2000#, 15 min. 1700#, AIR 2 BPM. Rigged down, rigged up to flow test. SITP 1000# in 1 hour. Flowed to pit on 1/4" ck 2 hours, rec. 10 bbls water, rigged up to swab, fluid level at surface, swabbed to packer, rec. 42 bbls water. Flow tested 1 hour through flow prover, gas volume 12 MCFD rate. RIH with swab, fluid level 5500'. Swabbed to packer, rec. 4 bbls water. Flow tested 14 hours, gas volume 20 MCFD, decr to 6 MCFD.
- 5/25/77 - Flowing at 6 MCFD rate. Swabbed, fluid level 3200', rec. 20 bbls water. Flowed 3 hours 10 MCFD rate. Swabbed, fluid level 5500', rec. 3.5 bbls water. Flowed 3 hours, 10-12 MCFD rate. Swabbed, fluid level 5700', rec 2.5 bbls water, flow tested 15 hours, 10 MCFD rate, incr to 17 MCFD rate. 21 bbls load to recover. RIH, fluid level 4800'.
- 5/26/77 - Flow testing, 17 MCFD rate. RIH with swab, fluid level 4800', swabbed 9 bbls water. Flowed 3 hours on 1/8" plate, gas at 11 MCFD rate, incr to 19 MCFD rate and steady. FTP 42#. Rigged up to pull tubing, released packer, POOH with 207 joints tubing and packer. SI for night.

CONTINUED ON REVERSE.

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

SIGNED

J. H. Woble

TITLE

EXPLORATION MANAGER

DATE

5/27/77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

5/27/77 -

RIH with tubing, BP and packer, set BP @ 6450', set packer @ 6382'. Rigged up and perforated 6438-44' with 1 SPF. POOH, displaced tubing with 2% KCl, pressured backside to 2000#, acidized with 1000 gallons 7-1/2% BDA, flushed with KCl water. BD pressure 2100# with 2 BPM, max. 2900#, avg. 2700#, final 2500#, ISI 1600#, 15 minutes 1100#, AIR 4 BPM. Rigged up to flow back. SITP 550# in 30 minutes. Bled off through 1/4" choke for 15 min and rec. 4 bbls water. Released packer, lowered tubing, and reset BP at 6495'. Rigged up to swab, swabbed to packer, rec. 42 bbls water, 58 bbls load to recover. Flow tested 14 hours, avg. gas volume 17 MCFD, FTP 36# through 1/8" orifice plate.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR

633 17th Street, Suite 2140, Denver, Colorado 80262

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

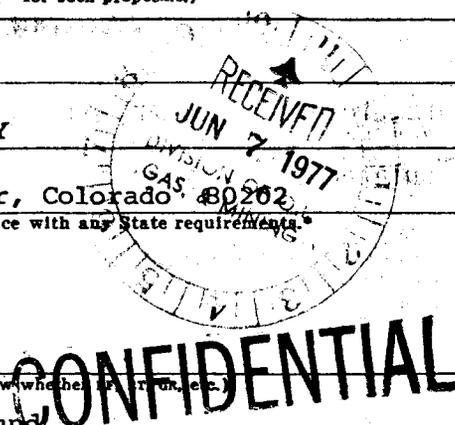
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO.

43-047-30-230

15. ELEVATIONS (Show whether at top or bottom of well, etc.)

5030' Ground



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)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

(Other)

Weekly Report

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.)*

- 5/28/77 - Flowed 1 hour on prover, FTP 36#, 17 MCF rate. RIH with swab, fluid level 1200', rec. 31 bbls water. Flowed 2-1/2 hours, gas rate 10 MCF, incr to 32 MCF rate, FTP 80#. Swabbed, fluid level 5200', rec. 5 bbls water, flowed 2-1/2 hours, gas rate 11 MCF, incr to 36 MCF rate, FTP 84#. Swabbed, fluid level 5600', rec. 3 bbls water, 19 bbls load to recover. Flowed 16 hours on 1/4" plate, average rate 48 MCF, FTP 20#.
- 5/29/77 - Flow testing, 46 MCF rate. Swabbed, fluid level 2000', rec. 24 bbls water. Flowed 2 hrs gas rate 41 MCFD (1/8" plate, 105# FTP). Swabbed, fluid level 5900', rec. 1 bbl water, flowed 2 hours, gas rate 39 MCF, FTP 100#. Swabbed, fluid level 6000'. Rec. 1 bbl water. Flowed 16 hours, 1/4" plate, FTP 22#, gas rate 49 MCF, rec. load plus 7 bbls water.
- 5/30/77 - Flowed 24 hours on 1/4" plate, average gas rate 48 MCFD, FTP 25#, no fluid.
- 5/31/77 - Flow tested through separator 24 hours on 16/64" ck, Avg. FTP 35#, avg. gas rate 42 MCFD. Flowed to pit for 1/2 hour, unloaded water with trace oil; strong heads of gas. Rec. 4 bbls water. RIH with swab, fluid level 1700', swabbing gas cut water.
- 5/1/77 - Flowing 39 MCF. Flowed to pit 1/2 hour, rec. 4 bbls water, trace oil, strong heads gas. Swabbed, fluid level 1700', rec. 20 bbls GC water. Flowed through separator 1-1/2 hours, on 24/64" ck, avg. gas rate 46 MCF, FTP 25#. Rigged down swab, rigged up tubing tools, released packer, retrieved BP and reset BP at 6450', packer at 6320'. SI, prep to squeeze.
- 5/2/77 - Rigged up for squeeze, released packer and spotted 1 sack 20/40 sand on BP, reset packer at 6320', pressured annulus to 2000#. Squeezed through perfs at 6438'-6444' with 75 sx Class "G", displaced and staged 15.8#/gallon cement slurry with fresh water. Final pressure 4000#. Reverse circulated tubing, no excess. POOH with 6 stands, reset packer at 5950', pressured to 2000# & SI. WOC.

CONTINUED ON REVERSE

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

SIGNED

J. D. Wadley

TITLE

EXPLORATION MANAGER

DATE

6/3/77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

6/3/77 - Bled off pressure, released packer, and POOH with tubing and packer. RIH with tubing, scraper and 4-5/8" bit, tagged cement at 6315'. Picked up drilling equipment, drilled and circulated firm cement from 6315'-6355', circulated hole clean. SDFN.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved,
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.
PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT
WILDCAT

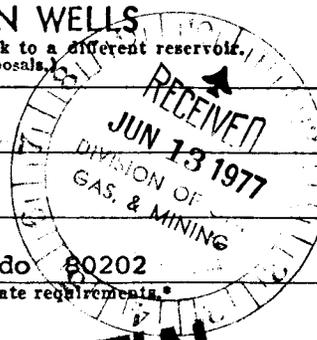
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E

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
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. &

14. PERMIT NO.
43-047-30-230

15. ELEVATION (Show whether DF, RT, GR, etc.)
5030' Ground

CONFIDENTIAL

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) _____	
(Other) <u>Weekly report</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.)*

5/4/77 - Drilled and circulated out cement 6355'-6400'. Rig repairs overnight.

5/5/77 - Drilled and circulated out cement 6400'-6444'. Ran in hole with tubing and circulated sand off bridge plug. Rigged down drilling equipment.

5/6/77 - Shut down for Sunday. Prep to acidize.

5/7/77 - POOH with tubing, scraper and bit, RIH with tubing and packer. Set packer at 6350'. RI to test, pressured annulus to 2000#, pressure tested squeeze to 4000#, 15 minutes, held OK. Rigged down, rigged up to perforate. Perfed 6438'-6444' with 1 SPF. Rigged down, rigged up to acidize. Acidized with 1000 gallons 7-1/2% BDA, displaced with KCl, over displaced with 5 bbls KCl. BD pressure 3200#, maximum 4000#, final 2500#, ISI 2200#, after 15 minutes 1800#, AIR 2-1/2 BPM. SI and rig down.

5/8/77 - SITP 450#. Flowed to pit 1 hour on 1/4" ck, rec. 3 bbls fluid. Swabbed, rec. 38' bbls water. Flowed 3 hours on prover, gas volume 38 MCFD, FTP 35#. Swabbed, fluid level 4000', rec. 12 bbls water. Flow through separator 15 hours, average gas volume 32 MCFD, FTP 25#.

5/9/77 - Flow testing, FTP 5#, gas rate 24 MCFD. Swabbed, fluid level 5000', rec. 7 bbls water. Flowed 3 hours, gas rate 24 MCF, decr to 14 MCFD. Swabbed, fluid level at packer, flowed 3 hours, average volume 12 MCFD. Swabbed, no fluid, flowed through 1/8" plate 16 hours. FTP 22#, decr to 15#, gas rate 12 MCFD, decr to 9.5 MCFD.

5/10/77 - Flow testing, 6438'-6444' at 9.5 MCFD, FTP 15#. Swabbed, fluid level 5400', rec. 5 bbls. Flow tested 2 hours, gas volume 10 MCFD, RIH and swabbed, no fluid. Flow tested 1 hour, gas volume 10 MCFD rate. RD swab, RI tubing tools, retrieved BP. POOH with tubing, packer and BP, laid down BP. SDFN at 2:00 PM.

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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 6/10/77

(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
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-verse side)

Form approved,
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

7. UNIT AGREEMENT NAME
SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO.
PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT
WILDCAT

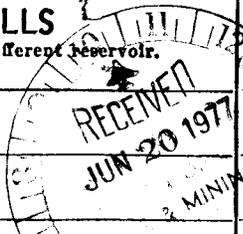
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' Ground

12. COUNTY OR PARISH
Uintah

18. STATE
Utah



CONFIDENTIAL

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 type="checkbox"/>
(Other) <input checked="" type="checkbox"/> Weekly Report	

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 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.)*

- 5/11/77 - RIH with tubing and retrievable head, RU service unit. Circulated 3' BP at 6515', circulated hole clean. Attempted to free bridge plug unsuccessfully, POOH with 20 stands, SI.
- 5/12/77 - POOH with tubing and retrievable head, RIH with tubing and cement retainer, set at 6345'. RU service unit, pressured to 2000#, mixed 50 sx Class "G" cement and squeezed through retainer. Displaced with fresh water, final pressure 3000# at 2 BPM. Pulled stinger out of retainer, reversed out tubing and had no excess cement. RU service unit, POOH with 38 joints tubing and laid down. POOH with remainder of tubing and stinger. SD for Sunday.
- 5/13/77 - WOC, shut down for Sunday. Prep to block squeeze Wasatch sand from 5390'-5402'.
- 5/14/77 - RU and ran GRC log, RD and RIH with tubing and packer, set at 5300'. RU service unit, perforated squeeze holes at 5390' and 5402', RD service unit, SI, prep to squeeze.
- 5/15/77 - Perfs: 6390' and 6402'. RU service unit, pressured to 1500#, established pump rate of 2 BPM at 2600#, mixed and spotted 150 sx. Class "G" slurry, displaced with fresh water. Final squeeze pressure 4000#. Released pressure and reversed, circulated 40 bbls water, No excess cement. POOH with 4 stands, reset packer at 6050', pressured to 2000# and SI.
- 5/16/77 - POOH with tubing and packer, RIH with tubing and casing scraper and 4-5/8" bit. Circulated and drilled hard cement from 5300'-5380'. Circulated hole clean, SDFN.
- 5/17/77 - Drilled and circulated cement 5380'-5400', circulated hole clean. RD drilling equipment, RU service unit, tested squeeze, started pumping water, formation taking fluid at 3250#. Established rate of 2 BPM at 4000#. RD service unit, POOH with tubing, scraper and bit. RIH with tubing and packer, set at 6300'. RU service unit, mixed and spotted in tubing 75 sx. Class "G" cement. Pressured annulus to 1500#, displaced slurry with fresh water, final squeeze pressure 4500#. Released, reversed, no excess cement. POOH 4 stands, OVER

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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 6/17/77

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

6/17/77 - CONTINUED

reset packer at 6050', pressured to 2000#. SI: WOC.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instruct on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR

633 17th Street, Suite 2140, Denver, Colorado 80202

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

NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

9. WELL NO.

PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 25, T8S-R23E

14. PERMIT NO.

43-047-30-230

15. ELEVATIONS (Show whether surface, CR, etc.)

5030' Ground

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

CONFIDENTIAL

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other) Weekly Report

(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.)*

- 6/18/77 - POOH with tubing and packer, laid down packer. RIH with tubing, scraper and 4-5/8" bit. Tagged cement at 5320', not yet hardened. SI-WOC.
- 6/19/77 - Drilled and circulated cement 5370'-5402', circulated hole clean to 5421'. Pulled 4 joint tubing, RD drilling equipment, SI. WOC.
- 6/20/77 - Well SI. Rig shut down for Sunday. Prep to pressure test squeeze.
- 6/21/77 - RU and pressure tested squeeze to 4000# for 15 minutes. Held ok, RD and POOH with tubing scraper and bit. RIH with cast iron BP, set at 5450', POOH with tools, ran cement bond log 5450'-5000'. Top of bond at 5370'. RIH with tubing and packer, set at 300', rigged up and perforated 2 shots at 5365', rigged down and SI. Prep to squeeze.
- 6/22/77 - RU, pressured annulus to 1000#, pumped into well at 2 BPM at 1200#, bled off pressure and released packer, spotted slurry in tubing and reset packer. Cemented with 150 sx Class "G" and SI. WOC.
- 6/23/77 - Squeezed perfs at 5365', bled off well pressure, released packer, POOH with tubing and packer, RIH with tubing, scraper and bit. Top of cement 5345'. Drilled and circulated cement 5345'-5365', lowered tubing to 5420', circulated clean. PU and laid down 4 joints. Shut well in, WOC. Pressure tested squeeze; did not hold. Will have to re-squeeze.
- 6/24/77 - Rigged down after pressure test, POOH with tubing, scraper and bit, RIH with tubing and packer, set at 5175'. Pumped into tubing at 2-1/2 BPM at 2200#, would not circulate thru intermediate casing. Released packer, mixed and spotted 100 sx Class "G" slurry, reset packer, pressured to 1000#, displaced slurry with fresh water. Final pressure 4500#, released, reverse circulated, no excess cement. POOH with 2 stands, reset packer at 5055', pressure tested to 2000#, SI. WOC.

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

SIGNED

J. Subley

TITLE

EXPLORATION MANAGER

DATE

June 24, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE
LEASE NUMBER U-7386
UNIT SAND RIDGE II UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

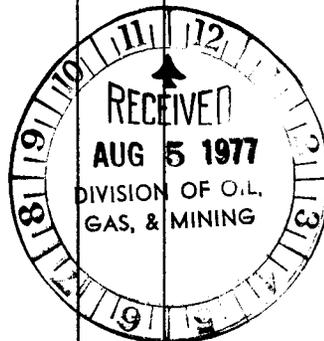
State UTAH County UINTAH Field WILDCAT

The following is a correct report of operations and production (including drilling and producing wells) for the month of JUNE, 19 77,

Agent's address 633 17th Street, Suite 2140 Company PACIFIC TRANSMISSION SUPPLY CO.
Denver, Colorado 80202

Phone (303) 571-1662 Signed JACK L. WROBLE
Agent's title EXPLORATION MANAGER

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 25	8S	23E	23-25	--	--	--	--	--	--	Squeezed thru perfs @ 6438-44' w/75 sx Class "G" cement. Reperf'd 6438-44' w/1 SPF, acidized w/1000 gal. Flow-tested, 10 MCFGPD max. Set 50 sack cement plug @ 6345' Perf'd squeeze holes @ 5390-5402' & 6345'. Perf'd 2 shots @ 6365' & squeezed same. Perf'd 5392-99' (7') w/1 SPF. Acidized w/1000 gal & flow-tested, no show.



NOTE.—There were runs or sales of oil; M cu. ft. of gas sold;

..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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.)

1. OIL WELL GAS WELL OTHER

7. UNIT AGREEMENT NAME
SAND RIDGE II UNIT

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

9. WELL NO.
PTS #23-25 FEDERAL

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' Ground

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

CONFIDENTIAL

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)

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.)*

6/25/77 - Bled off pressure & released packer; POOH w/tubing & packer; RIH w/tubing, scraper & bit; top of cement @ 5178'. RU drlg equip, drld & circ cement string from 5178'-5237'; drld & circ cement 5237' and 5365'. Lowered tubing to 5421', circ clean. RD drlg equip, pulled & laid 8 jts. tbg. WOC

6/26/77 - WOC - shut down.

6/27/77 - WOC - shut down.

6/28/77 - Pressure-tested squeeze job to 4000#. RU OWP, ran cement bond log from 5000'-5391'. Fill-up in casing @ 5391', top of cement 5240'. RD OWP, RIH w/tubing, scraper & bit. RU drlg equip, circ & cleaned hole from 5391-5450'. SI.

6/29/77 - RIH w/tubing & packer, set packer @ 5296'. RU OWP & perf'd 5392-5399' w/1 SPF. Displaced tubing w/2% KCl water, pressured annulus to 1500#, acidized w/1000 gal. 7 1/2% BDA, max pressure 4300#, avg. final pressure 2500#, ISIP 1800#, 15 min SI 1250#, avg. injection rate 3 BPM. Flushed w/2% KCl water. RU flow equip, well dead. RU swab equip, swabbed to packer & rec 33 bbls water. Flow-tested 2 hrs, no show of gas. Ran swab, rec 4 bbls water. Flow tested thru flow prover 15 hrs; no show.

6/30/77 - Swabbing. Prep to reset packer & pump into perfs.

CONTINUED ---

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

SIGNED [Signature]

TITLE EXPLORATION MANAGER

DATE 7/1/77

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

APPROVED BY THE DIVISION OF
OIL, GAS AND MINING

DATE: July 8, 1977

BY: [Signature]

*See Instructions on Reverse Side

7/1/77 - Perf's 5392-99'. RIH w/swab, swabbed to packer & rec 4 bbls acid water, released packer & lowered tubing to 5388'. Displaced tubing w/2% KCl water, reset packer @ 5388', pressured annulus to 1000#, broke down thru perfs with 15 bbls 2% KCl water, breakdown pressure 4600#, final pressure 3500# @ 2½ BPM. WO acid 2 hrs. Acidized thru perfs 5392-99' w/1000 gallons 7½% BDA, avg. pressure 3200#, avg injection rate 2 BPM, ISIP 2100#, 15 min SIP 1250#, flushed w/2% KCl water. Annulus pressure increased while pumping final 2 bbls, flush indicated cement bond failed between perfs 5392-99' and squeeze perfs 5365'. RU swab equip, no pressure on well. Squeezed to packer & recovered 35 bbls water. Flow tested for 15 hrs, no show.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other Instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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		7. UNIT AGREEMENT NAME SAND RIDGE II UNIT
2. NAME OF OPERATOR PACIFIC TRANSMISSION SUPPLY COMPANY		8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR 633 17th Street, Suite 2140, Denver, Colorado 80202		9. WELL NO. PTS #23-25 FEDERAL
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE SW (1980' FWL, 1983' FSL) Section 25, T8S-R23E, S.L.B. & M.		10. FIELD AND POOL, OR WILDCAT WILDCAT
14. PERMIT NO. 43-047-30-230		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 25, T8S-R23E
15. ELEVATIONS (Show whether Dr., or C., etc.) 5030' Ground		12. COUNTY OR PARISH Uintah
		13. STATE Utah

CONFIDENTIAL

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

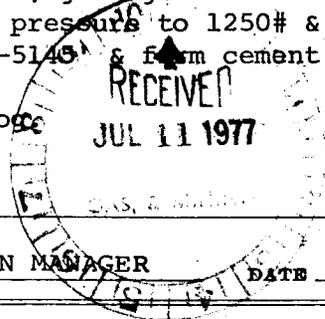
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	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 checked="" 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.)*

PLEASE HOLD CONFIDENTIAL

- 7/2/77 - Flowtested, no gas. RIH w/swab, F.L. @ 2000', swabbed to packer & recovered 24 bbls water. Installed flow prover & flowtested 4 hrs, no gas. RIH w/tbg. & cement retainer, set retainer @ 5323'.
- 7/3/77 - Squeeze cemented thru cement retainer w/50 sx Class "G" cement w/2% CaCl. POOH cement retainer & reverse circulated out tubing, no excess cement. RD, POOH w/tbg. & retainer; RIH w/tubing packer, set packer @ 4991'. SI.
- 7/4/77 - SD.
- 7/5/77 - SD.
- 7/6/77 - RU, perf'd 2 squeeze holes 5154' & 5155', RD. RU pump truck, attempted to breakdown squeeze 1-3/4 BPM @ 5000#, RD pump truck, RU & perf'd 2 squeeze holes @ 5143' & 5144', RD. TP 200# following perfs, squeeze cemented 150 sx Class "G" cement w/2% KCl, breakdown pressure 4000#, staged squeeze w/final 2 bbls cement slurry, final pressure 2400#, reverse circulated tubing, no excess cement, good gas blow while reverse circulating. Released packer, set packer pressure to 1250# & SI. WOC.
- 7/7/77 - Drld & circ'd cement stringers from 5130'-5140' & from cement from 5145'-5144'. Prep to pressure test.
- 7/8/77 - WOC. SIP 250#, prep to run cement bond logs



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

SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 7/8/77

(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
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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

5. LEASE DESIGNATION AND SERIAL NO. U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME SAND RIDGE II UNIT

8. FARM OR LEASE NAME

9. WELL NO. PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 25, T8S-R23E

12. COUNTY OR PARISH Uintah

13. STATE Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR 633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

14. PERMIT NO. 43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5030' Ground

CONFIDENTIAL

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) _____	
(Other) Weekly Report <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.)*

PLEASE HOLD CONFIDENTIAL

Prep to perforate Wasatch sand interval 5121-44' and subsequently flow test.

