

UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED **6-17-91**

LAND: FEE & PATENTED STATE LEASE NO. _____ PUBLIC LEASE NO. _____ INDIAN _____

DRILLING APPROVED: **6-28-91 (CAUSE NO. 139-42)**

SPUDED IN: _____

COMPLETED: **8-21-91 LA** PUT TO PRODUCING _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I.: _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: _____

DATE ABANDONED: **LA'D PER OPER EFF 8-21-91**

FIELD: **ALTAMONT**

UNIT: _____

COUNTY: **DUCHESNE**

WELL NO. **BOREN 4-15A2** API NO. **43-013-31324**

LOCATION **2340' FNL** FT. FROM (N) (S) LINE. **1600' FEL** FT. FROM (E) (W) LINE. **SW NE** 1/4 - 1/4 SEC. **15**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				1S	2W	15	PENNZOIL EXPL. & PROD.

 **PENNZOIL EXPLORATION AND PRODUCTION COMPANY**

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

June 14, 1991

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

RE: Application for Permit to Drill
Boren 4-15A2
2340' FNL & 1600' FEL
SW1/4 NE1/4 Sec. 15, T1S R2W
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
Area Drilling Foreman

Enclosure

RECEIVED

JUN 17 1991

DIVISION OF
OIL GAS & MINING

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

(Other instructions on reverse side)

5. Lease Designation and Serial No.

Fee Land

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL [X]

DEEPEN []

PLUG BACK []

7. Unit Agreement Name

b. Type of Well

Oil Well [X]

Gas Well []

Other []

Single Zone [X]

Multiple Zone []

8. Farm or Lease Name

Boren

2. Name of Operator

Pennzoil Exploration and Production Company

9. Well No.

4-15A2

3. Address of Operator

P.O. Box 290; Neola, Utah 84053

10. Field and Pool, or Wildcat

Bluebell-Wasatch 065

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

At surface

2340' FNL and 1600' FEL (SW NE)

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

Sec. 15, T1S, R2W

At proposed prod. zone

Same

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

2.5 mi. South and 3.3 mi. West of Neola, Utah

12. County or Parrish 13. State
Duchesne Utah

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

1600'

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.

2116'

19. Proposed depth

14,200' DSTC

20. Rotary or cable tools

Rotary

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

Ungraded Ground Level: 5743'

22. Approx. date work will start*

Aug. 1, 1991

23.

PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: Size of Hole, Size of Casing, Weight per Foot, Setting Depth, Quantity of Cement. Rows include 13 1/2", 9 7/8", and 6 1/8" hole sizes.

CONFIDENTIAL

- 1. Enclosed Attachment: a. Certified Location Plat, b. Drilling Plan, c. BOP Schematic, d. Map showing roadway to location, e. Schematic of rig layout on location.

RECEIVED

JUN 17 1991

2. Water Permit Will Be Secured Prior to Spud.

3. An AFE has been prepared and copies have been sent to joint interest holders for their approval.

DIVISION OF OIL GAS & MINING

TECHNICAL REVIEW

Engr. [Signature] 6-28-91

Geol. [Signature] 6/26/91

Surface [Signature] 6/26/91

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give details of 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

[Signature]

Title

Area Drilling Foreman

Date

6-14-91

(This space for Federal or State office use)

Permit No.

43-013-31324

Approval Date

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

Approved by

Title

DATE: 6-28-91

BY: [Signature]

