

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

(Other instructions on reverse side)

CONFIDENTIAL

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

7. Unit Agreement Name

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

8. Name of Lease Name

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

Pennzoil Exploration and Production Company

3. Address of Operator

P.O. Box 290 Neola, Utah 84053

10. Field and Pool, or Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

NWNW 660' FNL & 1191' FWL

At proposed prod. zone

same

Sec.13 T1S R4W

12. County or Parrish 13. State

14. Distance in miles and direction from nearest town or post office*

3.4 miles North on Highway 221 from Altamont, Utah

Duchesne, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. line, if any)

660' FNL

16. No. of acres in lease

640

17. No. of acres assigned to this well

640

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

Wasatch 2544'

19. Proposed depth

13,000' GRRV

20. Rotary or cable tools

Rotary

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

Ungraded Ground = 6651'

22. Approx. date work will start*

Nov. 15, 1990

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
11"	8 5/8"	28#	3000'	1525 cuft
7 7/8"	5 1/2"	17#	13,000'	3050 cuft

- Enclosed attachment:
 - Certified Location Plat
 - Drilling Plan
 - BOP Schematic
 - Map showing roadway to wellsite
 - Schematic of rig layout on location.

TECHNICAL REVIEW

Engr. _____
 Geol. DC 11/2/90
 Surface BA 11/2/90

- Water permit will be secured prior to spud.
- An AFE has been prepared and a copy has been sent to joint interest holders for their approval.

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.

Danny L. Laman

Office-(801) 353-4397

Home-(801) 789-7033

Signed: Danny L. Laman

Title: Drilling Foreman

Date: 10/30/90

(This space for Federal or State office use)

Permit No. 13-013-31091

Approval Date APPROVED BY THE STATE

Approved by _____
Conditions of approval, if any:

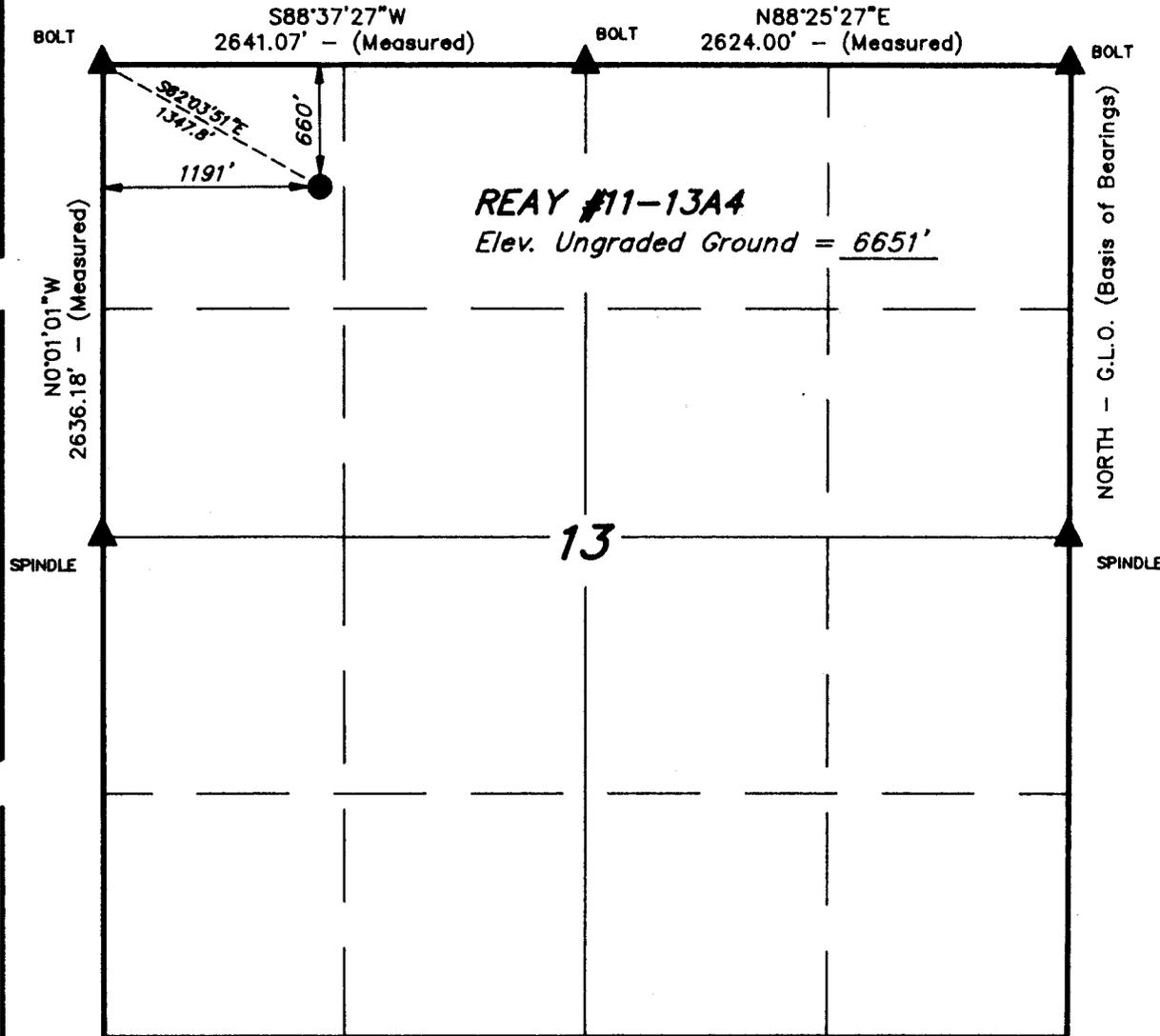
Title _____

OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 11/5/90
 BY: [Signature]
 WELL SPACING: 139-42

PENNZOIL EXPLR. & PROD. CO.

T1S, R4W, U.S.B.&M

Well location, REAY #11-13A4, located as shown in the NW 1/4 NW 1/4 of Section 13, T1S, R4W, U.S.B.&M. Duchesne County, Utah.



BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 13, T1S, R4W, U.S.B.&M. TAKEN FROM THE ALTAMONT QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6620 FEET.



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.

Robert L. Kay
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 5709
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING

85 South 200 East Vernal, Utah 84078

(801) - 789 - 1017

SCALE 1" = 1000'	DATE 10-29-90
PARTY L.D.T. G.T. T.D.H.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE PENNZOIL COMPANY

▲ = SECTION CORNERS LOCATED.

DRILLING PLAN

OPERATOR: PENNZOIL EXPLORATION & PRODUCTION COMPANY
WELL: REAY 11-13A4
WELL LOCATION: 660' FNL & 1191' FWL
NWNW SEC. 13 T1S R4W
DUCHESNE COUNTY, UTAH

1&2. ESTIMATED TOPS AND IMPORTANT GEOLOGICAL FORMATIONS:

Duchesne River	at surface (surface formation)
Uinta	near the surface
Green River	7691
Green River Z	8286
Trona I	8811
Mahogany Bench	9806
Green River DJ	10368
Douglas Creek H	11353
HI	11496
CP-70	12377
TU-2	12766
Total Depth	13000

3. ESTIMATED OIL AND WATER DEPTHS:

Water	NONE ANTICIPATED
Green River DJ	Oil @ 10368+-
Douglas Creek H	Oil @ 11353+-
HI	Oil @ 11496+-
CP-70	Oil @ 12376+-
TU2	Oil @ 12766+-

4. HOLE SIZE, CASING, AND CEMENT PROGRAM:

- a. CONDUCTOR HOLE: 0 - 60'+
 - a. Drill a 26" hole to 60' with rat hole machine.
 - b. Set 14" conductor
 - c. Cement with ready mix concrete

- b. SURFACE HOLE: 60' - 3000':
 - a. Drill a 11" hole to 3000'
 - b. Set 3000' of 8 5/8" 28# S-80 STC
 - c. Cement: Low density filler to surface
Tail-in with 250 sacks 50/50 Poz "G"

- c. PRODUCTION HOLE: 3000 - 13,000'
 - a. Drill a 7 7/8" hole to 13,000'
 - b. Set 13,000' of 5 1/2" 17# WC-70/N-80 LTC
 - c. Cement: Low density filler from surface to 7300'. Tail-in (From TD to 7300') with a 50/50 Poz "G", tailored for depth and temp.

5. PROPOSED DRILLING FLUID PROGRAM:

- a. Surface Hole: Spud with a gelled fresh water with a 36 viscosity to 300'. Then continue drilling through the reserve pit with fresh water, using lime and flocculent to keep water clean.

Should a water flow be encountered, it will be contained and drilling will resume.

- b. Production hole: Start drilling this interval with fresh water circulating the reserve pit. Use viscous sweeps to keep the wellbore clean and a flocculent to keep the water clean.

Should well bore condition dictate, mud up will be with a polymer. Salt will be used for weight material.

Final fluid properties: 8,8± salt water.

6. OPERATOR'S PRESSURE CONTROL PLAN:

Figure no. 1 is a schematic of minimum BOP equipment.

The BOP equipment will be nipped up on the surface casing and pressure tested prior to drilling out:

- a. All rams and choke manifold will be tested to 3000 psi.
- b. Bag preventor will be tested to 50% of its rated working pressure.
- c. All casing strings will be tested to 1500 psi. or 0.2 psi/ft per depth, which ever is greater.
- d. Record all BOP test on tour reports.
- e. Retest BOP stack every 28 days.
- f. Fill up line above the bag preventer.
- g. Kill line located below the BOP rams.

Operational Checks:

- a. Pipe rams will be closed and opened once each 24 hours.
- b. Blind rams will be closed and opened each time the drill string is pulled from the well bore.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- a. Upper and lower kelly cocks will be utilized.
- b. A full opening drill pipe stabbing valve.
- c. Visual inspection will be used to monitor the mud system.

8. WELL BORE EVALUATION:

- a. CORING none
- b. DRILL STEM TESTING none
- c. LOGS: Surface hole none
- Production hole Dual Induction Lateral
Gamma Ray
Formation Density
BHC-Sonic Micro-SFL
Four Arm Caliper
- d. COMPLETION: The objective formation is one of the oil zones in the lower Green River. Selected intervals will then be perforated and evaluated for stimulation work.

9. PRESSURE AND TEMPERATURES:

- a. No abnormal pressure or temperature have been noticed or reported in wells drilled in this area.
- b. Estimated bottom hole temperatures : 180 degrees
- c. Estimated bottom hole pressure: 5500 psi

10. ANTICIPATED STARTING DATE:

- a. Construction will probably start within 1 to 3 days of permit approval.
- b. The well will probably be spudded within 5 days of well site completion.

11. OTHER INFORMATION:

- a. Topography: Abandon Altonah Townsite
- b. Soil Characteristics: Bentonitic clays
NOTE: Surface water is noticed at ground level.
- c. Flora: Natural grass
- d. Fauna: Domestic - cattle
Wildlife - Deer, Grouse, etc.
- e. Surface Use: grazing
- f. Surface Owner: Dean Reay (801)-454-3508
- g. Archeological or Historical Sites: None

12. LEASEE'S OR OPERATOR'S REPRESENTATIVE:

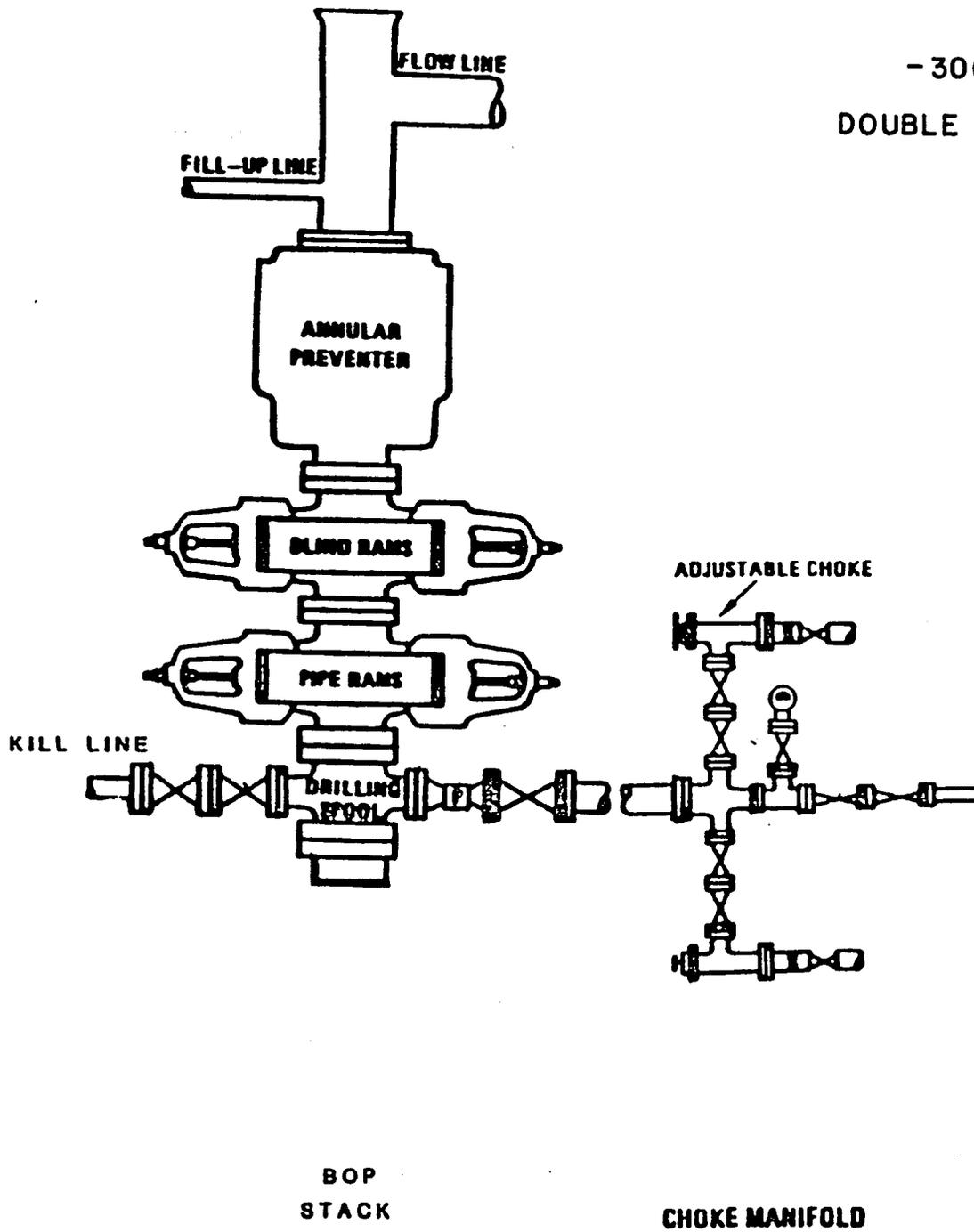
George P. SanFilippo, Western Operations Manager
Danny L. Laman, Drilling Foreman (801) 353-4397

- 13. This well will be drill per regulations as set forth by the State of Utah Natural Resource Oil, Gas, & Mining Division.

BOP SCHEMATIC

**-3000 PSI - WORKING PRESSURE
DOUBLE GATE - BAG TYPE - BOP STACK
CHOKE MANIFOLD
for:**

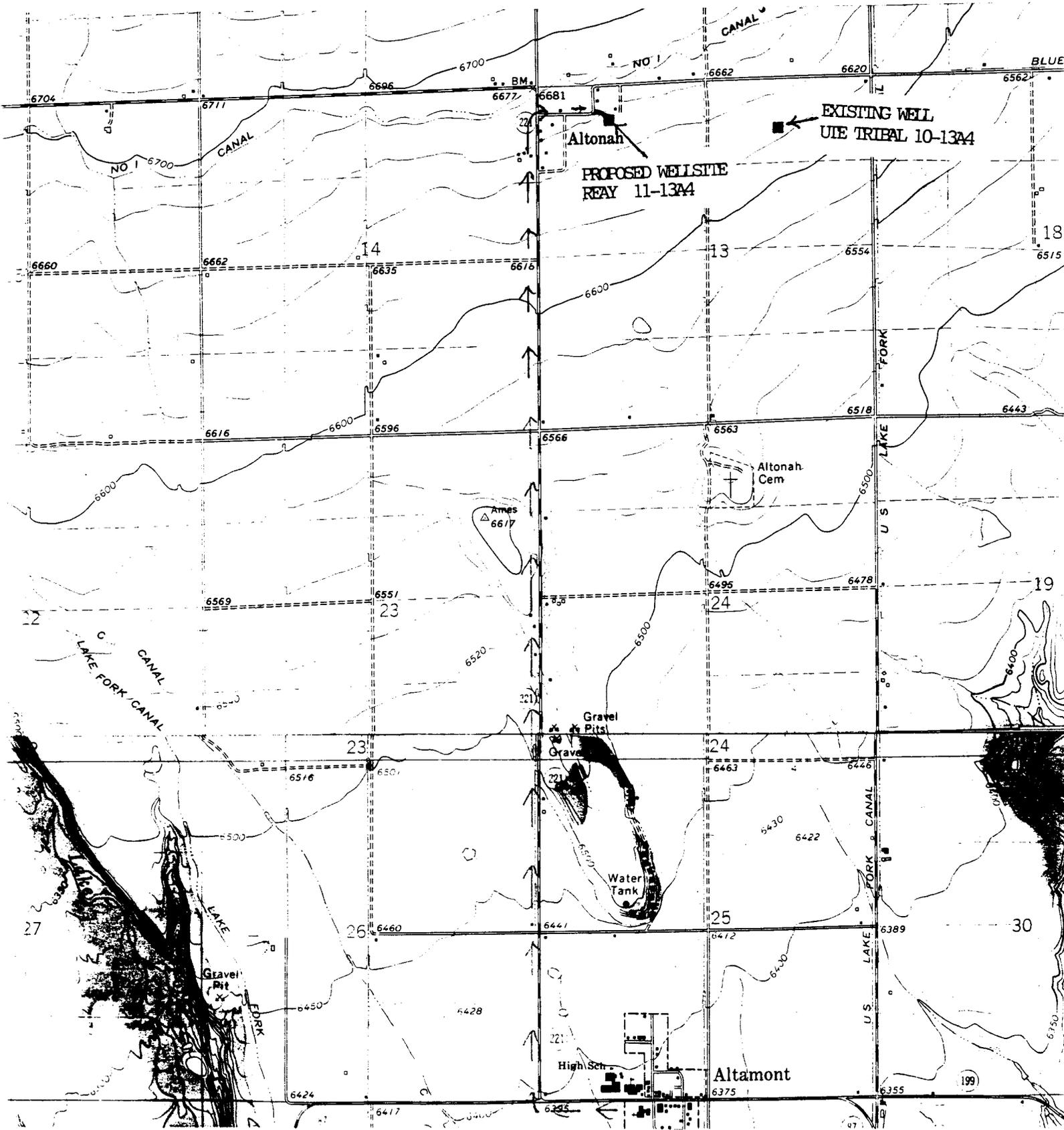
REAY 11-13A4



PENNZOIL EXPLORATION AND PRODUCTION COMPANY

P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353-4397

LOCATION: REAY 11-13A4 NWNW Sec.13 T1S R4W 660' FNL & 1191' FWL

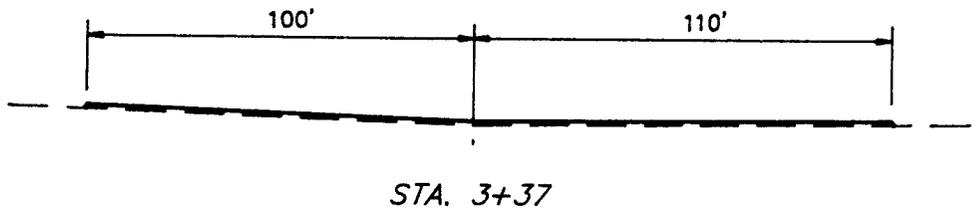
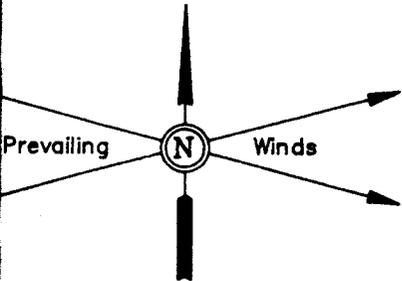


PENNZOIL EXPLR. & PROD. CO.

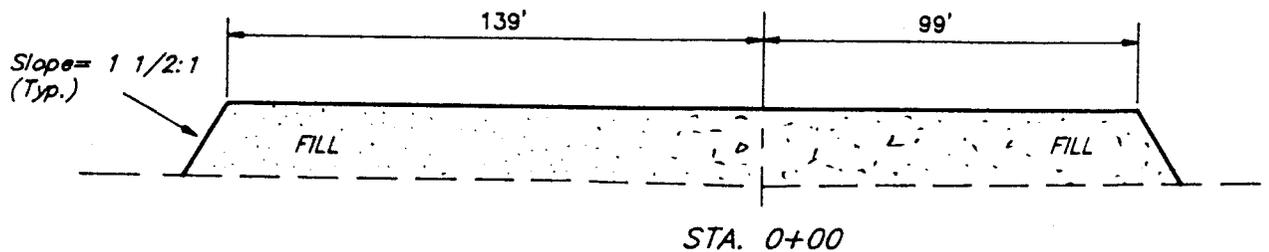
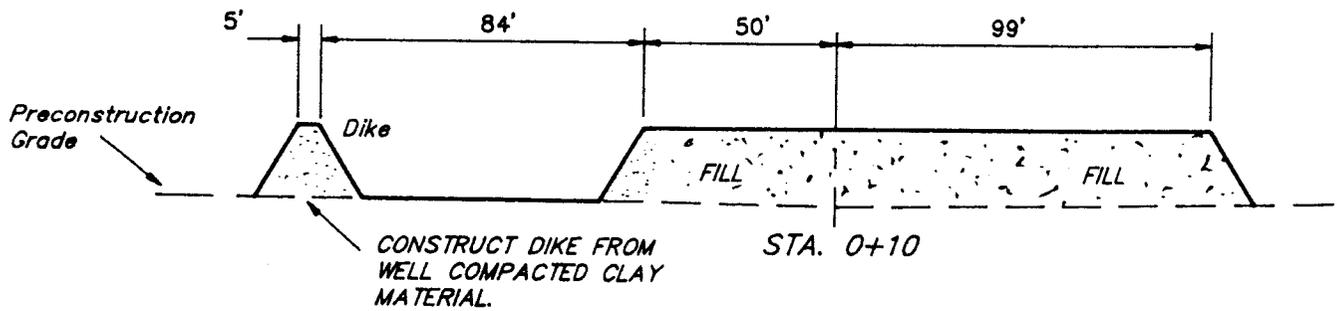
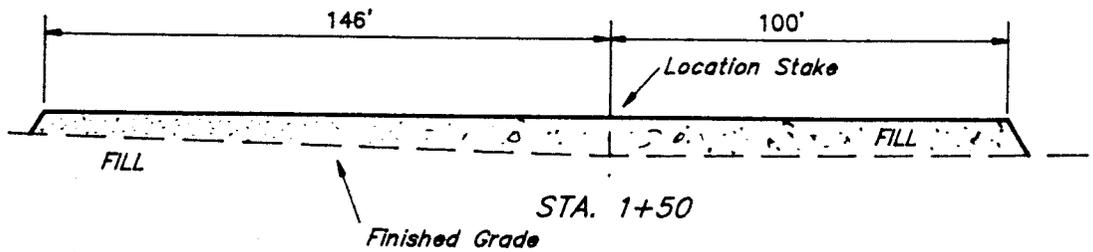
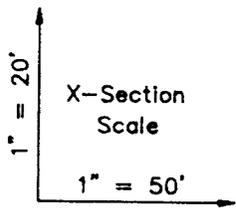
LOCATION LAYOUT FOR

REAY #11-13A4

SECTION 13, T1S, R4W, U.S.B.&M.



SCALE: 1" = 50'
DATE: 10-29-90
DRAWN BY: T.D.H.



TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS

Elev. Ungraded Ground at Location Stake = 6651.1'

Elev. Graded Ground at Location Stake = 6655.1'

 **PENNZOIL EXPLORATION AND PRODUCTION COMPANY**
P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353 - 4397

Oct. 30, 1990

CONFIDENTIAL

RECEIVED
NOV 1 1990

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

DIVISION OF
OIL, GAS & MINING

RE: Application for Permit to Drill
Reay 11-13A4
660' FNL & 1191' FWL
NWNW Sec. 13 T1S R4W
Duchesne County, Utah

Gentlemen:

The original and two copies of captioned APD are enclosed for your review and I trust your approval. Pennzoil Exploration and Production Company requests that this APD and all related information submitted on this well be held confidential for that period of time permitted by regulations and law.