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE EXPLORATION MANAGER DATE 7/15/77
(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
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R-1424.
5. LEASE DESIGNATION AND SERIAL NO.

U-7386

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

[Handwritten mark]

7. UNIT AGREEMENT NAME

SAND RIDGE II UNIT

8. FARM OR LEASE NAME

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR
633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE SW (1980' FWL, 1983' FSL)
Section 25, T8S-R23E, S.L.B. & M.

9. WELL NO.
PTS #23-25 FEDERAL

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T8S-R23E

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5030' Ground

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 type="checkbox"/>
(Other) Weekly Report	<input checked="" 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 type="checkbox"/>	ABANDONMENT* <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.)*

PLEASE HOLD CONFIDENTIAL

7/16/77 - Perforated 5124-42', 18' with 18 shots. Pressure increased to 475#, flowed thru 2" flow prover & 1/2" plate for 7½ hrs. Volume 204 MCF, incr to 295 MCF/D, FTP 40#; flowed for 14 hrs thru separator on 24/64" choke. FTP 300#, separator pressure 175#, avg. vol. 332 MCF/D.

7/17/77 - 7/18/77 - Flow-tested.

7/19/77 - Acidized thru perfs 5124-42' w/2000 gallons 7½% BDA, displaced acid w/2% KCl water, initial pressure 2250# @ 4 BPM, final pressure 2200# @ 5½ BPM, ISIP 1800#, 15 minute SIP 500#. Flowed to pit 15 min thru 1/2" choke, dead. Swabbed to packer & rec 32 BW. Flow-testing.

7/20-7/22 - Flow-testing thru separator.

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

SIGNED *[Signature]* TITLE EXPLORATION MANAGER DATE 7/22/77

(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
GEOLOGICAL SURVEY

LAND OFFICE
LEASE NUMBER U-7386
UNIT SAND RIDGE II UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State UTAH County UINTAH Field WILDCAT

The following is a correct report of operations and production (including drilling and producing wells) for the month of JULY, 19 77,

Agent's address 633 17th Street, Suite 2140 Company PACIFIC TRANSMISSION SUPPLY CO.
Denver, CO 80202 Signed JACK L. WROBLE
Original signed by

Phone (303) 571-1662 Agent's title EXPLORATION MANAGER

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 25	8S	23E	23-25	--	--	--	--	--	--	Perf'd 2 squeeze holes @ 5143-44' & 5154-55'. Flow-tested (24-32 MCF) Perf'd 5124-42' (18') w/1 SPF. Flow-tested 350 MCFPD. Acidized thru perms w/2000 gal. SI for BHP buildup.

NOTE.—There were runs or sales of oil; M cu. ft. of gas sold;

..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-7386

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Sand Ridge II

8. FARM OR LEASE NAME

9. WELL NO.

PTS 23-25 Federal

10. FIELD AND POOL, OR WILDCAT

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

NESW Sec. 25, T8S-R23E, S1M

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR

PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR

633 17th Street, Denver, CO 80202

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

At surface NE, SW (1980' FWL, 1983' SL) SEC. 25, T8S, R23E, S1M
At top prod. interval reported below NE, SW (1980' FWL, 1983') Sec. 25, T8S, R23E, S1M
At total depth NE, SW (1980' FWL, 1983' SL) Sec. 5, T8S, R23E, S1M

14. PERMIT NO. DATE ISSUED

43-047-30230 7/6/76

15. DATE SPUDDED 11/4/76 16. DATE T.D. REACHED 1/21/77 17. DATE COMPL. (Ready to prod.) July 31, 1977 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5030 Ground 19. ELEV. CASINGHEAD 5031 (Estimated)

20. TOTAL DEPTH, MD & TVD 9282' 21. PLUG, BACK T.D., MD & TVD 5323' PBDT 22. IF MULTIPLE COMPL., HOW MANY* Single Completion 23. INTERVALS DRILLED BY → All Depths 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5124 - 5142, Wasatch Formation 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction-Laterolog, BHC Sonic, FDC-CNL Gamma Ray, Experimental Long Spaced Sonic 27. WAS WELL CORED Yes

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	54.5	300	17-1/2	515 sacks	None
9-5/8	36	3405	12-1/4	560	None
5-1/2	20	8965	7-7/8	1420	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
	None				2-7/8	5052 ⁺	5052

31. PERFORATION RECORD (Interval, size and number)
Producing Perforations
5124 - 5142, 18 shots at 1 per foot
(See attached schedule 31 for entire record)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
5124 - 5142 2000 gal. 7-1/2% Break Down Acid
(Producing Only)
(See attached schedule 32 for entire record)

33.* PRODUCTION
DATE FIRST PRODUCTION July 18, 1977 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) 8/9/77 Shut In Waiting on Pipeline

DATE	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/18/77 7/26/77	182	32/64	→	Trace Condensate	5,460	440 BBLs	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
Ave 250 psi	NO CP. Packer Installed	→	Trace Condensate	720	5		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Flared TEST WITNESSED BY R. Firth

35. LIST OF ATTACHMENTS
Schedule 31, Schedule 32

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

SIGNED [Signature] TITLE Engineer DATE 8/10/77

PACIFIC TRANSMISSION SUPPLY COMPANY

245 MARKET STREET
SAN FRANCISCO, CALIFORNIA 94105

(415) 781-0474

August 10, 1977

*Completion Notice
PTS 23-25 Federal
Sand Ridge II Unit
NESW Sec. 25, T8S, R23E SLM
Uintah County, Utah
Lease No. U-7386*

Mr. Cleon B. Feight, Director
Division of Oil, Gas and Mining
1588 West, North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

Attached are three sets of the Completion Notice for the above captioned unit well. Open hole logs were forwarded to you earlier as they were run.

The PTS 23-25 Federal was drilled with funding assistance by the United States Energy Research and Development Administration as part of their program to encourage gas production from tight marginal gas reservoirs. Considerable work was done in the Mesaverde by PTS and ERDA. The well, however, was completed as a gas well in the Wasatch.

The PTS 23-25 Federal is the first well to be drilled in the Sand Ridge II Unit which was approved on December 10, 1976.

Very truly yours,


EUGENE R. HENRY

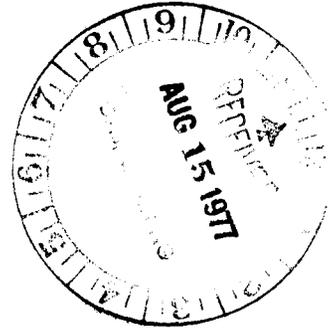
ERH:mly
Attachments
cc: JLWroble
DEBeardsley
HGCulp
Chorney Oil Company
BWallen



PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

August 10, 1977



Mr. Cleon B. Feight
DIVISION OF OIL, GAS & MINING
1588 West, North Temple
Salt Lake City, Utah 84116

Reference: PTS #23-25 Federal
Sec.25-T8S-R23E
Uintah County, Utah

Dear Mr. Feight,

As per instructions from Mr. E. R. Henry of our San Francisco office, we are enclosing herewith final prints of the following logs for the above-captioned well:

Dual Induction-Laterolog

Compensated Neutron-Formation Density Log

Borehole Compensated Sonic Log

Very truly yours,

A handwritten signature in cursive script that reads "Dee E. Beardsley".

DEE E. BEARDSLEY
District Manager

DEB:a
cc: Mr. E. R. Henry

encl.

PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

GEOLOGICAL WELL COMPLETION REPORT
PACIFIC TRANSMISSION SUPPLY COMPANY
PTS #23-25 FEDERAL
SECTION 25, TOWNSHIP 8 SOUTH, RANGE 23 EAST
UINTAH COUNTY, UTAH

PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING
P. O. BOX 3093
CASPER, WYOMING 82602
(307) 265-1027

PTS #23-25 FEDERAL
UINTAH COUNTY, UTAH

OPERATOR: Pacific Transmission Supply Company

WELL NAME: PTS #23-25 Federal

LOCATION: NE-SW Section 25, Township 8 South, Range 23 East

COUNTY AND STATE: Uintah County, Utah

ELEVATION: Ground - 5030'
K.B. - 5046'

DRILLING CONTRACTOR: Anderson Drilling Company, Rig No. 5
Toolpusher: Sam Anderson
(6-4-76)

COMMENCEMENT DATE: November 4, 1976

SURFACE CASING: Size - 13-3/8"
Depth - 300'
Cement - 515 sacks Class "G"

INTERMEDIATE CASING: Size - 9-5/8"
Depth - 3405'
Cement - 280 sacks RF Cement
- 280 sacks Class "G" (1/4# Clinton Flake/sack)

PRODUCTION CASING: Size - 5-1/2"
Depth - 8965'
Cement - 1420 sacks RFC, .2% D-74

HOLE SIZE: Surface - 300', 17-1/2"
300-3410' 12-1/4"
3410-9163' 7-7/8"
9163-9282' 6-1/8"

DRILLING FLUID: Surface to 6812' - Salt water
6812' to T. D. - Salt water, gel mud

FLUID CONTRACTOR: IMCO Services

LOGGING PROGRAM: Schlumberger Well Services
Dual Induction-Laterolog
BHC Sonic-Gamma Ray Log
FDC-CNL-Gamma Ray Log
Experimental Long-Spaced Sonic Log

TOTAL DEPTH: Driller - 9282'
Logger - 9167'

CEASE DRILLING: January 21, 1977
(Rig released 2/2/77, 6 A.M.)

SAMPLE STORAGE: American Stratigraphic Company
Casper, Wyoming

SAMPLE INTERVALS: 300-2000' - 30' samples
2000-3410' - 10' samples
3410-6500' - 30' samples
6500-9163' - 10' samples

GEOLOGISTS: David R. Hadden - PTS
Carl A. Wolosin - PTS

STATUS: Preparing to complete

DRILLING TIME: TOTCO

MUD LOGGING UNIT: Tooke Engineering (2-man unit)

DRILLSTEM TESTS: Lynes Testers
DST # 1, 5121-5248'
DST # 2, 6560-6812'
DST # 3, 6790-7040' (misrun)
DST # 4, 6819-7040'
DST # 5, 7030-7260'
DST # 6, 7250-7490' (misrun)
DST # 7, 7282-7550'
DST # 8, 7528-7812' (misrun)
DST # 9, 7598-7812' (misrun)
DST # 10, 7879-8032'
DST # 11, 7954-8032'
DST # 12, 8084-8341'
DST # 13, 8330-8657'
DST # 14, 8578-8789'
DST # 15, 8772-8950'
DST # 16, 8934-9163' (misrun)
DST # 17, 8956-9163'
DST # 18, 8916-8956'
DST # 19, 8924-8965'

CORING: Christensen Diamond Products Company
Core # 1, 7040-7055'
Core # 2, 7055-7100'
*Core # 3, 7430-7490'
Core # 4, 7812-7835'
Core # 5, 7835-7859'
Core # 6, 8032-8074'
Core # 7, 8690-8711'
Core # 8, 8711-8769'
Core # 9, 8769-8789'
*Core #10, 8990-9033'
*Core #11, 9163-9223'
*Core #12, 9223-9282'

ORIENTED CORES *

Eastman-Whipstock, Inc.
Core # 3, 7430-7490'
Core #10, 8990-9033'
Core #11, 9163-9223'
Core #12, 9223-9282'

MINI-FRAC EXPERIMENTS:

Terra Tak, Inc.
#1, 9017-9032'
#2, 8822-8830' (misrun)

IMPRESSION PACKERS:

Lynes, Inc.
9017-9032' (misrun)

STANDARD CORE ANALYSIS:

Core Laboratories, Inc.

SPECIAL CORE ANALYSIS:

Terra Tek, Inc.
Core #3 and Core #10

CHRONOLOGICAL WELL HISTORY

<u>Date</u>	<u>Drilled to</u>	<u>Hours Drilling</u>	
11-4-76	226'	-1/4	Spudded at 7:45 P.M., drilling.
11-5-76	300'	2-1/2	Drilling; run surface pipe.
11-6-76	300'	0	Waiting on cement.
11-7-76	709'	11-3/4	Drilling cement and drilling ahead.
11-8-76	1290'	15-1/4	Drilling; twist off at 1290'.
11-9-76	1290'	0	Waiting on drill collar inspection.
11-10-76	1860'	21-1/4	Drilling and collar inspection, lost circulation at 1757'.
11-11-76	2100'	20	Drilling.
11-12-76	2358'	20	Drilling-tripping (losing small amount drilling fluid), trip for bit.
11-13-76	2821'	23-1/4	Drilling (losing small amount drilling fluid).
11-14-76	3210'	23-1/4	Drilling, no mud loss.
11-15-76	3410'	12	Drilling (losing some mud), logging.
11-16-76	3410'	0	Trip out to run 9-5/8" casing.
11-17-76	3410'	0	Wait on cement and nipple up BOP.
11-18-76	3549'	7-1/2	Pick up drill collars, trip in, drilling.
11-19-76	4128'	23	Drilling.
11-20-76	4495'	21	Drilling.
11-21-76	4821'	23-1/2	Drilling.
11-22-76	5110'	24	Drilling.
11-23-76	5248'	14-1/4	Drilling and mixing and conditioning mud.
11-24-76	5248'	0	DST #1.
11-25-76	5504'	22-1/4	Drilling plus DST #1.
11-26-76	5817'	24	Drilling.
11-27-76	6097'	24	Drilling.
11-28-76	6376'	23-1/2	Drilling.
11-29-76	6812'	24	Drilling.
11-30-76	6812'	0	DST #2; dropped 7 drill collars and test tool in hole.
12-1-76	6812'	0	Wash to bottom and fish (top of fish at approximately 6570').
12-2-76	6812'	0	Wash to bottom and circulate.
12-3-76	6812'	0	Circulate and condition hole and work on fish.
12-4-76	6812'	0	Fishing.
12-5-76	6812'	0	Wash-over and recover fish; condition hole for DST #2.
12-6-76	6812'	0	DST #2.
12-7-76	6800'	7	Finish DST #2; drilling.
12-8-76	7050'	16-1/2	Drilling; prep for DST #3.
12-9-76	7050'	0	DST #3; misrun; DST #4.
12-10-76	7055'	3-1/4	Complete DST #4; core #1.
12-11-76	7106'	12-1/4	Core #2; drilling.
12-12-76	7259'	18-1/4	Drilling; DST #5.
12-13-76	7266'	1-3/4	DST #5; drilling.

<u>Date</u>	<u>Drilled to</u>	<u>Hours Drilling</u>	
12-14-76	7430'	16-1/4	Drilling; trip out for core barrel.
12-15-76	7490'	9-3/4	Core #3; trip in hole for DST #6.
12-16-76	7550'	4-3/4	DST #6; misrun; drilling; trip for DST #7.
12-17-76	7554'	-1/2	DST #7; drilling.
12-18-76	7742'	24	Drilling.
12-19-76	7812'	8-1/4	Drilling; DST #8; misrun; trip in for DST #9.
12-20-76	7834'	6-1/4	DST #9; misrun; coring (Core #4).
12-21-76	7859'	6-3/4	Finish Core #4; Core #5.
12-22-76	8032'	19-3/4	Drilling; circulate for DST #10.
12-23-76	8032'	0	DST #10; misrun.
12-24-76	8032'	0	DST #11.
12-25-76	8068'	11	Core #6.
12-26-76	8185'	20-1/4	Drilling.
12-27-76	8300'	24	Drilling.
12-28-76	8341'	7-1/4	Drilling; trip for DST #12.
12-29-76	8385'	8	DST #12; drilling.
12-30-76	8535'	23-1/2	Drilling.
12-31-76	8567'	6	Drilling; trip in for DST #13.
1-1-77	8632'	8	DST #13; drilling.
1-2-77	8708'	12	Drilling; Core #7.
1-3-77	8769'	11-1/4	Core #7; Core #8.
1-4-77	8789'	3	Core #9.
1-5-77	8789'	0	Core #9; DST #14.
1-6-77	8850'	6-1/2	Finish DST #14; drilling.
1-7-77	8850'	0	Circulate gas out (drilling break at 8834-8837', 6000 units of gas).
1-8-77	8950'	20-1/4	Drilling; prep for DST #15.
1-9-77	8950'	0	DST #15.
1-10-77	8990'	2	Drilling; pick-up core barrel for Core #10.
1-11-77	9030'	4-3/4	Core #10.
1-12-77	9030'	0	Terra-Tek mini-frac; trip in with impression packer.
1-13-77	9030'	0	Ran impression packer; trip out; trip in and ream 6-1/8" core hole to 7-7/8".
1-14-77	9081'	19-1/4	Drilling; trip for near bit.
1-15-77	9106'	17	Trip in; drilling.
1-16-77	9154'	21-1/2	Drilling.
1-17-77	9163'	6	Drilling; circulate for DST #16; misrun.
1-18-77	9163'	0	DST #17; Core #11.
1-19-77	9216'	17-1/2	Core #11.
1-20-77	9281'	18-1/4	Core #12.
1-21-77	9282'	1	Core #12; circulate and condition hole for logging.
1-22-77	9282'	0	Logging; trip to circulate and condition hole.
1-23-77	9282'	0	Logging.
1-24-77	9282'	0	Ran DST #18.
1-25-77	9282'	0	Finish DST #18; run cement plug, 9163-8965'.
1-26-77	9282'	0	Ran DST #19.
1-27-77	9282'	0	Finish DST #19.

BIT RECORD

<u>Bit No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth In</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hours</u>
1	17-1/2"	Smith	DT	91'	300'	209'	6-3/4
2	12-1/4"	Hughes	OSC-3J	21'	433'	412'	22
3	12-1/4"	Smith	DTJ	433'	1217'	789'	16-1/2
4	12-1/4"	Security	54TJ	1217'	1290'	73'	1-1/2
5	12-1/4"	Security	54TJ	1290'	1951'	661'	28-1/4
6	12-1/4"	HTC	OSCIG-J	1951'	2138'	187'	19-3/4
7	12-1/4"	HTC	J-33	2138'	3410'	1272'	72-3/4
8	7-7/8"	Smith	F-45	3410'	5248'	1838'	113-1/4
9	7-7/8"	HTC	J-33	5248'	6812'	1564'	117-3/4
10	7-7/8"	Reed	Y13J	6812'	Clean out hole	0	
RR 9	7-7/8"	HTC	J-33	6812'	7050'	238'	24
11	7-7/8"	Christensen	MC-20	7040'	7100'	60'	13-3/4
12	7-7/8"	Reed	FP-62	7100'	7550'	390'	42-3/4
RR11	7-7/8"	Christensen	MC20	7430'	7490'	60'	9-3/4
						(120')	(23-1/2)
RR12	7-7/8"	Reed	FP-62	7100'	7812'	652'	75-1/2
						(712')	(118-1/4)
13	7-7/8"	Christensen	MC-20	7812'	7859'	47'	13
14	7-7/8"	HTC	J-44	7859'	8032'	173'	19-3/4
RR13	7-7/8"	Christensen	MC-20	8032'	8074'	42'	12-1/4
						(89')	(25-1/4)
RR14	7-7/8"	HTC	J-44	8074'	8341'	267'	50-1/4
15	7-7/8"	Smith	F-45	8341'	8690'	349'	52-3/4
RR11	7-7/8"	Christensen	MC-20	8690'	8711'	21'	7
						(141')	(30-1/2)
16	7-7/8"	Christensen	MC-20	8711'	8769'	58'	10
17	7-7/8"	HTC	OW4J	8769'			
RR16	7-7/8"	Christensen	MC-20	8769'	8789'	20'	3
						(78')	(13)
18	7-7/8"	Smith	F-5	8789'	8950'	161'	26-3/4
19	7-7/8"	Smith	F-5	8950'	8990'	40'	5-1/2
20	6-1/8"	Christensen	MC-20	8990'	9032'	42'	9-1/4
						(59')	(19)
21	7-7/8"	Smith	F-6	8990'	9081'	91'	27
22	7-7/8"	HTC	J-55	9081'	9163'	82'	44-1/2
RR20	7-7/8"	Christensen	MC-20	9163'	9282'	59'	19
						(101')	(28-1/4)

MUD PROPERTIES

<u>Date</u>	<u>Depth</u>	<u>Weight</u>	<u>Ph</u>	<u>Viscosity</u>	<u>Water Loss</u>	<u>Filter-Cake</u>	<u>PV</u>	<u>YP</u>
11-5-76	300'	8.4-8.6		27-29	NC			
11-6-76	300'	8.3-8.5		26-27	NC			
11-7-76	315'	8.3	12	26-27	NC			
11-8-76	1150'	8.8	-	27	NC			
11-9-76	1290'	8.4	11	27	NC			
11-10-76	1500'	8.5	10.5	27	NC			
11-11-76	1945'	8.4	10.5	27	NC			
11-12-76	2156'	8.4	10.5	27	NC			
11-13-76	2550'	8.4	10.5	27	NC			
11-14-76	2950'	8.4	10.0	26	NC			
11-15-76	3350'	8.5	11.0	36-40	NC		8	4
11-17-76	3310'	8.4	--	27	NC		-	-
11-18-76	3410'	8.4	--	27	NC		-	-
11-19-76	3838'	8.7	11.0	27	NC		-	-
11-20-76	4292'	8.7	11.0	27	NC		-	-
11-21-76	4644'	8.6+	10.5	27	NC		-	-
11-22-76	4955'	8.8	10.0	26-27	NC		-	-
11-23-76	5155'	8.8	10.0	26	NC			
11-24-76	5248'	8.9	10.0	27	NC		6	8
11-25-76	5313'	9.2	10.0	30	NC		8	7
11-26-76	5640'	9.1	11.0	29-30	NC		6	6
11-27-76	5938'	9.3	10.5	28	NC		-	-
11-28-76	6225'	9.2+	11.0	27-28	NC		-	-
11-29-76	6520'	9.2	11.5	26-27	NC		-	-
11-30-76	6812'	9.1	10.5	36	12.0		6	6
12-1-76	6812'	9.1	9.5	35	11.5		7	7
12-2-76	6812'	9.1	10.0	36	9.2		10	8
12-3-76	6812'	9.2	10.0	40	10.0		10	12
12-4-76	6812'	9.4	9.5	36	11.2		7	5
12-5-76	6812'	9.3	9.5	36	9.5		7	7
12-6-76	6812'	9.3+	9.5	39	10.0		5	11
12-7-76	6812'	9.2	9.0	38	10.2		17	9
12-8-76	6950'	9.0	9.0	40	9.5		8	16
12-9-76	7040'	9.1	9.5	36-40	9.5		6	14
12-10-76	7040'	9.1	9.5	36-40	9.5		10	8
12-11-76	7070'	9.1	9.5	38-40	9.0		14	8
12-12-76	7188'	9.1-9.2	9.5	38-42	8.8		14	6
12-13-76	7259'	9.3	9.5	38-40	8.8		10	6
12-14-76	7360'	9.1-9.2	9.5	38-40	8.0		9	7
12-15-76	7450'	9.2	9.5	38-40	8.8		5	7
12-16-76	7490'	9.3	9.5	38-40	8.4		8	6
12-17-76	7550'	9.3	9.5	38-40	8.5		9	8
12-18-76	7650'	9.2	9.5	37-40	8.2		9	10
12-19-76	7812'	9.3	9.5	38	8.2	2/32	7	7
12-20-76	7812'	9.3+	9.5	37	8.0	2/32	7	8
12-21-76	7850'	9.3	9.0	36	8.0	2/32	8	6