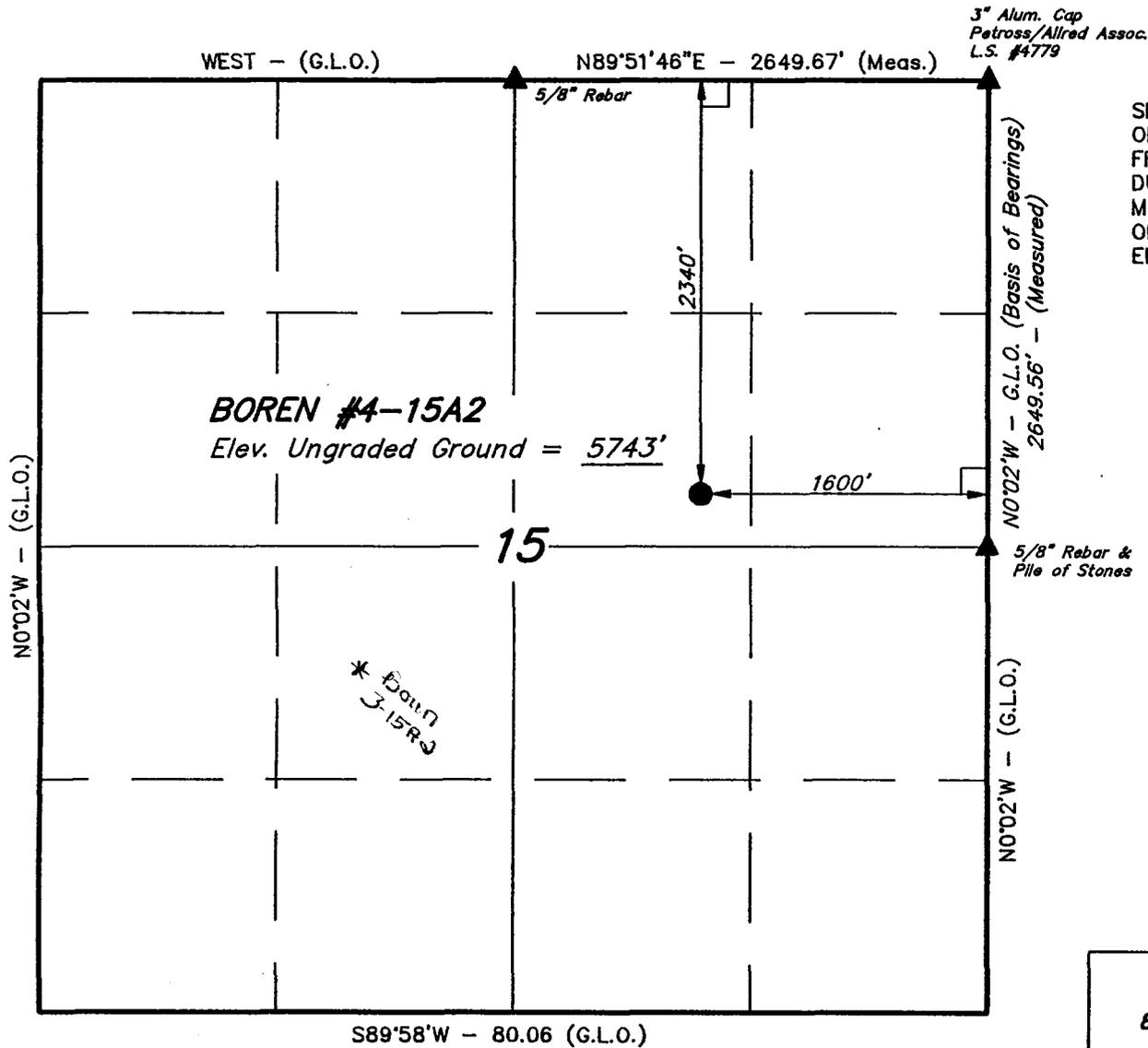
WELL SPACING: 139-42

Conditions of approval, if any:

PENNZOIL EXPLR. & PROD. CO.

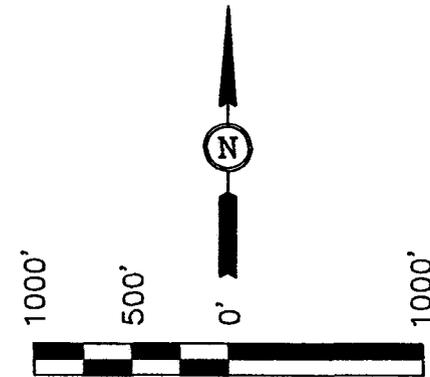
T1S, R2W, U.S.B.&M.

Well location, BOREN #4-15A2, located as shown in the SW 1/4 NE 1/4 of Section 15, T1S, R2W, U.S.B.&M. Duchesne County, Utah.



BASIS OF ELEVATION

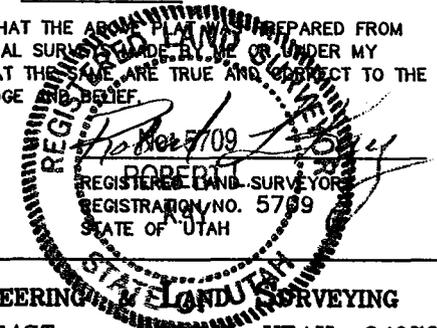
SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 15, T1S, R2W, U.S.B.&M. TAKEN FROM THE NEOLA QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5808 FEET.