Should there be any question, please contact the undersigned.

Sincerely,
Pennzoil Exploration and Production Company



Danny L. Laman
Drilling Foreman

Enclosure

DRILLING LOCATION ASSESSMENT

**State of Utah
Division of Oil, Gas and Mining**

OPERATOR: PENNZOIL E&P COMPANY WELL NAME: REAY 11-13A4
SECTION: 13 TWP: 1S RNG: 4W LOC: 660 FNL 1191 FWL
QTR/QTR NW/NW COUNTY: DUCHESNE FIELD: BLUEBELL/ALTAMONT
SURFACE OWNER: DEAN REAY
SPACING: 660 F SECTION LINE 1320 F ANOTHER WELL
INSPECTOR: BRAD HILL DATE AND TIME: 10/31/90 13:30

PARTICIPANTS: Danny Laman-Pennzoil; Dean Reay-Landowner; Gil Mitchell, Tracy Monk-Contractors; Clint Peatross-County Commissioner

REGIONAL SETTING/TOPOGRAPHY: The proposed well is located in the northwestern portion of the Uinta Basin at the old Altonah, Utah townsite. The ground surface is an old glacial outwash terrace which slopes to the south and east.

LAND USE:

CURRENT SURFACE USE: Domestic grazing.

PROPOSED SURFACE DISTURBANCE: An irregularly shaped pad will be constructed (see APD) with rough dimensions of 340'X 260". The entire location will be built above the present ground surface due to a high water content in the soils at the site. An access road approximately 100 yards long will be constructed from an existing road to the pad.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Pasture grass/cows

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Clayey-silt with abundant cobbles.

The SURFACE FORMATION & CHARACTERISTICS: Quaternary alluvium. The entire ground surface at this location is saturated with water. The consensus is that the source of the water is seepage from an agricultural canal to the north.

EROSION/SEDIMENTATION/STABILITY: No active erosion or sedimentation at present. Location should be stable.

PALEONTOLOGICAL POTENTIAL: None observed.

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Green River-Wasatch/10368-13000'

ABNORMAL PRESSURES-HIGH AND LOW: None Anticipated

CULTURAL RESOURCES/ARCHAEOLOGY: NA

CONSTRUCTION MATERIALS: All construction materials will be hauled in.

SITE RECLAMATION: As per landowner. When drilling is completed the entire reserve pit will be taken away with other material being removed as necessary as reclamation proceeds.

RESERVE PIT

CHARACTERISTICS: The reserve pit will be irregularly shaped (see APD) with approximate dimensions of 150'X 100'.

LINING: Pennzoil has proposed to place a 20 mil PVC liner in the reserve pit.

MUD PROGRAM: surface/gelled fresh water; production hole/fresh water with polymer mud up as needed, salt to be used for weight.

DRILLING WATER SUPPLY: A pond will be constructed near the site to capture water from a nearby spring.

STIPULATIONS FOR APD APPROVAL

Reserve pit ~~is to~~ be lined with a synthetic liner as proposed by Pennzoil. *Shall*

ATTACHMENTS

Photographs will be placed on file.

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

IN THE MATTER OF THE AMENDED	:	
PETITION OF ANR LIMITED INC.,	:	
ET AL. FOR AN ORDER MODIFYING	:	FINDINGS OF FACT,
PREVIOUS ORDERS WHICH	:	CONCLUSIONS OF LAW
ESTABLISHED DRILLING AND	:	AND ORDER
SPACING UNITS AND ANY OTHER	:	
ORDERS RELATING TO TEST WELLS	:	Docket No. 85-007
FOR THE ALTAMONT, BLUEBELL	:	Cause No. 139-42
AND CEDAR RIM-SINK DRAW	:	
FIELDS, DUCHESNE AND UINTAH	:	
COUNTIES, UTAH	:	

Pursuant to the Amended Notice of Hearing dated March 4, 1985 of the Board of Oil, Gas and Mining ("Board"), Department of Natural Resources of the State of Utah, said cause came on for hearing on Thursday, April 11, 1985 at 10:00 a.m. in the Board Room of the Division of Oil, Gas and Mining ("Division"), 355 West North Temple, 3 Triad Center, Suite 301, Salt Lake City, Utah.

The following members of the Board were present:

Gregory P. Williams, Chairman
James W. Carter
Charles R. Henderson
Richard B. Larson
E. Steele McIntyre
John M. Garr, having recused himself,
did not participate

Mark C. Moench, Assistant Attorney General, was present on behalf of the Board.

Members of the Staff of the Division present and participating in the hearing included:

Dr. Dianne R. Nielson, Director
Ronald J. Firth, Associate Director
John R. Baza, Petroleum Engineer

Barbara W. Roberts, Assistant Attorney General, was present on behalf of the Division.

Appearances were made as follows: Petitioners ANR Limited, et al., by Frank Douglass, Esq. and Ray H. Langenberg, Austin, Texas; Robert G. Pruitt, Jr., Esq., Salt Lake City, Utah; Frank J. Gustin, Esq., Salt Lake City, Utah; Louis A. Posekany, Jr., General Counsel, and George W. Hellstrom, Esq., ANR Production Company; Phillip K. Chattin, General Counsel, Utex Oil Company; Hugh C. Garner, Esq., for Coastal Oil & Gas Corporation; Phillip William Lear, Esq., for Phillips Petroleum Company; Jeffrey R. Young, Esq., for Bow Valley Petroleum, Inc.; B. J. Lewis, Esq., Vice President, and Robert W. Adkins, Esq., Linmar Energy Corporation; Robert Buettner, Esq., Koch Exploration Company; Lane Jamison, Esq., Sonat Exploration Company; Victor Brown and Robert Brown, Utah Royalty Association; John Harja, Esq., Gulf Oil Corporation; Martin Seneca, General Counsel, Ute Indian Tribe; Assad M. Raffoul, Petroleum Engineer, Bureau of Land Management; John Chasel, on his own behalf; George Morris, Esq., Ute Distribution Corporation; Dr. Gilbert Miller, Conservation Superintendent, Amarada Hess Corporation; and L. A. Pike, Roosevelt, Utah, landowner.

Now therefore, the Board having considered the testimony of the witnesses, John C. Osmond, Petroleum Geologist; Clarke Gillespie, Petroleum Reservoir Engineer; and R. Thayne Robson, Economist, for Petitioners and B. J. Lewis, Vice President, and John W. Clark, Petroleum Engineer, for Linmar Energy Corporation, and the exhibits received at said hearing and being fully advised in the premises, now makes and enters the following:

FINDINGS OF FACT

1. Due and regular notice of the time, place and purpose of the hearing was given to all interested parties as required by law and the rules and regulations of the Board.

2. The Board has jurisdiction over the matters covered by said notice and over all parties interested therein and has jurisdiction to make and promulgate any order hereinafter set forth.

3. The Board has heretofore entered 640 acre drilling and spacing orders for the Lower Green River/Wasatch Formation in Causes No. 139-3, 139-4, 139-5, 139-8, and 139-17 (Altamont Field), Causes No. 131-11, 131-14, 131-24, 131-27, 131-32, 131-33, 131-34, 131-45 and 131-55, (Bluebell Field), and Causes No. 140-6 and 140-7 (Cedar Rim-Sink Draw Field) as to the following described lands:

UINTAH SPECIAL MERIDIAN

Township 1 North, Range 1 West
Sections: 19-36

Township 1 North, Range 2 West
Sections: 19-36

Township 1 North, Range 3 West
Sections 23-26, 35 and 36

Township 1 South, Range 1 East
Sections: All (except Roosevelt Unit)

Township 1 South, Range 2 East
Sections: 4-8, 18-19, 30-31

Township 1 South, Range 1 West
Sections: All (except Roosevelt Unit)

Township 1 South, Range 2 through 4 West ?
Sections: All

Township 1 South, Range 5 West
Sections: 10-17, 20-36

Township 1 South, Range 6 West
Sections: 25-26, 35-36

Township 2 South, Range 1 through 2 East
Sections: All

Township 2 South, Range 1 through 6 West
Sections: All

Township 2 South, Range 7 West
Sections: 19, 30-36

Township 2 South, Range 8 West
Sections: 23-26, 31-36

Township 3 South, Range 3 West
Sections: 5-8, 17-20, 29-32

Township 3 South, Range 4 through 8 West
Sections: All

Township 4 South, Range 3 West
Sections: 5 and 6

Township 4 South, Range 4 West
Sections: 1-6

Township 4 South, Range 5 West
Sections: 1-6

Township 4 South, Range 6 West
Sections: 1-18

SALT LAKE MERIDIAN

Township 5 South, Range 19 East
Sections: 20-23, 26-29, 32-35

Township 6 South, Range 19 East
Sections: 3-5, 9, 10, 15, 16, 22, 27
and 34

4. In Cause No. 140-12, the Board authorized the drilling of test or second wells that may only be produced alternatively with the initial well on the same drilling unit.

5. The Lower Green River/Wasatch Formation underlying the subject fields constitutes a pool as that term is defined in Utah Code Ann. §40-6-2(9) (1953, as amended), and is a highly complex series of isolated and discontinuous beds of productive rock that are randomly distributed vertically over a several thousand feet thick interval. Normally, the productive beds are separate and distinct and not in communication with each other.

6. Many of the productive beds are not correlatable from well to well and will not afford communication between wells as close as 1000 feet. Of the productive beds that correlate, various geological factors prevent a significant number from communicating between wells within the same section.

7. Geologic and engineering information from initial unit wells and test wells show that a single well will not effectively drain the recoverable oil and gas underlying any given 640 acre spacing unit because the productive beds are too

small or have other limiting characteristics precluding effective and efficient drainage of the recoverable reserves underlying the unit.

8. Data from production logs and field performance show that test wells drilled under the Order in Cause No. 140-12 after 1978 have caused the recovery of substantial amounts of oil from separate and distinct productive beds and from previously undepleted productive beds, and that the drilling of additional wells on existing units will increase the ultimate recovery of oil from the subject fields.

9. The prohibition of simultaneous production from the initial well and test well on the same unit has caused the shutting in of wells with the potential to produce substantial amounts of additional reserves.

10. Each additional well drilled under this order will tap producing formations that are separate and distinct from and not in communication with any other producing formation and is not an unnecessary well.

11. In some areas of the subject fields, geologic, engineering, and economic factors justify drilling additional wells on existing units. In other areas, geologic, engineering and economic factors may not justify drilling additional wells on existing units.

CONCLUSIONS OF LAW

1. Due and regular notice of the time, place and

purpose of the hearing was given to all interested parties as required by law and the rules and regulations of the Board.

2. The Board has jurisdiction over the matters covered by said notice and over all parties interested therein and has jurisdiction to make and promulgate any order hereinafter set forth.

3. The Board is authorized to modify its previous orders to permit additional wells to be drilled within established units under Utah Code Ann. §40-6-6(4) (1953, as amended).

4. An order permitting (a) the drilling of additional wells on existing units as provided herein and (b) the simultaneous production of initial wells and additional wells will prevent the waste of hydrocarbons, prevent the drilling of unnecessary wells, and protect correlative rights.

ORDER

IT IS THEREFORE ORDERED:

To prevent waste of oil, gas and associated liquid hydrocarbons, to avoid the drilling of unnecessary wells, to protect correlative rights and to maintain, to the maximum extent practicable, drilling units of uniform size and shape for the promotion of more orderly development of the lands described in Finding of Fact No. 3 above, the following order is hereby promulgated to govern operations in said area effective as of April 12, 1985:

A. Upon the effective date any and all orders of the Board heretofore promulgated which are inconsistent with the orders herein set forth shall be and are hereby vacated to the extent inconsistent herewith.

B. Additional wells may be drilled, completed, and produced on established drilling units comprising government surveyed sections of approximately 640 acres (or other designated drilling units so long as such unit is at least 400 acres in size) to a density of no greater than two producing wells on each unit comprising a section (or other designated unit).

C. Additional wells may be drilled at the option of the operator of the unit, based upon geologic and engineering data for that unit which will justify the drilling of an additional well in order to recover additional oil, provided the additional well appears to be economically feasible.

D. Economically feasible means that a prudent operator would have a reasonable opportunity to recover the costs of drilling, completing, producing and operating the well, plus a reasonable profit.

E. It is not the intent of this order, in permitting additional wells to be drilled on established drilling units, to change or amend the existing contractual rights or relationships, express or implied, of any parties who share in production or the proceeds therefrom in the spaced area.

F. Any additional well must be located at least 1,320 feet from the existing well on the unit and not closer than 660

feet from the exterior boundary of the unit. No two wells may be drilled in any drilling unit within the same governmental quarter section or equivalent lot.

G. If an operator elects to initially complete a well solely within producing formations that are separate and distinct from and not in communication with any other producing formation, the operator will use reasonable precautions in order that such well is not completed in any producing formation that may be effectively drained by any other well.

H. Second or test wells drilled under previous orders as well as additional wells to be drilled under this order may be produced simultaneously with initial wells.

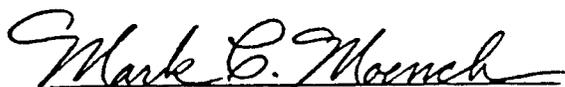
I. The Board retains exclusive and continuing jurisdiction of all matters covered by this order and of all parties affected thereby and particularly that the Board retains and reserves exclusive and continuing jurisdiction to make further orders as appropriate and authorized by statute and applicable regulations.

ENTERED this 17th day of April, 1985.

STATE OF UTAH
BOARD OF OIL, GAS AND MINING


GREGORY P. WILLIAMS, Chairman

APPROVED AS TO FORM:


MARK C. MOENCH
Assistant Attorney General

PENNZOIL EXPL & PROD 13 16 4W
11-344 REAY 42-013-312S1
PZ NW NW 660 FNL 1191 FWL SEC 6651 GR
BOX 290 NEOLA, UT, 84053

DUCHECNE
ALTAMONT
12000 GREEN RIVER
(713) 540-4000

- ldir 2-13-92 12,000 TD. SI. Tite Hole..
- ldir 3-20-92A SI. Tite Hole..
- ldir 5-14-92A SI. Tite Hole..
- ldir 6-17-92 SI. Tite Hole..
- ldir 8-13-92 SI. Tite Hole..
- ldir 9-2-92 SI. Tite Hole..
- ldir 10-6-92A SI. Tite Hole..
- ldir 10-14-92A SI. Tite Hole..
- ldir 1-17-92A SI. Tite Hole..
- ldir 3-19-92 SI. Tite Hole..
- ldir 5-5-92 SI. Tite Hole..
- ldir 6-8-92 SI. Tite Hole..
- ldir 9-2-92 SI. Tite Hole..
- ldir 11-1-92 SI. Tite Hole..

Spooled 11/16/90

Last report in file shows well **SI** after an successful completion 11-15-91

??
oil - 665 - DTA - 52 ??

DATE 12-22-93
We've never received WCR for this well - Please change status in computer to TA, so it will show up on TAD.

Prod Zone (if needed): ~~XXXXXXXX~~
Perfs: ~~XXXXXX~~ 7658-8080'
Compl. Date: 3-26-91
TD: 9915'
BHL: 660 FNL 1191 FWL

Altamont/Bluebell
GRWS-PZ
Neola 353-4397

Need to change status in computer so well will appear on turn-around

3-2-94 - Pennzoil won't send WCR - nothing to add. TA.
TA
Nothing has been done per secretary (?) in Neola

Comp.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Pennzoil Expl. & Prod Co.

WELLNAME: Reay 11-13 A4 API# 43-013-31291

SECTION: 13 TWP: 15. RANGE: 4W

INSPECTOR: John BERRIER TIME: 1:00pm DATE: 11-27-90

REPRESENTATIVE: Danny Lamau PUSHER: Dannie Snapp

OPERATIONS: Drlg Surface Hole

SPUD DATE: 11-19-90 DEPTH: 2546

DRILLING AND COMPLETIONS: Grace #186-

- APD
- WELL SIGN
- SANITATION
- BOPE
- BLOOIE LINE
- H2S
- VENTED/FLARED
- RESERVE PIT
- FLARE PIT
- BURN PIT
- HOUSEKEEPING

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL

PLUGS TESTED: _____ HOW _____ WOC _____

MARKER: _____ SURFACE _____ PLATE

RECLAMATION:

- CONTOUR
- RIP
- REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE

REMARKS:

Should Be Ready to Run Surface approx 11:15am.
11-28-90

APPROVED BY [Signature] HOW _____ DATE _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
CEMENTING OPERATIONS

COMPANY NAME: Pennzoil Explor Prod.

WELL NAME: Reay 11-13A4

QTR/QTR _____ SECTION 13 TOWNSHIP 15 RANGE 4W

CEMENTING COMPANY: D.S. WELL SIGN

INSPECTOR: John Bernier DATE: 11-29-90

CEMENTING OPERATIONS:

PLUGBACK: _____ SQUEEZE: _____ CASING: _____ P-A ZONE: _____
 SURFACE CASING: INTERMEDIATE _____ PROD CASING: _____
 PERFORATIONS _____ SQUEEZE PRESSURE _____

CASING INFORMATION:

SIZE 8 5/8 GRADE: S-80 HOLE SIZE: 11" DEPTH: 3000'

SLURRY INFORMATION: 530 SX 35/65 Poz-G 6% Gel. 10 1/2" x Cellulose 1/4" x Cellulose
200 SX 8-2 PFC 1/2" x Cellulose 1/4" x Cellulose 7 Gal/SX 14. PPG
100 SX 25-75 Poz-G 2% Cellulose 1/4" x Cellulose

1. CLASS: 1" O.D. 120 SX G-4 2 1/2" Cellulose
 LEAD: 35-65 Poz-G TAIL: 25-75 Poz-G

2. SLURRY WEIGHT:
 LEAD: 12.3 TAIL: 15.4

3. WATER (GAL/SK)
 LEAD: 10.9 TAIL: 5.1

4. COMPRESSIVE STRENGTH
 PSI @ _____ HR _____

PIPE CENTRALIZED Yes - 6 CEMENTING STAGES 1

LOST RETURNS _____ REGAIN RETURNS _____ BARRELS LOST 17

TOP OF CEMENT 353 PERF INTERVAL _____ 295 Bbls

CEMENT TO SURFACE? After 1"

ADDITIONAL COMMENTS: 1" w/ 1205 X G" w/ 20% Cellulose
Cmt to Surface. Waited 1 hr. Before 1" cmt - Pumped 65 SX

Wait 2 hrs. Pumped 35 SX No Cmt to Surface. Wait 4 hrs. Cutoff
Well on Head. Cmt Dropped 80' - Used Bulk Cmt to finish Cementing.
 0451T

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
BOPE TEST INSPECTION FORM

COMPANY: Pennzoil Expl. & Prod. REPRESENTATIVE: Donnie Saupp

WELL NAME: Reay 11-13 A4 API# 43-013-31291
Pusher - Slim Wilkinson

QTR/QTR MW SECTION 13 WELLSIGN TWP 15 RANGE 4W

INSPECTOR: John BERBER DATE: 11-30-90

DRILLING CONTRACTOR: Grace Dr 19 Co RIG # 18C

RIG OPERATIONS: Mopping up

DEPTH 2997 LAST CASING 8 5/8" @ 2994

TEST BY Double Jack WATER & methanol MUD _____

PRESSURE RATING OF STACK 3000 H2S RATED _____

TEST PRESSURES 3000 KELLYCOCK: UPPER 3000 LOWER 3000

INSIDE BOP 3000 FULL OPENING VALVE ON FLOOR

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. Drilling Head
2. Annular Tested to 1500psi
3. Rams. - Blind
4. Rams. Pipe
5. Mud-Cross
6. Double Stub Flange

ADDITIONAL COMMENTS: well head Finish 12 mid

REPORTED BY: Slim Wilkinson PHONE: 454-3345

DATE: 11-30-90 SIGNED: [Signature]

(IF TESTED BY INDEPENDENT COMPANY, ATTACH COPY OF TEST)

Cory

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Penazail

WELLNAME: Reay 11-13 A4 API# 43-013-31291

SECTION: 13 TWP: 15 RANGE: 4W

INSPECTOR: John BERRIER TIME: 12:20 DATE: 12-6-90

REPRESENTATIVE: Donnie Snapp PUSHER: Stem

OPERATIONS: Topping for Bit

SPUD DATE: _____ DEPTH: 5028

DRILLING AND COMPLETIONS:

<input type="checkbox"/> APD	<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> SANITATION
<input type="checkbox"/> BOPE	<input type="checkbox"/> BLOOIE LINE	<input type="checkbox"/> H2S
<input type="checkbox"/> VENTED/FLARED	<input type="checkbox"/> RESERVE PIT	<input type="checkbox"/> FLARE PIT
<input type="checkbox"/> BURN PIT	<input type="checkbox"/> HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL
_____	_____
_____	_____
_____	_____

PLUGS TESTED: _____ HOW _____ WOC _____

MARKER: _____ SURFACE _____ PLATE

RECLAMATION:

CONTOUR RIP REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

APPROVED BY _____ HOW _____ DATE _____

OPERATOR Pennzoil Expl & Production DATE 11-4-90

WELL NAME Reay 11-13A4

SEC N4W 13 T 15 R 4W COUNTY Duchess

43-013-31091
API NUMBER

fee (4)
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

NEAREST WELL

LEASE

FIELD USOM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

One additional well within sec 13
water permit
Permit 10-31-90

APPROVAL LETTER:

SPACING:

R615-2-3

N/A
UNIT

R615-3-2

139-40 4-17-85
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

fee stipulation
1- funds water permit
2- Reserve pit stipulation



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

November 5, 1990

Pennzoil Exploration & Production Co.
P. O. Box 290
Neola, Utah 84053

Gentlemen:

Re: Reay 11-13A4 - NW NW Sec. 13, T. 1S, R. 4W - Duchesne County, Utah
660' FNL, 1191' FWL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 139-42 dated April 17, 1985 subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.
2. Pennzoil Exploration & Production Co., as designated operator, is the bonded principal in reference to this Application for Permit to Drill. Should this designation change or a transfer of ownership occur, liability will remain with the designated operator until the Division is notified by letter of a new bonded principal.
3. Reserve pit shall be lined with a synthetic liner as proposed by Pennzoil.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.

Page 2
Pennzoil Exploration & Production Co.
Reay 11-13A4
November 5, 1990

4. Prompt notification if it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31291.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
Division of State Lands
J. L. Thompson
we14/1-8

Copy

WATER PERMIT 43-10257 (T65010)

DIVISION OF OIL, GAS AND MINING

DRL

API NO. 43-013-31291

SPUDDING INFORMATION

NAME OF COMPANY: PENNZOIL EXPLORATION & PRODUCTION CO.

WELL NAME: REAY 11-13A4

SECTION NWNW 13 TOWNSHIP 1S RANGE 4W COUNTY DUCHESNE

DRILLING CONTRACTOR BILL MARTIN

RIG # _____

SPUDDED: DATE 11-16-90

TIME 8:30 a.m.

HOW DRY HOLE

DRILLING WILL COMMENCE GRACE #186 - 11/19/90

REPORTED BY DAN

TELEPHONE # 353-4397

DATE 11/16/90 SIGNED TAS

RECEIVED
NOV 27 1990

OPERATOR PennWell Expl. & Prod. Co.
ADDRESS P.O. Box 2967
Houston, Tx 77252-2967

OPERATOR ACCT. NO. N2885

DIVISION OF
OIL, GAS & MINING

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11136	4301331291	Healy 11-13A4	NWW	13	15	4W	Duchesne	11/16/90	11/16/90
WELL 1 COMMENTS: Fee-Lease Proposed Zone - GRV Field - Altamont (New entity added 11-28-90) per Unit - N/A											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

- ACTION CODES** (See instructions on back of form)
- A - Establish new entity for new well (single well only)
 - B - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - D - Re-assign well from one existing entity to a new entity
 - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Elizabeth O. Taylor
Signature
Staff accountant III 11/26/90
Title Date
Phone No. (713) 546-6969

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

(Other instructions on reverse side)

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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee Land	
2. NAME OF OPERATOR PENNZOIL EXPLOARTION & PRODUCTION COMPANY		6. IF INDIAN, ALLOTTED OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. BOX 290 , Neola , Utah 84053		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface NWNW 660' FNL 1191' FWL		8. FARM OR LEASE NAME REAY	
14. PERMIT NO. 43-013-31291		9. WELL NO. 11-13A4	
15. ELEVATIONS (Show whether OF, RT, OR, etc.) KB- 6674'		10. FIELD AND POOL, OR WILDCAT Upper Green River	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 13 T1S R4W	
		12. COUNTY OR PARISH Duchesne	
		13. STATE Utah	

FEB 07 1991

DIVISION OF OIL, GAS & MINING

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) Monthly Operation Report <input checked="" 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.)