Mud Properties (continued)

<u>Date</u>	<u>Depth</u>	<u>Weight</u>	<u>Ph</u>	<u>Viscosity</u>	<u>Water Loss</u>	<u>Filter-Cake</u>	<u>PV</u>	<u>YP</u>
12-22-76	7915'	9.3	9.0	37	8.0	2/32	6	6
12-23-76	8032'	9.3	9.5	37-40	8.2	2/32	-	-
12-24-76	8032'	9.3	9.5	37-40	8.2	2/32	-	-
12-25-76	8050'	9.3	9.5	37-40	8.0	2/32	7	8
12-26-76	8120'	9.3	9.5	37-40	8.1	2/32	9	7
12-27-76	8250'	9.3	9.0	37-40	8.2	2/32	8	9
12-28-76	8341'	9.4	9.5	37-40	7.8	2/32	8	5
12-29-76	8341'	9.4	9.5	37-40	7.8	2/32	-	-
12-30-76	8454'	9.4	9.5	38-40	7.8	2/32	7	5
12-31-76	8567'	9.4	9.0	38-40	8.1	2/32	5	5
1-1-77	8567'	9.4	9.0	38-40	8.0	2/32	5	5
1-2-77	8690'	9.4	9.5	38-40	8.0	2/32	5	5
1-3-77	8710'	9.4	9.0	40	8.5	2/32	7	7
1-4-77	8769'	9.5	9.0	41	8.0	2/32	7	7
1-5-77	8789'	9.4	9.0	40	8.0	2/32	7	5
1-6-77	8789'	9.4	9.0	40	8.0	2/32	7	5
1-7-77	8850'	9.9-10.0	9.0	--	--	2/32	-	-
1-8-77	8880'	10.4	9.0	44	8.2	2/32	8	9
1-9-77	8950'	10.2	9.0	39	--	2/32	-	-
1-10-77	8990'	10.1+	9.0	42	7.8	2/32	7	7
1-11-77	9020'	10.5	9.0	40-44	8.2	2/32	7	9
1-12-77	9032'	10.3+	9.0	40-44	7.9	2/32	-	-
1-13-77	9032'	10.3+	9.0	40-44	7.9	2/32	-	-
1-14-77	9047'	10.5+	9.0	40-44	9.8	2/32	8	6
1-15-77	9092'	10.5	9.0	40-44	7.6	2/32	7	7
1-16-77	9123'	10.8	9.0	40-44	7.9	2/32	13	10
1-17-77	9163'	10.6+	9.0	40-44	8.0	2/32	10	8
1-18-77	9163'	10.6	9.0	40-44	8.0	2/32	10	8
1-19-77	9202'	10.7	9.5	40-44	8.0	2/32	10	7
1-20-77	9240'	10.5+	9.0	40-44	8.2	2/32	9	7
1-21-77	9282'	10.8	9.0	45	8.0	2/32	10	7
1-22-77	9282'	10.6	9.0	44	8.0	2/32	10	7
1-23-77	9282'	10.6	9.0	44	8.0	2/32	10	7
1-24-77	9282'	10.5+	9.0	44	8.0	2/32	10	7
1-25-77	9282'	10.5+	9.0	44	8.0	2/32	10	7

DEVIATION SURVEY

<u>Depth</u>	<u>Deviation</u>
433'	1/2 degrees
933'	1/2 degrees
1303'	3/4 degrees
1582'	1/4 degrees
2175'	1-1/4 degrees
2948'	1 degrees
3522'	2 degrees
4663'	1-1/4 degrees
5248'	2 degrees
6225'	2-1/2 degrees
7050'	3 degrees
7259'	3 degrees
7430'	3-3/4 degrees
8032'	4-1/4 degrees
8341'	4-1/4 degrees
8567'	4+3/4 degrees
8950'	4-1/2 degrees
9123'	4-3/4 degrees

POOR COPY

DRILLSTEM TESTS

DST #1, 5121-5248'

Open tool at 7:15 A.M. 11-24-76. Initial open 15 minutes, gas to surface in 2 minutes; at 5 minutes, 61#, 883 MCF and building; initial shut-in 60 minutes. Final open 180 minutes, gas to surface immediately; final shut-in 180 minutes.

Recovered 420 feet heavy gas-cut mud, 90 feet muddy water (gas cut). Sample chamber contained trace of water, 4.2 cubic feet of gas at 85#; bottom hole temperature 141 degrees F.

Pressures: IH 2434 psi
 IF 176-209 psi
 ISI 2402 psi
 FH 2423 psi
 FF 308-330 psi
 FSIP 2328 psi

Flow Rates: 5 minutes 756 MCF
 15 " 883 MCF
 30 " 1313 MCF
 45 " 1450 MCF
 60 " 1464 MCF
 75 " 1595 MCF
 90 " 1551 MCF

Steady through end of test

DST #2, 6560-6812'

Initial open with weak blow, increasing to strong blow off bottom of bucket in 5 minutes, steadily increasing through flow period, no gas to surface. Final open with strong blow off bottom of bucket, gas to surface in 10 minutes into flow period.

Recovered 460 feet of gas-cut drilling mud. Sample chamber contained 1800 cc of gas-cut drilling mud with slight scum of paraffin, and gas at 125 psig.

Pressures: IH 3274 psi
 FH 3235 psi
 IFP 191-179 psi (15 minutes)
 FFP 191-217 psi (60 minutes)
 ISIP 1361 psi (60 minutes)
 FSIP 2632 psi (255 minutes)
 BHT 156 degrees F.

DST #2, 6560-6812' (continued)

Flow rates for final flow period: (3/8" surface choke)

10 minutes	36.3 MCF/D
15 "	27.0 MCF/D
20 "	19.0 MCF/D
25 "	9.45 MCF/D
30 "	7.98 MCF/D
35 "	7.58 MCF/D
40 "	7.58 MCF/D
45 "	7.58 MCF/D
50 "	7.14 MCF/D
55 "	7.14 MCF/D
60 "	7.14 MCF/D

DST #3, 6790-7040', misrun - packer would not hold, probable wash-out.

DST #4, 6819-7040' (10' strap correction)

10-15", weak blow to strong blow after 10 minutes; initial shut-in 60 minutes, final open 120 minutes with strong blow, gas to surface in 80 minutes - too small to measure, final shut-in 265 minutes.

Recovered 375' mud; no sample recovery (lost recovery); bottom hole temperature 180 degrees F.

At 6834' - IH 3345 psi
IF 74-200 psi
ISI 1017 psi
FF 173-198 psi
FSI 2290 psi
FH 3269 psi

At 6840' - IH 3293 psi
IF 75-176 psi
ISI 1010 psi
FF 151-176 psi
FSI 2201 psi
FH 3122 psi

DST #5, 7030-7260'

Initial open 18 minutes, open with fair blow, 6 inches below H₂O in 18 minutes, initial shut-in 60 minutes, final open 91 minutes, strong blow off bottom of bucket in 2 minutes and continued through end of test, final shut-in 240 minutes. No gas to surface.

DST #5, 7030-7260' (continued)

Recovered 330' mud; sample chamber recovered 3000 cc mud (no pressure).

Pressures: IH 3284 psi
FH 3485 psi
IF 67-47 psi
ISI 112 psi
FF 90-90 psi
FSI 338 psi

DST #6, 7250-7490', misrun - packer failed.

DST #7, 7282-7550'

10-15 minutes weak blow building to strong blow bottom of bucket in 7 minutes, initial shut-in 60 minutes, final open 90 minutes, strong blow, gas to surface in seven minutes, final shut-in 250 minutes.

Flow rates (1/2" orifice):

7 minutes	78.1 MCF/D
10 "	59.2 MCF/D
15 "	33.9 MCF/D
20 "	16.0 MCF/D
25 "	10.0 MCF/D
Dead in 30 minutes	

Pressures: IH 3687 psi
IF 205-217 psi
ISI 702 psi
FF 153-191 psi
FSI 995 psi
FH 3687 psi

Sample chamber recovered 750 cc gas-cut mud, .5 cubic feet gas at 125 psi; bottom hole temperature 110 degrees F.

DST #8, 7528-7812' - misrun

DST #9, 7598-7812' - misrun

DST #10, 7879-8032' - misrun, hole in drill pipe (lost 18 barrels mud before set packer and gained 20,000# on weight indicator)

DST #10, 7879-8032' (continued)

Initial open 10 minutes, opened off bottom throughout, initial shut-in 60 minutes; final open 60 minutes, opened off bottom, increasing, final shut-in 90 minutes; no gas to surface. Recovered 4013'. Sample chamber recovery 100 cc mud at 500#, bottom hole temperature 177 degrees F..

Pressures:	IH	3906 psi
	IF	1929-1929 psi
	ISI	3829 psi
	FF	1954-1967 psi
	FSI	3868 psi
	FH	3906 psi

DST #11, 7954-8032'

Initial open 10 minutes, opened with one inch blow and slowly increased to 2 inches at end, initial shut-in 60 minutes, final open 60 minutes, opened with surface blow, increasing to bottom in 2 minutes and stayed throughout test, final shut-in 240 minutes, no gas to surface. Recovered 420' mud. No sample chamber recovery.

Pressures:	IH	3945 psi
	IF	Plug-Plug
	ISI	1133 psi
	FF	178-242 psi
	FSI	497 psi
	FH	3919

DST #12, 8084-8341'

Initial open 15 minutes, 3 inch blow to bottom of bucket in 5 minutes and remaining (7:55); initial shut-in 60 minutes (8:10-9:10); final open 120 minutes, open off bottom, gas to surface in 115 minutes into test (9:10-11:10); final shut-in 360 minutes (11:10-5:10). Gas to surface in 115 minutes into test.

Flow rate: 115 minutes, 1/2" choke, 1# at 33.9 MCF
120 minutes, 1/2" choke, 1# at 33.9 MCF

Recovered 315' gas-cut mud. Sample chamber recovered 2100 cc gas-cut mud at 75#; bottom hole temperature 178 degrees F.

Pressures:	IH	4104 psi
	IF	165-165 psi
	ISI	435 psi
	FF	165-165 psi
	FSI	765 psi
	FH	4075 psi

DST #13, 8330-8567'

Initial open 15 minutes, open 3 inch blow increasing to bottom of bucket in 15 minutes, initial shut-in 60 minutes; final open 120 minutes, open in bottom of bucket and remained, final shut-in 360 minutes; no gas to surface. Recovered 540' slightly gas-cut mud. Sample chamber recovery 1100 cc slightly gas-cut mud at 50#; bottom hole temperature - misrun, thermometer broke.

Pressures: IH 4205 psi
IF 318-255 psi
ISI 395 psi
FF 306-280 psi
FSI 510 psi
FH 4179 psi

DST #14, 8578-8789'

Initial open with very weak blow increasing to strong blow off bottom of bucket in 15 minutes. Final open with very weak blow increasing to blow off bottom of bucket in 2 minutes, steady throughout remainder of flow period.

No gas to surface; recovered 210' very slightly gas-cut drilling fluid. Sample chamber contained 1000 cc of mud and 0.12 cubic feet gas at 55 psig.

Pressures: IH 4403 psi
FH 4387 psi
IFP 230-164 psi (15 minutes)
FFP 164-166 psi (120 minutes)
ISIP 246 psi (60 minutes)
FSIP 353 psi (480 minutes)
BHT 142 degrees F.

DST #15, 8772-8950'

Initial open with good blow off bottom of bucket immediately; gas to surface in 2 minutes. Final flow, strong, steady flow stabilizing in 20 minutes.

Pressures: IH 4684 psi
FH 4668 psi
IFP 411-378 psi (15 minutes)
FFP 427-657 psi (90 minutes)
ISIP 4340 psi (60 minutes)
FSIP 4856 psi (240 minutes)
BHT 144 degrees F.

DST #15, 8772-8950' (continued)

Flow rates as follows:

3/4" choke	15 minutes	246 MCF
3/4" choke	30 minutes	260 MCF
3/4" choke	45 minutes	260 MCF
3/4" choke	60 minutes	260 MCF
3/4" choke	90 minutes	260 MCF

Recovered 450' of highly gas-cut mud and 1000' of very heavily gas-cut water. Sample chamber contained 1100 cc of water, a trace of mud, and 4.15 cubic feet gas at 250 psig.

DST #16, 8934-9163' - Misrun, packer failed.

DST #17, 8956-9163'

Initial open 15 minutes with weak blow, increasing to bottom of bucket in 8 minutes and remained, initial shut-in period 60 minutes; final open 90 minutes with weak blow, increasing to 6 inches in two minutes, steady for 45 minutes, then decreased to 3 inches at end, final shut-in 240 minutes; no gas to surface, recovered 120' mud. Sample chamber contained 1500 cc mud at 144 degrees and 25#.

Pressures:	IH	4975 psi
	IF	117-94 psi
	ISI	389 psi
	FF	94-106 psi
	FSI	400 psi
	FH	4962 psi

DST #18, 8916-8956'

Initial flow had fair to good blow off bottom of bucket at 45 seconds into flow period. Second flow opened with fair to good blow off bottom of bucket at 30 seconds into flow period. Flow pressure was 18 ounces at 2 minutes, 15 ounces at 2 minutes, 15 ounces at 15 minutes, 11 ounces at 45 minutes, 9 ounces at 60 minutes. Lost packer seat at 75 minutes of second flow period. No gas to surface.

Recovered 3700' of fluid; 270' of drilling mud and 3430' of heavy gas-cut drilling mud. Sample chamber contained 400 cc of drilling mud. Top packer at 8912-8916' had fracture impressions on it, ranging in length from 4 inches to over 12 inches. Fractures appeared to be vertical.

Nitrate verification:	Mud:	100 ppm
	Top of fluid recovery:	95-100 ppm
	Bottom of fluid recovery:	95-100 ppm

Chloride verification:	Mud:	90,000 ppm
	Top of fluid recovery:	80,000 ppm
	Bottom of fluid recovery:	90,000 ppm

DST #18, 8916-8956' (continued)

Pressures:	IH	5002 psi	
	FH	4951 psi	
	IFP	102-102 psi	(15 minutes)
	FFP	102-127 psi	(75 minutes)
	ISIP	3008 psi	(60 minutes)
	FSIP	--	
	BHT	--	

DST #19, 8924-8965'

Initial flow opened with weak blow at 1", increasing to bottom of bucket at end of flow. Second flow opened with fair blow at 6", increasing to strong blow off bottom of bucket in 30 seconds, remaining until end of flow period. No gas to surface.

Recovered 380 feet of fluid: 80' of gas-cut drilling mud, 200' gas-cut, water-cut drilling mud, and 100' of gas-cut water. Sample chamber contained 1500 cc of water and 0.1 cubic feet gas at 110 psig.

Nitrate verification:	Mud:	100 ppm
	Top of fluid recovery:	90-100 ppm
	Middle of fluid recovery:	90-100 ppm
	Bottom of fluid recovery:	20 ppm

Sample Chamber:	15 ppm
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Chloride verification:	Mud	75,000 ppm
	Top of fluid recovery:	77,000 ppm
	Middle of fluid recovery:	75,000 ppm
	Bottom of fluid recovery:	40,000 ppm

Sample Chamber:	40,000 ppm
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Pressures:	IH	4818 psi	
	FH	4818 psi	
	IFP	140-140 psi	(15 minutes)
	FFP	102-217 psi	(210 minutes)
	ISIP	612 psi	(60 minutes)
	FSIP	3907 psi	(300 minutes)
	BHT	163 degrees F.	

CORE DESCRIPTIONS

Core No. 1, 7040-7055', cut and recovered 51'

Coring time: 2, 10, 7, 7, 5, 5, 5, 6, 6, 6, 7, 5, 11, 16, 38

<u>Depth</u>	<u>Description</u>
7040-7041'	Shale, medium brown, grey, firm, minor amount coal fragments, slightly calcareous (possible fractures), slightly silty-sandy.
7041-7052'	Sandstone, light to medium grey, very fine to medium grain (.1-.4 mm), sub-angular to sub-rounded, fair sorted, salt and pepper, calcareous, clay-filled, minor amount of mica, irregular coal partings, porosity less than 10%, mineral fluorescence, very, very faint glow/cut fluorescence. At 7042-43', sandstone as above with irregular shale partings; at 7045-46', sandstone as above with increase in irregular coal partings.
7052-7054.6'	Shale, medium brown to grey, firm, minor coal fragments and irregular coal partings, very slightly calcareous, very slightly silty-sandy.

(11 feet sandstone, 4 feet shale)

Core No. 2, 7055-7100', cut and recovered 45' (full recovery)

Coring time: 16, 19, 14, 17, 24 13, 14, 26, 15, 15, 15, 10, 11, 4, 10
 20, 16, 12, 8, 22, 15, 14, 12, 16, 13, 13, 10, 9, 14, 17
 21, 10, 16, 13, 5, 5, 6, 11, 10, 10, 12, 16, 15, 12, 15

7055-7057'	Shale, medium brown to grey, firm, irregular coal partings, slightly calcareous with increased calcite content in fractured zones, fractured with slickensides.
7057-7059'	Shale, medium brown to grey, firm, irregular coal partings, fractured slickensides, slightly calcareous, silty stringers, few scattered calcareous white specks (.3-1.0 mm), scattered bleds shale, medium brown.
7059-7060'	Shale, medium brown to grey, firm, irregular coal partings, highly fractured, slickenslides, fossil casts-gastropods.
7060-7082'	Shale, medium brown to grey, firm, irregular coal partings, slightly calcareous in part, fractured in part. At 7068-69', shale as above with interbedded siltstone, medium grey, salt and pepper, slightly calcareous; at 7071-72', shale as above with irregular siltstone partings as above; at 7073-74', shale as above, very silty; at 7079-80', shale as above with fossil casts-gastropods; at 7081-82', shale as above with interbedded siltstones as above.

Core No. 2 (continued)

- 7082-7083' Siltstone, medium grey, salt and pepper, calcareous, irregular coal blebs.
- 7083-7085' Shale, medium brown to grey, firm, irregular coal partings, slightly calcareous to calcareous, fractured, silty in part to inter-laminated siltstones as above.
- 7085-7088' Shale, medium brown to grey, firm, irregular coal partings, slightly calcareous in part, fractured. At 7086-87', shale as above, silty.
- 7088-7089' Sandstone, light grey, very fine to fine grain (.06-.15 mm), sub-angular to sub-rounded, fair to well sorted, salt and pepper, calcareous, clay-filled, irregular carbonaceous and coal partings, slight mineral fluorescence, no cut or fluorescence, porosity less than 10%.
- 7089-7091' Sandstone, light grey, very fine to medium grain (.1-.3 mm), sub-angular to sub-rounded, fair sorted, salt and pepper, clay-filled, irregular carbonaceous and coal partings, slight mineral fluorescence, no cut or fluorescence, less than 10% porosity, possible minor fractures.
- 7091-7093' Shale, medium-dark brown, firm, irregular coal partings, fractures, slightly calcareous in part.
- 7093-7094' Shale, medium brown to grey, firm, irregular coal partings, calcareous, fractures, interbedded to inter-laminated with siltstone, medium grey, salt and pepper, very calcareous, minor irregular coal partings.
- 7094-7096' Shale, medium brown to grey, firm, irregular coal partings, calcareous to very calcareous, silty in part, fractures. At 7095-96', shale as above with interbedded to inter-laminated siltstone as above.
- 7096-7098' Marlstone, medium brown, cryptocrystalline, dense, irregular carbonaceous partings, fractures. At 7097-98', marlstone as above with leaf imprint in carbonaceous partings.
- 7098-7100' Siltstone, medium brown to grey, firm, irregular coal partings, calcareous.