SCALE

CERTIFICATE

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



▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017	
SCALE 1" = 1000'	DATE 6-14-91
PARTY J.T.K. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER HOT	FILE PENNZOIL EXPLR. & PROD. CO.

DRILLING PLAN

OPERATOR: PENNZOIL EXPLORATION & PRODUCTION COMPANY
WELL: Boren 4-15A2
WELL LOCATION: 2340' FNL & 1600' FEL
SW1/4 NE 1/4 SEC. 15, T1S R2W
Duchesne County, Utah

1. ESTIMATED TOPS AND IMPORTANT GEOLOGICAL FORMATIONS:

Top Green River	6418'
Green River Trona	7758'
Mahagony Bench	8534'
TGR 3	9769
CP 70	10,593'
TU 2	10,942
Wasatch 200	13,121'
Total Depth	14,200'

2. ESTIMATED OIL AND WATER DEPTHS:

Water	NONE ANTICIPATED
TU 2	Oil @ <u>+10,942'</u>
Wasatch 200	Oil @ <u>+13,121</u>

3. HOLE SIZE, CASING, AND CEMENT PROGRAM:

- A. CONDUCTOR HOLE: 0' - 60'
- a. Drill a 36" hole to 60'.
 - b. Set 16" conductor pipe.
 - c. Cement with ready mix concrete at 6 bags per yard.
- B. SURFACE HOLE: 60' - 2500'
- a. Drill a 13 1/2" hole to 2500'.
 - b. Set 10 3/4" 40.5# K-55/S-80 STC.
 - c. Cement to surface with a lead slurry of a low density filler and tail in with 200 sks. Class "G".
- C. INTERMEDIATE HOLE: 2500' - 10,715'
- a. Drill a 9 7/8" hole to 10,715'.
 - b. Set 7" 23#/26# N-80/S-95 LTC.
 - c. Cement to surface with a DVT at approximately 8534'.
First stage: 50/50 Poz "G" with additives tailored for depth and temp. Second stage: A lead cement from approx. 5918' to surface with a low density filler and tail in with a 50/50 Poz. "G" tailored for depth and temp.

- A. PRODUCTION HOLE: 10,715' - 14,200'
 - a. Drill a 6 1/8" hole to 14,200'.
 - b. Hang a 5" 18# N-80 FL4S liner.
 - c. Cement liner with a Class "G" cement tailored for depth and temp.

4. OPERATOR'S PRESSURE CONTROL PLAN:

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

The BOP equipment will be nipple up on the surface casing string and pressure tested prior to commence drilling.

- A. All rams and choke manifold will be tested to 5000 psi.
- b. Bag preventor will be tested to 50% of its rated working pressure.
- c. 7" casing strings will be tested to 4000 psi. or 0.2 psi/ft per depth, which every 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 double 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.

5. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- a. Upper and lower kelly cocks will be utilized.
- b. A full opening drill pipe stabbing valve.
- c. PVT equipment will be used to monitor the mud system when drilling the production hole.

6. PROPOSED DRILLING FLUID PROGRAM:

- A. SURFACE HOLE: 60' - 2500'
 - a. Drill from 60' to 2500' with a 36 viscosity in steel pits. Then continue drilling with fresh water, circulating reserve pit using lime and flocculate to keep fluid clean.
 - b. All severe water flows will be contain with barite and gel.
- B. INTERMEDIATE HOLE: 2500' - 10,715'
 - a. Drill out with fresh water circulating reserve pit using lime and flocculate as needed to keep fluid clean. Barite, polymers, and gel will be used as wellbore dictates due to pressure or hole condition.
 - b. Final fluid properties: 9.5 ppg. gelled brine water.

- C. PRODUCTION HOLE: 10,715'-14,200
- a. Drill out with the existing mud system. Barite, polymers, and gel will be used as wellbore dictates due to pressure and hole condition.
 - b. Final fluid properties: 13.0/13.5 ppg. 40/55 vis.
8/10 wl. 20/30 yp.

7. WELL BORE EVALUATION:

- a. CORING: None Anticipated
- b. DRILL STEM TESTING: None Anticipated
- c. LOGS: 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 Wasatch Formation. Selected intervals will then be perforated and evaluated for stimulation work.

8. 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 : 238 degrees
- c. Estimated bottom hole pressure: 9600 psi

9. ANTICIPATED STARTING DATE:

- a. Construction will probably start within 30 days of permit approval.
- b. The well will probably be spudded within 10 days of well site completion.