- Monthly Operation Reports from Nov. 11, 1990 to Dec. 30, 1990
- Spud conductor hole with Bill Rathole Machine on Nov. 16, 1990
- Drill a 26" hole and set 14" conductor at 65' from ground level.
- Cement with 275 sks. Class "G", Cement circulated to surface.
- Move in and rig up Grace Rig 186
- Spud at 11:00 AM Nov. 24, 1990.
- Drill a 11" hole to 2994' with normal problems. No Water Flow.
- Final mud properties: 8.5 ppg. 29 vis.
- Set 68 jts. 8 5/8" 28# S-80 STC (Total lenght 2998')
- Set and cemented at 2994' with 530 sks. 35/65 Class "G", 200 sks RFC, and 200 sks. 25/75 Class "G". Did not circulate cement.
- Perform 1" Top Job with 130 sks. Class "G", Circulated to surface.
- Nipple up BOPs and test same to 3000 psi (O.K.). Test 8 5/8" csg. to 1500 psi. (O.K.)
- Drill a 7 7/8" to 3009' and test formation to a 12.8 ppg. EMW, leaked off to a 11.5 ppg. EMW.
- Drill a 7 7/8" hole to T.D. at 9915', with normal problems.
- Final mud properties: 8.6 ppg. 36 vis. 12.8 wl.
- Log well with FDIL-GR, Sonic, CNL-MFSL, and Four Arm Caliper.
- Run 232 jts. 5 1/2" WC-70 17# LTC with Float collar and guide shoe, (Total Lenght of 9920.60') Set at 9915'.
- Cement with 875 sks. DS Hilift and 720 sks. 50/50 Poz "G", Bump plug at 2:30 PM 12-29-90.
- Set slips, nipple down BOPs, and nipple up tubing spool; Test to 3000 psi O.K.
- Release Grace Rig 186 at 2:00 AM 12-30-90.
- FINAL REPORT

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

SIGNED *James I. Kaman* Office (801) 353-4397 Home (801) 789-7033
TITLE Drilling Foreman DATE 2-5-91

(This space for Federal or State office use)

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

*See Instructions on Reverse Side.

NOTIFICATION AND INFORMATION REQUIREMENTS

	AFE & Well Prognosis	State Permits, Reports, Survey, etc.	Daily Drilling Reports - Phone	Daily Drilling Reports - Mail	Electric Logs - Field Prints	Electric Logs - Final Prints	Electric Logs - Film Prints	Electric Logs - Tape LIS Format	Log Telecopies as needed	Notice prior to & results of DTS's, Cores, Logging, Plugging, etc.	Reports - DST, Geological, Completion, Fluid Analysis, etc.	Daily Mud Log & Final Mud Log	Cutting of samples
Pennzoil Company #11-13A4 Reay Sec. 13, T1S-R2W Duchesne Co., Utah <u>LETTERS</u> Pennzoil Company P.O. Box 2967 Houston, TX 77252-2967 Attn: Greg Stevens <u>LARGE PACKAGES</u> Pennzoil Company 700 Milam Houston, TX 77002 Attn: Greg Stevens					✓								
Pennzoil Company P.O. Box 2967 - 27th Floor Houston, TX 77252-2967 Attn: Greg Stevens Office: (713) 546-8399	1	2	1	1	2	2	1	1	1	1	2	1&2	1
Pennzoil Company P.O. Box 290 Neola, UT 84053 Attn: Danny Laman	2	1	0	0	✓	0	0	0	0	1	1	0&1	0
Utah Oil, Gas & Mining 355 West North Temple Suite 350 Salt Lake City, UT 84180	0	1	0	0	0	1	0	0	0	0	1	0&1	1
Flying J, Inc P.O. Box 540180 North Salt Lake City, UT 84054-0180 Attn: Carl F. Kendell (801) 298-7733	1	1	0	1 Weekly	1	1	0	0	1	1	1	1&1 Weekly	0
Altex Oil Corporation 1430 Larimer Street, Suite 201 Denver, Colorado 80202 Attn: (303) 534-2667	1	1	0	1 Weekly	1	1	0	0	1	1	1	1&1 Weekly	0
Total	5	6	1	3	5	5	1	1	3	4	6	3&6	2

 **PENNZOIL EXPLORATION AND PRODUCTION COMPANY**

P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353-4397

February 6, 1991

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

[Handwritten signature]
FEB 07 1991

Re: Monthly Drilling Reports
Reay 11-13A4
NWNW Sec. 13 T1S R4W
Duchesne County, Utah
API No. 43-013-31291

DIVISION OF
OIL, GAS & MINING

Gentlemen:

Enclosed, please find the original and three (3) copies of your Form 5 "Sundry Notices & Reports On Wells" for the captioned well. Pennzoil Exploration and Production Company requests these Form 5 and all related information submitted on this well be held CONFIDENTIAL for that period of time permitted by regulations and law.

Please contact the undersigned if there should be any question.
(801) 353-4397

Sincerely
Pennzoil Exploration and Production Company

[Handwritten signature of Danny L. Laman]

Danny L. Laman

Enclosure

FEB 08 1991

DIVISION OF
OIL, GAS & MINING

GEOLOGICAL WELL REPORT
PENNZOIL EXPLORATION AND PRODUCTION COMPANY
No. 11-13A4 REAY 43-013-31291
ALTAMONT FIELD
660 FNL 1191 FWL NW/NW
Sec. 13 T1S R4W
Duchesne County, Utah

Prepared by: Robert (Bob) Womack
Well-site Geologist
6935 S. Ogden Court
Littleton, CO 80122
303-798-1591

CONFIDENTIAL

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Geological Well Log.Back Pocket

WELL DATA

OPERATOR: Pennzoil Exploration and Production Company
WELL NAME: 11-13A4 Reay
LOCATION: 1191 FWL 660 FNL NW/NW Sec. 13 T1S R4W
COUNTY: Duchesne
STATE: Utah
ELEVATION: GL: 6654' KB: 6674'
DRILLING FOREMAN: Donnie Snapp, Enmarc, Inc.
CONTRACTOR: Grace Drilling Rig # 186
TOOLPUSHER: S. L. "Slim" Wilkinson
DRAW WORKS: Gardner-Denver 1100
DERRICK: L. C. Moore
MOTORS: 3 Waukesha Diesels
PUMPS: #1 Gardner-Denver P29 5½"
#2 Gardner-Denver P29 6"
MUD COMPANY: Milpark (BH) Lynn Brandhagan, Mud Engineer
MUD TYPE: Water
MUD LOGGING: GEO Engineering Lees Brown
Brian Walsh
CASING: 8 5/8" S-80, 28# to 2994'
CEMENTERS: Dowell
HOLE SIZE: 11" to 2994, 7 7/8" to TD
SAMPLES: 10' samples 7000 - TD
COMMENCED: Spudded 11:00 A.M., 11-25-90
DATE TOTAL DEPTH: TD 5:00 A.M., 12-25-90
STATUS: Run casing
TOTAL DEPTH: Driller: 9915
Schlumberger 9891

DAILY WELL CHRONOLOGY

<u>DATE</u>	<u>DEPTH</u>	<u>DAILY FOOTAGE</u>	<u>DAY</u>	<u>REMARKS</u>
11-25-90	926'	850'	(1)	Drlg. 13.5 hr., Trip 3.5 hr., Rig up to spud 5 hr., Survey 1.5 hr., Rig svc .5 hr., Spud @ 11:00 A.M., 11-25-90.
11-26-90	1669'	743'	(2)	Drlg. 16.5 hr., Trip 4.5 hr., Circ & work pipe 1.5 hr., Survey 1 hr., Rig svc. .5 hr.
11-27-90	2376'	707'	(3)	Drlg. 20 hr., Trip 2 hr., Surv. 1 hr. Rig svc & repair 1 hr.
11-28-90	2923'	547'	(4)	Drlg. 23 hr., Surv. .5 hr., Rig svc. .5 hr.
11-29-90	2994'	71'	(5)	Drlg. 3 hr., Fishing for twisted off D.C. 18.5 hr., Circ. for surface pipe 1.5 hr., Survey 1 hr.
11-30-90	2994'	0	(6)	Drlg. 0 hr., Run 2994' 8 5/8" S-80 csg. 3.5 hr., Cement & WOC., 14.5 hr., Nipple up and test BOP 6 hr.
12- 1-90	2994'	0	(7)	Drlg 0 hr., Trip 2 hr., Drill cem. plug 1 hr., Nipple up, Test BOP and csg. 21 hr.
12- 2-90	3670'	676'	(8)	Drlg. 16 hr., Trip 3.5 hr., Survey .5 hr., Rig svc .5 hr., Wash to bottom .5 hr., Test BOP & csg. pressure 2 hr.
12- 3-90	3988'	318'	(9)	Drlg. 10.5 hr., Trip 1 hr., Rig serv. .5 hr., Rig repair 12 hr.
12- 4-90	3988'	0	(10)	Rig repair 24 hr.
12- 5-90	4500'	512'	(11)	Drlg. 17.5 hr., Trip 1 hr., Rig repair 5 hr., Survey .5 hr.
12- 6-90	4960'	460'	(12)	Drlg. 21.5 hr., Survey .5 hr., Rig svc .5 hr., Work pipe 1.5 hr.
12- 7-90	5329'	369'	(13)	Drlg. 17 hr., Trip 3.5 hr., Circ .5 hr., Rig svc .5 hr., Rig repair 1.5 hr.
12- 8-90	5856'	527'	(14)	Drlg. 21 hr., Rig repair 2 hr., Survey .5 hr., Rig service .5 hr.
12- 9-90	6360'	504'	(15)	Drlg. 23 hr., Survey .5 hr., Rig service .5 hr.

12-10-90	6793'	433'	(16)	Drlg. 23.5 hr., Survey .5 hr.
12-11-90	7013'	220'	(17)	Drlg. 16 hr., Trip 5.5 hr., Rig serv. .5 hr., Survey .5 hr., Circ & WOB 1 hr., Cut drlg line 1 hr.
12-12-90	7295'	282'	(18)	Drlg. 22 hr., Survey 2 hr.
12-13-90	7572'	277'	(19)	Drlg. 23 hr., Rig serv. .5 hr., Survey .5 hr.
12-14-90	7764'	192'	(20)	Drlg. 15 hr., Trip 7 hr., Ream to bottom 1 hr., Survey .5 hr., Rig serv. .5 hr.
12-15-90	8056'	292'	(21)	Drlg 23.5 hr., Rig service .5 hr.
12-16-90	8195'	139'	(22)	Drlg. 14.5 hr., Trip 6 hr., Survey 1 hr., pump pill 1 hr., Ream to bottom 1 hr., Rig svc .5 hr.
12-17-90	8440'	245'	(23)	Drlg. 23½ hr., ½ hr rig svc.
12-18-90	8640'	200'	(24)	Drlg. 22½ hr., ½ hr. rig svc.
12-19-90	8736'	96'	(25)	Drlg. 13 hr., Trip 7.5 hr., Survey 1 hr., Ream to bottom 2 hr., rig svc. .5 hr.
12-20-90	9020'	284'	(26)	Drlg. 21 hr., Wash & ream to bottom 1½ hr., Survey 1 hr., Rig svc ½ hr.
12-21-90	9277'	257'	(27)	Drlg. 23.5 hr., Rig svc .5 hr.
12-22-90	9512'	235'	(28)	Drlg. 22.5 hr., Survey 1 hr., Rig svc .5 hr.
12-23-90	9562'	50	(29)	Drlg. 4.5 hr., Trip 16 hr., Circ. 2.5 hr., Thaw out frozen lines 1 hr.
12-24-90	9660'	98'	(30)	Drlg. 11 hr., Trip 7.5 hr., Wash & ream to bottom 4 hr., Rig svc ½, Thaw out 1 hr.
12-25-90	9900 TD	240	(31)	Drlg. 22.5 hr., Circ. 1 hr, Rig svc. .5 hr.
12-26-90	9900'	0	(32)	Trip for logs 8.5 hr., Ream to bottom .5 hr., Circ. for E-log 4.5 hr., Run E-log 10.5 hr.

12-27-90	9915 (corr)	0	(33)	Trip to condition hole 9 hr., Wash & ream 450' to bottom 6 hr., Circ & condition hole for E-log 8 hr., Survey 1 hr.
12-28-90	9915 T.D.	0	(34)	Condition hole to run 5½" production casing.

FORMATION	ELOG		PROGNOSIS		SAMPLE	
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM
Green River	7500	- 860	7536	- 860	7534	- 860
GR/T _g 2	7955	-1315	7991	-1315	7989	-1315
GR/T _{gm}	8125	-1485	8161	-1485	8158	-1484
GR/Z	8250	-1610	8286	-1610	8288	-1614
GR/Y	8540	-1900	8576	-1900	8566	-1892
GR/Trona 1	8775	-2135	8811	-2135	8802	-2128
GR/C3	9222	-2582	9258	-2582	9264	-2590
GR/Mahagony Bench	9770	-3130	9806	-3130	9800	-3126

Pennzoil-Chevron
Ute Tribal 10-13A4
NW-NE S13 1S 4W
Duchesne Co., Utah

KB 6640

Pennzoil
#11-13A4 Reay
NW-NW Sec. 13 T1S R4W
660 FNL 1191 FWL
Duchesne County, Utah
KB 6674

PENNZOIL EXPLORATION AND PRODUCTION COMPANY
 #11-13A4 NW-NW Sec 13 T15 R4W Duchesne County, Utah

E-Log Depth	Probable Net Pay	Mud Logger Gas Units (Bkgr - Peak)	Sample Show	Neutron Density X-over	Overall Show Qual.	Possible Production
7678 - 85	7	9 - 60	no	no	poor-fair	Gas
7716 - 20	4	8 - 37	no	no	v. poor	Gas
7738 - 42	3	4 - 10	no	no	v. poor	Gas
7776 - 80	4	5 - 25	no	no	v. poor	Gas
7840 - 46	6	6 - 23	no	no	v. poor	Gas
7852 - 60	6	13 -124	no	no	poor-fair	Gas
7863 - 68	5	18 -165	no	yes	fair	Gas
7896 - 98	2	8 - 55	v.weak	no	poor	Gas
7950 - 53	3	3 - 10	no	no	v. poor	Gas
7964 - 67	3	7 - 15	v.sli	no	v. poor	Gas
7978 - 84	6	6 - 25	weak	near	v. poor	Oil-Gas
7988 - 92	4	7 - 34	weak	near	v. poor	Oil-Gas
<u>TG₂</u>						
8004 - 12	6	10 -112	slight	yes	poor-fair	Oil-Gas
8024 - 34	6	7 -122	poor	near	poor-fair	Oil-Gas
8047 - 52	5	8 - 54	slight	no	v. poor	Oil-Gas
8074 - 80	6	8 - 73	v.sli	no	v. poor	Oil-Gas
8125 - 28	3	no incr.	no	yes	v. poor	Gas
<u>TG_m</u>						
8182 - 84	2	6 - 25	no	yes	v. poor	Gas
8212 - 14	2	14 - 55	sli	sli	v. poor	Oil-Gas
8242 - 44	2	10 - 30	no	sli	v. poor	-
8256 - 62	4-5	no incr.	no	3-near	v. poor	-

E-Log Depth	Probable Net Pay	Mud Logger Gas Units (Bkgr - Peak)	Sample Show	Neutron Density X-over	Overall Show Qual.	Possible Production
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GR/Z

8396 - 8404	8	9 - 35	sli	yes (thick oil in mud)	poor	Oil-Gas
8410 - 12	2	10 - 33	sli	sli	poor	Oil-Gas
8424 - 28	4	8 - 53	sli	near	poor	Oil-Gas
8440 - 44	4	8 - 46	v.sli	yes	poor	Oil-Gas
8450 - 53	3	9 - 55	v.sli	yes	poor	Oil-Gas
8499 - 8508	7	no incr.	no	yes	v. poor	Oil-Gas
8524 - 28	4	8 - 32	no	yes	v. poor	Oil-Gas
8545 - 49	4	10 - 37	no	yes	v. poor	Oil-Gas
8560 - 63	3	8 - 60	no	yes	poor	Oil-Gas

GR/Y

8600 - 03	3	8 - 86	v.sli	yes	poor	Oil-Gas
8649 - 70	broken	no incr.	no	yes	v. poor	Oil-Gas
8708 - 12	4	48 -108	sli	sli	poor	Oil-Gas
8792 - 98	6	40 -110	none-v.sli	good	poor	Oil-Gas
8832 - 35	3	15 -200	sli	sli	poor-fair	Oil-Gas
8852 - 58	6	30 - 95	none	near	v. poor	Oil-Gas
8930 - 40	10	22 -122	fair	near	poor	Oil
9007 - 10	3	13 - 58	sli	near	v. poor	Oil
9046 - 58	4	18 -210	no	near-sli	poor-fair	Oil-Gas
9066 - 71	5	70 -165	no	near	poor	Gas
9130 - 36	4	22 - 85	v.sli	yes	poor	Oil-Gas
9190 - 94	4	40 -110	no	near	poor	Oil-Gas
9206 - 10	4	36 -350	fair	near	poor-fair	Oil
9223 - 27	4	40 -108	poor-fair	near	poor	Oil

E-Log Depth	Probable Net Pay	Mud Logger Gas Units (Bkgr - Peak)	Sample Show	Neutron Density X-over	Overall Show Qual.	Possible Production
9260 - 63	3	26 - 90	tr	no	v. poor	Oil
<u>GR/C3</u>						
9274 - 78	4	26 -285	tr	near	poor-fair	Oil
9296 - 98	2	65 -245	pr-fr	yes	poor	Oil
9303 - 07	4	65 -215	poor	yes	poor	Oil
9322 - 27	5	40 -135	pr-fr	near	poor	Oil
9363 - 69	5	35 - 70	v.sli	near	v. poor	Oil
9410 - 26	6	60 - 95	v.sli	near	poor	Oil
9433 - 37	4	no incr.	tr	yes	poor-fair	Oil
9460 - 67	5	56 -120	tr-fair	yes	poor-fair	Oil
9496 -9500	4	54 -130	tr-fair	near	poor-fair	Oil
9526 - 29	3	50 -100	tr-poor	v.sli	poor	Oil
9542 - 48	6	42 -165	pr-fair	yes	poor-fair	Oil
9571 - 73	2	no incr.	no	sli	v. poor	-
9581 - 83	2	no incr.	no	yes	v. poor	-
9612 - 35	10	32 -124	pr-fair	near	poor	Oil
9652 - 56	4	52 -112	pr-fair	no	poor	Oil
9668 - 78	3	50 -110	pr-fair	(thin streaks) near	poor	Oil
9683 -9708	16	40 -260	pr-fair	streaky yes	poor	Oil
9736 - 42	6	35 -110	poor	near	poor	Oil
9752 - 56	4	35 -100	poor	no	v. poor	Oil
<u>Mahagony Bench</u>						
9844 - 50	4	no incr.	v. poor	sli	v. poor	Oil
9856 - 72	8	50 - 90	sli-poor	-	poor	Oil
9882 - 92	7	42 - 90	sli-weak	-	poor	Oil

SAMPLE DESCRIPTIONS

Pennzoil Exploration & Production Company
 No. 11-13A4 Reay 660FNL 1191FWL NW/NW Sec. 13 T1S R4W
 Duchesne County, Utah

- 7000 - 7010 Shale, medium gray/gold, mottled in part with maroon, calcareous, some slightly arenaceous, some bluish-gray slightly siliceous with thin streaks siltstone dark red-brown, calcareous with some imbedded sand grains, fine/medium, clear/slightly frosted subangular. Abundant unconsolidated sand grain, probably from siltstone.
- 7010 - 7020 Shale and siltstone as above. Becoming very arenaceous with angular/subangular fine sand grains.
- 7020 - 7028 Shale gray/dark reddish-brown, slightly mottled in part, calcareous, with silty streaks.
- 7028 - 7048 Shale, predominantly dark reddish-brown/maroon/gray, some slightly mottled, with silty streaks, some very finely micaceous, non-calcareous.
- 7048 - 7066 Shale, gold-brown, calcareous, thin silty to arenaceous streaks, with streaks shale, maroon/gray, mottled and thin inclusions gypsum, light gray, soft.
- 7066 - 7074 Shale, dark brown/grayish brown, non-calcareous, arenaceous in part, trace quartzitic sandstone, medium bluish gray, medium grain, subangular, trace chert nodules, clear, trace shale, dark red-brown, very arenaceous with some microvuggular porosity, slightly calcareous.
- 7074 - 7080 Shale a/a with abundant gypsum, clear/white, some crystalline, soft, trace pyrite, minute crystal clusters.
- 7080 - 7114 Shale, predominantly dark gold-brown, slightly calcareous, some silty streaks becoming arenaceous in part with alternating beds of shale, medium bluish-gray/maroon/mottled, trace quartzitic sand, blue-gray with trace shale, light gray, marly, abundant gypsum.
- 7114 - 7122 Shale a/a, slight increase silty shale.
- 7122 - 7136 Shale, predominantly medium/dark gold-brown, some slightly silty to shale medium bluish-gray, arenaceous streaks, some mottled gold/brown/maroon/gray.
- 7136 - 7162 Shale a/a with streaks gypsum, white, earthy/finely crystalline, soft with trace shale dirty white, translucent cast, marly or waxy grading to medium bluish-gray, silty, some slightly arenaceous, some unconsolidated fine sand grain, subrounded.
- 7162 - 7190 Shale, a/a, soft, slightly argillaceous.
- 7190 - 7210 Shale a/a, increase shale dull/dirty white, non-calcareous, soft, slightly silty (gritty), very fine dark mineral flakes, very slightly arenaceous, dries to waxy sheen.