(Shale 38 feet, Siltstone 2 feet, Sandstone 3 feet,
Marlstone 2 feet)

Core No. 3, 7430-7490' - cut and recovered 60'

Coring time: 10, 11, 6, 4, 7 5, 4, 5, 6, 4 5, 6, 5, 8, 14
 9, 20, 10, 15, 10 16, 7, 5, 5, 12 6, 12, 7, 9, 7
 6, 12, 7, 9, 7 6, 9, 7, 5, 6 5, 12, 11, 11, 6
 2, 3, 4, 3, 3 4, 4, 4, 4, 4 8, 6, 8, 9

- 7430-7431' Sandstone, light grey, very fine to fine grain (.06-.2 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, clay-filled, irregular minor carbonaceous partings, porosity less than 10%, mineral fluorescence, very faint and very slow cut.
- 7431-7433' Sandstone, light brown to grey, very fine grain (.06-.1 mm), irregular carbonaceous partings, quartzitic texture as above.
- 7433-7436' Sandstone, light grey, very fine to fine grain (.06-.2 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, clay-filled, porosity less than 10%, mineral fluorescence, very faint and very slow cut.
- 7436-7437' Sandstone, light grey, very fine to fine grain (.06-.2 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, clay-filled, irregular carbonaceous blebs, as above.
- 7437-7439' Sandstone, light grey, very fine to medium grain (.1-.3 mm) as above.
- 7439-7443' Sandstone, light grey, very fine to medium grain (.1-.3 mm), irregular carbonaceous partings, regular carbon laminated, as above.
- 7443-7444' Sandstone as above with irregular shale partings.
- 7444-7452' Shale, medium brown to grey, firm, blocky, slightly calcareous, slightly calcareous in part, silty-sandy in part, carbonaceous, irregular coal partings. At 7448-49', shale as above with irregular laminated sandstone as above.
- 7452-7453' Sandstone as above with regular-irregular coal laminated partings, regular-irregular shale laminated partings.
- 7453-7454' Sandstone, light grey, very fine to fine grain (.1-.3 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, irregular carbonaceous coal partings, clay-filled, porosity less than 10%, mineral fluorescence, very faint and very slow cut.
- 7454-7455' Shale, medium to dark brown, firm, blocky, very slightly calcareous, carbonaceous, slightly silty.
- 7455-7457' Sandstone, light grey, very fine to fine grain (.1-.2 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, irregular carbonaceous coal partings, clay-filled, porosity less than 10%, mineral fluorescence, very faint and very slow cut. At 7456-57', sandstone as above with shale partings.

Core No. 3 (Continued)

- 7457-7462' Shale, medium-dark brown to grey, firm, blocky, slightly calcareous, slightly silty, slightly carbonaceous. At 7459-60', shale as above with minor siltstone laminations; at 7460-61', shale as above with irregular coal partings, increasing silty content.
- 7462-7464' Shale as above and sandstone as above, inter-laminated and inter-bedded.
- 7464-7471' Sandstone, light grey, very fine to fine grain (.1-.2 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, irregular to regular carbon, slight coaly partings, clay-filled, minor iron stain, porosity less than 10%, mineral fluorescence, very faint and very slow cut.
- 7471-7485' Sandstone, light grey, very fine to medium grain (.1-.3 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, clay filled, minor iron stain, porosity less than 10%, irregular fluorescence, slow to fair cut, good petro odor on fresh break. At 7473-74', sandstone as above with uniform yellow fluorescence, slow to very slight pinpoint streaming cut; at 7474-75', sandstone as above, irregular fluorescence, very slow and very faint cut, regular to irregular carbon-coaly laminations; at 7475-78', sandstone as above with even fluorescence, pinpoint streaming cut and irregular carbonaceous coal partings (7475-76' only); at 7478-81', sandstone as above with regular, even fluorescent slow string cut; at 7481-82', sandstone as above with irregular carbonaceous coal partings, even fluorescence, slow, faint cut; at 7482-83', sandstone as above with even fluorescence, pinpoint streaming cut; at 7483-85', sandstone as above with irregular coal partings, even fluorescence, very slow pinpoint streaming cut.
- 7485-7486' Sandstone as above with irregular coal laminated partings, no fluorescence, very slight pinpoint streaming cut.
- 7486-7487' Marlstone, medium brown, cryptocrystalline, dense, sandy-silty in part, spar seal fracture (.1-1.0 mm), irregular carbonaceous shale partings.
- 7487-7488' Sandstone as above with irregular shale laminated partings, no fluorescence, one pinpoint streaming cut.
- 7488-7489' Marlstone as above with slickensides.
- 7489-7490' Shale, medium grey to brown, firm, blocky, calcareous to very calcareous, silty to very silty, carbonaceous, irregular coal partings.

(Sandstone 41', Shale 17', Marlstone 2')

Core No. 4, 7812-7835' - cut and recovered 23'

- Coring time: 13, 14, 17, 23, 14 11, 11, 11, 11, 9, 7, 7, 8, 8, 11
12, 12, 15, 16, 15 10
- 7812-7813' Shale, black, firm, slickenslides.
- 7813-7814' Siltstone, black, hard, slight trace carbonaceous material.
- 7814-7815' Siltstone, black, hard, scattered fragments of coal (1-4 cm).
- 7815-7816' Siltstone, black, hard, shaley, trace coal fragments (1-4 cm).
- 7816-7817' Shale, black, hard, silty.
- 7817-7818' Shale, black, hard, very slighty silty, slight trace coal fragments.
- 7818-7819' Shale, black, hard, slickenslides.
- 7819-7820' Shale, black, hard, trace coal, slickenslides.
- 7820-7821' Siltstone, black, hard, shaley, carbonized plant impression.
- 7821-7822' Siltstone, black, hard, shaley, scattered coal fragments (1-4 cm).
- 7822-7823' Siltstone, black, hard, shaley, abundant coal fragments and plant impressions.
- 7823-7824' Interbedded siltstone, black, hard, shaley, scattered coal fragments and sandstone, light grey, very fine grain to fine grain (0.06-0.2 mm), angular to sub-angular, moderately well sorted, very hard and tight, slight gaseous odor.
- 7824-7825' Sandstone, light grey, very fine grain to fine grain (0.06-0.2 mm), angular to sub-angular, moderately well sorted, very hard and tight, slight gaseous odor with thin interbeds black, carbonaceous shale.
- 7825-7826' Sandstone, light grey, very fine grain to fine grain (0.06-0.2 mm), angular to sub-angular, moderately well sorted, very hard and tight, slight gaseous odor, slight cut with carbonaceous partings.
- 7826-7827' Sandstone, light grey, very fine grain to fine grain (0.06-0.2 mm), angular to sub-angular, moderately well sorted, very hard and tight, slight gaseous odor, slight cut with carbonaceous partings and laminations.
- 7827-7828' Siltstone, grey to dark grey, sandy, hard and shale, dark grey, hard with scattered coal fragments, slickenslides.
- 7828-7829' Siltstone, black, hard, shaley, scattered coal fragments (0.5-2 cm).

Core No. 4 (Continued)

- 7829-7830' Siltstone, black, hard, shaley, scattered coal fragments.
- 7830-7831' Shale, black, hard, silty, scattered coal fragments and slickenslides.
- 7831-7832' Shale, black, hard, slightly silty, trace coal fragments (0.5-2 cm).
- 7832-7833' Shale, black, hard, slightly silty.
- 7833-7834' Shale, black, hard, very slightly silty, trace coal fragments and slickenslides.
- 7834-7835' Shale, black, hard, very slightly silty, scattered coal fragments.

Core No. 5 - 7835-7859' - cut 24', recovered 23'

- Coring time: 10, 13, 16, 21, 14 12, 17, 16, 9, 10 14, 14, 15, 17, 19
21, 10, 13, 12, 12, 12, 18, 47, 30,
- 7835-7836' Shale, black, hard, very slightly silty.
- 7836-7837' Shale, black, hard, slightly silty, scattered coal fragments and plant impressions.
- 7837-7838' Shale, black, hard, slightly silty, scattered carbonaceous material.
- 7838-7839' Shale, black, hard, very slightly silty, carbonaceous plant impressions.
- 7839-7840' Shale, black, hard, very slightly silty, abundant plant impressions.
- 7840-7841' Sandstone, grey, very fine grain, angular, very hard and tight, very faint cut on crushed sample, with interbedded grey shale.
- 7841-7842' Sandstone, grey, light grey, very fine grain to fine grain (0.1-0.2 mm), angular, moderately well sorted, very hard and tight, faint cut with intercalated shale, grey, silty.
- 7842-7843' Siltstone, dark grey to black, very hard, shaley with scattered carbonaceous material and intercalated sandstone, light grey, very fine grain to fine grain (0.1-0.2 mm), angular, very hard and tight.
- 7843-7844' Siltstone, dark grey to black, very hard, shaley with scattered carbonaceous material and intercalated sandstone, light grey, very fine grain to fine grain (0.1-0.2 mm), angular, very hard and tight.
- 7844-7845' Siltstone, black, hard, shaley with scattered fragments carbonaceous material, less than 1 cm to 5 cm long.

Core No. 5 (Continued)

- 7845-7846' Interbedded sandstone, grey, very fine grain to fine grain (0.6-0.2 mm), angular, moderately well sorted, very hard and tight, very faint cut on crushed sample, faint condensate odor and siltstone, black with carbonaceous material.
- 7846-7847' Shale, black, hard, silty and intercalated sandstone, grey, very fine grain to fine grain (0.06-0.2 mm), very hard and tight, faint condensate odor with scattered carbonaceous material.
- 7847-7848' Siltstone, black, hard, with scattered carbonaceous material.
- 7848-7849' Siltstone, black, hard, slightly sandy.
- 7849-7850' Interbedded siltstone, black, carbonaceous and sandstone, grey, very fine grain to fine grain (0.6-0.2 mm), angular, fair sorting, very hard and tight, faint cut on crushed sample, faint condensate odor.
- 7850-7851' Shale, black, hard.
- 7851-7852' Shale, black, hard with abundant coaly material, trace slickenslides.
- 7852-7853' Shale, black, hard with abundant coaly material.
- 7853-7854' Shale, black, hard, slightly silty with scattered coaly material.
- 7854-7855' Shale, black, hard, very slightly silty with scattered coaly material and plant impressions.
- 7855-7856' Shale, black, hard, very slightly silty with scattered coaly material.
- 7856-7857' Shale, black, hard.

Core No. 6, 8032-8074' - cut 42', recovered 36'

Coring time: 25, 21, 18, 11, 11 14, 19, 15, 20, 15 9, 13, 12, 10, 14
 12, 12, 9, 14, 12, 13, 13, 7, 12, 19, 11, 13, 11, 10, 20
 15, 20, 35, 15, 23 14, 25, 25, 20, 33, 20, 30

- 8032-8038' Shale, medium brown-grey, firm, blocky-splintery, very silty, carbonaceous, irregular carbon-coal partings.
- 8038-8039' Shale, as above with interbedded sandstone, light grey, silty, very fine grain (0.06-.1 mm), sub-angular to sub-rounded, well sorted, salt and pepper, quartzitic texture, calcareous, slight clay-filling, hard and tight, irregular shale, carbon-coal partings.

Core No. 6 (Continued)

- 8039-8040' Shale as above with interlaminated sandstone as above.
- 8040-8041' Shale as above with increasing irregular coal partings.
- 8041-8043' Shale as above.
- 8043-8044' Shale as above with minor irregular interlaminated sandstone as above.
- 8044-8045' Shale as above.
- 8045-8046' Siltstone, medium brown, calcareous, argillaceous, large amount of irregular partings of shale, carbonaceous and coaly rip-up clasts (30% of sample).
- 8046-8047' Shale as above, very coaly.
- 8047-8048' Shale as above with interlaminated siltstone as above.
- 8048-8051' Shale as above.
- 8051-8052' Sandstone, light grey, very fine grain (.06 m - .1 mm), sub-angular to sub-rounded, well sorted, salt and pepper, slightly calcareous, hard and tight; irregular shale partings.
- 8052-8054' Interlaminated-interbedded sandstone as above; siltstone as above; shale as above.
- 8054-8056' Shale as above; at 8055-56', shale as above with increasing coal partings.
- 8056-8057' Shale as above with interlaminated-interbedded shale as above; siltstone as above; sandstone as above.
- 8057-8062' Shale, medium brown-grey, firm, blocky to splintery, silty, carbonaceous, irregular carbonaceous coal partings, coal blebs.
- 8062-8063' Sandstone, light to medium brown-grey, silt, very fine grain (.96-.1 mm) as above at 8038-39'.
- 8063-8064' Sandstone, light to medium grey, very fine grain (.06-.1 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, hard and tight, irregular carbonaceous coal laminations and partings with interlaminated siltstone and shale as above.
- 8064-8065' Shale as above.
- 8065-8068' Siltstone as above with irregular laminations of coal; interbedded shale as above.

(Shale 27 feet, Sandstone 3 feet, Siltstone 4 feet,
interbedded lithology 2 feet)

Core No. 7, 8690-8711' - cut 21', recovered 18'

Coring time: 8, 13, 13, 19, 17 23, 21, 26, 15, 28 15, 16, 18, 13, 17
 16, 13, 22

8690-8691' Sandstone, light grey, very fine to fine grain (.06-.2 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, slightly clay filled, irregular carbonaceous-coal partings, porosity less than 10%, no fluorescence, very, very slow to very, very weak cut.

8691-8697' Sandstone, medium grey brown to light grey, very fine to fine grain (.06-.2 mm), sub-angular to sub-rounded, well sorted, salt and pepper, slightly calcareous, slightly clay-filled in part, irregular carbonaceous-coal partings, slightly quartzitic-quartzitic texture, porosity less than 10%, no fluorescence or cut, with regular-irregular interlaminated-interbedded shale, dark grey to black, firm, palty, very carbonaceous, silty, irregular coal partings.

8697-8700' Shale, dark grey-brown, firm, blocky to palty, silty, carbonaceous, slightly calcareous, interlaminated-interbedded with siltstone, medium brown, slightly calcareous, quartzitic texture.

8700-8708' Shale, dark grey-brown, firm, blocky-palty, carbonaceous, silty, very slightly calcareous, minor irregular coal blebs-partings; at 8705-08' shale, as above with scattered fossil (shell) fragments.

(Sandstone 1 foot, Sandstone and Shale 6 feet, Shale and Siltstone 3 feet, Shale 8 feet)

Core No. 8, 8711-8769' - cut 58', recovered 29'

Coring time: 8, 13, 13, 19, 17 23, 21, 26, 15, 28 15, 16, 18, 13, 17
 16, 13, 22, 14, 21 37 - Geolograph out for 3 feet
 6, 9, 9, 9, 10 9, 8, 10, 10, 10 10, 10, 10, 11, 10
 11, 11, 11, 12, 8, 11, 11, 11, 13, 22 15, 14, 16, 13, 12
 13, 13, 13, 15, 11 10, 8, 10, 8, 10 7, 10, 10, 4, 9
 8, 5, 8, 8, 10 5, 5, 6, 4, 5 5

8711-8712' Shale, black, hard, slightly silty.

8712-8713' Shale, black, hard silty.

8713-8714' Shale, black, hard, silty with scattered blebs and stringers of sand, dark grey, very fine grain (0.06-0.1 mm), angular, very hard and tight, very slightly calcareous.

8714-8715' Sandstone, dark grey, very fine grain (0.06-0.1 mm), angular, very hard and tight, slightly calcareous with interbedded shale, black, silty.

Core No. 8 (Continued)

- 8715-8716' Shale, black, silty, fissile; trace carbonaceous material.
- 8716-8717' Shale, black, fissile; scattered strings pyrite.
- 8717-8718' Shale, black, hard, slightly silty.
- 8718-8719' Siltstone, black, slightly shaley.
- 8719-8720' Siltstone, black, shaley, sandy.
- 8720-8721' Siltstone, black, sandy.
- 8721-8722' Siltstone, black, sandy with stringers sandstone, dark grey, very fine grain (0.06-0.1 mm), angular, very hard and tight, calcareous.
- 8722-8723' Interbedded shale, black and siltstone, black.
- 8723-8724' Shale, black, fissile.
- 8724-8725' Shale, black, hard, slightly silty with stringers sandstone, dark grey, very fine grain (0.06-0.1 mm), angular, hard and tight, calcareous.
- 8725-8726' Sandstone, dark grey, very fine grain (0.06-0.09 mm), angular, very hard and tight, calcareous with interbedded shale, black, fissile.
- 8726-8727' Shale, black, slightly silty.
- 8727-8728' Shale, black, occasionally silty. scattered sandstone stringers, dark grey, very fine grain (0.06-0.09 mm), angular, very hard and tight, slightly calcareous.
- 8728-8729' Shale, black; siltstone, black, calcareous.
- 8729-8730' Interbedded shale, black and siltstone, black, calcareous.
- 8730-8731' Interbedded shale, black and siltstone, black, slightly calcareous, slightly sandy (pelecypod impression?).
- 8731-8732' Interbedded black shale and siltstone.
- 8732-8733' Interbedded black shale and siltstone and sandstone, dark grey, very fine grain (0.06-0.1 mm), angular, very hard and tight, calcareous.
- 8733-8734' Siltstone, black, shaley.
- 8734-8735' Siltstone, black with stringers and blebs sandstone, dark grey, very fine grain (0.06-0.1 mm), angular, very hard and tight, calcareous.

Core No. 8 (Continued)

- 8735-8736' Siltstone, black with sandstone stringers, dark grey, very fine grain (0.06-0.09 mm), angular, very hard and tight, calcareous.
- 8736-8737' Siltstone, black.
- 8737-8738' Siltstone, black with blebs and sandstone stringers, dark grey, very fine grain (0.06-0.1 mm), angular, very hard and tight, calcareous.
- 8738-3739' Shale, black, hard, fissile.
- 8739-8740' Shale, black, hard, fissile with scattered blebs and sandstone stringers, dark grey, very fine grain (0.06-0.09 mm), angular, very hard and tight, calcareous (pelecypod shell impression?).

Core No. 9, 8769-8789' - cut 20', recovered 20'

Coring time: 6, 8, 8, 6, 5 5, 6, 8, 10, 9 9, 9, 9, 8, 10
 10, 10, 10, 11

- 8769-8770' Sandstone, grey, fine grain to very fine grain (0.2-0.06 mm), angular to sub-angular, fair sorting, very slightly calcareous, hard and tight.
- 8770-8771' Sandstone, grey, fine grain to very fine grain (0.2-0.06 mm), angular to sub-angular, fair sorting, very slightly calcareous, hard and tight.
- 8771-8772' Sandstone, grey, fine grain to very fine grain (0.22-0.06 mm), angular to sub-angular, fair sorting, very slightly calcareous, hard and tight, very faint cut, very faint gaseous odor.
- 8772-8773' Sandstone, grey, very fine grain to fine grain (0.06-0.2 mm), angular to sub-angular, fair sorting, very slightly calcareous, very hard and tight.
- 8773-8774' Sandstone, grey, fine grain to very fine grain (0.06-0.25 mm), angular to sub-angular, fair sorting, very slightly calcareous, fair porosity.
- 8774-8775' Sandstone, grey, fine grain to very fine grain (0.06-0.25 mm), sub-angular to angular, fair sorting, very slightly calcareous, fair porosity, faint pin-point fluorescence, no cut.
- 8775-8776' Sandstone, grey, fine grain to very fine grain (0.08-0.25 mm), sub-angular to angular, fair sorting, slightly calcareous, very faint cut, scattered black shale partings.

Core No. 9 (Continued)

- 8776-8777' Sandstone, grey, fine grain to very fine grain (0.06-0.25 mm), sub-angular to angular, fair sorting, slightly calcareous, hard.
- 8777-8778' Shale, black with scattered sandstone stringers, grey, very fine grain to fine grain (0.06-0.19 mm), angular to sub-angular, very hard and tight, calcareous.
- 8778-8779' Sandstone, dark grey, fine grain to very fine grain (0.06-0.2 mm), sub-angular to angular, fair sorting, calcareous, hard and tight, faint cut with scattered black shale and carbonaceous partings.
- 8779-8780' Shale, black, carbonaceous with thin interlamations of sandstone, grey, fine grain to very fine grain, very hard and tight, calcareous.
- 8780-8781' Interbedded black, carbonaceous shale and sandstone, dark grey, very fine grain to fine grain (0.06-0.15 mm), sub-angular to angular, fair sorting, very hard and tight, calcareous.
- 8781-8782' Sandstone, grey, very fine grain to fine grain (0.06-0.13 mm), angular, fair sorting, very hard and tight, calcareous with numerous very thin black shale laminations.
- 8782-8783' Sandstone, dark grey, very fine grain, very hard and tight, very calcareous (very well indurated).
- 8783-8784' Interbedded black, carbonaceous shale and sandstone, dark grey, very fine grain to fine grain (0.06-0.15 mm), angular, fair sorting, very calcareous, very hard and tight.
- 8784-8785' Black, carbonaceous shale with interbedded sandstone, dark grey, fine grain, angular, very well indurated.
- 8785-8786' Shale, black, carbonaceous and interbedded sandstone, dark grey, very fine grain to fine grain (0.08-0.15 mm), angular, fair sorting, calcareous, very well indurated.
- 8786-8787' Shale, black, slightly carbonaceous, calcareous, sandy to silty.
- 8787-8788' Intermixed shale, black, carbonaceous and sandstone, dark grey, very fine grain to fine grain (0.06-0.13 mm), angular, fair sorting, calcareous, very well indurated.
- 8788-8789' Shale, black, carbonaceous with scattered small lenses of sandstone, grey, fine grain to very fine grain (0.06-0.2 mm), angular, fair sorting, very calcareous well indurated.