- 7210 - 7222 Shale, dark gold-brown, slightly calcareous, some slightly arenaceous/maroon/medium gray/bluish-gray soft with trace shale white earthy dries to light gray, waxy with bentonite appearance.
- 7222 - 7232 Shale, light/medium gold-brown, limonitic, some silty, non-silty streaks, becoming slightly arenaceous.
- 7232 - 7250 Shale, predominantly dark dull gold-brown, very slightly dolomitic, some gray/brown, mottled, arenaceous, thin streaks shale, maroon/gray/mottled as above.
- 7250 - 7296 Shale a/a, becoming more limonitic, soft, some gray shale slightly gummy.
- 7296 - 7302 Shale a/a increase shale, medium/dark gray, slightly calcareous, moderately firm, very finely micaceous, some very slightly arenaceous. Trace sandstone, white very fine/fine grained calcareous cement, hard.
- 7302 - 7314 Shale a/a, predominantly dark gold-brown, with streaks becoming arenaceous.
- 7314 - 7334 Shale, dark reddish-brown, slightly calcareous, moderately firm with slightly silty streaks.
- 7334 - 7340 Shale, medium yellow/gold-brown, more limonitic.
- 7340 - 7358 Shale yellow/gold-brown/reddish-brown/maroon/gray with thin streaks shale white/light gray, waxy/soapy.
- 7358 - 7380 Shale, a/a, soft, some slightly gummy, with moderately firm streaks.
- 7380 - 7398 Shale a/a, becoming more limonitic (yellow), some arenaceous with trace of micro-conglomeritic sandstone, white/light gray, with very fine to medium grains in soft matrix.
- 7398 - 7406 Shale, approximately 50-50 reddish-brown/gold-brown and white, waxy shale/dark gray, calcareous.
- 7406 - 7412 Shale, bluish-gray, very slightly calcareous, coal black vitreous luster (<10%) w/associated gas (c₁, trace c₂) 30 units.
- 7412 - 7446 Shale, medium gold-brown limonitic/reddish-brown/medium bluish-gray with trace unconsolidated sand grain, fine/medium, frosted, subrounded, thin streaks shale dark gray, limy, firm.
- 7446 - 7460 Shale a/a predominantly gold-brown, grading to medium gray with streaks white, calcareous, clayey material, trace sandstone, white/light red/pink, very fine/fine grained, poor cement, slightly calcareous, with occasional medium loose grains, clear/red, frosted, subrounded, slight trace quartz crystals (1/2-1 mm long)

- 7460 - 7486 Shale a/a becoming more medium gray/bluish gray, some shale dark gray/black, soft, slightly gummy when wet, with thin streaks sandstone, white/light gray, very fine grade, occasional fine grain poor cement, slightly calcareous, with loose grains very fine/fine-grain, subrounded.
- 7486 - 7512 Shale, predominantly medium/dark golden-brown/reddish-brown soft streaks appears slightly gypsiferous, thin streaks becoming silty, more firm.
- 7512 - 7542 Shale a/a, slight increase unconsolidated sand grains, clear/red, some frosted, subangular subrounded, trace consolidated sandstone pieces, poor cement, increase gray shale and lighter reddish brown (ocher) shale, trace siltstone, dirty white, slightly s & p, calcareous, soft.
- 7542 - 7558 Shale, medium gold-brown/brown, with good increase ($\approx 30\%$) light/dark gray shale. Trace shale, light gray shale with light green cast, some arenaceous, thin streaks sandstone a/a.
- 7558 - 7580 Shale a/a, slight increase light gray/light greenish-gray shale, with increase in sandstone streaks, trace light lavender shale, trace sandstone, white, quartzitic.
- 7580 - 7610 Shale a/a, good increase ($\approx 30\%$) in shale, light/medium gray-green some slightly arenaceous.
- 7610 - 7642 Shale, medium gray/bluish-gray, some shale, light/medium gray-green with decrease in gold-brown/reddish brown. Some ocher with thin streaks sandstone, dirty white, very fine/fine-grained, friable, abundant loose sand grains.
- 7642 - 7664 Shale a/a with increase shale, green/gray-green, non-calcareous, some slightly silty in part.
- 7664 - 7679 Shale, a/a, becoming slightly silty in part, moderately firm, some slightly arenaceous with fine grains breaking out of shale. Trace siltstone, dirty white/light gray, soft.
- 7679 - 7686 Sandstone, clear dirty white, very fine/fine-grain, some silt-sized, calcareous, friable, with dull yellow or gold fluorescence with very slow, soaking residual cut, abundant unconsolidated very fine/fine grains.
- 7686 - 7698 Shale, gold-brown/reddish brown, predominantly light gray-green, soft, non-calcareous.
- 7698 - 7708 Sandstone, white/light green-gray, soft, very fine grain to silt with light gray/gray-green shale.
- 7708 - 7722 Shale, medium gray/gray-green/maroon with thin interbedded sandstone white/light gray, very fine grain, soft friable, abundant loose grain.

- 7722 - 7728 Sandstone, dirty white, very fine grain, friable, with occasional fine grain grading to siltstone, light gray, slightly calcareous, no visual porosity, no fluorescence with very weak, residual cut.
- 7728 - 7742 Shale, dark reddish-brown/light gray/light gray-green with thin interbedded sandstone, dirty white/light gray, slightly calcareous, soft, some siltstone, light gray.
- 7742 - 7776 Shale, light/medium gray-green, slightly calcareous, dark gray/medium to dark reddish brown, soft.
- 7776 - 7792 Sandstone, clear/white, very fine grain, slight calcareous, soft friable, with occasional fine grain in very fine grain matrix. No show.
- 7792 - 7826 Shale, dark reddish brown, very finely micaceous, some slightly silty, light gray to light green-gray, soft with thin streaks siltstone white/dirty white, slightly calcareous, grading to very fine grain sandstone, no visual porosity, with occasional loose fine/medium grain, subangular to subrounded.
- 7826 - 7840 Shale and siltstone a/a, shale becoming more silty in some.
- 7840 - 7848 Sandstone, clear/white, very fine/fine grained, moderately sorted, slightly calcareous, moderately friable, very faint dull gold fluorescence, no cut, some siltstone, medium gray/dirty white, with embedded fine sand grains.
- 7848 - 7860 Sandstone, clear/white, very fine grained, calcareous, trace poor visual porosity due to calcareous cement, with very faint dull gold fluorescence, no cut, no show, trace very fine pyrite in some sandstone.
- 7860 - 7868 Sandstone, dirty white, very fine grain to silt size with few embedded fine grains, slightly calcareous, none to poor visual porosity, no visual show.
- 7868 - 7876 Shale, dark gray, slightly calcareous, soft.
- 7876 - 7882 Sandstone, clear/white, very fine grain with fine and an occasional medium grain, subrounded, slightly calcareous, some with fair dull greenish-yellow fluorescence, with good, quick, moderate yellow streaming cut. Trace limestone.
- 7882 - 7896 Shale, dark gold-brown/reddish-brown/light green to gray green, some slightly silty with some siltstone, light gray-green/gray, soft.
- 7896 - 7898 Sandstone, clear/white/light gray, silt size to very fine/fine grain, poor to moderately sorted, slightly calcareous, trace with black stain, poor weak yellow cut, very short in duration.

- 7898 - 7918 Shale, dark gold-brown/reddish-brown/light gray/light green-gray/medium green, trace siltstone, dirty white grading to very fine grain sandstone with trace of dark brown oil stain, faint bluish-white fluorescence, no cut.
- 7918 - 7928 Siltstone, dark brown, argillaceous in part/dirty white, slightly calcareous, soft with interbedded shale a/a, some with very faint yellow fluorescence, no cut, trace limestone, dark grayish-brown cryptocrystalline, dense.
- 7928 - 7964 Shale, gold-brown/reddish-brown/light gray-green, soft, some slightly calcareous with thin interbedded sandstone, clear/white/medium gray, very fine/fine grain, fairly well sorted, trace pyritic sandstone, trace chert, clear/translucent red.
- 7964 - 7968 Sandstone, clear/light gray, slight calcareous, very fine grain with few imbedded fine grain, slight trace dark brown oil stain, no fluorescence, gives quick, bright yellow cut in spot dish.
- 7968 - 7978 Shale, a/a with thin interbedded sandstone, clear/white, very fine/fine grain, slight calcareous with visual black stain pinpoints, no fluorescence with good bright yellow cut.
- 7978 - 7986 Sandstone, dirty white/light gray, vfg with some fine grain, with black pinpoint stain, no visual fluorescence on stain, but sample with overall faint gold fluorescence, with quick bright yellow blossoming cut.
- 7986 - 7989 Sandstone as above, only small pinpoint black stain in sandstone, but increase in dark brown globs of live, free oil breaking from mud.
- TOP GR/TG₂ 7989
- 7989 - 8004 Shale, medium reddish-brown/light gray to gray-green, some slightly silty in part, some arenaceous.
- 8004 - 8012 Sandstone, clear/light gray-brown, very fine/fine grained, friable, calcareous, no visual porosity, trace brown oil stain on approximately 10% of sandstone, faint gold fluorescence on sample, some free, live dark brown/red-brown oil specks on mud. 112 units gas.
- 8012 - 8024 Shale, medium gold-brown, very finely micaceous/light to medium grayish-green, some varicolored, with thin streaks siltstone, light brown, soft.
- 8024 - 8034 Sandstone, clear/white/light brown, very fine grain with some fine grains, none to poor visual porosity, trace dark brown/black pinpoints of oil stain with very pale gold fluorescence with quick, bright yellow blossoming cut. 122 units gas.
- 8034 - 8046 Shale, gold-brown/medium gray to light greenish-gray, soft with thin interbedded sandstone, dirty white/light gray, very fine grained, light gray-brown, scattered loose, medium sand grains, frosted, subrounded to rounded, slight trace limestone, dark gray-brown, microcrystalline, dense, pale yellow fluorescence.

- 8046 - 8052 Sandstone, clear/white/light gray, vf/fg, abundant loose sand grains, subangular/subrounded, no fluorescence to very faint gold, slight trace (<1%) with quick, bright yellow cut.
- 8052 - 8062 Shale, light/medium gray to gray-green, some slightly silty in part, some shale dark reddish brown, some varicolored.
- 8062 - 8068 Shale a/a trace shale dark gray with fine/medium sand grains imbedded.
- 8068 - 8074 Shale, predominantly dark gold/reddish-brown to dark gray, some varicolored, some slightly silty in part.
- 8074 - 8090 Sandstone, clear/white, very fine grain, trace sandstone, medium gray-brown, calcareous, with no fluorescence, very faint residual cut.
- 8090 - 8102 Shale, predominantly dark reddish-brown/gold-brown, some becoming silty in part with thin interbedded sandstone, white, very fine grain with occasional fine grains, none to slightly calcareous.
- 8102 - 8134 Shale a/a, becoming more dark gray, slightly calcareous, some slightly arenaceous, slight trace (< 1%) limestone, medium gray-brown crypto-crystalline, dense, slightly argillaceous with thin streaks sandstone, light gray-green, very fine grain, friable, soft.
- 8134 - 8138 No description.
- 8138 - 8144 Shale, dark gold-brown/reddish-brown with some 10-20% light gray/gray-green, moderately firm.
- 8144 - 8148 Sandstone, clear/white, very fine/fine grained, slightly calcareous, some siltstone, light gray/gray-brown, very soft, some with faint gold fluorescence, no cut, no show.
- 8148 - 8158 Shale as above.
- GR/TGM
- 8158 - 8160 Sandstone, clear/white, vf/fgr, slightly calcareous few pieces with brown visual oil stain, no cut, trace siltstone, medium/dark brown, friable.
- 8160 - 8188 Shale, predominantly dark gold-brown/reddish-brown with trace shale, medium gray, slight trace gray-green shale with thin streaks sandstone clear/white, vfg, friable, slightly calcareous cement.
- 8188 - 8194 Shale a/a, becoming silty, with some dark brown oil, gummy, very faint greenish-yellow fluorescence, no cut in sample.
- 8194 - 8212 Shale, predominantly medium yellow-brown/dark gold-brown, with streaks becoming silty, trace siltstone, light/medium gray, soft, trace dark brown gummy oil globs.
- 8212 - 8214 Shale, siltstone, and sandstone as above with dark brown gummy oil globs breaking out of mud, trace sandstone clear with slight brown stain, dull gold fluorescence and slow, weak streaming cut, very short duration.

- 8214 - 8242 Shale, yellow/gold-brown/reddish-brown with approximately 50% of shale being medium gray/greenish-gray with thin streaks siltstone, light gray/dirty white, slightly calcareous.
- 8242 - 8244 Sandstone, dark brown, very fine grained, shaley, no fluorescence, no cut.
- 8244 - 8256 Shale, predominantly dark gold-brown, some silty in part, some (\approx 20%) shale, medium gray/gray-green, soft, trace limestone, dark brown-gray, finely crystalline, dense, slightly argillaceous.
- 8256 - 8262 Sandstone, clear/white, very fine grain, calcareous, friable, some with light brown stain, no fluorescence, very slight faint cut.
- 8262 - 8288 Shale, yellow/gold-brown, soft, with silty streaks, and slightly arenaceous, thin streaks siltstone, light gray/dirty white, moderately firm.
- Top GR/Z 8288
- 8288 - 8304 Siltstone medium gray/gray-brown, soft to slightly firm, with streak of shale a/a, increase in dark brown, gummy, free oil over shaker. Sample partially contaminated by free oil in mud.
- 8304 - 8312 Shale a/a w/thin siltstone streak.
- 8312 - 8318 Sandstone, clear/white, very fine grain, friable, with some fine-grain sized imbedded slightly calcareous, abundant unconsolidated sand grains, subangular, no show.
- 8318 - 8332 Siltstone, tan, soft, grading to very fine-grained sandstone, some slightly gypsiferous, no show.
- 8332 - 8340 Shale, medium/dark gold-brown/reddish-brown, some silty in part with thin sandstone streak, clear/white/light greenish-gray, very fine grain, calcareous, friable.
- 8340 - 8348 Sandstone, clear/white/yellowish-brown, vf/fg, slightly calcareous, with abundant unconsolidated sand grains, fine grained, angular to subrounded. No show.
- 8348 - 8360 Shale a/a with thin streaks siltstone a/a.
- 8360 - 8363 Sandstone, clear/white, vf/fg, slightly calcareous, friable, no show.
- 8363 - 8378 Shale, medium/dark gold-brown to light/medium gray/gray-green, some silty streaks with traces siltstone, light gray/brown, soft.
- 8378 - 8382 Sandstone a/a, increase dark brown, gummy free oil over shaker contaminating sample.
- 8382 - 8396 Shale, dark gold-brown, some slightly silty with thin streaks sandstone clear/white, vf/fg, slightly calcareous, with some medium-sized grains, poorly sorted.

- 8396 - 8406 Sandstone, clear/white/dirty white, very fine grain, with occasional fine grain, with very pale gold fluorescence with very slow pale yellow streaming cut. Increase dark brown, gummy, free oil breaking out of mud. Few scattered fine to medium sand grains with very fine oil stains. 50-60% unconsolidated sand grains.
- 8406 - 8424 Shale, brown/reddish-brown/gray-green with thin streaks sandstone clear, very fine grain to dirty white siltstone, slightly calcareous, with abundant loose sand grain.
- 8424 - 8438 Sandstone (60-70%) clear/white, vfg, subrounded, slightly calcareous, to dirty white, silt size, with trace very slow, very faint, soaking, residual cut. Small amounts of free, dark brown oil "globes" breaking out of drilling mud.
- 8438 - 8440 Shale, brown/reddish brown/light gray, some slightly silty.
- 8440 - 8446 Sandstone (60-70%), clear/light red, very friable, vfg, with some fine/medium, loose sand grains, no fluorescence, very weak, slow, soaking cut.
- 8446 - 8450 Shale streak a/a.
- 8450 - 8456 Sandstone, (60-70%), clear/white, very fine grain, slightly calcareous, friable, abundant loose grains, some fine to medium size, subangular with slight trace very slow yellow cut from grains with slight pinpoint stain. Occasional dark brown, gummy free oil in sample.
- 8456 - 8472 Shale, gold brown/red-brown/medium gray/light greenish-gray, slightly silty, with thin sandstone streaks a/a.
- 8472 - 8478 Sandstone, clear/white, vfg, with abundant loose grains with thin streak of shale a/a.
- 8478 - 8498 Shale, a/a, with thin streaks sandstone, clear/white vfg with few fine grains, moderately sorted/dirty white siltstone, no fluorescence, no cut.
- 8498 - 8510 Sandstone, clear/white, very fine grain, no show, with shale streaks, predominantly dark reddish brown.
- 8510 - 8528 Shale, predominantly brown/reddish-brown with some varicolored with greenish-gray, streaks becoming slightly silty.
- 8528 - 8534 Sandstone, clear/white, very fine grain, slightly calcareous, with abundant unconsolidated sandgrains, vf/fine/medium size, subangular to subrounded, medium grains, frosted, some red, translucent, slight trace (<1%) with light brown stain, no fluorescence, no cut.
- 8534 - 8540 Shale, a/a.
- 8540 - 8548 Sandstone, clear/white, vfg, very friable, abundant loose sand grains with thin streak shale predominantly dark gold-brown.

8548 - 8562 Shale, dark gold-brown/reddish brown with thin sandstone streak.

Top GR/Y 8562

- 8562 - 8568 Sandstone, clear/white, very fine grain, slight calcareous, trace slight brown stain with dull yellow fluorescence, slight trace very slow, faint residual cut. 61 units gas.
- 8568 - 8574 Shale, predominantly dark gold-brown/reddish-brown.
- 8574 - 8584 Shale, a/a, thin interbedded siltstone, dirty white/light gray, soft.
- 8584 - 8588 Sandstone, medium yellow-brown/brown, vf/fg, poorly sorted, no show.
- 8588 - 8596 Shale, predominantly dark gold-brown/reddish-brown, with thin streak sandstone, yellow-brown a/a.
- 8596 - 8600 Sandstone, clear/translucent, vf/fg, moderately sorted, trace pinpoint black stain with very slow streaming pale yellow cut. 86 units gas.
- 8600 - 8628 Shale, predominantly dark brown/reddish brown/light greenish gray shale, silty in part, thin interbedded sandstone, clear/white a/a.
- 8628 - 8650 Shale, a/a, with thin sandstone streaks with large amounts of black gummy, tarry oil across shaker due to 2 hr. rig down time due to rig repair.
- 8650 - 8686 Shale, predominantly dark reddish-brown/gold-brown/medium gray, some varicolored, soft, very finely disseminated mica, some slightly silty, interbedded with streaks of sandstone, clear, unconsolidated, fine-grained, subangular with trace, medium grains, well rounded, frosted, no fluorescence, no cut, decrease free dark brown, gummy oil breaking out of mud.
- 8686 - 8708 Shale, dark red-brown, with increase in gray-green shale, some slightly silty, very thin interbedded siltstone, dirty white, very slightly calcareous, soft, slightly s & p, and sandstone, clear/white vf/fg, some slightly calcareous, trace white earthy material with scattered black staining.
- 8708 - 8716 Sandstone, clear/white, vf/fg, abundant loose grains, subangular/more rounded as size increases to medium grain size with trace siltstone, light brown, possible oil staining, some with faint yellow fluorescence, slow bright yellow streaming cut, slight increase free dark brown, gummy oil, trace pyrite.
- 8716 - 8730 Shale, predominantly dark red-brown, thin interbedded sandstone, clear/white as above, slight increase in free dark brown, gummy oil in sample caught after trip.
- 8730 - 8740 Very poor sample caught after trip and reaming to bottom, nearly powder.

- 8740 - 8772 Shale, predominantly dark red-brown/gold-brown with medium gray shale, some varicolored with thin interbedded sandstone, clear, vfg loose grains, trace siltstone, dirty white soft, trace tar sand, black, no fluorescence, no cut.
- 8772 - 8776 Sandstone, clear/white, vfg, subangular, unconsolidated.
- 8776 - 8786 Shale, medium red-brown/medium gray-green, some silty in part, some varicolored, occasional medium sandgrain, frosted, rounded.
- 8786 - 8802 Sandstone, clear/white/light red, vfg, unconsolidated, occasional fine grain, angular with thin interbedded shale a/a, trace dark brown gummy free oil.

Top GR/Trona 1 8802

- 8802 - 8818 Sandstone, clear/white/light red, vfg, unconsolidated with streaks shale, light/medium green/gray very soft, with trace siltstone, light brown.
- 8818 - 8834 Shale, dark red-brown/grayish-green with thin streak sandstone, clear/white, vfg, unconsolidated trace white, earthy material.
- 8834 - 8838 Sandstone, clear/white, vfg, unconsolidated, occasional fine grain size with specks of free oil, dark brown gummy, no fluorescence, but good quick streaming yellowish-green cut from oil specks, trace limestone tan, very thin platy, with bright yellow mineral fluorescence.
- 8838 - 8846 Shale, red-brown with increase grayish-green shale, some slightly silty.
- 8846 - 8858 Sandstone a/a with thin streak of shale. Specks of dark brown, gummy, free oil throughout sample.
- 8858 - 8872 Shale, predominantly medium/dark red-brown, some gold-brown with streaks shale gray, some varicolored, trace greenish-gray shale, slightly silty, soft, with fine-medium sand grains imbedded, thin interbedded sandstone, clear, vfg, trace quartzitic sandstone, slight trace quartzitic sandstone, light red, fine grain, slightly calcareous, poor/none porosity.
- 8872 - 8892 Shale, greenish gray, slightly silty in part, some medium bluish-gray shale, moderately firm to soft with loose sand grain, clear/light red, some frosted, fine-medium grained, subangular to sub-rounded, trace limestone tan, very thin platy laminations, with bright mineral fluorescence, no show.
- 8892 - 8900 Shale, dark red-brown to medium greenish-gray, soft, some varicolored, subwaxy, trace white, earthy/chalky calcareous material.
- 8900 - 8910 Shale, a/a, increase greenish-gray shale, subblocky, subwaxy in part, moderately firm with some imbedded fine sand grains, some red-brown/gold brown shale becoming slightly silty, brittle.

- 8910 - 8934 Shale, medium red-brown with increase light gray/green-gray, slightly brittle, with thin streaks sandstone, clear/slightly frosted, vfg, with some fine-medium sized loose grains, subangular to subrounded, trace limestone, tan, thin laminations.
- 8934 - 8942 Sandstone, clear/light red, translucent, vf/fg, friable, with some light brown oil stain and some dark pinpoint stain with dull gold fluorescence with slow, streaming bright yellowish-white cut. 122 gas units abundant loose fine-medium sand grain, subangular.
- 8942 - 8970 Shale, predominantly dark red-brown, thin streaks become arenaceous with fine/medium, subangular imbedded sand grains and shale, light/medium gray to greenish gray, subwaxy, some slightly silty with thin streaks sandstone, clear/white, vf/fg, slightly calcareous, grading to siltstone, dirty white, very soft.
- 8970 - 8976 Sandstone, clear/white/light brown, vf/fg, abundant fine/medium loose sand grain, no visual porosity, no show.
- 8976 - 8986 Shale, predominantly dark gold-brown/red-brown with some medium gray-green shale, some silty in part, trace siltstone, light gray/lavender, very soft.
- 8986 - 8994 Shale a/a, becoming silty, slightly brittle.
- 8994 - 8998 Shale a/a.
- 8998 - 9000 Sandstone, clear/white, vf/fg, slightly calcareous, some slightly quartzitic, trace consolidated sand with pinpoint brown stain, very faint yellow fluorescence, very faint residual cut.
- 9000 - 9008 Shale predominantly medium red-brown with light gold-brown shale, some slightly silty in part.
- 9008 - 9012 Sandstone, clear/light gray, vf/fg, none to very poor visual porosity, trace with light brown pinpoint oil stain, very weak dull yellow fluorescence, very faint slow cut, slight increase dark brown free oil specks in sample.
- 9012 - 9014 Shale, a/a.
- 9014 - 9028 Shale, dark gold-brown/red-brown to light green/medium grayish-green, silty, some arenaceous with fine/medium sand grains embedded and breaking out, few loose fine/medium sand grains. No show.
- 9028 - 9050 Shale, predominantly dark red-brown, some silty in part, with associated dark gray shale with thin streaks light/medium green/gray-green shale, occasionally silty.
- 9050 - 9080 Shale predominantly dark gold-brown/red-brown, some arenaceous, with thin 1'-3' interbedded sandstone, clear/white, fine grain, unconsolidated, no visual staining or show. Gas increase @ 9060 of 192 units.

- 9080 - 9088 Sandstone, clear, vf/fg, unconsolidated, angular to subrounded grains, occasional medium grain, with trace siltstone, dirty white/light gray, some consolidated, very soft, with embedded fine/medium sand grains, no show. Very slight drilling mud surges @ 9083, circulate through gas buster and died in 2 min.
- 9088 - 9120 Shale, predominantly dark gold-brown/red-brown with some (\approx 10%) light gray/gray-green shale, some varicolored red-brown-gray, streaks become silty, arenaceous with some thin interbedded sandstone and siltstone, no show.
- 9120 - 9128 Shale, a/a, becoming more silty, increase maroon/gray varicolored shale, some arenaceous, abundant free oil specks in samples, trace asphaltic sand.
- 9128 - 9140 Sandstone, clear/milky white/light red, fine/medium grain unconsolidated, angular to subrounded, some frosted, trace with oil stain, no fluorescence, with very slight residual cut with thin interbeds of shale a/a. Gas increase of 80 units @ 9136.
- 9140 - 9156 Shale, predominantly dark red-brown/gold-brown, with streaks becoming very arenaceous, fine/medium embedded sand grains.
- 9156 - 9196 Shale, predominantly dark reddish-brown, thin streaks medium gray/greenish-gray shale with very thin streaks sandstone clear/light red, fine grain, unconsolidated and siltstone, dirty white/light gray with embedded fine sand grain, very soft, friable. Gas increase of 70 units @ 9186, no visual show.
- 9196 - 9210 Sandstone, clear/white, vf/fg, subangular to subrounded, occasional medium size grain with shale a/a interbeds, increase green shale, slightly silty. Gas increase of 106 units @ 9196-9198.
- 9210 - 9214 Sandstone, clear/light red, fine grains, unconsolidated, occasional medium grain, angular to subrounded, trace with faint yellow fluorescence, very slow, slight residual cut. Gas increase of 314 units high methane content.
- 9214 - 9228 Shale, dark red-brown/light greenish-gray, subwaxy, some varicolored with silty streaks, some siltstone, dirty white, very soft.
- 9228 - 9230 Sandstone, clear/light red a/a with slight increase free dark brown oil in sample. Gas increase of 68 units.
- 9230 - 9264 Shale, predominantly dark gold/reddish-brown/light greenish-gray, with thin interbedded sandstone and siltstone a/a.
- 9264 - 9268 Sandstone, clear/light red, fine grain, some medium grain unconsolidated, trace with very light brown staining, no fluorescence, very faint residual cut. Gas increase of 68 units.
- 9268 - 9274 Shale a/a.

- 9274 - 9278 Sandstone, clear, vf/fg, slightly calcareous to light red, fine grain, predominantly unconsolidated, with scattered faint yellow fluorescence, some very slow, faint streaming white-yellow cut, trace siltstone. Gas increase of 259 units.
- 9278 - 9284 Shale a/a, slight increase light greenish-gray shale.
- 9284 - 9288 Sandstone, clear/light red a/a with faint yellow fluorescence, very slow, faint white-yellow cut. Slight increase in free dark brown/reddish-brown oil in sample, 180 units gas increase.
- 9288 - 9298 Shale, a/a, with increase of free oil in samples, some asphaltic tar.
- 9298 - 9302 Sandstone, clear/light red, some frosted, vf/fg, angular to subrounded, unconsolidated, trace brown oil stain, very faint yellow fluorescence, very slow, very faint cut. Gas increase of 150 units of high methane content.
- 9302 - 9326 Shale, predominantly medium red-brown/50% light green/greenish-gray, subwaxy with thin streaks siltstone, dirty white/light gray with light greenish cast, very soft.
- 9326 - 9332 Sandstone, clear/white, very fine grain grading to siltstone, dirty white/light gray with trace light brown staining throughout sample, faint yellow fluorescence with quick bright yellow cut followed by slow streaming cut. Gas increase of 65 units.
- 9332 - 9362 Shale, a/a with higher percent light green/greenish-gray, slightly silty in part, with thin streaks sandstone, clear/white, unconsolidated, fine/medium grain, trace light brown stain, faint, slow cut.
- 9362 - 9364 Sandstone, clear/light red-brown, fg, unconsolidated, trace siltstone, light brown or tan with very faint yellow-gold fluorescence, some with very slow streaming cut of very short duration.
- 9364 - 9388 Shale, predominantly medium yellowish/reddish-brown with high percent (40% of shale) medium gray/light greenish-gray, subwaxy to silty in part with thin streaks sandstone, clear/light red-brown, fg, unconsolidated with trace of very faint, weak cuts, trace siltstone, dirty white, very soft.
- 9388 - 9394 Sandstone, a/a, with siltstone, light/medium brown, possible light oil stain, very soft, with very faint dull gold fluorescence, very faint slow streaming cut of very short duration. Very quick 40 unit gas increase @ 9388.
- 9394 - 9408 Shale, dark red-brown, some light gray-green, silty in part.
- 9408 - 9414 Siltstone, dirty white, very soft, slight s & P, grading to vfg sandstone, clear/white, some fine grains embedded, with very faint dull yellow fluorescence with very slow weak cut. 50 unit gas increase.

- 9414 - 9460 Shale, dark red-brown/gold-brown, some slightly arenaceous, with some (10%) medium gray/greenish-gray, subwaxy to slightly silty, some varicolored, with thin interbeds of siltstone, dirty white/white, very soft and sandstone, clear/light red, fine grained, unconsolidated, angular/subrounded with specks of brown/red-brown oil in sample.
- 9460 - 9464 Sandstone, clear/light red, unconsolidated, fine/medium grain, subangular, with scattered light brown oil stain, very faint yellow fluorescence, trace fair, slow streaming cut. 64 unit gas increase. Slight increase dark brown oil in mud and sample.
- 9464 - 9472 Shale, white/light gray-green, silty, predominantly red-brown with some siltstone, dirty white, very soft.
- 9472 - 9488 Sandstone, (50%) clear/white, partially consolidated, slightly calcareous, abundant unconsolidated, clear/light red, angular/subrounded with interbedded shale, red-brown and siltstone, white/dirty white, very soft, sample very contaminated by free oil in mud, trace dark brown oil stain with faint spotty yellow fluorescence, very slow pale yellow soaking cut.
- 9488 - 9496 Sandstone, (60%) clear/light red, unconsolidated, fine/medium grain, slight trace with finely spotted light brown stain and fair/good streaming cut, slight increase of free oil in mud with 76 unit increase.
- 9496 - 9528 Shale, predominantly dark red-brown, some slightly arenaceous, with approximately 10% medium greenish-gray/light gray, some slightly silty, some varicolored with thin streaks sandstone and siltstone.
- 9528 - 9532 Sandstone, clear/white, partially consolidated, predominantly unconsolidated fg sand, angular to subrounded, with faint yellow fluorescence, trace very slow pale yellow streaming cut.
- 9532 - 9544 Shale, predominantly dark red-brown/some medium greenish-gray, slightly silty in part with thin interbedded sandstone.
- 9544 - 9554 Sandstone (40-50%) clear/light red to brown, fine/medium grain, angular to subrounded, with trace siltstone, light lavender, very soft, some slightly argillaceous, with some dark free oil stain in part, some light brown stain in sample, difficult to evaluate stain in siltstone due to contamination of free oil, but appears to be good. Gas increase of 123 units, high methane content.
- 9554 - 9594 Shale, predominantly dark red-brown, slightly silty in part, some slight arenaceous with some (10%) light greenish-gray and white/light gray shale with thin interbedded sandstone, clear/light red, vfg/medium grain a/a.
- 9594 - 9598 Sandstone, clear/light red, unconsolidated fine grains with some medium grains, angular to subrounded, trace of visual brown oil stain, very faint yellow fluorescence with very slow faint or pale streaming cut. Gas increase of 65 units.

- 9598 - 9610 Shale, predominantly dark red-brown/medium yellow-brown, slightly silty in part, with trace medium gray-green shale, some very slightly arenaceous.
- 9610 - 9630 Sandstone (50%), clear, vf/fg, subangular, unconsolidated to light red, fine/medium grain, trace of pinpoint brown stain, very faint dull yellow fluorescence, very slow pale yellow streaming cut of short duration. Gas increase of 92 units.
- 9630 - 9652 Shale, predominantly medium/dark red-brown with thin streaks becoming arenaceous, unconsolidated, fine/medium grains, subrounded clear/light red, apparently breaking out of red brown shale. Thin streak sandstone, clear, very fine to medium grain unconsolidated, angular to subrounded, trace siltstone, medium brown, very soft, very slightly calcareous.
- 9652 - 9658 Sandstone, clear/frosted/light red, vf/medium grained, occasional consolidated, very poorly sorted conglomeratic appearance, with trace siltstone, dirty white/light gray, with visual dark brown oil stain, very soft, none to very faint yellow fluorescence, slow pale yellow cut. Gas increase of 60 units.
- 9658 - 9668 Shale, dark red-brown/gold-brown, slightly silty with sandstone streaks, trace siltstone, 10% medium gray shale.
- 9668 - 9678 Sandstone, a/a with thin shale streak, trace fine/medium loose grains, subangular to subrounded with good visual light brown oil stain, none to very faint yellow fluorescence with quick, but very short, very faint yellow cut. May be contamination.
- 9678 - 9682 Shale, predominantly red-brown/dark gold-brown with 10-20% light/medium gray to greenish-gray shale.
- 9682 - 9694 Sandstone, clear/light red to reddish brown, unconsolidated, vf/fg, angular/subrounded with occasional medium grain, clear/frosted, trace scattered light brown stain with very pale yellow fluorescence, slow fair streaming cut of short duration, with thin streaks shale, predominantly dark red-brown with increase light bluish-gray/greenish-gray shale with trace white shale, trace siltstone medium brown, very soft. Gas increase of 220 units.
- 9694 - 9712 Shale a/a with increase light greenish-gray shale, silty with some (10%) shale, very light gray/off-white, slightly arenaceous with trace chert, light gray-green. Large influx of thin, platy calcium scale from drill pipe (Precipitates from mud and forms scale on pipe), thin streak of sandstone, clear/white, vfg, calcareous cement, trace of consolidated sandstone.
- 9712 - 9716 Sandstone, clear/white vf/fg, some consolidated, predominantly unconsolidated, poor/fair sorting, grading to siltstone, light brown/lavender, very clean, very soft. No show in sample.
- 9716 - 9728 Shale, medium red brown with 50% of shale light/medium gray/greenish-gray, some slightly silty, some very finely arenaceous.

- 9728 - 9734 Sandstone, clear/white, vfg, some slightly frosted, subangular to subrounded, predominantly unconsolidated with very minute pieces consolidated, vfg, quartzitic, no show with some (10%) siltstone, light brown, very soft, with dull gold fluorescence, no cut.
- 9734 - 9750 Shale, light/medium yellow-brown, slightly silty to white/light gray/greenish-gray (\approx 20%) silty with siltstone, light brown, very soft, with thin streaks sandstone, clear/white, vfg, unconsolidated, no show.
- 9750 - 9760 Sandstone, clear/white, slightly quartzitic in part to vfg unconsolidated sand grains and siltstone, light brown, very soft, trace siltstone with very fine pinpoint oil stain, spotty faint white fluorescence, very faint or pale residual cut, shale becoming lighter in color, trace medium/dark shale. Slight gas increase of 65 units, but higher than usual C_4 content. (See mud log)
- 9760 - 9782 Shale, light gray/gray-brown to light greenish-gray slightly silty lighter color of gold-brown shale with interbedded siltstone, light brown, very soft, none to very weak, slow soaking cut and thin streaks sandstone, clear/white, vfg with occasional fine grain angular/subrounded, unconsolidated.
- 9782 - 9802 Sandstone, clear/white, vfg, unconsolidated, some appears quartzitic with siltstone (\approx 20%) light brown, very soft, with trace very fine pinpoint dark stain, very dull whitish fluorescence with very weak slow cut. Slight gas increase of 55 units, but slower than usual gas decrease after peak at 9786.

GR/Mahogany Bench 9800

- 9802 - 9818 Shale, light yellow-brown with light gray/greenish gray/white shale (40-50% of shale) some slightly silty with thin interbeds of siltstone, light brown, very soft, trace of pinpoint dark stain, may be oil stain, none/very faint fluorescence, very faint residual cut and sandstone, clear, vfg, very small pieces consolidated, predominantly loose grains.
- 9818 - 9824 Siltstone, light brown, calcareous, very soft, possible dark oil stain, very faint to no pinpoint fluorescence, with some sandstone clear, vfg, unconsolidated, occasional very fine grain with very faint weak cut.
- 9824 - 9836 Shale, light red-brown/yellow-brown, silty in part with some (10%) shale light/medium gray to greenish-gray, trace (\approx 1-2%) dark gray shale with streaks siltstone, light brown, very soft.
- 9836 - 9844 Sandstone, clear/white, vf/fg, unconsolidated, occasional quartzitic pieces with scattered dark pinpoint stain with none to very faint fluorescence, very weak residual or no cut, with streaks of siltstone, light brown, very soft.
- 9844 - 9856 Shale, light/medium brown to red-brown, some arenaceous, some varicolored ($<$ 5%) with light greenish-gray subwaxy shale (10-20%) and some (\approx 10%) medium/dark gray/gray brown shale, silty in part with thin interbeds of siltstone, light brown/white, very soft.

- 9856 - 9888 Sandstone, clear/some slightly frosted, vfg, unconsolidated, some fine grain, subangular/subrounded, calcareous, some with even pale yellow fluorescence, trace spotty light brown stain, fair, quick streaming cut, tailing off to very faint residual stain, with some siltstone light brown, very soft, calcareous, trace with dark brown possible oil stain, no cut. Slight gas increase of 60 units with higher C_4 content.
- 9888 - 9892 Sandstone, clear/white, vfg, unconsolidated, angular/subangular, some fine grain, with very faint brown stain on scattered sand grain ($\approx 20\%$) with very faint dull yellow fluorescence, with fair, quick pale yellow streaming cut of short duration (3-5 seconds) leaving none to very faint residual stain. Gas increase of 48 units.
- 9892 - 9900 Shale, white/light greenish-gray, some subwaxy to slightly silty to light/medium red-brown to gold-brown, some slightly silty to slightly arenaceous with trace ($\approx 5\%$) shale medium/dark gray with thin streak sandstone clear/white, vfg, unconsolidated, some with very poor show.

DAILY DRILLING MUD REPORT

Pennzoil #11-13A4 Reay

Date	Depth	Wt In/Out	Vis In/Out	PV	YP	Gel	WL	FC	Sol %	Oil %	Sand %	pH	Chloride mg/L	Calcium mg/L	Mud Cost Daily	Cum
11-24-90	0	8.6	34	4	8	3/5	-	3	2	0	-	11.5	500	360	620	620
11-25-90	925	8.4	29	1	1	0/1	-	-	.5	0	-	9.0	300	160	176	796
11-26-90	1601	8.4	28	1	1	0	-	-	.5	0	tr	8.0	500	360	2706	3502
11-27-90	2363	8.4/8.5	29/30	1	1	0/1	-	-	.5	0	tr	8.8	400	160	1646	5148
11-28-90	2882	8.6+/8.7+	29/30	2	1	0/1	-	-	2.4	0	.25	9.5	400	240	1082	6230
11-29-90	2994	8.5/8.6	29/30	2	1	0/1	-	1	1.3	0	tr	8.5	300	40	586	cost corr. 5457
11-30-90	2994	8.4	28	1	0	0/0	-	-	.5	0	tr	8	300	40	80	5537
12- 1-90	2994	8.4	28	1	0	0/0	-	-	.5	0	tr	8	300	40	134	5668
12- 2-90	3653	8.3/8.4	27/28	0	0	0/1	-	-	0	0	-	11	400	880	936	6604
12- 3-90	3988	8.3/8.4	27/27	0	0	0/0	-	-	0	0	-	11	300	820	476	7080
12- 4-90	3988	8.3	27	0	0	0/0	-	-	0	0	-	10.5	300	480	200	7280
12- 5-90	4475	8.3/8.4+	27/28	0	0	0/0	-	-	0	0	-	11	300	520	377	7657
12- 6-90	4936	8.4/8.5	28/29	1	0	0/0	-	-	.5	0	tr	10.5	400	200	673	8330
12- 7-90	5297	8.4/8.5	28/29	0	0	0/0	-	-	.5	0	-	9.5	400	100	331	8661
12- 8-90	5825	8.4/8.5	28/29	0	0	0/0	-	-	.5	0	tr	10.5	400	320	543	9204
12- 9-90	6341	8.4/8.5	28/29	1	0	0/0	-	-	.5	0	tr	11	400	420	728	9932
12-10-90	6766	8.3/8.4+	27/29	0	0	0/0	-	-	0	0	-	11	400	480	1037	10969

12-11-90	7001	8.4/8.5	28/29	1	0	0/0	-	-	.5	0	-	10	450	400	2641	w/mix 20510
12-12-90	7281	8.4/8.5+	29/29	2	0	0/0	-	-	.5	0	tr	11	450	420	1121	21631
12-13-90	7554	8.4/8.5	28/28	1	0	0/0	-	-	.5	0	tr	9.5	350	80	341	21972
12-14-90	7750	8.4/8.5	28/29	1	0	0/0	-	-	.5	0	tr	10	350	60	790	22762
12-15-90	8039	8.4/8.5	28/29	0	0	0/0	-	-	.5	0	tr	10.5	300	120	280	23042
12-16-90	8186	8.5/8.5	29/29	0	0	0/0	-	-	1.3	0	.25	11.5	300	200	1023	24065
12-17-90	8423	8.4/8.4	28/29	0	0	0/0	-	-	.5	0	-	10	300	80	150	24215
12-18-90	8636	8.33/8.4	27/28	0	0	0/0	-	-	0	0	-	10.5	500	120	307	24522
12-19-90	8737	8.33/8.4	27/28	0	0	0/0	-	-	0	0	-	10.5	500	100	365	24887
12-20-90	9000	8.33/8.4	27/28	0	0	0/0	-	-	0	0	-	11	600	200	545	25432
12-21-90	9263	8.33/8.4	27/28	0	0	0/0	-	-	0	0	-	10.5	600	40	186	25618
12-22-90	9512	8.3/8.4	27/28	0	0	0/0	-	-	0	0	-	10.5	600	40	-	-
12-23-90	9562	8.33	27	0	0	0/0	-	-	0	0	-	9.0	550	tr	589	26413
12-24-90	9644	8.4/8.5	29/29	1	1	0/1	-	1	0	0	-	9.0	550	tr	119	26532
12-25-90	9900TD (Corr)	8.4/8.4	31/29	2	2	0/1	-	-	.5	0	-	9.5	600	40	-	-
12-26-90	9915	8.5	33	3	3	0/1	24	2	1.3	0	-	9.5	650	tr	606	32046
12-27-90	9915	8.6+ Logging	35	7	7	3/9	14.4	2	2.4	0	-	10	700	20	1691	33737
12-28-90	Circulate and condition hole to run 5½" production casing.															

BIT RECORD

Well: Pennzoil #11-13A4 Reay State: Utah

Bit No.	Size	Make	Type	Jets	Depth Cut	Footage	Hours	Condition		
								T	B	G
1	11"	HTC	R-1	3-16	926	850	13.5	4	6	I
2	11"	HTC	OSC-16J	3-16	1299	373	7	8	8	I
3	11"	Sec.	S3J	3-18	1669	370	9.5	8	8	I
4	11"	Sec.	Rerun S86F	3-18	2974	1305	45	4	6	I
			Rerun R-1							
5	7 7/8"	HTC	J-2	2-12	3653	659	15.5	6	4	I
6	7 7/8"	HTC	J-225	3-13	5025	1372	54	4	8	1/16
7	7 7/8"	STC	F3	1 blank 2-11	6862	1837	84.5	4	3	I
				1 blank 2-11						
8	7 7/8"	HTC	ATJ-33	2-11	7605	743	59.5			
9	7 7/8"	HTC	ATJ-22S	1 blank 2-11	8186	581	48.5	6	4	1/16
				1 blank 2-11						
10	7 7/8"	Reed	HP53A	11-11-B	8736	550	60	8	8	1/2
11	7 7/8"	STC	F45	11-12-B	9562	826	71.5	8	8	1/2
12	7 7/8"	Reed	HP-62A	11-12-B1k	9915	353	33.5	6	8	3/8
13	7 7/8"	Reed	HP62A	3-16	9915	0	Wash & ream	2	2	I

DEVIATION SURVEY

<u>DEPTH</u>	<u>DEVIATION</u>	<u>KIND</u>
153'	1/4 ^o	WL
422'	1/2 ^o	WL
746'	1/2 ^o	WL
1048'	1 ^o	WL
1299'	1 1/2 ^o	Drop
1584'	1 1/2 ^o	WL
1863'	1 1/4 ^o	WL
2164'	1 3/4 ^o	WL
2445'	1 1/2 ^o	WL
2719'	1 1/2 ^o	WL
2994'	3/4 ^o	Drop (surface csg)
3480'	1 1/2 ^o	WL
3653'	1 1/2 ^o	Drop
4156'	1 1/2 ^o	WL
4613'	2 ^o	WL
5025'	1 3/4 ^o	Drop
5500'	1 1/2 ^o	WL
6000'	1 3/4 ^o	WL
6400'	2 ^o	WL
6862'	2 1/2 ^o	Drop
7018'	2 1/4 ^o	WL
7149'	2 ^o	WL
7425'	2 ^o	WL
7605'	-	Drop
8088'	1 1/2 ^o	WL
8186'	1 1/4 ^o	Drop

<u>DEPTH</u>	<u>DEVIATION</u>	<u>KIND</u>
8655'	2 °	WL
8939'	2 1/4 °	WL
9424'	1 1/4 °	WL
9900'	1 1/4 °	WL

State UT

Conf

DOUBLE JACK TESTING & SERVICES, INC.

PHONE (801) 781-8448

B.O.P. TEST REPORT

O.P. TEST PERFORMED ON (DATE) 11-30-90

LEASING COMPANY Pennzoil

WELL NAME & NUMBER Reay 11-13A4 43-012-31291 du

SECTION 13

TOWNSHIP 15

RANGE 4W

COUNTY & STATE Duchesne UT

DILLING CONTRACTOR Grace

LEASING COMPANY SITE REPRESENTATIVE _____

TEST TOOL PUSHER Slim Wilkenson

TESTED OUT OF Vernal UT

TESTIFIED PRIOR TO TEST State

Copies of this test report sent to: Pennzoil

State

Grace

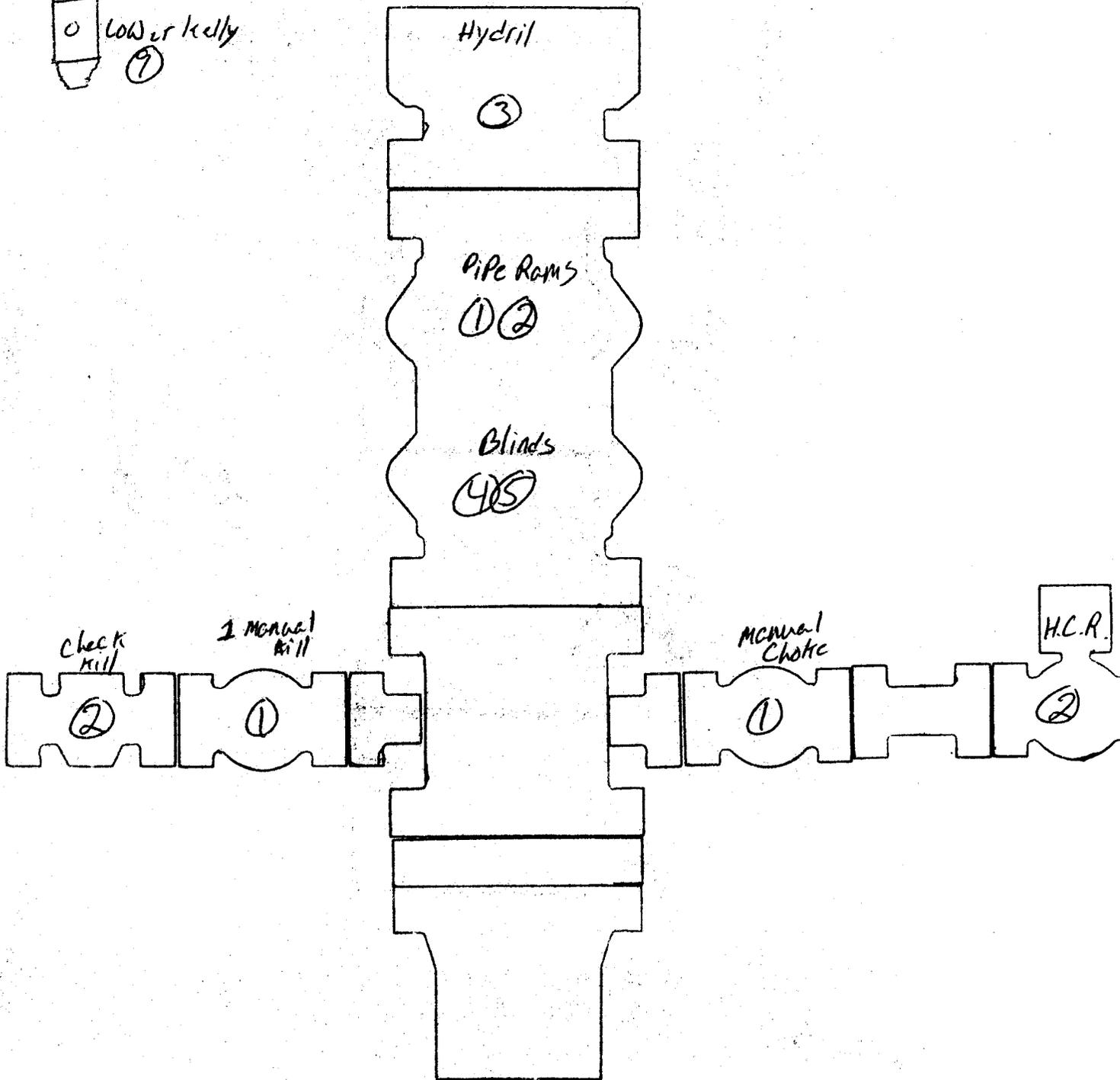
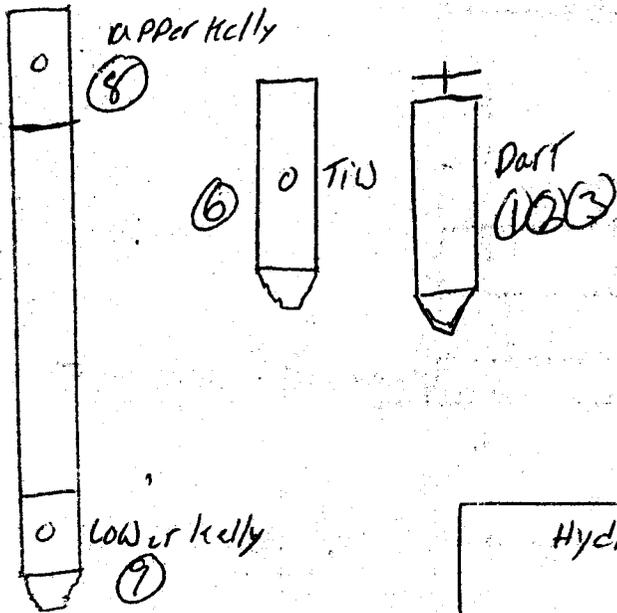
ORIGINAL CHART & TEST REPORT ON FILE AT: Vernal Office