Core No. 10, 8990-9033' - Cut 42', recovered 42'

Coring time: 8, 7, 17, 9, 7 6, 13, 15, 8, 8 8, 9, 9, 6, 7
 5, 17, 6, 5, 9 10, 8, 14, 12, 9 22, 12, 10, 15, 7
 15, 12, 15, 12, 13 12, 13, 13, 12

- 8990-8991' Sandstone, light grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous, very hard and tight, with rounded shale clasts.
- 8991-8992' Sandstone, light grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous, very hard and tight.
- 8992-8993' Interbedded sandstone, grey, very fine grain (0.06-0.12 mm), angular, well sorted, silty, calcareous, and shale, black, slightly silty.
- 8993-8994' Sandstone, grey, very fine grain (0.06-0.12 mm), angular, well sorted, silty, calcareous, very hard and tight, slight cut, with parallel carbonaceous laminae.
- 8994-8995' Sandstone, grey, very fine grain (0.06-0.12 mm), angular, well sorted, silty, calcareous, very hard and tight, very slight cut.
- 8995-8996' Sandstone, grey, very fine grain (0.06-0.12 mm), angular, well sorted, silty, calcareous, very hard and tight, slight cut, rare parallel carbonaceous laminae.
- 8996-8997' Sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous, very hard and tight, and shale, black, silty.
- 8997-8998' Sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous, very hard and tight, slight cut with carbonaceous laminations.
- 8998-8999' Siltstone, black, shaley with scattered carbonaceous material.
- 8999-9000' Interbedded shale, black, silty, carbonaceous, and sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous.
- 9000-9001' Siltstone, black, sandy, calcareous.
- 9001-9002' Sandstone, grey, very fine grain (0.06-0.09 mm), angular, well sorted, silty, calcareous, very hard and tight, with black carbonaceous shale partings.
- 9002-9003' Sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous, very hard and tight.
- 9003-9004' Sandstone, grey, very fine grain (0.06-0.09 mm), angular, well sorted, silty, calcareous, very hard and tight, very slight cut, with interlaminated black, carbonaceous shale.

Core No. 10 (Continued)

- 9004-9005' Sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous, very hard and tight.
- 9005-9006' Interbedded shale, black, silty, and sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous, very hard and tight.
- 9006-9007' Sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, very calcareous, very hard and tight.
- 9007-9008' Shale, black, very slightly silty.
- 9008-9009' Shale, black, slightly carbonaceous with scattered silt stringers, sandy.
- 9009-9010' Siltstone, black with sandy laminations, calcareous.
- 9010-9011' Siltstone, black, sandy, calcareous.
- 9011-9012' Sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, calcareous, silty, very hard and tight, with occasional siltstone laminae, sandy, burrowed (sandstone appears bioturbated).
- 9012-9013' Sandstone, grey, very fine grain (0.06-0.09 mm), angular, well sorted, silty, calcareous, very hard and tight with black, carbonaceous shale laminations.
- 9013-9014' Interlaminated siltstone, black, and sandstone, grey, very fine grain (0.06-0.09 mm), angular, well sorted, calcareous, silty.
- 9014-9015' Siltstone, dark grey to black, sandy, calcareous.
- 9015-9016' Sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous, very hard and tight.
- 9016-9017' Siltstone, black, sandy, calcareous.
- 9017-9018' Siltstone, black, calcareous.
- 9018-9019' Siltstone, black, calcareous, sandy, with scattered carbonaceous material, and sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, calcareous, very hard and tight.
- 9019-9020' Interlaminated siltstone, black, sandy, occasionally carbonaceous, and sandstone, grey, very fine grain (0.06-0.10 mm), angular, well sorted, silty, calcareous, very hard and tight.
- 9020-9021' Interlaminated siltstone, grey, sandy, calcareous, and shale, black, carbonaceous.

Core No. 10 (Continued)

- 9021-9022' Interlaminated shale, black, silty, calcareous, and siltstone, grey, sandy, calcareous.
- 9022-9023' Shale, black, slightly silty.
- 9023-9024' Inter-mixed siltstone, grey, sandy, calcareous, and shale, black, silty.
- 9024-9025' Siltstone, dark grey, slightly sandy.
- 9025-9026' Shale, black, silty.
- 9026-9027' Shale, black, slightly silty.
- 9027-9028' Shale, black, with scattered coaly material.
- 9028-9029' Siltstone, black, with interbedded sandstone, grey, very fine grain (0.06-0.09 mm), angular, well sorted, calcareous, silty, very hard and tight.
- 9029-9030' Shale, black, slightly silty, calcareous.
- 9030-9031' Shale, black, slightly silty, calcareous, scattered carbonaceous material.
- 9031-9032' Shale, black, slightly silty, calcareous, scattered carbonaceous material.
- 9032-9033' Shale, black, slightly silty, calcareous, scattered coaly material.

Core No. 11, 9163-9223' - cut 60', recovered 60'

Coring time:	20, 12, 15, 15, 15	16, 15, 10, 17, 16	22, 20, 15, 20, 21
	11, 18, 12, 14, 13	12, 17, 16, 17, 20	16, 34, 16, 12, 14
	13, 11, 16, 12, 14	13, 11, 16, 12, 14	13, 17, 12, 17, 13
	18, 16, 14, 15, 11	11, 22, 13, 13, 11	15, 8, 13, 16, 16
	11, 14, 17		

- 9163-9164' Shale, medium to dark brown, grey-brown, firm, calcareous, slightly silty, scattered irregular gilsonite blebs, carbonaceous with interbedded siltstone, light grey-brown, salt and pepper, calcareous, quartzitic texture.
- 9164-9165' Siltstone, as above with scattered gilsonite fragments, carbonaceous.
- 9165-9166' Shale, as above with interbedded siltstone as above.

Core No. 11 (Continued)

- 9166-9167' Shale, as above with irregular interlaminated siltstone as above.
- 9167-9168' Siltstone, light brown-grey, salt and pepper, calcareous, sandy, quartzitic texture, scattered gilsonite blebs with irregular interlaminated shale as above.
- 9168-9170' Shale, as above with interlaminated siltstone as above.
- 9170-9173' Shale, as above.
- 9173-9174' Siltstone, as above interlaminated-interbedded with shale as above.
- 9174-9175' Shale, as above interlaminated with siltstone as above.
- 9175-9176' Shale and siltstone as above interbedded.
- 9176-9177' Shale and siltstone as above, interlaminated-interbedded.
- 9177-9178' Shale, dark grey-brown, firm, calcareous, silty, scattered irregular gilsonite blebs, carbonaceous with irregular interlaminated siltstone, as above.
- 9178-9179' Siltstone, medium brown to grey, salt and pepper, calcareous, quartzitic texture, scattered irregular gilsonite blebs, irregular shale partings.
- 9179-9180' Shale, as above with interlaminated-irregular interbedded siltstone as above.
- 9180-9184' Shale, medium dark brown to grey-brown, firm, slightly calcareous, slightly silty, scattered irregular gilsonite blebs, carbonaceous with interlaminated-irregular interbedded siltstone as above.
- 9184-9185' Shale, medium to dark grey-brown, firm, calcareous, silty, irregular gilsonite blebs, carbonaceous, pyritic.
- 9185-9186' Shale, as above with interlaminated siltstone, as above.
- 9186-9190' Shale, dark brown, firm, very slightly calcareous, silty, carbonaceous, minor scattered gilsonite blebs, minor siltstone laminated at 9189-90'; shale, as above, pyritic.
- 9190-9195' Shale, medium brown, firm, calcareous to slightly calcareous, silty, carbonaceous, pyritic, gastropod fragments, scattered gilsonite blebs with minor siltstone laminations.
- 9195-9223' Shale, as above with irregular-regular, interlaminated-interbedded siltstone as above; at 9196-97' gastropod fragments; at 9198-99' brachiopod fragments.

(Shale 56'; Siltstone 4')

Core No. 12, 9223-9282' - cut 59', recovered 56'

Coring time: 2, 16, 17, 17, 19 7, 26, 16, 42, 12 14, 14, 13, 13, 14
11, 16, 15, 15, 16 15, 16, 17, 14, 20, 21, 16, 16, 15, 15
15, 14, 14, 13, 18 17, 21, 12, 16, 10 14, 12, 11, 10, 17
14, 22, 14, 11, 14 13, 20, 20, 16, 16, 15, 15, 15, 15, 4
15, 4, 15, 17, 19

9223-9225' Shale, medium grey-brown, firm, slightly calcareous, silty, carbonaceous, scattered irregular gilsonite blebs, pyritic with interlaminated siltstone, medium grey, calcareous, carbonaceous, quartzitic texture.

9225-9279' Shale, medium to dark grey-brown, firm, calcareous, slightly calcareous to very slightly calcareous (calcareous percent increased adjusted to silty zones), slightly carbonaceous, scattered irregular gilsonite blebs-partings (pyritic, associated with gilsonite blebs) with interlaminated-interbedded siltstone as above; at 9232-33', fossil fragments; at 9236-37', shale, as above with 6" bed siltstone as above; at 9237-38', shale, as above with 6" bed siltstone, as above; at 9246-47', fossil fragment impressions (possible brachs); at 9250-51', shale as above with 1/2" bed siltstone, as above; at 9251-52', fossil fragment impressions plus fish scale; at 9252-53', shale as above with 2" bed siltstone as above; at 9274-75', fractures; at 9275-76', shale, as above with fish scales.

(Shale 56 feet)

FORMATION TOPS

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Elevation - 5046' K.B.		
Green River	1203'	(+3843')
H-Marker	3333'	(+1713')
Wasatch	5046'	(+ 396')
B-Marker	5280'	(- 234')
Y-Marker	6266'	(-1220')
Mesaverde	6418'	(-1372') (Farrer Facies Tentative top)
2-Marker	7534'	(-2488')
Neslen Facies	7800'	(-2754') (Tentative top)
4-Marker	8160'	(-3114')
6-Marker	8470'	(-3424')
Buck Tongue	8707'	(-3661')
Castlegate	8776'	(-3730')
Mancos	8984'	(-3938')
Total Depth: Driller	9282'	
Logger	9167'	

SAMPLE DESCRIPTION

<u>Depth</u>	
	(30' samples)
300- 450'	Shale, grey to light grey, soft.
450- 570'	Shale, green, light green, occasionally light grey.
570- 600'	Shale, green, red; trace sandstone, white, fine grain to medium grain (0.1-0.5 mm), unconsolidated.
600- 660'	Sandstone, white, fine grain to coarse grain (0.1-1.0 mm), angular to sub-angular, poor sorting, unconsolidated.
660- 750'	Shale, grey-green, green, soft; sandstone, white, very fine grain to coarse grain (0.06-1.0 mm), angular to sub-angular, poorly sorted, clay-filled, commonly unconsolidated.
750- 840'	Sandstone, white, very fine grain to medium grain (0.06-0.5 mm), angular to sub-angular, poorly sorted, clay-filled; interbedded shale, red and green.
840- 900'	Sandstone, white, very fine grain to very coarse grain (0.06-1.5 mm), sub-angular to angular, poorly sorted, unconsolidated; shale, red, green; trace marlstone, black.
900- 960'	Shale, red, soft.
960- 990'	Shale, red, green, soft; sandstone, white, very fine grain to medium grain (0.06-0.5 mm), angular to sub-angular, poorly sorted, clay-filled, commonly unconsolidated.
990-1050'	Sandstone, white, very fine grain to fine grain (0.06-0.25 mm), occasionally medium grain (0.3 mm), angular to sub-angular, poorly sorted, clay-filled, commonly unconsolidated; trace pyrite; shale, grey.
1050-1110'	Marlstone, brown; trace grey shale.
1110-1140'	Sandstone, light grey, very fine grain (0.06-0.1 mm), angular, moderately well sorted, clay-filled, tight; scattered shale, red, green, unconsolidated sand grain, medium grain to fine grain (0.5-0.1 mm), sub-rounded to sub-angular.
1140-1170'	Shale, brown, grey, trace red, soft, unconsolidated sand grains, very fine grain to medium grain (0.06-0.5 mm), sub-angular to sub-rounded.
1170-1200'	Shale, grey, red, trace green; slight trace sandstone, white, very fine grain (0.06-0.1 mm), angular, well sorted.

- 1200-1260' Shale, red, becoming grey at bottom, very soft, bentonitic, unconsolidated, fine grain to coarse grain (0.1-1.0 mm), sub-angular to sub-rounded.
- 1260-1290' Sandstone, dark grey, very fine grain to fine grain (.06-0.2 mm), angular to sub-angular, well sorted, silty; scattered shale, grey red, unconsolidated sand, fine grain to coarse grain (0.1-1.0 mm), sub-angular to sub-rounded.
- 1290-1350' Shale, red, grey, soft, bentonitic, unconsolidated sand, very fine grain to coarse grain (0.06-1.0 mm), sub-angular to sub-rounded, occasionally round; scattered sandstone, grey, very fine grain to fine grain, angular to sub-angular, well sorted, silty.
- 1350-1440' Sandstone, grey to white, fine grain to very fine grain (0.12-0.06 mm), occasionally medium grain (0.3-0.4 mm), sub-angular, moderately well sorted, clay-filled; siltstone, grey-green to white; trace gray shale, unconsolidated sand, fine to medium grain (0.1-0.5 mm), sub-angular to sub-rounded.
- 1440-1500' Sandstone, grey to light grey, fine grain to very fine grain (0.12-0.06 mm), occasionally medium grain (0.3-0.4 mm), sub-angular, moderately well sorted, clay-filled; siltstone, grey; scattered shale, grey to green, scattered to rare marlstone, light grey, white, green.
- 1500-1560' Sandstone, white to grey, fine grain to very fine grain (0.12-0.06 mm), commonly medium grain (0.3-0.4 mm), sub-angular, moderately well to fair sorted, clay-filled; siltstone, grey; rare to scattered marlstone, grey to brown-grey
- 1560-1650' Sandstone, white to grey, medium grain to very fine grain (0.4-0.06 mm), sub-angular, poor sorting, clay-filled; trace siltstone, grey; trace marlstone, light grey to grey.
- 1650-1680' Siltstone, grey to dark grey, slightly calcareous; sandstone, white to very light grey, fine grain to very fine grain (0.2-0.06 mm), occasionally medium grain (0.3-0.5 mm), sub-angular, moderately well sorted; rare marlstone, light grey, unconsolidated sand, fine to medium grain (0.1-0.5 mm), sub-angular to sub-rounded.
- 1680-1740' Sandstone and unconsolidated sand, white, medium grain to very fine grain (0.06-0.5 mm), sub-angular to angular, fair sorting, commonly clay-filled; scattered siltstone, grey, slightly calcareous; rare marlstone, light grey (by-pass shaker at 1695' - loosening drilling fluid).
- 1740-1830' Sandstone and unconsolidated sand, grey to light grey, occasionally white, medium grain to very fine grain (0.5-0.06 mm), sub-angular, poor sorting, clay-filled, calcareous; scattered siltstone, grey, slightly calcareous; rare to trace marlstone, light grey, occasional shale, red, green.

- 1830-1890' Siltstone, grey, sandy, calcareous; sandstone, grey to light grey, occasionally white, fine grain to very fine grain (0.2-0.06 mm), occasionally medium grain (0.3-0.5 mm), sub-angular, poor sorting, clay-filled, very slightly calcareous; trace red shale; trace marlstone, light grey.
- 1890-1920' Sample missing.
- 1920-1950' Siltstone, grey, sandy, calcareous; scattered marlstone, light grey to grey, rare brown; occasional shale, grey; scattered sandstone, light grey to white, fine grain to very fine grain (0.15-0.06 mm), sub-angular, moderately well sorted, clay-filled, calcareous.
- 1950-1980' Marlstone, light grey to brown; sandstone, light grey to white, fine grain to very fine grain (0.2-0.06 mm), sub-angular, moderately well sorted, clay-filled, calcareous; scattered shale, light grey to tan.
- 1980-2000' Marlstone, grey to brown, trace black (faint cut when crushed); trace shale, tan, bentonitic.
(10' samples: 2000'-
- 2000-2100' Marlstone, brown, light brown, grey, light grey, occasionally dark grey, very faint cut on dark grey crushed sample.
- 2100-2240' Marlstone, brown, light brown, brown-grey, occasionally dark grey, faint to very faint cut on crushed samples (sample missing at 2210-2220').
- 2240-2340' Marlstone, tan, brown, light brown, grey, very faint to faint cut on crushed sample, scattered tuffaceous siltstone, cream, calcareous; scattered shale, cream, soft, calcareous.
- 2340-2500' Marlstone, tan, brown, light brown, grey, faint to good cut on crushed sample, tuffaceous siltstone, cream, calcareous; shale, cream, soft, calcareous, becoming more common.
- 2500-2570' Marlstone, tan, brown, grey-brown, faint to good cut on crushed sample; scattered shale, cream, very soft, calcareous.
- 2570-2710' Marlstone, tan, brown, grey-brown, dark grey, faint to good cut on crushed sample; scattered shale, cream, tan, soft, calcareous.
- 2710-2760' Tuffaceous siltstone, very light cream to white, slightly calcareous; marlstone, grey, brown-grey, faint cut on crushed sample.
- 2760-2850' Marlstone, brown-grey, grey, brown, very faint cut on crushed sample; shale, grey, brown-grey, tuffaceous; siltstone, white to light cream, slightly calcareous.

- 2850-2950' Marlstone, grey, brown-grey, tan, very faint cut on crushed sample; shale, cream, tan, calcareous, firm to soft, tuffaceous.
- 2950-3020' Marlstone, grey, light grey, brown-grey, tan, very faint cut on crushed sample; shale, cream, tan, calcareous, firm to soft, tuffaceous; scattered sandstone, light grey, very fine grain, angular, well sorted.
- 3020-3090' Marlstone, grey, light grey, brown-grey, very faint cut on crushed sample; shale, cream, tan, grey, red, soft to firm, calcareous, occasional tuffaceous; trace sandstone, light grey, very fine grain, angular, well sorted.
- 3090-3290' Shale, very light cream, soft, calcareous; marlstone, grey, light grey, brown-grey, very faint cut on crushed sample; shale, grey, tan, soft to firm, calcareous, dolomite.
- 3290-3330' Marlstone, grey, brown-grey, very faint cut on crushed sample; shale, grey, tan, grey-green, occasionally light cream, soft to firm, occasionally calcareous.
- 3330-3360' Shale, grey, light grey, trace red, commonly calcareous, soft to firm; marlstone, brown-grey, brown.
- 3360-3370' Shale, tan, grey, brown-grey, soft to firm; marlstone, grey, brown-grey.
- 3370-3390' Shale, grey, grey-green, calcareous; marlstone, grey, brown, marrcasite.
- 3390-3410' Shale, grey-green, grey, calcareous; occasional marlstone, grey.
- 3410-3450' Marlstone, medium brown to grey brown to medium grey, crypto-crystalline, dense, positive acid test (CO_3 will float and/or bounce to the surface in acid when traces of hydrocarbon is present), cut fluorescence on crushing; shale, grey, very calcareous, firm (approximately 50%).
- 3450-3510' Marlstone, medium brown, medium to dark grey, crypto-crystalline, dense; limestone, cream to light tan, ostracod, spar cement; sandstone, white to light grey, very fine to medium grain (.0625-.300 mm), sub-angular to sub-rounded, fair to good sorting, salt and pepper, calcareous cement, scattered biotite grams, scattered calcareous grains (ostracod, rip-up clasts); shale, as above.
- 3510-3540' Sandstone as above; marlstone as above with trace pyrite; siltstone, white to light grey (less than .06 mm), very calcareous, salt and pepper in part, slightly glauconitic; shale, grey, grey-green, very calcareous, waxy, firm.

- 3540-3600' Shale, grey, green-grey, very calcareous, firm, splintery-blocky; marlstone as above.
- 3600-3630' Sandstone, white to light grey, very fine to fine grain (.1-.2 mm), sub-angular to sub-rounded, well sorted, calcareous, slight salt and pepper, mineral and possible hydrocarbon, yellow fluorescence, strong, milky, white cut; drilling break from 3598-3605'; shale, grey, green-grey, grey-green, red-brown, calcareous, firm, splintery-blocky.
- 3630-3660' Shale, grey, green-grey, red-brown, calcareous, firm, splintery-blocky.
- 3660-3720' Sandstone, white to light grey, very fine to fine grain (.1-.2mm), sub-angular to sub-rounded, well sorted, very calcareous, slight salt and pepper; marlstone as above; limestone, cream to light tan, ostracod as above; shale as above.
- 3720-3750' Marlstone, medium brown, grey-brown, crypto-crystalline, dense, positive acid test, cut fluorescence on crushing; limestone as above; shale as above.
- 3750-3780' Sandstone as above; shale, light grey to medium grey, calcareous, platy-blocky-splintery, firm.
- 3780-3810' Siltstone, light grey to white, calcareous, slight salt and pepper; shale, light to medium grey, green-grey as above with few pieces sandstone as above.
- 3810-3840' Shale as above; siltstone as above; sandstone as above.
- 3840-3870' Siltstone as above; shale as above; sandstone as above.
- 3870-3900' Shale, medium grey, green-grey, calcareous, firm, blocky-splintery; sandstone as above; siltstone as above with minor marlstone, medium brown as above and few pieces limestone, cream to light tan, ostracod, as above.
- 3900-3930' Marlstone, tan to medium brown, crypto-crystalline, dense, positive acid test; shale as above.
- 3930-3960' Shale as above; marlstone as above.
- 3960-4020' Shale, light to medium grey, green-grey as above; marlstone as above; siltstone as above.
- 40290-4110' Marlstone, medium to dark brown, crypto-crystalline, dense, positive acid test; shale as above.
- 4110-4140' Siltstone, light grey, calcareous; marlstone as above; shale as above; sandstone, white to light grey, very fine grain (.06 mm), sub-angular to sub-rounded, well sorted, calcareous.