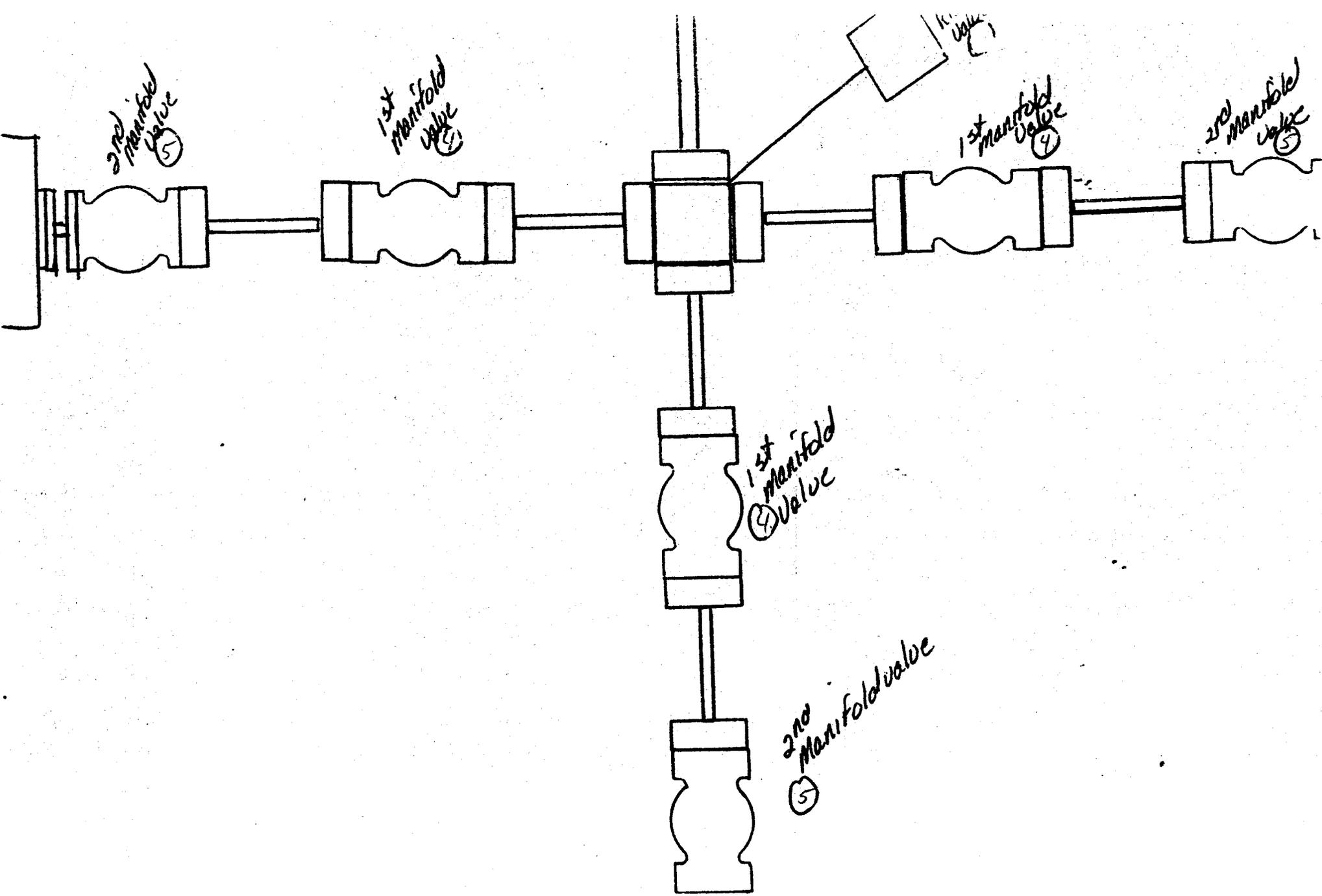
TESTED BY: DOUBLE JACK TESTING & SERVICES, INC.
1225 E HWY 40 #4
P O BOX 828
VERNAL, UTAH 84078

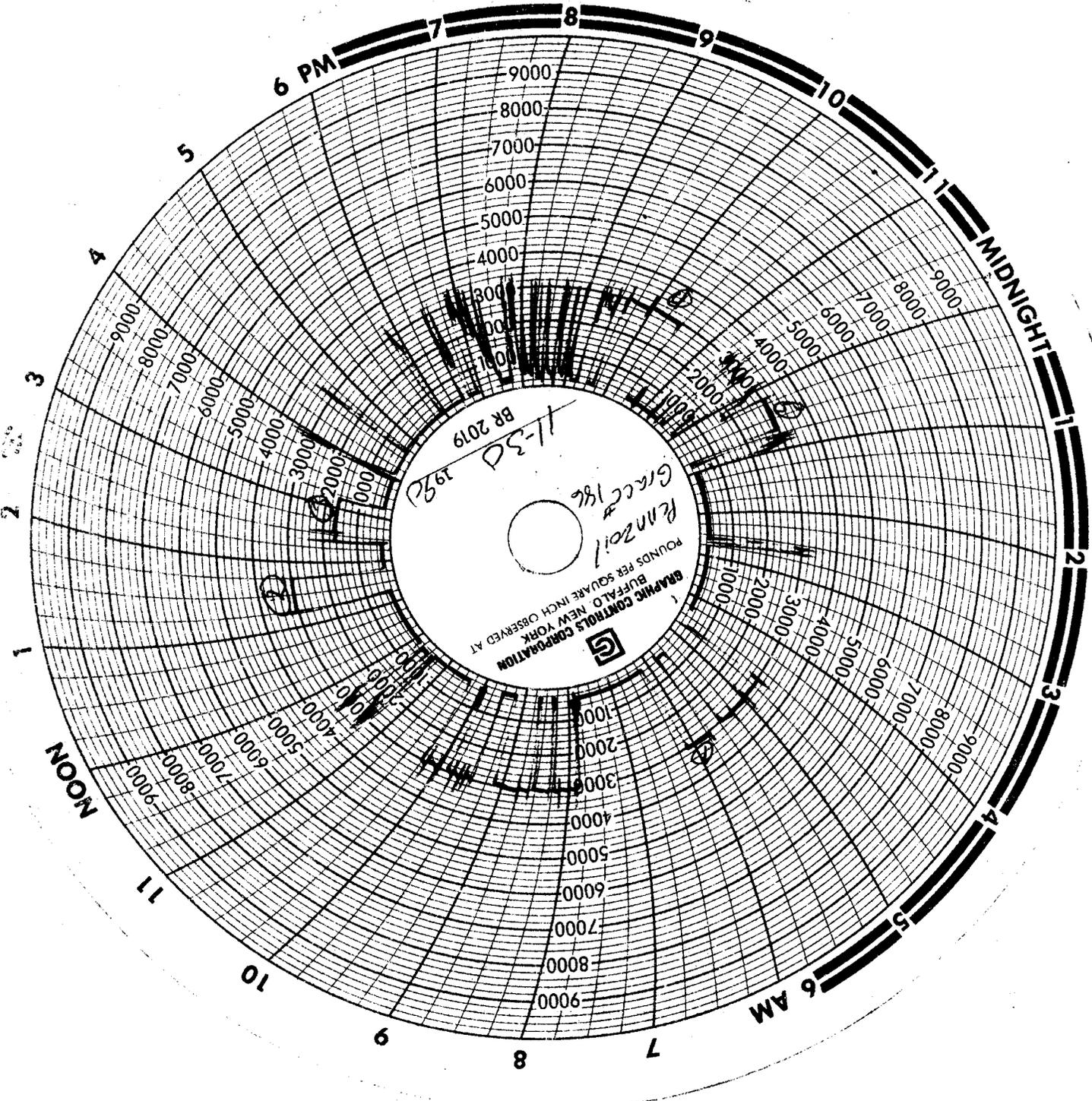
RECEIVED

MAR 11 1991

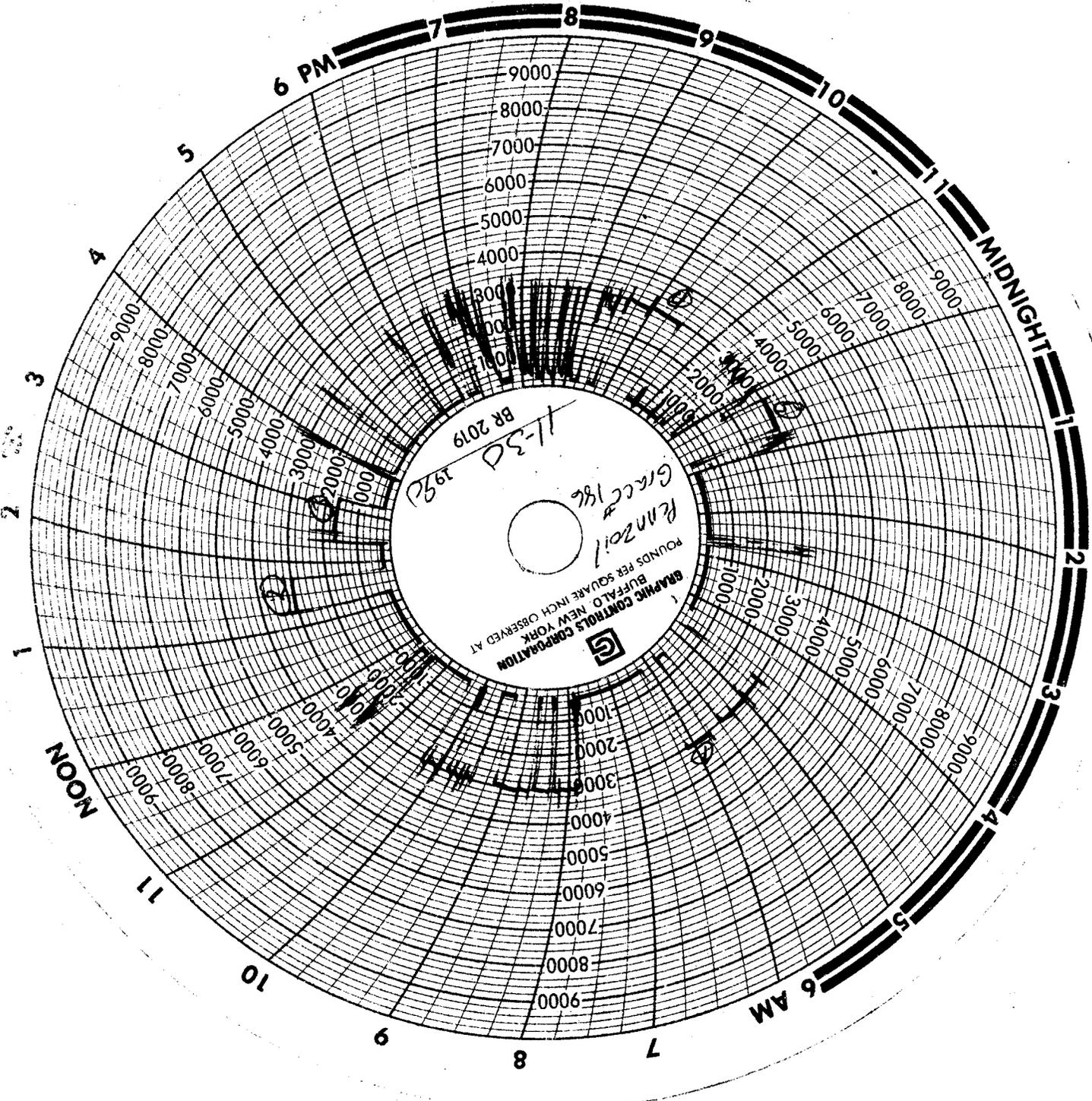
DIVISION OF OIL GAS & MINING



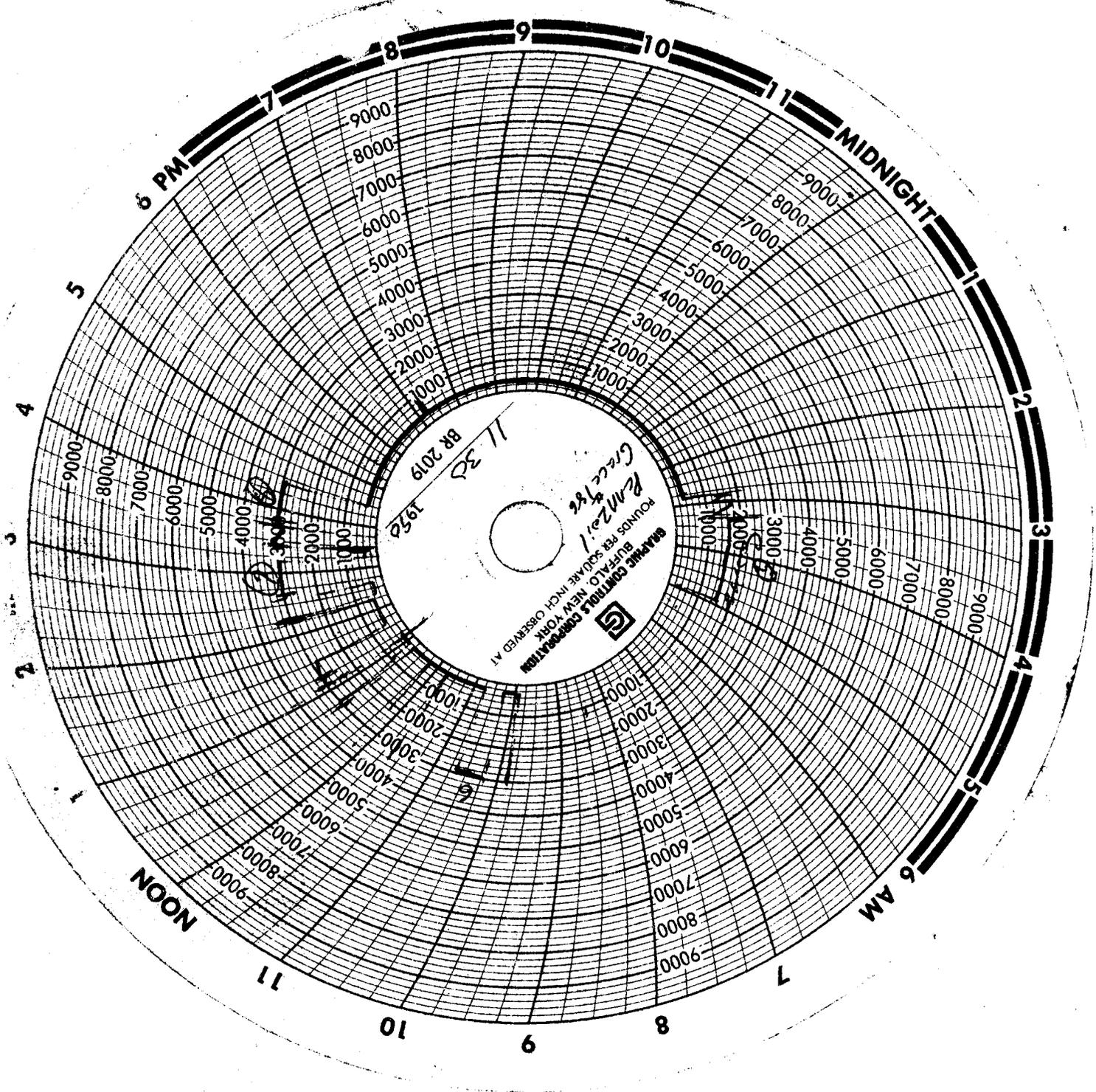




BR 2019
1-50
1982
Rennzell
Gracie 186
POUNDS PER SQUARE INCH OBSERVED AT
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK



BR 2019
1-50
1982
Rennzell
Gracie 186
POUNDS PER SQUARE INCH OBSERVED AT
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK



11 30 1952
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Greece 186
Buffalo Controls & Construction
BUFFALO NEW YORK
ROUNDS PER SQUARE INCH OBSERVED AT



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

CONFIDENTIAL

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 checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		6. Lease Designation and Serial Number
2. Name of Operator Pennzoil Exploration and Production Company		7. Indian Allottee or Tribe Name
3. Address of Operator P.O. Box 2967, Houston, Texas 77252-2967		8. Unit or Communitization Agreement
4. Telephone Number (713) 546-4000		9. Well Name and Number Reay 11-13A4
5. Location of Well Footage : 660' FNL and 1191' FWL County : Duchesne QQ, Sec. T., R., M. : Section 13, T1S-R4W State : UTAH		10. API Well Number 43-013-31291-00
11. Field and Pool, or Wildcat Altamont		

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment	<input type="checkbox"/> Abandonment *
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Casing Repair
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Conversion to Injection
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Fracture Treat
<input type="checkbox"/> Multiple Completion	<input checked="" type="checkbox"/> Other <u>completion</u>
<input type="checkbox"/> Other _____	
<input type="checkbox"/> New Construction	<input type="checkbox"/> New Construction
<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Water Shut-Off	

Approximate Date Work Will Start 1/12/91

Date of Work Completion 2/26/91

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.)

- Perforated 9605-9822' and acidized with 7500 gallons 15% HCl.
- Set CIBP at 9580' and perf'd 9206-9550'. Acidized with 3400 gallons 15% HCl.
- Set CIBP at 9150' and perf'd 8440-9082'. Acidized with 6700 gallons 15% HCl.
- Set CIBP at 7676' and perf'd 7676-8080'. Acidized with 13,000 gallons 15% HCl.
- Set CIBP at 7840' and perf'd 7658-7784'. Acidized with 8000 gallons 15% HCl.
- Left well shut-in pending evaluation.

RECEIVED
MAR 18 1991

**DIVISION OF
OIL GAS & MINING**

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

Name & Signature Ralph C. Williams R.A. Williams title Supervising Engineer Date _____

(State Use Only)

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

DATE: 3-25-91
J.W. Matthews

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

CONFIDENTIAL

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		6. Lease Designation and Serial Number
		7. Indian Allottee or Tribe Name
		8. Unit or Communitization Agreement
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)	9. Well Name and Number Reay 11-13A4	
2. Name of Operator Pennzoil Exploration and Production Company	10. API Well Number 43-013-31291-00	
3. Address of Operator P.O. Box 2967, Houston, Texas 77252-2967	4. Telephone Number (713) 546-4000	11. Field and Pool, or Wildcat Bluebell-Altamont
5. Location of Well		
Footage : 660' FNL and 1191' FWL		County : Duchesne
QQ, Sec. T., R., M. : Section 13, T1S-R4W		State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<p style="text-align: center;">NOTICE OF INTENT (Submit in Duplicate)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start <u>1/12/91</u></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 _____		<p style="text-align: center;">SUBSEQUENT REPORT (Submit Original Form Only)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other <u>Completion Attempt</u></td> <td></td> </tr> </table> <p>Date of Work Completion <u>3/26/91</u></p> <p><small>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.</small></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 checked="" type="checkbox"/> Other <u>Completion Attempt</u>	
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<input checked="" type="checkbox"/> Other <u>Completion Attempt</u>																											

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.)

1. Perforated 9605-9822' and acidized with 7500 gallons 15% HCl.
2. Set CIBP at 9580' and perforated 9206-9550'. Acidized with 3400 gallons 15% HCl.
3. Set CIBP at 9150' and perforated 8440-9082'. Acidized with 6700 gallons 15% HCl.
4. Set CIBP at 8300' and perforated 7676-8080'. Acidized with 13,000 gallons 15% HCl.
5. Set CIBP at 7840' and perforated 7658-7784'. Acidized with 8000 gallons 15% HCl.
6. Milled out CIBP at 7840' and pushed junk down to CIBP at 8300'.
7. Swab tested perms 7850-7896' using packer and RBP. Pulled packer and RBP.
8. WIH with 242 jts 2-7/8" tubing open ended and left well shut-in pending evaluation.

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

Name & Signature R.A. Williams Title Supervising Engineer Date 1-12-91

(State Use Only)

RECEIVED
SEP 09 1991

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

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Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well
 Oil Well Gas Well Other (specify)

9. Well Name and Number
Reay 11-13A4

2. Name of Operator
Pennzoil Exploration and Production Company

10. API Well Number
43-013-31291-00

3. Address of Operator
P.O. Box 2967, Houston, Texas 77252-2967

4. Telephone Number
713-546-4000

11. Field and Pool, or Wildcat
Bluebell/Altamont

5. Location of Well
Footage : 660' FNL and 1191' NWL
QQ, Sec. T., R., M. : Section 13, T1S-R4W

County : Duchesne
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 Perform permeability tests.
- 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 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 has been shut-in since an unsuccessful completion attempt ended in March, 1991. In order to optimize stimulation techniques for future wells in the area, permeability tests should be conducted in this well.

APPROVED BY THE STATE

12-13-91
JAN Matthews

RECEIVED

DEC 04 1991

DIVISION OF
OIL, GAS & MINING

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

Name & Signature

Ralph A. Williams

R. A. Williams

Title Supervising Engineer

Date 11-25-91

(State Use Only)

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS
2. CDW	✓	5-SP ✓
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

X Merger

The operator of the well(s) listed below has changed, effective: **04/1/2000**

FROM: (Old Operator):
PENNZOIL COMPANY
Address: P. O .BOX 290
NEOLA, UT 84053
Phone: 1-(435)-353-4121
Account No. N0705

TO: (New Operator):
DEVON ENERGY EXPL & PROD CO LP
Address: 20 NORTH BROADWAY STE 1500
OKLAHOMA CITY, OK 73102-8260
Phone: 1-(405)-235-3611
Account No. N1275

CA No.

Unit:

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
REAY 11-13A4	43-013-31291	11136	13-01S-04W	FEE	OW	TA
FRESTON 2-7B1 CA (9686)	43-013-31341	11338	07-02S-01W	FEE	OW	P

OPERATOR CHANGES DOCUMENTATION

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 04/20/2000
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 04/20/2000
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 10/12/2000
- Is the new operator registered in the State of Utah: YES Business Number: 4549132-0143
- If **NO**, the operator was contacted on: _____
- 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: 02/16/2000
- Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A

9. **Underground Injection Control ("UIC") Prog:** 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: 11/22/2000
- 2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 11/22/2000
- 3. Bond information entered in RBDMS on: 11/22/2000
- 4. Fee wells attached to bond in RBDMS on: 11/22/2000

STATE BOND VERIFICATION:

- 1. State well(s) covered by Bond No.: N/A

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

- 1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: 71S100753026-70
- 2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: _____
- 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: 11/26/2000

FILMING:

- 1. All attachments to this form have been **MICROFILMED** on: 2.26.01

FILING:

- 1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filed in each well file on: _____

COMMENTS:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

RECEIVED
FEB 17 2000
DIVISION OF
OIL, GAS AND MINING

In Reply Refer To:
3106
U-0575A et al
(UT-932)

FEB 16 2000

NOTICE

Devon Energy Production Company L.P. : Oil and Gas
20 North Broadway, Suite 1500 : U-0575A et al
Oklahoma City, Oklahoma 73102-8260 :

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of Devon Energy Corporation (Nevada) and PennzEnergy Exploration and Production Company, L.L.C. into Devon Energy Production Company, L.P. with that company being the surviving entity.

The oil and gas lease files listed on the enclosed exhibit have been noted as to the merger. The exhibit was compiled from your list of leases, and a list of leases obtained from our computer system. We have not attempted to identify leases where the entities are the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the merger by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

PennzEnergy Company assigned 100 percent of the record title interest, in the following leases on the list submitted by Devon Energy Production Company L.P., to Barrett Resources Corporation (Barrett) effective January 1, 2000.