- 4140-4290' Marlstone, tan, light to medium to dark brown as above with some ostracod limestone as above; shale, light to medium grey, green-grey, calcareous, firm, blocky-splintery, few pieces Mother of Pearl.
- 4290-4380' Sandstone, clear to white to light grey, fine to medium grain (.1-.5 mm), very friable (many loose grains), sub-angular to well rounded, well sorted, slightly calcareous, yellow fluorescence, slow, even, milky-white cut, few loose grains (less than .5 mm); shale as above with few pieces shale, brick red, very calcareous, Tertiary-Wasatch transition; marlstone as above.
- 4380-4410' Shale, green-grey, light to medium grey, calcareous to slightly calcareous, firm, blocky, silty in part; sandstone as above.
- 4410-4440' Shale as above with minor shale, brick-red as above; sandstone as above; limestone, white to cream to tan ostracod, chalky in part.
- 4440-4470' Shale, light to medium grey, brick red, slightly calcareous, firm, blocky-splintery; limestone as above; marlstone as above.
- 4470-4530' Shale, light to medium grey, green-grey, brick red, medium brown, very slightly calcareous as above; marlstone as above; limestone as above.
- 4530-4560' Limestone, tan to cream to light brown, crypto-crystalline, dense, chalky in part, oolitic, ostracod; shale as above.
- 4560-4590' Shale, light to medium grey, green-grey, brick red, brown, slightly calcareous, firm, blocky-splintery; limestone as above, sandstone as above.
- 4590-4650 Sandstone, clear to white to light grey, very fine to medium grain (.1-.4 mm), sub-angular to sub-rounded to well rounded, well sorted, friable, slightly calcareous to very calcareous, clay-filled in part, slight salt and pepper in part; shale as above.
- 4650-4680' Shale as above; sandstone as above.
- 4680-4740' Shale, light to medium grey, green-grey, medium brown, brick red, yellow to green yellow, slightly calcareous, firm, blocky-splintery, variegated, varicolored.
- 4740-4770' Shale as above; sandstone as above.
- 4770-4890' Shale, light to medium grey, green-grey, brick red, medium brown, yellow to brown-yellow, purple, variegated, varicolored as above.
- 4890-4920' Sandstone, clear to white to light grey, very fine to fine grain (.06-.25 mm), sub-angular to sub-rounded, friable, slight calcareous; shale as above.

- 4920-4950' Shale, varicolored, variegated as above; sandstone as above.
- 4950-4980' Shale as above.
- 4980-5100' Shale as above; sandstone as above (minor amounts at 5010-5100').
- 5100-5160' Sandstone, clear to white to light grey, very fine to medium grain (.1-.4 mm), sub-angular to sub-rounded to well rounded, very friable, slightly calcareous, slightly clay-filled in part. slightly salt and pepper in part; shale as above. Excellent gas show, 1440 units with C₁-1100 units; no cut fluorescence but sample predominately loose grain. DST #1, 5121-total depth.
- 5160-5190' Shale as above; sandstone as above.
- 5190-5220' Shale as above; sandstone, white to clear to light grey, very fine to fine grain (.05-.2 mm), sub-angular to sub-rounded, fair to well sorted, calcareous cement in part; clay-filling in part.
- 5220-5250' Missing sample.
- 5250-5310' Shale, varicolored, variegated (brown-red, light to medium purple, light grey to green grey, green-yellow), calcareous in part, silty in part; siltstone, brown-red, slightly calcareous to calcareous, argillaceous.
- 5310-5370' Siltstone, light grey, varicolored, salt and pepper, clay-filled, calcareous cement; shale as above, sandstone. light grey, very fine to fine grain (.06-.25 mm), varicolored grain (quartz grain and green, red black), sub-angular to sub-rounded, fair sorted, clay-filled, calcareous, calcareous cement in part.
- 5370-5610' Shale as above (small hot wire show from sandstone at 5392-5400'); sandstone as above; siltstone as above. Small hot wire show from sandstone at 5511-5520'; sandstone as above. Small hot wire show from sandstone at 5534-5540'; sandstone as above.
- 5610-5640' Sandstone, light grey (varicolored as above), very fine to fine grain (.06-.25 mm), sub-angular to sub-rounded, fair sorted, clay-filled, calcareous, calcareous in part.
- 5640-5670' Shale as above; siltstone as above.
- 5670-5700' Siltstone as above; sandstone as above.
- 5700-5730' Shale, varicolored, variegated (brown-red, purple, very light grey to light grey, yellow, black, grey-green), firm, blocky-splintery, silty in part; calcareous in part.
- 5730-5760' Shale as above; sandstone as above.

- 5760-5790' Missing sample. Small hot wire show from sandstone at 5763-5779'. Sandstone as above.
- 5790-5820' Sandstone as above; shale as above.
- 5820-5850' Shale, medium grey to dark grey, brown-red, varicolored, variegated as above; sandstone as above; siltstone as above.
- 5850-5880' Sandstone, light grey, varicolored grain as above, very fine to fine grain (.06-.25 mm), sub-angular to sub-rounded, fair sorted, clay-filled, calcareous, calcareous cement in part; shale as above.
- 5880-5940' Shale as above; sandstone as above.
- 5940-6030' Shale as above.
- 6030-6090' Shale as above; siltstone, light to medium grey, salt and pepper, calcareous, calcareous cement in part; sandstone as above at 6024-6034'.
- 6090-6150' Shale as above; sandstone as above.
- 6150-6180' Siltstone as above; shale as above.
- 6180-6270' Shale as above.
- 6270-6300' Shale as above; sandstone, light grey, very fine to fine grain (.06-.2 mm), salt and pepper, varicolored grain, sub-angular to sub-rounded, fair to well sorted, calcareous cement in part, clay-filled in part; grading to siltstone, light grey, salt and pepper, calcareous cement, argillaceous.
- 6300-6390' Shale as above; siltstone as above.
- 6390-6500' Shale as above; sandstone as above; siltstone as above; at 6450-6480' few pieces of coal; shale as above; sandstone as above.
- 6500-6550' Shale as above; sandstone as above; siltstone as above; at 6520-6530' few pieces of siltstone with medium to coarse grains (.5-.6 mm), conglomeratic.
- 6550-6590' Shale as above; sandstone as above.
- 6590-6610' Missing sample.
- 6610-6800' Shale, light to medium grey, green-grey, brown-red, purple, brown-yellow, dark grey to black, varicolored, variegated, firm, blocky-splintery, calcareous in part, carbonaceous in part, silty in part, trace pyrite; sandstone, light grey, very fine to medium grain (.6-.5 mm), salt and pepper, sub-angular to sub-rounded, fair to well sorted, clay-filled in part, calcareous

in part with few rip up clasts dark grey shale (.5-.6 mm);
in sandstone at 6610-20', increasing sandstone amount at
6720-40', 6770-80', few pieces coal at 6710-6800'.

- 6800-6850' Shale, grey to dark grey, grey-green, occasionally red;
sandstone, light grey to white, very fine grain to fine
grain (0.05-0.25 mm), occasionally medium grain (0.25-0.50 mm),
sub-angular to angular, poor to fair sorting, clay-filled,
calcareous, trace coal.
- 6850-6870' Sandstone, white, salt and pepper, fine grain to medium grain
(0.1-0.4 mm), sub-angular, poor sorting, clay-filled, calcareous;
trace grey, sandy siltstone, occasionally carbonaceous; shale,
grey, trace coal.
- 6870-6910' Sandstone, white, salt and pepper, medium grain to fine grain
(0.5-0.1 mm), sub-angular, fair sorting, clay-filled, calcareous;
scattered shale, grey to dark grey, occasionally silty.
- 6910-6930' Sandstone, white, salt and pepper, fine grain to medium grain
(0.1-0.5 mm), sub-angular, poor to fair sorting, calcareous to
slightly calcareous, clay-filled; shale, grey to dark grey.
- 6930-6960' Sandstone, white, salt and pepper, medium grain to fine grain
(0.5-0.1 mm), sub-angular, poor sorting, slightly calcareous,
clay-filled; scattered shale, grey to dark grey; rare limestone,
light tan; scattered siltstone, grey.
- 6960-6990' Shale, grey, dark grey, occasionally grey-green; scattered silt-
stone, grey, sandy; sandstone, white, salt and pepper, fine grain
to medium grain (0.1-0.5 mm), sub-angular to sub-rounded, poor
sorting, calcareous, clay-filled.
- 6990-7020' Sandstone, light grey to white, salt and pepper, fine grain to
medium grain (0.1-0.4 mm), sub-angular to sub-rounded, poor
sorting, calcareous, clay-filled, occasionally silty; shale,
grey to dark grey; siltstone, grey, occasional coal (coal with
gas at 6994-6999').
- 7020-7040' Sandstone, white, salt and pepper, fine grain to medium grain
(0.1-0.4 mm), occasionally very fine grain (0.06-0.09 mm), sub-
angular, fair to poor sorting, calcareous, clay-filled; shale,
grey to dark grey; siltstone, grey, slight trace coal.
- 7040-7055' Core No. 1.
- 7055-7100' Core No. 2.
- 7100-7130' Shale, medium grey to medium brown-grey; firm, blocky, slightly
calcareous (large amount cavings); sandstone, light grey, very,

- very fine to medium grain (.08-.3 mm), sub-angular to sub-rounded, fair to well sorted, salt and pepper, calcareous, clay-filled; at 7130-40', poor sample, predominately cavings.
- 7130-7140' Sandstone, white to light grey, very fine to fine grain (.06-.2 mm) as above; shale, as above; siltstone, medium grey, salt and pepper, calcareous, argillaceous.
- 7140-7160- Shale, as above; sandstone, as above; at 7150-7160' very poor samples.
- 7160-7240' Sandstone, white to light grey, very fine to medium grain (.06-.4 mm), sub-angular to sub-rounded, fair to well sorted, salt and pepper, calcareous, clay-filled; shale, medium grey to medium dark grey-brown, firm, blocky, slightly calcareous, silty in part, carbonaceous partings, fossiliferous in part; siltstone, as above; interbedded sandstone and shale; at 7170-80', minor amounts coal.
- 7240-7250' Shale, as above; sandstone, as above; siltstone, as above.
- 7250-7270' Sandstone, white to light grey, very fine to medium grain (.06-.4 mm); siltstone, white to light grey to medium grey, salt and pepper, carbonaceous partings, calcareous, argillaceous; shale as above with coal partings.
- 7270-7300' Shale, medium dark grey to medium grey-brown, firm blocky-splintery, slightly calcareous, carbonaceous in part, silty in part; sandstone as above; siltstone as above; at 7290-7300' shale as above; minor sandstone and siltstone, as above.
- 7300-7340' Shale as above; sandstone as above; siltstone as above; interbedded shale and sandstone.
- 7340-7350' Sandstone, white to light grey, very fine to fine grain (.06-.2 mm), sub-angular to sub-rounded, fair to well sorted, salt and pepper, slightly calcareous, carbonaceous partings, clay-filled; minor shale, as above.
- 7350-7370' Sandstone as above; shale as above.
- 7370-7380' Sandstone as above; siltstone, light to medium grey, salt and pepper, slightly calcareous, argillaceous; shale as above.
- 7380-7400' Sandstone as above; siltstone as above; minor shale as above.
- 7400-7410' Sandstone as above; shale as above; minor siltstone as above.
- 7410-7420' Sandstone as above; minor shale as above; minor siltstone as above.
- 7420-7430' Sandstone as above; shale as above; minor siltstone as above.

- 7430-7490' Core No. 3 (cut 60', recovered 60' - sandstone 41', shale 17', marlstone 2').
- 7490-7510' Shale, medium to dark brown-grey to medium grey-brown, firm, blocky, slightly calcareous, silty in part, carbonaceous, irregular carbonaceous-coal partings; sandstone, light grey, very fine to fine grain (.06-.3 mm), sub-angular to sub-rounded; fair to well sorted, salt and pepper, calcareous, clay-filled, minimum fluorescence, no cut.
- 7510-7550' Sandstone as above; shale as above; minor siltstone, light to medium grey, salt and pepper, calcareous, argillaceous; much cavings; probably interbedded sandstone-shale.
- 7550-7580' Shale as above; sandstone as above; minor siltstone as above; interbedded sandstone-shale.
- 7580-7620' Sandstone as above; shale as above; siltstone as above; interbedded sandstone-shale.
- 7590-7600' Missing sample.
- 7620-7650' Shale as above; sandstone as above; siltstone as above; interbedded, minor coal.
- 7650-7690' Sandstone, grey, light grey, salt and pepper, very fine grain to fine grain (0.06-0.25 mm), occasionally medium grain (0.3 mm), sub-angular to angular, fair sorting, commonly clay-filled; siltstone, dark grey, hard; shale, grey, dark grey, brown.
- 7690-7700' Sandstone, grey, light grey, salt and pepper, very fine grain to fine grain (0.06-0.25 mm), sub-angular to angular, fair sorting, commonly clay-filled; siltstone, dark grey; shale, grey, trace coal.
- 7700-7740' Sandstone, light grey to white, salt and pepper, very fine grain to fine grain (0.05-0.2 mm), sub-angular to angular, poor to fair sorting, commonly clay-filled; siltstone, dark grey; shale, grey, dark grey.
- 7740-7800' Sandstone, white, salt and pepper, very fine grain to fine grain (0.05-0.25 mm), occasionally medium grain (0.03 mm), sub-angular, poor sorting, commonly clay-filled; shale, grey, dark grey, scattered carbonaceous material in shale; scattered siltstone, dark grey.
- 7800-7810' Shale, light grey to dark grey, silty; sandstone, grey, light grey, salt and pepper, very fine grain to fine grain (0.1-0.2 mm), sub-angular, poor to fair sorting, commonly clay-filled.
- 7812-7835' Core No. 4 (cut 23', recovered 23').

- 7835-7859' Core No. 5 (cut 24', recovered 23').
- 7860-7970' Shale, light grey to dark grey; siltstone, dark grey; sandstone, light grey, salt and pepper, fine grain to very fine grain (0.1-0.25 mm), sub-angular, poorly sorted, clay-filled, occasionally trace coal.
- 7970-8000' Sandstone, white, salt and pepper, fine grain to very fine grain (0.25-0.1 mm), sub-angular, moderately well sorted, clay-filled; siltstone, grey, dark grey; shale, grey, trace coal.
- 8000-8030' Siltstone, grey to dark grey; shale, grey to dark grey; sandstone, light gray, white, salt and pepper, fine grain to very fine grain (0.25-0.08 mm), occasionally medium grain (0.03 mm), sub-angular, fair to poor sorting, commonly clay-filled, possible fluorescent cut, scattered to commonly coal.
- 8032-8074' Core No. 6, (cut 42', recovered 36')
- 8070-8080' Shale, medium dark grey-brown to medium brown-grey, firm, blocky, silty to very silty, carbonaceous, irregular coal partings; siltstone, medium grey, salt and pepper, calcareous; cavings.
- 8080-8090' Shale, as above; sandstone, light grey, very fine grain (.06-.1 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, clay-filled in part, quartzitic texture in part, irregular carbonaceous coal partings; siltstone, medium grey to medium brown, as above; coal, interlaminated-interbedded liths.
- 8090-8120' Sandstone, white to light grey, very fine to fine grain (.06-.2 mm), sub-angular to sub-rounded, salt and pepper, calcareous, clay-filled, irregular coal partings; shale, as above; siltstone as above; coal.
- 8120-8130' Shale, as above; sandstone, as above; siltstone, as above; coal.
- 8130-8140' Siltstone, medium brown-grey, very argillaceous, grading to shale, as above; sandstone, as above, coal.
- 8140-8190' Shale, as above; sandstone, as above; siltstone, as above; minor coal.
- 8190-8210' Sandstone, as above; siltstone, as above; shale, as above; minor coal.
- 8210-8220' Shale, as above; sandstone, as above; siltstone, as above; minor coal.
- 8220-8230' Sandstone, as above; siltstone, as above; shale, as above.
- 8230-8250' Siltstone, medium brown-grey to medium grey-brown, argillaceous grading to shale, as above; sandstone, as above.

- 8250-8280' Sandstone, white to light grey, very fine to fine grain (.06-.2 mm), sub-angular to sub-rounded, fair to well sorted, salt and pepper, calcareous, clay-filled in part; shale, as above.
- 8280-8290' Missing sample.
- 8290-8310' Sandstone, as above; shale, as above; siltstone, as above; few pieces coal.
- 8310-8320' Sandstone, as above; siltstone, as above; shale, as above.
- 8320-8340' Siltstone, white to light grey (medium brown-grey to medium grey-brown, grading to shale, as above); shale, as above; sandstone, as above; few pieces of coal.
- 8340-8360' Shale, as above; sandstone, as above; minor coal.
- 8360-8370' Sandstone, white to light grey, very fine to fine grain (.06-.2 mm), sub-angular to sub-rounded, well sorted, salt and pepper, slightly calcareous, clay-filled, quartzitic texture in part, irregular coal partings, minor iron stain; siltstone, light grey to medium grey, medium brown-grey, slightly calcareous, argillaceous, grading into shale; shale, medium to dark grey-brown to medium brown-grey, firm blocky, silty to very silty, carbonaceous, irregular coal partings; few pieces coal; interlaminated to interbedded liths.
- 8370-8390' Shale, as above; sandstone, as above; siltstone, as above; minor coal.
- 8390-8470' Sandstone, as above; siltstone as above; shale, as above; coal, interlaminated to interbedded liths.
- 8470-8480' Shale, as above; sandstone, as above; coal.
- 8480-8490' Coal; sandstone, as above; shale, as above.
- 8490-8510' Shale, as above; siltstone, as above; sandstone, as above; coal, interlaminated to interbedded liths.
- 8510-8520' Sandstone, as above; shale, as above.
- 8520-8540' Shale, as above; sandstone, as above; minor coal.
- 8540-8550' Sandstone, as above; shale, as above; coal.
- 8550-8660' Shale, as above; sandstone, as above; siltstone, as above; minor coal, interlaminated to interbedded liths; at 8590-8600', increasing in coal.
- 8660-8680' Sandstone, white to light grey, very fine to fine grain (.06-.25 mm),

sub-angular to sub-rounded, well sorted, salt and pepper, slightly calcareous, clay-filled in part, quartzitic texture in part, slightly friable in part; shale, medium grey-brown to medium brown-grey, firm, blocky, very slightly calcareous, carbonaceous, irregular coal partings, silty to very silty and grading to siltstone; siltstone, light medium grey to medium brown, salt and pepper, calcareous, carbonaceous, grading to shale, as above; interlaminated to interbedded liths.

- 8680-8690' Shale, as above; sandstone, as above; siltstone, as above.
- 8690-8711' Core No. 7.
- 8711-8769' Core No. 8.
- 8769-8789' Core No. 9.
- 8790-8820' Shale, grey, dark grey, silty; sandstone, white, salt and pepper, fine grain, occasionally medium grain (0.15-0.20, 0.30 mm), sub-angular, moderately well sorted, clay-filled, slightly calcareous, scattered coal.
- 8820-8850' Siltstone, dark grey, black; shale, dark grey, black; sandstone, white, salt and pepper, fine grain, occasionally medium grain (0.18-0.30 mm), sub-angular, moderately to well sorted, clay-filled, calcareous.
- 8850-8860' Siltstone, black, carbonaceous, coal; sandstone, grey, salt and pepper, very fine grain to fine grain (0.06-0.25 mm), sub-angular, fair to well sorted, clay-filled, occasionally calcareous.
- 8860-8870' Sandstone, brown to grey, fine grain, occasionally medium grain (0.1-0.2, 0.3 mm), sub-angular, moderately well sorted, scattered brown spots with no fluorescence or cut; siltstone, dark gray to black, carbonaceous, scattered coal.
- 8870-8920' Sandstone, light grey to grey, very fine grain to fine grain (0.09-0.25 mm), sub-angular, moderately well sorted, occasionally clay-filled; siltstone, grey, dark grey, occasionally carbonaceous; shale, grey, dark grey, coal.
- 8920-8960' Sandstone, light grey, white, salt and pepper, very fine grain to fine grain, occasionally medium grain (0.08-0.25, 0.30 mm), sub-angular, fair sorting, clay-filled; siltstone, grey to dark grey, scattered carbonaceous material; shale, dark grey to black, commonly carbonaceous, trace coal.
- 8960-8970' Sandstone, light grey, salt and pepper, fine grain to medium grain (0.2-0.4 mm), sub-angular, fair sorting, clay-filled, very slightly calcareous, coal common.

- 8970-8980' Sandstone, light grey, salt and pepper, fine grain to medium grain (0.2-0.5 mm), sub-angular, fair to poor sorting, clay-filled, very slightly calcareous; trace siltstone, dark grey, occasionally sandy, scattered coal.
- 8980-8990' Coal; shale, grey to dark grey, occasionally silty; sandstone, light grey, grey, salt and pepper, fine grain to medium grain (0.2-0.4 mm), sub-angular, poor to fair sorting, clay-filled, very slightly calcareous.
- 8990-9032' Core No. 10.
- 9050-9070' Siltstone, medium grey to light grey, calcareous, carbonaceous, quartzitic texture in part, grading to shale in part; sandstone, white to light grey, very fine to medium grain (.06-.3 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, clay-filled, quartzitic texture in part; shale, dark grey to black, silty, calcareous, carbonaceous, irregular coal partings; trace coal.
- 9070-9080' Sandstone, white to light grey, very fine to medium grain (.06-.4 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, clay-filled, irregular carbonaceous-coal partings, quartzitic texture in part, very slight iron stain; shale, as above; minor coal.
- 9080-9090' Sandstone, as above; siltstone as above; shale, as above; minor coal.
- 9090-9130' Siltstone, as above; sandstone, as above; shale, as above; minor coal.
- 9130-9140' Sandstone, white to light grey, very fine to medium grain (.06-.3 mm), sub-angular to sub-rounded, well sorted, salt and pepper, calcareous, clay-filled, carbonaceous, quartzitic texture in part, irregular carbonaceous-coal partings; siltstone, as above, shale, as above; coal.
- 9140-9160' Siltstone, as above; sandstone, as above, coal; minor shale, as above.
- 9163-9223' Core No. 11, cut 60', recovered 60'
- 9223-9282' Core No. 12, cut 59', recovered 56'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP
(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-7386
2. NAME OF OPERATOR Natural Gas Corporation of California for PTS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 85 South 200 East, Vernal, UT 84078		7. UNIT AGREEMENT NAME Sand Ridge II
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE SW 1980' FWL 1983 FSL Section 25, T.8S., R.23E.		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-047-30230		9. WELL NO. PTS 23-25 Fed
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5030' GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
		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 PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Request Temporary Surface Pit <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 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 J. Ryan TITLE Petroleum Engineer DATE November 15, 1984

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action is required before commencing operations.