U-0143511	U-4377	UTU-67943
U-0143512	U-4378	

Subsequently, Barrett assigned 100 percent of the record title interest to Coastal Oil & Gas Corporation effective February 1, 2000. A copy of this notice is being placed in these files to cover any overriding royalty interest that would be held by the surviving entity.

Lease U-0115614A is held 100 percent by Flying J Oil & Gas. PennzEnergy Company holds 100 percent of the record title interest in lease U-3575. No record title assignment assigning the interest to PennzEnergy Exploration and Production Company, L.L.C. has been filed in this office. A copy of this notice will be placed in the lease files to cover any overriding royalty interest that would be held by the surviving entity.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: As per the attached spreadsheet.

LEASE NUMBER: _____

and hereby designates

NAME: Devon Energy Production Company, L.P.

ADDRESS: 20 North Broadway, Suite 1500, Oklahoma City, OK 73102-8260

as his agent /operator with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable, and identify each applicable oil and gas well by name and API number. Attach additional pages as needed.)

See attached spreadsheet.

Note: Please use April 1, 2000 as the starting date for production reporting purposes.

RECEIVED

APR 20 2000

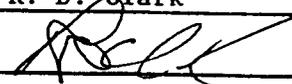
DIVISION OF
OIL, GAS AND MINING

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: January 1, 2000

BY: (Name) R. D. Clark
(Signature) 
(Title) Vice President
(Phone) 405-235-3611

OF: (Company) PennzEnergy Exploration and Production Company, L.L.C.
(Address) 20 North Broadway, Suite 1500
Oklahoma City, OK 73102-8260

Leases U-61343, UTU-64532, UTU-66485 and UTU-75200 have expired and are closed on the records of this office.

An assumption rider for BLM Bond No. CO1104 has been filed in the Colorado State Office.

/s/ Robert Lopez

Robert Lopez
Chief, Branch of
Minerals Adjudication

Enclosure
Exhibit

cc: Vernal Field Office (w/encl.)
Moab Field Office (w/encl.)
MMS, Reference Data Branch, MS3130, P.O. Box 5860, Denver, CO 80217 (w/encl.)
State of Utah, DOGM, Attn: Kristen Risbeck (Ste. 1210), Box 145801, SLC, UT (w/encl.)
Teresa Thompson (UT-931) (w/encl.)
Irene Anderson (UT-932) (w/encl.)
LaVerne Steah (UT-942) (w/encl.)

Exhibit of Leases

U-0575A
U-01188B
U-016654
U-0115614A
U-0115615
U-0126825
U-0141454

U-0141459
U-0143511
U-0143512
U-0144868A
U-3099
U-3575
UTU-74888

U-4377
U-4378
U-16131
U-31262
U-44426
UTU-67943

Communitization Agreements

U-58774
U-58799
U-58830
U-58834

U-58835
U-58839
U-58844
U-58854

U-60827
U-60831
U-68998



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To:
3100
U-4377
UTU-66485
(UT-932)

MAR 26 1999

NOTICE

PennzEnergy Exploration and Production L.L.C. : Oil and Gas
P.O. Box 2967 :
Houston, TX 77252-2967 :

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of Pennzoil Exploration and Production Company into PennzEnergy Exploration and Production L.L.C. with PennzEnergy Exploration and Production L.L.C. being the surviving entity.

For our purposes, the merger is recognized effective December 28, 1998, (Secretary of State's approval date).

Oil and gas lease files U-4377 and UTU-66485 have been noted as to the merger. The lease file numbers were obtained from a list of leases drawn from our Automated Land and Mineral Record System (ALMRS). We have not abstracted the lease files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

By recognition of the merger, the principal/obligor is automatically changed by operation of law from Pennzoil Exploration and Production Company to PennzEnergy Exploration and Production L.L.C. on Bond No. 8023 29 91 (BLM Bond No. NM0043). The principal/obligor is also automatically changed from Pennzoil Exploration and Production Company to PennzEnergy Exploration and Production L.L.C. on Bond No. 8134-90-99 (BLM Bond No. NM2142).

IRENE J. ANDERSON

Irene J. Anderson
Acting Group Leader,
Minerals Adjudication Group

cc: Moab Field Office
Vernal Field Office
MMS, Reference Data Branch, MS 3130, Box 5860, Denver, CO 80217
State of Utah, DOGM, Attn: Kristen Risbeck (Ste. 1210), Box 145801, SLC, UT 84114-5801
Teresa Thompson (UT-931)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To:
3100
U-0115615 et al
(UT-932)

MAR 26 1999

NOTICE

PennzEnergy Company : Oil and Gas
P.O. Box 2967 :
Houston, TX 77252-2967 :

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of PennzEnergy Company into Pennzoil Company with PennzEnergy Company being the surviving entity.

For our purposes, the merger is recognized effective December 30, 1998, (Secretary of State's approval date).

The oil and gas lease files and communitization agreement computer files identified on the enclosed exhibit have been noted as to the merger. The exhibit was compiled from a list of leases obtained from our Automated Land and Mineral Record System (ALMRS). We have not abstracted the lease files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

By recognition of the merger, the principal/obligor is automatically changed by operation of law from Pennzoil Company to PennzEnergy Company on Bond No. 8134-90-99 (BLM Bond No. NM2142).

IRENE J. ANDERSON

Irene J. Anderson
Acting Group Leader,
Minerals Adjudication Group

Enclosure
Exhibit

cc: Moab Field Office
Vernal Field Office
MMS, Reference Data Branch, MS 3130, Box 5860, Denver, CO 80217
State of Utah, DOGM, Attn: Kristen Risbeck (Ste. 1210), Box 145801, SLC, UT 84114-5801
Teresa Thompson (UT-931)

Devon Energy Production Company, L.P.

Certificate of Merger

FILED

DEC 30 1999

**OKLAHOMA SECRETARY
OF STATE**

TO: The Oklahoma Secretary of State
101 State Capitol
Oklahoma City, Oklahoma 73105

Devon Energy Production Company, L.P., a limited partnership organized under the laws of the State of Oklahoma, for the purpose of filing a Certificate of Merger pursuant to the provisions of 54 O.S. § 310.1, does hereby execute the following Certificate of Merger:

1. The name and jurisdiction of formation or organization of each of a domestic limited partnership, a foreign corporation and a foreign limited liability company which are to merge are:

<u>Name of Organization</u>	<u>Type of Organization</u>	<u>Jurisdiction of Formation</u>
Devon Energy Production Company, L.P.	Limited Partnership	Oklahoma
Devon Energy Corporation (Nevada)	Corporation	Nevada
PennzEnergy Exploration and Production Company, L.L.C.	Limited Liability Company	Delaware

2. An Agreement of Merger has been approved and executed by the limited partnership, the corporation and the limited liability company which are to merge.

3. The name of the surviving or resulting limited partnership is:

Devon Energy Production Company, L.P.

4. The merger shall be effective upon the filing of this Certificate of Merger with the Secretary of State of Oklahoma.

5. The Agreement of Merger is on file at the place of business of the surviving limited partnership at 1500 Mid-America Tower, 20 North Broadway, Oklahoma City, Oklahoma 73102.

6. A copy of the Agreement of Merger shall be furnished by the surviving or resulting limited partnership, upon request and without cost, to any partner of any limited partnership or any person holding an interest in any other business entity which is to merge.

RECEIVED

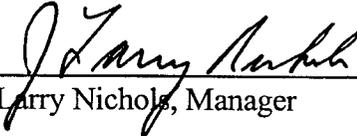
MAR 13 2000

**DIVISION OF
OIL, GAS AND MINING**

DATED as of the 30th day of December, 1999.

Devon Energy Management Company, L.L.C.
General Partner

By: _____


J. Larry Nichols, Manager

RECEIVED

MAR 13 2000

DIVISION OF
OIL, GAS AND MINING

LD 635381-001

OFFICE OF THE SECRETARY OF STATE



CERTIFICATE OF MERGER

WHEREAS,

DEVON ENERGY PRODUCTION COMPANY, L.P.

a limited partnership organized under the laws of the State of OKLAHOMA, has filed in the office of the Secretary of State duly authenticated evidence of a merger whereby said limited partnership is the survivor, as provided by the laws of the State of Oklahoma.

NOW THEREFORE, I, the undersigned Secretary of State of Oklahoma, by virtue of the powers vested in me by law, do hereby issue this Certificate evidencing such merger.

IN TESTIMONY WHEREOF, I hereunto set my hand and cause to be affixed the Great Seal of the State of Oklahoma.

Filed in the City of Oklahoma City this 30TH day of DECEMBER, 1999.



Mae Hunter
Secretary of State

By: *Burt L. ...*

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APR 20 2000

DEVON ENERGY PRODUCTION COMPANY, L.P.**UTAH PROPERTIES**DIVISION OF
OIL, GAS AND MINING

	<u>API NO.</u>	<u>WELL NAME & NO.</u>	<u>LOCATION</u>	<u>COUNTY</u>	<u>FIELD NAME</u>	<u>LEASE NO. / AGREEMENT NO.</u>
1	4301330005	CLYDE MURRAY 1-2A2	SESW-2-1S-2W	DUCHESNE	BLUEBELL	
2	4301330006	STATE 1-10A2	SWNE-10-1S-2W	DUCHESNE	BLUEBELL	
3	4301330009	VIRGIL MECHAM 1-11A2	W/2NE-11-1S-2W	DUCHESNE	BLUEBELL	96107
4	4301330011	VICTOR C BROWN 1-4A2	NESE-4-1S-2W	DUCHESNE	BLUEBELL	
5	4301330017	DOUG BROWN 1-4A2	SENW-4-1S-2W	DUCHESNE	BLUEBELL	
3	4301330030	CHASEL 1-18A1	NWNE-18-1S-1W	DUCHESNE	BLUEBELL	9628
7	4301330031	OLSEN 1-12A2	SWNE-12-1S-2W	DUCHESNE	BLUEBELL	UTU77363
8	4301330035	BOREN 1-14A2	NWSW-14-1S-2W	DUCHESNE	BLUEBELL	NW498
9	4301330042	UTE 2-12A3	NESW-12-1S-3W	DUCHESNE	BLUEBELL	1420H621576 Terminated 8-3-93
10	4301330086	L BOREN U 3-15A2	NESW-15-1S-2W	DUCHESNE	BLUEBELL	
11	4301330099	LAMICQ URRUTY U 3-17A2	NWSE-17-1S-2W	DUCHESNE	BLUEBELL	
12	4301330107	L BOREN U 5-22A2	SWNE-22-1S-2W	DUCHESNE	BLUEBELL	
13	4301330115	L BOREN U 4-23A2	SENW-23-1S-2W	DUCHESNE	BLUEBELL	
14	4301330119	VERL JOHNSON 1-27A2	SWNE-27-1S-2W	DUCHESNE	BLUEBELL	
15	4301330120	TOMLINSON FED 1-25A2	SENW-25-1S-2W	DUCHESNE	BLUEBELL	NW537
16	4301330123	L BOREN U 6-16A2	NWSE-16-1S-2W	DUCHESNE	BLUEBELL	
17	4301330125	UTE 3-18A2	NESW-18-1S-2W	DUCHESNE	BLUEBELL	1420H621750
18	4301330130	WOODWARD 1-21A2	SWNE-21-1S-2W	DUCHESNE	BLUEBELL	NW590
3	4301330133	LAMICQ 1-20A2	SWNE-20-1S-2W	DUCHESNE	BLUEBELL	
20	4301330136	UTE 1-6B3	NWNE-6-2S-3W	DUCHESNE	ALTAMONT	14204621778 / 9651
21	4301330142	SMITH UTE 1-18C5	NWNE-18-3S-5W	DUCHESNE	ALTAMONT	1420H622392
22	4301330143	MAUREL TAYLOR FEE 1-36A2	NESW-36-1S-2W	DUCHESNE	BLUEBELL	
23	4301330200	L ROBERTSON ST 1-1B2	NESW-1-2S-2W	DUCHESNE	BLUEBELL	
24	4301330212	LAMICQ UTE 1-5B2	NWSE-5-2S-2W	DUCHESNE	BLUEBELL	1420H621806 / 9683
25	4301330236	CAMPBELL UTE ST 1-7B1	SENW-7-2S-1W	DUCHESNE	BLUEBELL	1420H621970 / 9686
26	4301330245	SMITH ALBERT 1-8C5	SENE-8-3S-5W	DUCHESNE	ALTAMONT	
27	4301330294	FRESTON ST 1-8B1	NESW-8-2S-1W	DUCHESNE	BLUEBELL	

RECEIVED

APR 20 2000

DEVON ENERGY PRODUCTION COMPANY, L.P.**UTAH PROPERTIES**DIVISION OF
OIL, GAS AND MINING

	<u>API NO.</u>	<u>WELL NAME & NO.</u>	<u>LOCATION</u>	<u>COUNTY</u>	<u>FIELD NAME</u>	<u>LEASE NO. / AGREEMENT NO.</u>
28	4301330297	GEORGE MURRAY 1-16B1	SEW-16-2S-1W	DUCHESNE	BLUEBELL	
29	4301330307	UTE ALLOTTED 1-36Z2	NWSE-36-1N-2W	DUCHESNE	BLUEBELL	1420H621676 / 9C124
30	4301330347	LAMICQ URRUTY U 4-5A2	SEW-5-1S-2W	DUCHESNE	BLUEBELL	
31	4301330359	H G COLTHARP 1-15B1	SEW-15-2S-1W	DUCHESNE	BLUEBELL	
32	4301330369	STATE 3-18A1	NEW-18-1S-1W	DUCHESNE	BLUEBELL	9C142
3	4301330564	D L GALLOWAY 1-14B2	SWNE-14-2S-2W	DUCHESNE	BLUEBELL	
34	4301330807	MARGUERITE 2-8B2	SEW-8-2S-2W	DUCHESNE	BLUEBELL	96102
35	4301330809	LAMICQ 2-6B1	NWSE-6-2S-1W	DUCHESNE	BLUEBELL	
36	4301330821	DILLMAN 2-28A2	SWNE-28-1S-2W	DUCHESNE	BLUEBELL	
37	4301330903	HAMBLIN 2-26A2	SWNE-26-1S-2W	DUCHESNE	BLUEBELL	
38	4301330912	RACHEL JENSEN 2-16C5	NENW-16-3S-5W	DUCHESNE	ALTAMONT	
39	4301330921	ROBERTSON UTE 2-2B2	NENE-2-2S-2W	DUCHESNE	BLUEBELL	9682
40	4301330975	JOHN 2-3B2	NWNE-3-2S-2W	DUCHESNE	BLUEBELL	
41	4301330995	LAMICQ ROBERTSON STATE 2-1B2	SWNE-1-2S-2W	DUCHESNE	BLUEBELL	
42	4301331009	UTE 2-7A2	CNE-7-1S-2W	DUCHESNE	BLUEBELL	1420462811
43	4301331147	HATCH 2-3B1	SEW-3-2S-1W	DUCHESNE	BLUEBELL	
44	4301331151	NORLING 2-9B1	SWSW-9-2S-1W	DUCHESNE	BLUEBELL	
45	4301331184	SHAW 2-27A2	SESW-27-1S-2W	DUCHESNE	BLUEBELL	
46	4301331190	LAMICQ URRUTY 4-17A2	SEW-17-1S-2W	DUCHESNE	BLUEBELL	
47	4301331191	LAMICQ 2-20A2	SESE-20-1S-2W	DUCHESNE	BLUEBELL	
48	4301331192	BOREN 3-11A2	SWSW-11-1S-2W	DUCHESNE	BLUEBELL	96107
49	4301331203	FRESTON 2-8B1	SWNE-8-2S-1W	DUCHESNE	BLUEBELL	
50	4301331215	WISSE 3-35A2	SWSW-35-1S-2W	DUCHESNE	BLUEBELL	
51	4301331231	MECCA 2-8A2	SESE-8-1S-2W	DUCHESNE	BLUEBELL	
52	4301331232	MARK 2-25A2	NWNE-25-1S-2W	DUCHESNE	BLUEBELL	NW537
53	4301331233	DUNCAN 4-12A2	SWNW-12-1S-2W	DUCHESNE	BLUEBELL	UTU77363
54	4301331235	SWYKES 2-21A2	NWNW-21-1S-2W	DUCHESNE	BLUEBELL	NW590

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APR 20 2000

DEVON ENERGY PRODUCTION COMPANY, L.P.**UTAH PROPERTIES**DIVISION OF
OIL, GAS AND MINING

	<u>API NO.</u>	<u>WELL NAME & NO.</u>	<u>LOCATION</u>	<u>COUNTY</u>	<u>FIELD NAME</u>	<u>LEASE NO. / AGREEMENT NO.</u>
55	4301331238	SHERMAN 2-12B2	SWSE-12-2S-2W	DUCHESNE	BLUEBELL	9690
56	4301331245	MILES 7-7B3	SWNW-7-2S-3W	DUCHESNE	ALTAMONT	9675
57	4301331276	DUNCAN 4-2A2	NESE-2-1S-2W	DUCHESNE	BLUEBELL	
58	4301331278	HAMBLIN 3-9A2	SENE-9-1S-2W	DUCHESNE	BLUEBELL	
59	4301331285	DUNCAN 3-7A1	NWNW-7-1S-1W	DUCHESNE	BLUEBELL	
60	4301331286	BAR F 2-5B1	SWSE-5-2S-1W	DUCHESNE	BLUEBELL	
61	4301331299	CORNABY 2-14A2	NENE-14-1S-2W	DUCHESNE	BLUEBELL	NW498
62	4301331317	MITCHELL 2-4B1	SESW-4-2S-1W	DUCHESNE	BLUEBELL	9662
63	4301331321	SMITH 2-9C5	SWSW-9-3S-5W	DUCHESNE	ALTAMONT	
64	4301331322	LORANGER 2-24A2	N/2NE-24-1S-2W	DUCHESNE	BLUEBELL	
65	4301331325	UTE 2-6B3	SWSW-6-2S-3W	DUCHESNE	ALTAMONT	1420H621858 / 9651
66	4301331326	MCCELPRANG 2-30A1	SWSW-30-1S-1W	DUCHESNE	BLUEBELL	NW625
67	4301331327	SMITH 2-7C5	NESW-7-3S-5W	DUCHESNE	ALTAMONT	1420H622389
68	4301331328	SMITH 2-18C5	SWSE-18-3S-5W	DUCHESNE	ALTAMONT	1420H622392
69	4301331329	UTE 2-24A3	SWNW-24-1S-3W	DUCHESNE	BLUEBELL	1420H621761
70	4301331330	UTE 5-19A2	NWNW-19-1S-2W	DUCHESNE	BLUEBELL	1420H621751
71	4301331332	EDWARDS 3-10B1	SWSW-10-2S-1W	DUCHESNE	BLUEBELL	
72	4301331333	SUNDANCE 4-15A2	SWNE-15-1S-2W	DUCHESNE	BLUEBELL	
73	4301331334	LORANGER 6-22A2	SWSW-22-1S-2W	DUCHESNE	BLUEBELL	
74	4301331335	COX 2-36A2	NWNW-36-1S-2W	DUCHESNE	BLUEBELL	
75	4301331338	SMITH 2-6C5	SESW-6-3S-5W	DUCHESNE	ALTAMONT	1420H622388 / UTU70553
76	4301331341	FRESTON 2-7B1	SENE-7-2S-1W	DUCHESNE	BLUEBELL	1420H621970 / 9686
77	4301331356	PEARSON 2-11B2	SENE-11-2S-2W	DUCHESNE	BLUEBELL	
78	4301331378	CHAPMAN 2-4B2	SWNW-4-2S-2W	DUCHESNE	BLUEBELL	
79	4301331390	LAMB 2-16A2	NENE-16-1S-2W	DUCHESNE	BLUEBELL	
80	4301331393	LABRUM 2-23A2	SWSW-23-1S-2W	DUCHESNE	BLUEBELL	
81	4301331820	POWELL 2-16B1	NENE-16-2S-1W	DUCHESNE	BLUEBELL	

DEVON ENERGY PRODUCTION COMPANY, L.P.
UTAH PROPERTIES

	<u>API NO.</u>	<u>WELL NAME & NO.</u>	<u>LOCATION</u>	<u>COUNTY</u>	<u>FIELD NAME</u>	<u>LEASE NO. / AGREEMENT NO.</u>
82	4304730164	ROBERTSON UTE ST 1-12B1	SWNE-12-2S-1W	UNITAH	BLUEBELL	96101
83	4304730176	MAY UTE FEDERAL 1-13B1	NWSE-13-2S-1W	UNITAH	BLUEBELL	NW673
84	4304731981	COOK 1-26B1	SWSW-26-2S-1W	UNITAH	BLUEBELL	UTU68998
85	4304732178	CHRISTIANSEN 2-12B1	SWSE-12-2S-1W	UNITAH	BLUEBELL	96101
86	4304732351	BALLARD 2-15B1	SENE-15-2S-1W	UNITAH	BLUEBELL	
87	4304732744	RICH 2-13B1	NWNW-13-2S-1W	UNITAH	BLUEBELL	NW673
88	4301320255	SWD 4-11A2	NWNW-11-1S-2W	DUCHESNE	BLUEBELL	96107
89	4301330021	SWD 1-3A2	SESE-3-1S-2W	DUCHESNE	BLUEBELL	
90	4301330346	SWD 2-28A2	NWSE-28-1S-2W	DUCHESNE	BLUEBELL	
91	4301330367	SWD 2-10B1	NWNW-10-2S-1W	DUCHESNE	BLUEBELL	
92	4301330389	SWD 2-26A2	NESW-26-1S-2W	DUCHESNE	BLUEBELL	
93	4301330388	SWD 2-17C5	SENE-17-3S-5W	DUCHESNE	BLUEBELL	

RECEIVED

APR 20 2000

DIVISION OF
OIL, GAS AND MINING



State of Utah

Department of
Natural Resources

Division of
Oil, Gas & Mining

ROBERT L. MORGAN
Executive Director

LOWELL P. BRAXTON
Division Director

MICHAEL O. LEAVITT
Governor

OLENE S. WALKER
Lieutenant Governor

January 22, 2004

CERTIFIED MAIL #7002 0510 0003 8602 4750

Brandon Pearson
Devon Energy Production Company, L.P.
20 North Broadway
Oklahoma City, OK 73102-8260

Re: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases.

Dear Mr. Pearson:

Devon Energy Production Company, L.P., as of January 2004, has one (1) State Lease Well and thirteen (13) Fee Lease Wells (see attachment A) that are currently in non-compliance for extended shut-in or temporary abandonment status. Wells SI/TA beyond twelve (12) consecutive months requires filing a Sundry Notice (R649-3-36-1). Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (649-3-36-1.3.3). For extended SI/TA consideration the operator shall provide the Utah Division of Oil, Gas & Mining with the following:

1. Reasons for SI/TA of the well (R649-3-36-1.1).
2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

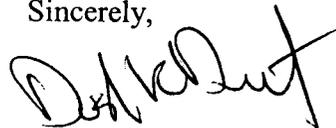
Page 2
January 22, 2004
Brandon Pearson

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and
2. Copy of recent casing pressure test, and
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
4. Fluid level in the wellbore, and
5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,



Dustin K. Doucet
Petroleum Engineer

jc
cc: John Baza
Well File
Sitla

	Well Name	API	Lease Type	Years Inactive
1	State 1-10A2	43-013-30006	State	11 Years 8 Months
1	Robertson Ute 2-2-B2	43-013-30921	Fee	2 Years 0 Months
2	Woodard 1-21A2	43-013-30130	Fee	2 Years 1 Month
3	Rachel Jenson 2-16C5	43-013-30912	Fee	2 Years 2 Months
4	Lamb 2-16A2	43-013-31390	Fee	2 Years 4 Months
5	Ballard 2-15B1	43-047-32351	Fee	2 Years 5 Months
6	Marguerite 2-8B2	43-013-30807	Fee	4 Years 4 Months
7	Olsen U1-12A2	43-013-30031	Fee	4 Years 6 Months
8	Freston ST 1-8B1	43-013-30294	Fee	6 Years 6 Months
9	Duncan 4-12A2	43-013-31233	Fee	6 Years 7 Months
10	Verl Johnson 1-27A2	43-013-30119	Fee	8 years 1 Month
11	Reay 11-13A4	43-013-31291	Fee	9 Years 11 Months
12	Clyde Murray 1-2A2	43-013-30005	Fee	10 Years 7 Months
13	Duncan 3-7A1	43-013-31285	Fee	10 Years 9 Months

Attachment A

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: DEVON ENERGY PRODUCTION COMPANY L.P.		8. WELL NAME and NUMBER: REAY 11-13A4
3. ADDRESS OF OPERATOR: P.O. BOX 290 CITY NEOLA STATE UT ZIP 84053		9. API NUMBER: 4301331291
4. LOCATION OF WELL FOOTAGES AT SURFACE: 660' FNL 1191' FWL		10. FIELD AND POOL, OR WILDCAT: BLUEBELL/WASATCH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 13 1S 4W 6		COUNTY: DUCHESNE
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: June 1, 2004	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" 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.
DEVON ENERGY PLANS TO PLUG AND ABANDON THE WELL PER THE ATTACHED PROCEDURE.