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

DATE: 12/20/84
William J. Ryan

*See Instructions on Reverse Side

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

SEE ATTACHED LIST

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

SEE ATTACHED LIST

10. FIELD AND POOL, OR WILDCAT

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

12. COUNTY OR PARISH

13. STATE

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, CR, etc.)

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

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.)

The attached list will advise you of the designated Operator on several leases for which there has been some confusion in the past as to the actual operator.

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

SIGNED

Kathy Knudson

TITLE Technical Assistant

DATE

April 1, 1985

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

WELL NO	LOCATION, TWP, RNG, COUNTY	LEASE NUMBER	DES/OPER	DATE	REMARKS
21-22	NE/NW Sec 22, T12S, R15E, Carbon	U-11604	* PTS	1978	
1-11	SW/SE Sec 11, T12S, R14E, Carbon	U-15254	PTS	1984	
41-9	NE/NE Sec 9, T9S, R24E, Uintah	U-5217	** NGC	1977	NGC Unit Operator
23-25	NE/SW Sec 25, T8S, R23E, Uintah	U-7386	NGC	1977	NGC Unit Operator
23-11	NE/SW Sec 11, T9S, R23E, Uintah	U-0146800	NGC	1977	NGC Unit Operator
33-11	NW/SE Sec 11, T16S, R24E, Grand	U-10423	PTS		PTS has CA which overrides NGC's DO
4-5	NE/SE Sec 5, T10S, R23E, Uintah	U-33433	NGC	1984	

* PACIFIC TRANSMISSION SUPPLY

** NATURAL GAS CORPORATION OF CALIFORNIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLE
(Other instructions
verse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

SEE BELOW

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal PTS

9. WELL NO.

SEE BELOW 23-25

10. FIELD AND POOL, OR WILDCAT

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

Sec 25 T. 8S R. 23E

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

RECEIVED

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

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

AUG 14 1985

DIVISION OF OIL
GAS & MINING

14. PERMIT NO.

15. ELEVATIONS (Show whether DP, RT, GR, etc.)

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) ASSIGNMENT OF LEASES

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANE

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.)

Natural Gas Corporation reports that the following Federal Leases and wells located in the Sand Ridge II Unit have been assigned to Alta Energy on May 31, 1985.

PTS 23-25	NE/SW Sec 25, T8S, R23E	U-7386	SIGW
PTS 23-11	NE/SW Sec 11, T9S, R23E	U-0146800	SIGW
	T8S, R23E	U-13364	

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

SIGNED

Kathy Knutson

TITLE

Technical Assistant

DATE

8-9-85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

COLUMBIA GAS
Development



March 10, 1987

State of Utah
Natural Resources
Oil, Gas & Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Ms. Tammy Searing

Reference: Sand Ridge II Unit
Federal #23-25
Sec. 25, T8S, R23E
Uintah County, Utah
NE/4SW/4, 1980' FWL & 1983' FSL
API #43 047 30230
Lease #U-7386

Dear Ms. Searing:

Enclosed please find three copies of the State of Utah Sundry Notice to change operator on the Sand Ridge II unit well, the Federal #23-25 from Alta Energy Corporation to Columbia Gas Development Corporation, effective March 1, 1987.

Please process this Sundry and issue the necessary documentation for Columbia to assume operator status and report production from this well. It is Columbia's understanding they will be responsible for the production reporting beginning March 1, 1987 which will be due April 30, 1987. Should you require additional information, please contact Ms. Vicki Guidry, Production Technician, at 713/787-3484 or the undersigned. Your assistance is appreciated.

Yours truly,

A handwritten signature in cursive script that reads "Lynn Roque".

Lynn Roque
Regulatory Technician
713/787-3482

A rectangular stamp with the word "RECEIVED" in large, bold, outlined letters. Below it, the date "MAR 13 1987" is stamped in a smaller font.

DIVISION OF
OIL, GAS & MINING

lr
Enclosures

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

SUBMIT IN TRIPLED COPY
SEE INSTRUCTIONS ON
REVERSE SIDE

031613

SGW

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. U-7386
1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR Alta Energy Corporation		7. UNIT AGREEMENT NAME Sand Ridge II
3. ADDRESS OF OPERATOR 500 N. Loraine, #900, Midland, Texas 79701		8. FARM OR LEASE NAME Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FWL 1983' FSL		9. WELL NO. 23-25
14. PERMIT NO. 43-047-30-230		10. FIELD AND POOL, OR WILDCAT Undesignated
15. ELEVATIONS (Show whether SP, ST, GR, etc.) 5030' GR		11. SEC., T., R., M., OR S.E. AND SURVEY OR ABBA Sec. 25, T-8-S, R-23-E
		12. COUNTY OR PARISH 13. STATE Uintah 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"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDISE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) Operator Change	PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETS <input type="checkbox"/> ABANDON* <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDISING <input type="checkbox"/> (Other) _____	REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <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.)

Change Operator from Alta Energy Corporation to Columbia Gas Development Corp.
P. O. Box 1350
Houston, Texas 77251-1350

Change of Operator effective March 1, 1987.

RECEIVED

MAR 13 1987

DIVISION OF
OIL, GAS & MINING

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

SIGNED R. F. Bailey TITLE President DATE MAR 4 1987
R. F. Bailey

(This space for Federal or State office use)

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

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

5. LEASE DESIGNATION AND SERIAL NO.
U-7386 SGW-WSTC

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
Sand Ridge II

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#23-25

10. FIELD AND POOL, OR WILDCAT
Wasatch

11. SEC., T., E., M., OR BLK. AND SURVEY OR ABRA
Sec. 25-8S-23E

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
Columbia Gas Development Corporation

713/787-3400

3. ADDRESS OF OPERATOR
P.O. Box 1350, Houston, Texas 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1980' FNL 1983' FSL

14. PERMIT NO.
43-047-30-230

15. ELEVATIONS (Show whether OP, RT, OR, etc.)
5030' 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) _____	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
(Other) Permit for 2 Water Disposal Pits <input checked="" type="checkbox"/>			

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.)

Maintain 2 fenced disposal pits under NTL-2B.
The first disposal pit is 8'x8'x4' and located 50' from the well. The well is basically a dry gas well that makes 100 MCFD and 1 BWPD. This pit is used for the water disposal from the separator and the condensation drip from the dehydrator.
The second disposal pit is 30'x30'x6' and located 490' from the well. Verbal permission to maintain this pit was originally given by Greg Darlington of the BLM, Vernal, Utah. This pit is used as a blow down pit to periodically (3 times a week) unload the well of water. When the well is blown down, the well unloads less than 2 barrels of liquid. Without this pit, this well will have to be shut-in.

Estimated Evaporation Rate: 34" from March 1 - October 31; 0" from October 31 - March 1.
(Information from the USDA Soil and Conservation Service)

Estimated Percolation Rate: First Pit: Adjacent to Pit: Sandy loam with 60% sand, 25% silt, and 15% clay which corresponds to a 3" per hour soil permeability.
Bottom of Pit: Sandy loam with 60% sand, 28% silt, and 12% clay which corresponds to a 3.5" per hour soil permeability.
Second Pit: Adjacent to Pit: Sandy loam with 60% sand, 25% silt, and 15% clay which corresponds to a 3" per hour soil permeability.
Bottom of Pit: Sandy loam with 60% sand, 25% silt, and 15% clay which corresponds to a 3" per hour soil permeability.

(The sand, silt, clay analysis performed by Richard Foster of the USDA Soil Conservation Service in Vernal, Utah. The permeability correlation is from the "Soil Permeability Class Related (CONT)

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

SIGNED U. J. Datta TITLE Staff Production Engineer DATE 1-11-88

(This space for Federal or State office use)

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

SAND RIDGE II #23-25

CONT-----...To Texture" published by the U.S. Department of Agriculture, Bureau of Plant Industry, Soils, and Agricultural Engineering.)

Depth and Areal Extent of All Usable Water: The depth of usable water aquifers in the Sandridge Field is between 2000' and 4000' and extends across the entire field area. This data is from Gilbert Hund of Utah's Division of Oil, Gas and Mining.

Water Analysis: This well is shut-in due to frozen lines. When the well is put back on line, water samples will be analyzed and sent in under separate cover.



January 13, 1988

020810

State of Utah
Natural Resources
Division of Oil, Gas and Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Ms. Arlene Sollis
Oil & Gas Permitting

Reference: Sundry Notice for Water Disposal Pits
Sandridge #23-25
Sec. 25, T8S, R23E 43-047-30230 SGW-WSIC
Uintah County, Utah
Utah Federal "D" #3
Sec. 25, T7S, R24E
Uintah County, Utah

Dear Ms. Sollis:

Enclosed please find the original and two copies of Sundry Notices requesting permission to maintain water disposal pits for the Sandridge #23-25 and Utah Federal "D" #3 wells in Uintah County, Utah.

Should you have any questions, or require additional information, please contact myself or Bill Ditter, Staff Production Engineer, at 713/787-3400.

Thank you for your assistance.

Very Truly Yours,

A handwritten signature in cursive script that reads "Trisha M. DiClementi".

Trisha M. DiClementi
Regulatory Technician

tmd
Enclosures

cc: N.R. Smith
D.P. Roy



STATE OF UTAH
 NATURAL RESOURCES
 Oil, Gas & Mining

Norman H. Bangerter, Governor
 Dee C. Hansen, Executive Director
 Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 1, 1988

Columbia Gas Development Corporation
 5847 San Felipe
 P.O. Box 1350
 Houston, Texas 77251-1350

Gentlemen:

Re: Request for Approval of Unlined Water Disposal Pits

This letter responds to your request for approval of unlined produced water disposal pits for the following wells in Uintah County, Utah:

Sandridge #23-25
 Sec. 25, T. 8S, R. 23E
 Federal lease no. U-7386

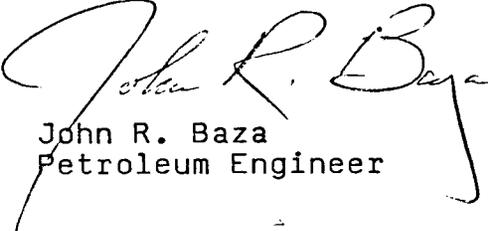
43-047-30230 SGW-WSTC

Utah federal "D" #3
 Sec. 25, T. 7S, R. 24E
 Federal lease no. SL-065819

Because the wells are located on federal leases, you must first seek approval of such water disposal pits from the U.S. Bureau of Land Management. The Division of Oil, Gas and Mining will accept BLM approval and any conditions of approval stipulated by the BLM.

If you have any questions concerning this matter, please contact me at this office.

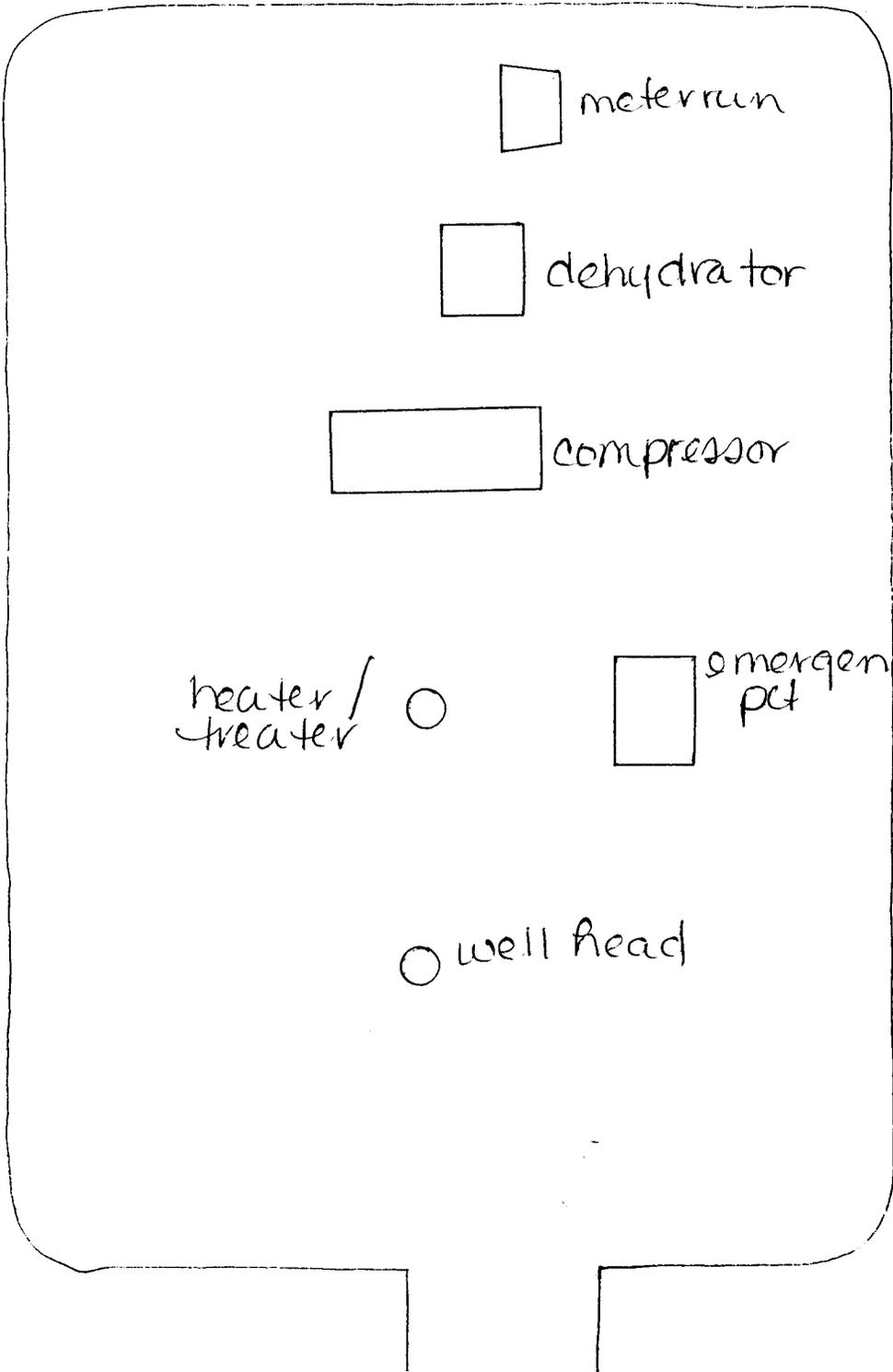
Sincerely,


 John R. Baza
 Petroleum Engineer

cc: BLM-Vernal
 D. R. Nielson
 R. J. Firth
 Well files

0384T-83

PTS 23-25 Ad Sand Ridge Sec 25, T8 S0, R23E Pruby 3/27/89



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

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 <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U 7386 *
2. NAME OF OPERATOR Columbia Gas Development Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1350, Houston, Texas 77251-1350		7. UNIT AGREEMENT NAME Sand Ridge II WS A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1983' FSL & 1980' FWL (NE/SW)		8. FARM OR LEASE NAME Sand Ridge
14. PERMIT NO. 43-047-30230	15. ELEVATIONS (Show whether OF, FT, OR, etc.) 5030' GR	9. WELL NO. 23-25
		10. FIELD AND POOL, OR WILDCAT Wasatch
		11. SEC., T., R., M., OR BLK. AND SUBST OR AREA Sec. 25 T8S R23E
		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>Shut-in</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.) *

* BLM Agreement Number 8910160130

Well has been shut-in since July 1989. Uneconomical to produce.

OIL AND GAS	
DTN	DTN
JRS	CLJ
DTR	SLS
1-TAS	
2- MICROFILM	<input checked="" type="checkbox"/>
3- FILE	

RECEIVED
JAN 08 1990
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct
SIGNED Victoria Guindy TITLE Production Clerk DATE 1-4-90

(This space for Federal or State office use)

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

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

5. LEASE DESIGNATION (NO SERIAL NO.)
U 7386 *

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Sand Ridge II WS A

8. FARM OR LEASE NAME
Sand Ridge

9. WELL NO.
23-25

10. FIELD AND POOL, OR WILDCAT
Wasatch

11. SEC., T., R. M., OR S.E. AND SURVEY OR A.S.A.
Sec. 25 T8S R23E

12. COUNTY OR PARISH 13. STATE
Uintah 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.)

JAN 07 1991

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Columbia Gas Development Corporation

3. ADDRESS OF OPERATOR
P. O. Box 1350, Houston, Texas 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1983' FSL & 1980' FWL (NE/SW)

14. PERMIT NO.
43-047-30230 SGW

15. ELEVATIONS (Show whether SP, ST, GR, etc.)
5030' 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"/>	FULL 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>Shut In</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion or 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 and 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.)

* BLM Agreement No. 8910160130

Well has been shut in since July, 1989. Uneconomical to produce.

18. I hereby certify that the foregoing is true and correct
SIGNED Carol Smith TITLE Sr. Prod. Field Clerk DATE 1/03/91

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1991

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

5. Lease Designation and Serial No.

U 7386*

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Sand Ridge II WS A

8. Well Name and No.

Sand Ridge #23-25

9. API Well No.

43 047 30230

10. Field and Pool, or Exploratory Area

Wasatch

11. County or Parish, State

Uintah Co., Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No

P.O. Box 1350, Houston, Texas 77251-1350 713/871-3400

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

1983' FSL & 1980' FWL
NE/SW, 25, 8S, 23E

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Change in company name
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form 1)

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.)*

Notification of change of owners operating name:
From Leon Ross Drilling to:

ROSS EXPLORATION, INC.
P.O. BOX 757
ROOSEVELT, UTAH 84066
801/722-4469

Effective Date : October 1, 1991

RECEIVED
FEB 12 1992
DIVISION OF
OIL GAS & MINING

I hereby certify that the foregoing is true and correct

Signed Leon Ross Title Owners/Operators Date 2/7/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

6. Lease Designation and Serial Number
7. Indian Allottee or Tribe Name
8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS
 Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
 Use APPLICATION FOR PERMIT--- for such proposals

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		9. Well Name and Number PTS 23-25 Fed Sand Ridge
2. Name of Operator ROSS EXPLORATION		10. API Well Number 43 04730230
3. Address of Operator Box 757 Roosevelt W	4. Telephone Number 722-4469	11. Field and Pool, or Wildcat
5. Location of Well SR 23-25 84066 Footage : QQ, Sec. T., R., M. : 85 23 E 25 Sec		County : Uintah State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
<p>NOTICE OF INTENT (Submit in Duplicate)</p> <input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____ Approximate Date Work Will Start _____	<p>SUBSEQUENT REPORT (Submit Original Form Only)</p> <input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other <u>put in production</u> Date of Work Completion _____ Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well flowed for THREE DAYS in Dec.

RECEIVED
 APR 08 1992
 DIVISION OF
 OIL GAS & MINING

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

Name & Signature: Jean Lee Ross Title: Vice Pres Date: 12-92
 (State Use Only)

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 to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. U-7386
2. Name of Operator Nephi City	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. 21 East 100 North, Nephi, Utah 84648 623-0822	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Township 8 South, Range 23 East, SLM Section 25: W/2NE/4, SE/4NE/4, W/2, SE/4 Uintah Co., Utah	8. Well Name and No.
	9. API Well No. 43-047-30230
	10. Field and Pool, or Exploratory Area
	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 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 owner & 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 Nephi City is considered to be the operator of Well No. PTS Fed. 23-25; W/2NE/4, SE/4NE/4, W/2, SE/4, Section 25, Township 8 South, Range 23 East; Lease No. U-7386; 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 a letter of credit.

RECEIVED

MAR 03 1993

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Robert S. Steele Title Mayor Date 11-18-92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PTS Fed 23-25

FORM APPROVED
OMB NO. 1004-0034
Expires: July 31, 1992

**TRANSFER OF OPERATING RIGHTS (SUBLEASE) IN A
LEASE FOR OIL AND GAS OR GEOTHERMAL RESOURCES**

Lease Serial No.

U-7386

Mineral Leasing Act of 1920 (30 U.S.C. 181 et seq.)
Act for Acquired Lands of 1947 (30 U.S.C. 351-359)
Geothermal Steam Act of 1970 (30 U.S.C. 1001-1025)
Department of the Interior Appropriations Act, Fiscal Year 1981 (42 U.S.C. 6508)

Type or print plainly in ink and sign in ink.

PART A: TRANSFER

1. Transferee (Sublessee)* Nephi City
Street 21 East 100 North
City, State, ZIP Code Nephi, Utah 84648

*If more than one transferee, check here and list the name(s) and address(es) of all additional transferees on the reverse of this form or on a separate attached sheet of paper.

This transfer is for: (Check one) Oil and Gas Lease, or Geothermal Lease

Interest conveyed: (Check one or both, as appropriate) Operating Rights (sublease) Overriding Royalty, payment out of production or other similar interests or payments

2. This transfer (sublease) conveys the following interest:

Land Description <small>Additional space on reverse, if needed. Do not submit documents or agreements other than this form; such documents or agreements shall only be referenced herein.</small>	Percent of Interest			Percent of Overriding Royalty or Similar Interests	
	Owned	Conveyed	Retained	Reserved	Previously reserved or conveyed
	b	c	d	e	f
Township 8 South - Range 23 East, SLM Section 25: W/2NE/4, SE/4NE/4, W/2, SE/4 Uintah Co., UT Containing 600 acres, more or less	29.997	29.997	-0-	-0-	13.5%

RECEIVED

MAR 03 1993

DIVISION OF
OIL GAS & MINING

FOR BLM USE ONLY—DO NOT WRITE BELOW THIS LINE

THE UNITED STATES OF AMERICA

This transfer is approved solely for administrative purposes. Approval does not warrant that either party to this transfer holds legal or equitable title to this lease.

Transfer approved effective _____

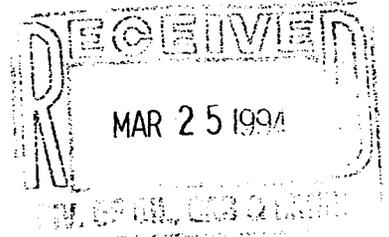
By _____
(Authorized Officer)

(Title)

(Date)

COPY

Bureau of Land Management
Branch of Fluid Minerals
P.O. Box 45155
Salt Lake City, Utah 84145-0155



March 23, 1994

Nephi City
21 East 100 North
Nephi, Utah 84648

Re: Sand Ridge II Unit
Uintah County, Utah

Gentlemen:

On March 18, 1994, we received an indenture whereby Columbia Gas Development Corporation resigned as Unit Operator and Nephi City was designated as Successor Unit Operator for the Sand Ridge II Unit, Uintah County, Utah.

The instrument is hereby approved effective March 23, 1994. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Sand Ridge II Unit Agreement.

Your state (Utah) oil and gas bond No. UT0924 will be used to cover all operations within the Sand Ridge II Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

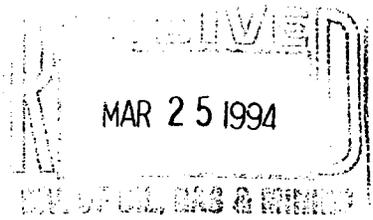
/s/ Assad Raffoul

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)
~~Division of Oil, Gas & Mining~~
Division of Lands and Mineral Operations U-942
File - Sand Ridge II Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

U-922:TAThompson:tt:03-23-94



WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
** INSPECTION ITEM 8910160130 8910160130	430473023000S1	23-25	SAND RIDGE II	WS	A	NESW 25 8S	23E PGW	UTU7386	COLUMBIA GAS DEVELOPMENT

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 to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	5. Lease Designation and Serial No.
2. Name of Operator COLUMBIA GAS DEVELOPMENT CORPORATION	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P. O. BOX 1350, HOUSTON, TX 77251-1350	7. If Unit or CA, Agreement Designation No. 14-08-001-16013
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec. 25, T 8 S, R 23 E 193' FSL & 1980' FWL (NE/SW)	8. Well Name and No. Sand Ridge #23-25
	9. API Well No. 43-047-30230
	10. Field and Pool, or Exploratory Area Wasatch
	11. County or Parish, State Uintah, 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 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>Sale of Well</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.)*

*BLM Agreement No. 8910160130

OPERATOR'S INTEREST SOLD TO:

Nephi City
21 E and 100 N
Nephi, Utah 84648

Effective Date of Sale: October 1, 1992

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

Signed Wendy S. DeLormeaux Title Regulatory Coordinator Date 3/31/94

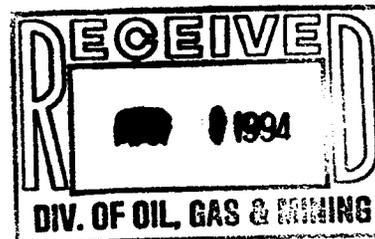
(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

COLUMBIA GAS
Development



VIA AIRBORNE EXPRESS

March 31, 1994

State of Utah
Division of Oil, Gas & Mining
355 W. N. Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

Attention: Leesha Cordova

Reference: **Change of Operator**
McLish #3 & Sand Ridge #23-25
Uintah County, Utah

Dear Ms. Cordova:

As we discussed by phone yesterday, attached are Sundry Notices reporting the change of operatorship on the above-referenced wells from Columbia to Nephi.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

Wendy G. DesOrmeaux
Wendy G. DesOrmeaux
Regulatory Coordinator

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 to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

RECEIVED

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	APR 14 1995	5. Lease Designation and Serial No. U-13364
2. Name of Operator Nephi City	DIVISION OF OIL GAS & MINING	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. 21 East 100 North, Nephi, Utah 84648	623-0822	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Township 8 South, Range 23 East, SLM Section 25: NE/4NE/4 Uintah Co., Utah		8. Well Name and No. PTS Federal 23-25
		9. API Well No.
		10. Field and Pool, or Exploratory Area
		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 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 owner & 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 Nephi City is considered to be the operator of Well No. PTS Federal 23-25; NE/4NE/4, Section 25, Township 8 South, Range 23 East; Lease No. U-13364; 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 a letter of credit.

COPY

VERNAL DIST.
ENG. EST 4452
GEOL. _____
E.S. _____
PET. _____
A.M. _____

RECEIVED
DEC 2 1992

14. I hereby certify that the foregoing is true and correct
Signed Robert L. Steele Title Mayor Date 11-18-92

(This space for Federal or State office use)
Approved by **DENIED** Title _____ Date **APR 13 1993**
Conditions of approval, if any:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- LEC 7-SJ	<input checked="" type="checkbox"/>
2- DLS 8-FILE	<input checked="" type="checkbox"/>
3- VLC	<input checked="" type="checkbox"/>
4- RJE	<input checked="" type="checkbox"/>
5- LEC	<input checked="" type="checkbox"/>
6- PL	<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: *10-01-92)

TO (new operator)	<u>NEPHI CITY</u>	FROM (former operator)	<u>COLUMBIA GAS DEVELOPMENT</u>
(address)	<u>21 E 100 N</u>	(address)	<u>PO BOX 1350</u>
	<u>NEPHI UT 84648</u>		<u>HOUSTON TX 77251</u>
	<u>RANDY ANDERSON</u>		<u>ED GORDON</u>
phone (801)	<u>623-4914</u>	phone (713)	<u>871-3400</u>
account no.	<u>N 3425</u>	account no.	<u>N 5035</u>

Well(s) (attach additional page if needed): ***SAND RIDGE II UNIT**

Name: <u>PTS 23-25 FED SAND RDGE</u>	API: <u>43-047-30230</u>	Entity: <u>6127</u>	Sec <u>25</u> Twp <u>8S</u> Rng <u>23E</u>	Lease Type: <u>U7386</u>
Name: <u>(WSTC)</u>	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: _____
Name: _____	API: _____	Entity: _____	Sec ___ Twp ___ Rng ___	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Yec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rep. update 3-28-94) (Rec'd 4-1-94)*
- Yec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 3-3-93)*
- 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: _____.
- Yec 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.
- Yec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(4-5-94)*
- Yec 6. Cardex file has been updated for each well listed above. *(4-5-94)*
- Yec 7. Well file labels have been updated for each well listed above. *(4-5-94)*
- Yec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(4-5-94)*
- Yec 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

- Lee 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).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- Lee
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.
- DCS
4/4/94
- 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: 4-7 1994.

FILING

- Lee 1. Copies of all attachments to this form have been filed in each well file.
- Lee 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

940328 B/m/S.Y. Apprv. eff. 3-23-94.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 23 1995

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 to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

DIV OF OIL, GAS & MINING

5. Lease Designation and Serial No.
13364

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
8910160130

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Nephi City

3. Address and Telephone No.
21 East 100 North Nephi, Utah 84648 1-801-623-0822

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Township 8 South, Range 23 East, SLM
Section 25: NE/4NE/4

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"/> 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>owner & operator change</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

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 as October 1, 1994 Nephi City is no longer the owner and operator of this lease.

** No specific well.*

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

Signed J. Randy Knight Title City Administrator Date 20 Jan 95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 23 1995
DIV OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Lease Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Nephi City

3. Address and Telephone No.

21 East 100 North Nephi, Utah 84648 1-801-623-0822

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

Township 8 South, Range 23 East, SLM

Section 25: W/2NE/4, SE/4NE/4, W/2, SE/4

U-7386

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8910160130

8. Well Name and No.

Pts 23-25 Fed. Sand Ridge

9. API Well No.

43-047-30230

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Uintah, Utah

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other owner & operator

- Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

change

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 as of October 1, 1994 Nephi City is no longer the owner and operator of this lease.

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

Signed

J. Randy McKay

Title

City Administrator

Date

30 Jan 95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
FEB - 8 1995

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS, SOIL, GAS & MINING

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

6. Lease Designation and Serial No.
U-13364
If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
8910160130

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.

2. Name of Operator
Mark L. Peterson & David W. Sweet dba Hot Rod Oil

9. API Well No.

3. Address and Telephone No.
3133 North 2050 West, Vernal, Utah 84078

10. Field and Pool, or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Township 8 South, Range 23 East, SLM
Section 25: NE/4NE/4
Uintah Co., Utah

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
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	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>change owner & 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 Mark L. Peterson & David W. Sweet dba Hot Rod Oil is considered to be the operator of Well No. PTS Federal 23-25; NE/4NE/4, Section 25, Township 8 South, Range 23 East; Lease No. U-13364; 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 a letter of credit.

Bond # AT-0932

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

Signed

Mark Peterson

Title

Co Owner

Date

10/27/94

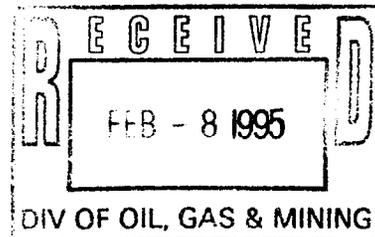
(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:



RESIGNATION OF UNIT OPERATOR

Sandridge II Unit Area

County of Uintah

State of Utah

PTS 23-25/43-047-30230

Unit Agreement No. 14-08-0001-16013

Under and pursuant to the provisions of Section 5 of the Unit Agreement for the Development and Operation of the Sandridge II Unit Area, Uintah County, Utah, Nephi City the designated Unit Operator under said Unit Agreement, does hereby resign as Unit Operator, effective upon the selection and approval of a successor Unit Operator.

EXECUTED with effect as aforesaid the 27th day of October, 1994.

ATTEST:

[Signature]
Recorder

Nephi City
[Signature]
Mayor

DESIGNATION OF SUCCESSOR UNIT OPERATOR

Sandridge II Unit Area

County of Uintah

State of Utah

Unit Agreement No. 14-08-0001-16013

THIS INDENTURE, dated as of the 27th day of October, 1994, by and between Hot Rod Oil, hereinafter designated as "First Party," and the owners of unitized working interests, hereinafter designated as "Second Parties,"

WITNESSETH:

WHEREAS, under the provisions of the Act of February 25, 1920, 41 Stat. 437, 30 U.S.C. Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior, on the 23rd day of March, 1994, approved a Unit Agreement for the Sandridge II Unit Area, wherein Nephi City is designated as Unit Operator, and

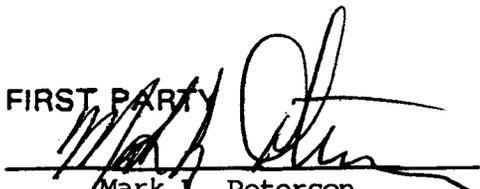
WHEREAS said, Nephi City has resigned as such Operator and the designation of a successor Unit Operator is now required pursuant to the terms thereon; and

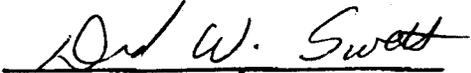
WHEREAS the First Party has been and hereby is designated by Second Parties as Unit Operator, and said First Party desires to assume all the rights, duties and obligations of Unit Operator under the said Unit Agreement:

NOW, THEREFORE, in consideration of the premises hereinbefore set forth and the promises hereinafter stated, the First party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to all the terms of the Sandridge II Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the Chief, Branch of Fluid Minerals, Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this instrument.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY


Mark L. Peterson


David M. Sweet

DBA: Hot Rod Oil

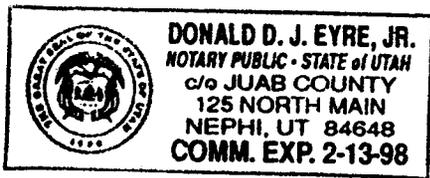
ACKNOWLEDGEMENT

State of Utah)
 :SS.
County of Juab)

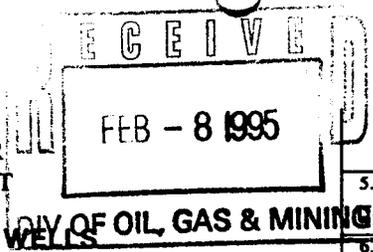
On the _____ day of _____, 1994, Mark L. Peterson and David
W. Sweet, DBA: Hot Rod Oil personally appeared before me the
signers of the foregoing instrument, who duly acknowledge to me
that they executed the same.

Donald D. Eyre, Jr. Notary Public

My Commission expires 2-13-98
Residing Nephi, Utah



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 to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No. **7386**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
8910160130

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mark L. Peterson & David W. Sweet dba Hot Rod Oil

3. Address and Telephone No.
3133 North 2050 West, Vernal, Utah 84078

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**Township 8 South, Range 23 East, SLM
 Section 25: W/2NE/4, SE/4NE/4, W/2, SE/4
 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"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>change owner & 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 <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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 Mark L. Peterson & David W. Sweet dba Hot Rod Oil is considered to be the operator of Well No. **PTS Fed. 23-25; W/2NE/4, SE/4NE/4, W/2, SE/4, Section 25, Township 8 South, Range 23 East; Lease No. U-7386; 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 a letter of credit.**

Bond # UT 0932

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

Signed [Signature] Title Co-Owner Date 10/27/94

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

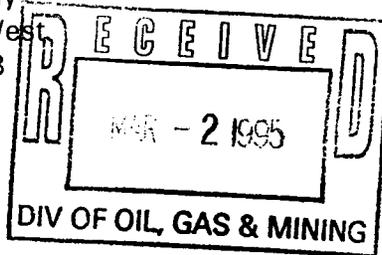
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

COPY

IN REPLY REFER TO:
UT-922

March 1, 1995

Hot Rod Oil Company
3133 North 2050 West
Vernal, Utah 84078



Re: ~~Sand Ridge II Unit~~ /As 23-95
Uintah County, Utah

Gentlemen:

On February 9, 1995, we received an indenture, whereby Nephi City resigned as Unit Operator and Hot Rod Oil was designated as Successor Unit Operator for the Sand Ridge II Unit, Uintah County, Utah.

The instrument is hereby accepted effective March 1, 1995. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0932 will be used to cover all operations within the Sand Ridge II Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)
~~Division of Oil, Gas & Mining~~
Division of Lands and Mineral Operations U-923
File - Sand Ridge II Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

UT-922:TAThompson:tt:03-01-95

Page No. 1
03/01/95

WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
** INSPECTION ITEM 8910160130 8910160130	430473023000S1	23-25	NESW	25	8S	23E	PGW	UTU7386	NEPHI CITY

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1	IBC - PL	✓
2	LWP 8-SJ	✓
3	DPS 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: 10-1-94)

TO (new operator)	<u>HOT ROD OIL</u>	FROM (former operator)	<u>NEPHI CITY</u>
(address)	<u>3133 N 2050 W</u>	(address)	<u>21 E 100 N</u>
	<u>VERNAL UT 84078</u>		<u>NEPHI UT 84648</u>
	<u>MARK PETERSON</u>		<u>RANDY ANDERSON</u>
phone	<u>(801) 789-5698</u>	phone	<u>(801) 623-4914</u>
account no.	<u>N 9220</u>	account no.	<u>N 3425</u>

***CA NW-191 / **SAND RIDGE II UNIT**

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

Name:	<u>*MCLISH #3/UNTA</u>	API:	<u>43-047-20243</u>	Entity:	<u>2005</u>	Sec:	<u>1</u>	Twp:	<u>7S</u>	Rng:	<u>21E</u>	Lease Type:	<u>U015988</u>
Name:	<u>**PTS 23-25 FED SAND RDG</u>	API:	<u>(43-047-30230)</u>	Entity:	<u>6127</u>	Sec:	<u>25</u>	Twp:	<u>8S</u>	Rng:	<u>23E</u>	Lease Type:	<u>U7386</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:	_____

OPERATOR CHANGE DOCUMENTATION

- See* 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 1-23-95)*
- See* 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Reg. 1-25-95) (Rec'd 2-8-95)*
- 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: _____.
- 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. *(3-3-95)*
- See* 6. Cardex file has been updated for each well listed above. *3-6-95*
- See* 7. Well file labels have been updated for each well listed above. *3-6-95*
- See* 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(3-3-95)*
- 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

- Yes* 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).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- Yes*
- ___ 2. A copy of this form has been placed in the new and former operators' bond files.
- ___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19__.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19__, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- DTS*
3/6/95
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

1. All attachments to this form have been microfilmed. Date: March 8 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

950303 Bfm/54 Apr. 3-1-95.

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 not yet 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: 12/27/2004
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/27/2004
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: UTB000014

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:

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-7386 and UTU-013364

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:
Sand Ridge II Unit

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
PTS #23-25 Federal

2. NAME OF OPERATOR:
Summit Operating, LLC *N2315*

9. API NUMBER:
4304730230

3. ADDRESS OF OPERATOR:
PO Box 683909 CITY **Park City** STATE **UT** ZIP **84068**

PHONE NUMBER:
(435) 940-9001

10. FIELD AND POOL, OR WILDCAT:
Sand Ridge Field

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **1980 FWL & 1983 FSL**

COUNTY: **Uintah**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NESW 25 8S 23E**

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"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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.

Summit Energy Partners - Sand Ridge LLC and Diamondback Oil Partners, LLP have acquired 2/3 of the interest of Mark L. Peterson, d.b.a. Hot Rod Oil in the above-referenced well, leases and unit. Summit Operating, LLC has take over as operator of the above-referenced well, leases and unit effective 8-1-2004. Summit Operating, LLC will operate under Federal Bond # UTB000014.

DOGm needs Waste Management Plan filed

NAME (PLEASE PRINT) Greg Schmidt

TITLE Agent for Summit Operating, LLC

SIGNATURE *Greg Schmidt*

DATE 8/4/2004

(This space for State use only)

APPROVED 12/27/04

ER

(5/2000)

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

AUG 06 2004

DIV. OF OIL, GAS & MINING

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

6. Lease Designation and Serial Number

7. Indian Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT— for such proposals.

8. Unit or Communitization Agreement
8910160130

1. Type of Well: Oil Well Gas Well Other (specify)

9. Well Name and Number
23-25

2. Name of Operator
HOT ROD OIL N9220

10. API Well Number
43-047-30230

3. Address of Operator
3133 North 2050 West, Vernal, UT 84078

4. Telephone Number
435-789-5678

11. Field and Pool, or Wildcat

5. Location of Well
County: Utah
East State: UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other RESIGNATION OF OPERATOR.
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other _____
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LCG form.
Must be accompanied by a cement verification report.

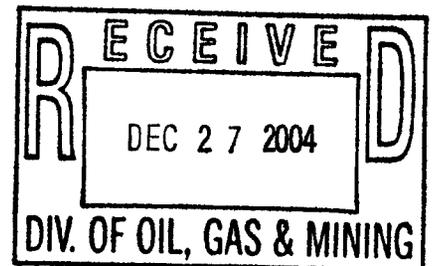
13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

CHANGE OF OPERATOR.

APPROVED 12/27/04

ER

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician



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

Name & Signature

[Signature]

Title

G.M.

Date

12/23/04

(State Use Only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator **Summit Operating, LLC**

3a. Address
PO Box 683909, Park City, UT 84068

3b. Phone No. (include area code)
435-940-9001

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FWL & 1983' FSL, Sec 25, T8S, R23E, SLM

5. Lease Serial No.
UTU-7386 & UTU-013364

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
Sand Ridge II Unit

8. Well Name and No.
PTS #23-25 Federal

9. API Well No.
43-047-30230

10. Field and Pool, or Exploratory Area
Sand Ridge Field

11. County or Parish, State
Uintah, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input checked="" type="checkbox"/> Production (Start/Resume)
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input type="checkbox"/> Other _____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well was converted to a rod pumped gas well. The tubing was acidized with 1000 gal of 15% HCl in order to clean up a scale buildup. The production and sale of gas was resumed 2-12-05.

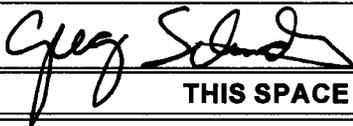
**RECEIVED
FEB 1 / 2005
DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct
 Name (Printed/Typed)

Greg Schmidt

Title **Agent for Summit Operating, LLC**

Signature



Date

2-15-05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-7386 and UTU-013364

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:
Sand Ridge II Unit

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
PTS #23-25 Federal

2. NAME OF OPERATOR:
Summit Operating, LLC

9. API NUMBER:
4304730230

3. ADDRESS OF OPERATOR:
PO Box 683909 CITY **Park City** STATE **UT** ZIP **84068-3909** PHONE NUMBER: **(435) 940-9001**

10. FIELD AND POOL, OR WILDCAT:
Sand Ridge Field

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **1980 FWL & 1983 FSL**

COUNTY: **Uintah**

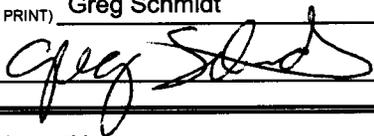
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NESW 25 8S 23E**

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"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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 checked="" type="checkbox"/> OTHER: <u>Wellsite cleanup</u>
	<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.
The wellsite has been cleaned up in accordance with your request. Weeds and excess material have been removed. The pit has been cleaned up, but has not been reclaimed, as it is still being used for emergency blow down purposes. The pit has BLM approval for such use.

NAME (PLEASE PRINT) Greg Schmidt TITLE Agent for Summit Operating, LLC
SIGNATURE  DATE 6/29/2005

(This space for State use only)

RECEIVED
JUL 01 2005

DIV. OF OIL, GAS & MINING