RECEIVED
APR 07 2004
DIV. OF OIL, GAS & MINING

ATTACHMENTS: PROCEDURE AND WELLBORE DIAGRAMS

NAME (PLEASE PRINT) <u>JOHN PULLEY</u>	TITLE <u>SR. OPERATIONS ENGINEER</u>
SIGNATURE <u><i>John Pulley</i></u>	DATE <u>4/6/2004</u>

(This space for State use only)

SENT TO OPERATOR
5-21-04
CAG

(5/2000) *5/19/04* (See Instructions on Reverse Side)
*** See Conditions of Approval (Attached)**

REAY 11-13A4, PLUG AND ABANDON

**REAY 11-13A4
NWNW SECTION 13, T1S, R4W
DUCHESNE COUNTY, UTAH**

OBJECTIVE:

Plug and abandon the Reay 11-13A4.

DISCUSSION:

The Reay 11-13A4 was drilled to test the Upper Green River in the area. The well was shut in after an un-successful completion attempt in March 1991.

WELL DATA:

API No.	43-013-31291		
Property No.	63034-001		
TD:	9915'	PBTD:	9863'
Casing:	14" conductor at 65' 8 5/8" 28# S-80 at 2994' 5 1/2" 17# WC-70 at 9915'		
Bond log:	Top of Cement	5000'	
	5000 to 7650	Fair bond	
	7650 to 9800'	Good bond	
Perforations:	7658-8080	15 int, 213', 295 holes	
	8440-9082	7 int, 67', 268 holes	
	9206-9550	6 int, 34', 136 holes	
	9605-9822	7 int, 76', 304 holes	
CIBPs	8300', 9150' and 9580'		

REAY 11-13A4, PLUG AND ABANDON

WELL HISTORY:

- 01-12-91 MIRU. Run Schlumberger CBL/CET log.
- 01-15-91 Clean out to 9866', test casing to 2000 psi, TOH
- 01-16-91 Perforated 9605-9822', 7 int, 76', 304 holes. TIH, set packer at 9206'.
- 01-19-91 Acidized perforations 9605-9822' with 7500 gals 15% HCL acid with 600 balls. 22 BPM at 6200 psi.
- 01-21-91 Finish swab testing, water with trace oil and gas.
- 01-22-91 Set CIBP at 9580'. Perforate 9206-9299', 6 int, 34', 136 holes. TIH with PPI tool.
- 01-23-91 Acidize in six stages with 3400 gals 15% HCL acid. 1.4 to 5.7 BPM at 780 to 2770 psi. TOH with PPI tool, TIH set packer at 9056'.
- 01-25-91 Finish swab testing, water with 5% oil, very little gas.
- 01-26-91 Set CIBP at 9150', perforate 8440-9082', 7 int, 67', 268 holes. TIH with PPI tool.
- 01-27-91 Acidized perfs in five stages with 6700 gals 15% HCL acid, 5.5 to 7.9 BPM at 2450 to 2950 psi.
- 01-29-91 Finish swabbing, water with trace gas.
- 01-30-91 Set CIBP at 8300', perforated 7676-8080', 12 int, 131', 131 holes. TIH, set packer at 7507'
- 02-01-91 Acidized perforations with 13000 gals 15% HCL acid with 260 balls, 1500 SCF/BBL CO2. 25 BPM at 5600 psi.
- 02-07-91 Pull packer, run packer and plug, set plug at 7920, packer at 7591', swab test perfs 7676-7896'.
- 02-12-91 Pull packer and RBP, TIH, set packer at 7591'. Swab test 7676-8080'.
- 02-15-91 Set CIBP at 7840', perforate 7658-7784', 3 int, 82', 164 holes. TIH, set packer at 7505'.
- 02-18-91 Acidized perforations 7658-7785' with 8000 gals 15% HCL with 320 balls, 26 BPM at 6500 psi.

REAY 11-13A4, PLUG AND ABANDON

- 02-26-91 Pulled packer, TIH with tubing open ended. Nipple up wellhead, Shut in to evaluate.
- 03-18-91 MIRU, drill out CIBP at 7840'. Run packer and plug, set plug at 1923, packer at 7835'. Swab test perfs 7850-7896'.
- 03-25-91 Pull packer, run tubing open ended to 7500'. Nipple up wellhead.
- 03-26-91 Rig down and move out.
- 02-25-04 SITP and SICP 10 psi, 8 5/8" – 5 1/2" annulus zero psi.

PROCEDURE:

1. MIRU, pull test rig anchors prior to moving in.
2. Nipple down wellhead, nipple up BOP, pull tubing. TIH with 4 3/4" mill on tubing to 7600', TOH.
3. TIH with cement retainer on tubing, set retainer at 7550', establish injection rate. Cement squeeze with 80 sks, 70 below retainer, 10 on top. All cement will be Class "G" neat cement with a yield of 1.18CF/SK.
4. Pull up to 5050', spot a 25 sk cement plug from 5050 to 4850. This will put cement across the cement top behind the 5 1/2" casing. POH.
5. Cut the 5 1/2" casing at 3050', 50' below the surface casing shoe. Pull and lay down 5 1/2".
6. TIH open ended with tubing to 3060'. Spot a 75 sk plug across the base of the surface casing and on top of the stub. Pull up and spot a 35 sk plug from 100' to surface.
7. Set a dry hole marker or cut off below ground level.

John Pulley
April 6, 2004

DEVON ENERGY PRODUCTION COMPANY, L.P. WELLBORE SCHEMATIC

Location:

REAY 11-13A4

NWNW SECTION 13, T1S, R4W

Casing Detail:

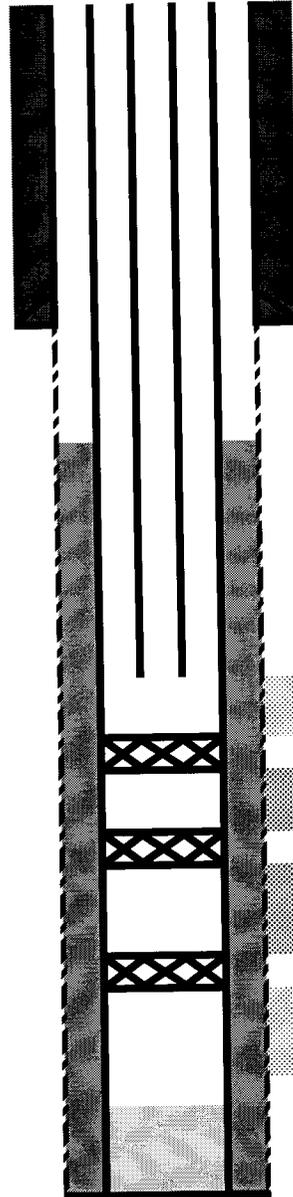
Surface: 8 5/8" 28# S-80 at 2994'

Production: 5 1/2" 17# WC-70 at 9915'

Tubing Detail:

2 7/8" 6.5# N-80 8rd EUE tubing, open ended at 7500'

2994



TOC AT 5000'

PERFORATIONS 7658-8080'

CIBP AT 8300
PERFORATIONS 8440-9082

CIBP AT 9150'
PERFORATIONS 9206-9550

CIBP AT 9580'
PERFORATIONS 9605-9822

PBTD 9863

TD 9915

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P. WELLBORE SCHEMATIC

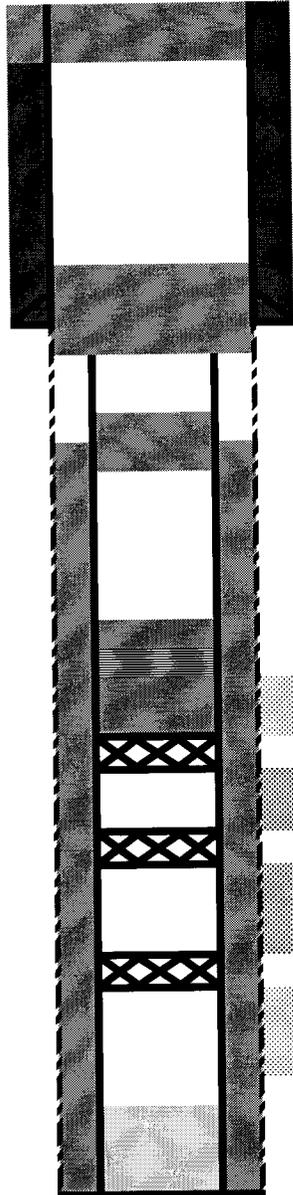
Location: REAY 11-13A4

NWNW SECTION 13, T1S, R4W

Casing Detail:

Surface: 8 5/8" 28# S-80 at 2994'
Production: 5 1/2" 17# WC-70 at 9915'

2994



75 SK PLUG FROM 3050' TO 2900'

5 1/2" CASING CUT AT 3050' AND PULLED

25 SK PLUG FROM 5050' TO 4900'
TOC AT 5000'

CEMENT RETAINER AT 7600', 40 SKS BELOW RETAINER, 10 ON TOP
PERFORATIONS 7658-8080'

CIBP AT 8300
PERFORATIONS 8440-9082

CIBP AT 9150'
PERFORATIONS 9206-9550

CIBP AT 9580'
PERFORATIONS 9605-9822

PBTD 9863

TD 9915

NOT TO SCALE



State of Utah

Department of
Natural Resources

ROBERT L. MORGAN
Executive Director

Division of
Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL

Well Name and Number: Reay 11-13A4
API Number: 43-013-31291
Operator: Devon Energy Production Company L.P.
Reference Document: Original Sundry Notice Dated April 6, 2004
Received by DOGM on April 7, 2004

Approval Conditions:

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.
2. All intervals between plugs shall be filled with noncorrosive fluid.
3. CHANGE step six (6) in procedures to cement plug from 3,100' to 2,944' to center 100' plugs across cut casing stub and base of surface string.
4. Balanced plugs shall be tagged to ensure the plugs are at the depths specified in the proposal.
5. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration. Evidence of compliance with this rule should be supplied to the Division upon completion of reclamation.
6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
7. If there are any changes to the plugging procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 prior to continuing with the procedure.
8. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Dustin K. Doucet
Petroleum Engineer

May 19, 2004

Date

Wellbore Diagram

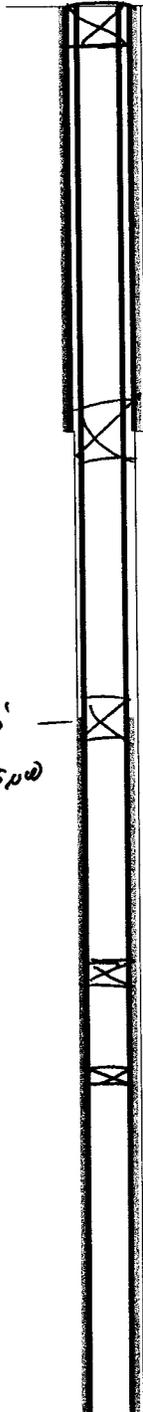
API Well No: 43-013-31291-00-00 Permit No:
 Company Name: DEVON ENERGY PROD CO LP
 Location: Sec: 13 T: 1S R: 4W Spot: NWNW
 Coordinates: X: 560343 Y: 4472308
 Field Name: ALTAMONT
 County Name: DUCHESNE

Well Name/No: REAY 11-13A4

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	2994	11		
SURF	2994	8.625	28	2.853
HOL2	9915	7.875		
PROD	9915	5.5	17	7.661

Surface
 $100 / (1.18)(2.853) = 30 \text{ SKS}$



Cement from 2994 ft. to surface
 Surface: 8.625 in. @ 2994 ft.
 Hole: 11 in. @ 2994 ft.

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	9915	5000		
SURF	2994	0	G	1160

cut CSG @ 3050 *change*
 plug 3100 - 2944
 $50 / (1.18)(2.853) = 15 \text{ SKS}$
 $100 / (1.18)(2.053) = 42 \text{ SKS}$

$$\frac{[(7.875)(1.2)]^2}{183.35} = 2.053$$

plug #2 protect BMSW
 $200 / (1.18)(7.661) = 23 \text{ SKS}$

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
7658	8080			

plug #1 Isolate Green River
 CIBP @ 7600 Top $50 / (1.18)(7.661) = 6 \text{ SKS}$
 below $100 / (1.18)(7.661) = 12 \text{ SKS}$

Formation Information

Formation	Depth	Formation	Depth

Cement from 9915 ft. to 5000 ft.
 Production: 5.5 in. @ 9915 ft.
 Hole: 7.875 in. @ 9915 ft.

TD: 9915 TVD: PBD:



State of Utah

Department of
Natural Resources

ROBERT L. MORGAN
Executive Director

Division of
Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

May 19, 2004

CERTIFIED MAIL NO. 7002 0510 0003 8602 5436

Mr. John Pulley
Devon Energy Production Company, L.P.
P.O. Box 290
Neola, Utah 84053

Re: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases dated January 22, 2004.

Dear Mr. Pulley,

The Division of Oil, Gas and Mining (DOGM) is in receipt of your fourteen (14) sundries with various early April 2004 dates (received by the Division on March 8th and 9th, 2004) in regards to the fourteen (14) shut-in wells operated by Devon Energy Production Company, L.P. (Devon). It is the Divisions understanding Devon intends to plug and abandon four (4) wells this year and requests extended shut-in and temporary abandonment for the other ten (10) wells.

The four wells Devon plans to plug this year are the Robertson Ute 2-2-B2, Rachel Jensen 2-16C5, Duncan 4-12A2 and Reay 11-13A4 wells. The Division is in receipt of sundries and attachments dated April 6, 2004 (received by the Division 4/7/2004) for the plugging of these wells.

Based upon submitted information and plan of action the DOGM accepts Devon's plan to plug four (4) wells this year and grants the requested extended SI/TA status for all fourteen (14) wells until January 1, 2005.

For reference, Attachment A lists the wells subject to this request. If you have any questions or need additional assistance in regards to the above matters please contact me at (801) 538-5281.

Sincerely,

Dustin Doucet
Petroleum Engineer

cc: Well File
SITLA

	Well Name	API	Lease Type	Years Inactive
1	State 1-10A2	43-013-30006	State	11 Years 8 Months
1	Robertson Ute 2-2-B2	43-013-30921	Fee	2 Years 0 Months
2	Woodard 1-21A2	43-013-30130	Fee	2 Years 1 Month
3	Rachel Jenson 2-16C5	43-013-30912	Fee	2 Years 2 Months
4	Lamb 2-16A2	43-013-31390	Fee	2 Years 4 Months
5	Ballard 2-15B1	43-047-32351	Fee	2 Years 5 Months
6	Marguerite 2-8B2	43-013-30807	Fee	4 Years 4 Months
7	Olsen U1-12A2	43-013-30031	Fee	4 Years 6 Months
8	Freston ST 1-8B1	43-013-30294	Fee	6 Years 6 Months
9	Duncan 4-12A2	43-013-31233	Fee	6 Years 7 Months
10	Verl Johnson 1-27A2	43-013-30119	Fee	8 years 1 Month
11	Reay 11-13A4	43-013-31291	Fee	9 Years 11 Months
12	Clyde Murray 1-2A2	43-013-30005	Fee	10 Years 7 Months
13	Duncan 3-7A1	43-013-31285	Fee	10 Years 9 Months

Attachment A

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: DEVON ENERGY PRODUCTION COMPANY L.P.		8. WELL NAME and NUMBER: REAY 11-13A4
3. ADDRESS OF OPERATOR: P.O. BOX 290 CITY NEOLA STATE UT ZIP 84053		9. API NUMBER: 4301331291
		10. FIELD AND POOL, OR WILDCAT: BLUEBELL/WASATCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 660' FNL 1191' FWL		COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 13 1S 4W 6		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 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 type="checkbox"/> OTHER: <u>SHUT IN WELL</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.

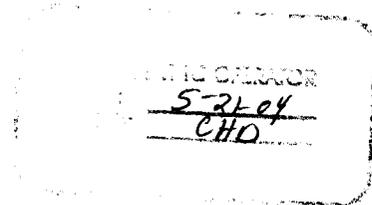
THE REAY 11-13A4 WAS SHUT IN JANUARY 1991 AFTER TESTING THE UPPER GREEN RIVER FOR GAS.

DEVON ENERGY PLANS TO PLUG THE WELL IN 2004. A SUNDRY NOTICE WILL BE FILED WITH THE PROPOSED PLUGGING PROCEDURE.

THE WELL HAS 8 5/8" SURFACE CASING SET AT 2994', CEMENTED TO SURFACE. THE 5 1/2" CASING IS SET AT 9915' WITH CEMENT TO 5000'. THE PERFORATIONS 9605-9822, 9206-9550 AND 8440-9082 ARE ISOLATED WITH CIBPS SET AT 9580, 9150 AND 8300'. ON FEBRUARY 25, 2004 THE SITP AND SICP WAS 10 PSI. THE 8 5/8" - 5 1/2" ANNULUS WAS ZERO.

THIS WELL IS NOT A RISK TO PUBLIC HEALTH OR THE ENVIRONMENT.

ATTACHMENTS: WELLBORE SCHEMATIC AND WELL HISTORY



NAME (PLEASE PRINT) <u>JOHN PULLEY</u>	TITLE <u>SR. OPERATIONS ENGINEER</u>
SIGNATURE <u><i>John Pulley</i></u>	DATE <u>3/4/2004</u>

(This space for State use only)

RECEIVED

MAR 08 2004

DIV. OF OIL, GAS & MINING

(5/2000)

(See Instructions on Reverse Side)

05/19/04
Debra
** See attached letter dated May 19, 2004*

REAY 11-13A4 UPPER GREEN RIVER GAS WELL

MIRU workover rig, drill out cement.

Perforate interval 9605-9822', 7 intervals, 76', 304 holes.

Swabbed water with no oil or gas.

Acidized with 7500 gals 15% HCL, 600 balls, good diversion.

Swabbed back water with trace of oil. Set CIBP at 9580'.

Set CIBP, perforated interval 9206-9550', 6 intervals, 34', 136 holes.

Ran Halliburton PPI tool, acidized perforations individually with

A total of 3400 gals 15% HCL Swab test perforations 9206-9550.

95% water with trace oil. Set CIBP at 9150'.

Perforated 8440-9082', 7 intervals, 67', 268 holes.

Run PPI tool and acidized in stages with 6700 gals 15% HCL.

The top three zones communicated and were acidized together.

Swab test with water, no oil and very little gas.

Set CIBP at 8300'

Perforate 7676-8080', 12 intervals, 131', 131 holes.

Acidized with 13,000 gals 15% HCL with 260 balls, good diversion.

Swab test, 5% oil, light show of gas.

Ran Prism log to determine acid coverage.

Swabbed water with trace of oil and gas. Set CIBP at 7840'.

Perforate 7658-7784, 3 intervals, 82', 164 holes.

Acidize with 8000 gals 15% HCL with 300 balls. Good diversion.

Swabbed lots of water with trace of oil and gas.

Shut in 5 days to evaluate.

Swabbed one day, recovered water, pulled packer, run tubing

Open ended. Rig down and move off.

Move back on, drill out CIBP at 7840'.

Isolate perforations 7850-7896 with plug and packer.

Swab test, high water rate, trace oil and gas.

Pull packer and plug, ran tubing open ended.

... In order to optimize stimulation techniques for future wells in the area, permeability tests should be conducted in this well.

Cement Evaluation

REM 11-13 A4

A Schlumberger Cement Bond log run 01/05/91 had the following results:

Surf to 5000' - Free Pipe
5000 to 7650' - Fair Bond
7650 to 9800' - Good Bond

Well Data

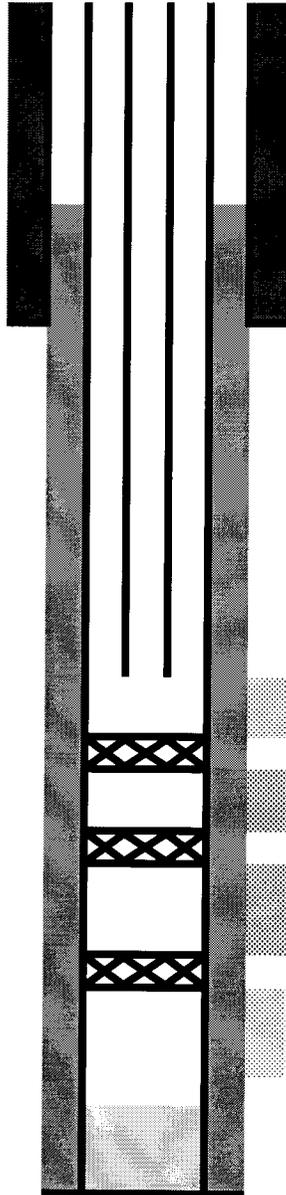
Original PBTD: 9863'
Current PBTD: 8300' (CIBP)
Casing: 14" @ 65'
8-5/8", 28#, S-80 at 2994'
5-1/2", 17#, WC-70 at 9915'
Tubing: 7500' of 2-7/8", 6.5#, N-80 8rd open ended
Open Perfs: 7658-8080' (15 intervals, 213', 295 holes)
Excluded Perfs: 8440-9082' (7 intervals, 67', 268 holes)
9206-9550' (6 intervals, 34', 136 holes)
9605-9822' (7 intervals, 76', 304 holes)
Bridge plugs: CIBP at 8300'
CIBP at 9150'
CIBP at 9580'

DEVON ENERGY PRODUCTION COMPANY, L.P. WELLBORE SCHEMATIC

Location: REAY 11-13A4

NWNW SECTION 13, T1S, R4W

2994



Casing Detail:

Surface: 8 5/8" 28# S-80 at 2994'

Production: 5 1/2" 17# WC-70 at 9915'

Tubing Detail:

2 7/8" 6.5# N-80 8rd EUE tubing, open ended at 7500'

PERFORATIONS 7658-8080'

CIBP AT 8300

PERFORATIONS 8440-9082

CIBP AT 9150'

PERFORATIONS 9206-9550

CIBP AT 9580'

PERFORATIONS 9605-9822

PBTB 9863

TD 9915

NOT TO SCALE

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: REAY 11-13A4	
2. NAME OF OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP		9. API NUMBER: 4301331291
3. ADDRESS OF OPERATOR: P.O. BOX 290 CITY NEOLA STATE UT ZIP 84066	PHONE NUMBER: (435) 353-4121	10. FIELD AND POOL, OR WILDCAT: BLUEBELL/WASATCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 660' FNL 1191' FWL		COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 13 1S 4W 6		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: 9/15/2004	<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 checked="" 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.

SET 5-1/2" CEMENT RETAINER @ 7,450'. PUMP 70 SKS UNDER, SPOT 10 SKS ON TOP. TOH TO 5,049'. PUMP 30 SKS TO BALANCE PLUG. TOH & WOC. RIH W/ WIRELINE PLUG TO 4,833', OK AS PER DENNIS INGRAM. CUT CSG @ 3,030', SHOE @ 2,994'. LD 5-1/2" CSG. TIH W/ 99 JTS TBG TO 3,088'. PUMP 100 SKS CEMENT. TOH & WOC. TIH W/ TBG, TAG CEMENT, QUESTIONABLE TAG. WOC OVERNIGHT. RIH & TAG PLUG @ 2,930', SHOE @ 2,994'. PUMP 35 SKS CEMENT 100' TO SURFACE. WELD ON DRY HOLE MARKER.

SURFACE REHAB PENDING AGREEMENT WITH SURFACE OWNER.

NAME (PLEASE PRINT) JOHN PULLEY	TITLE SENIORS OPERATIONS ENGINEER
SIGNATURE	DATE 9/23/2004

(This space for State use only)

RECEIVED
SEP 2 / 2004
DIV. OF OIL, GAS & MINING