10. OTHER INFORMATION:

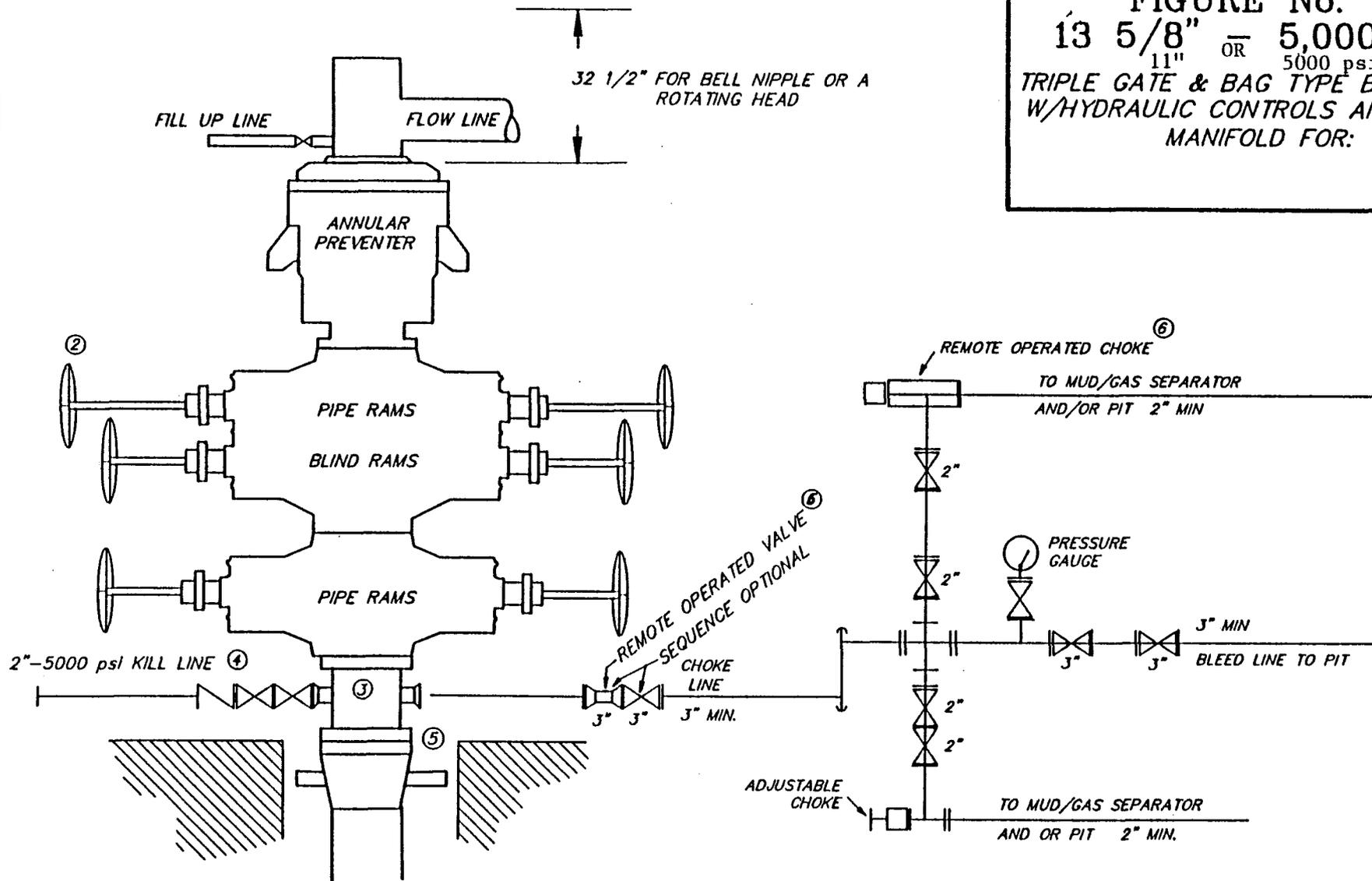
- a. Topography: Virgin rolling hills
- b. Soil Characteristics: Bentonitic clays and sand.
- c. Flora: Pasture grasses, juniper, sagebrush, and cacti.
- d. Fauna: Domestic: None
Wildlife:- Deer, Rodents, Grouse, etc.
- e. Surface Use: None
- f. Surface Owner: Duane Boren (801) 353-4879

11. LEASEE'S OR OPERATOR'S REPRESENTATIVE:

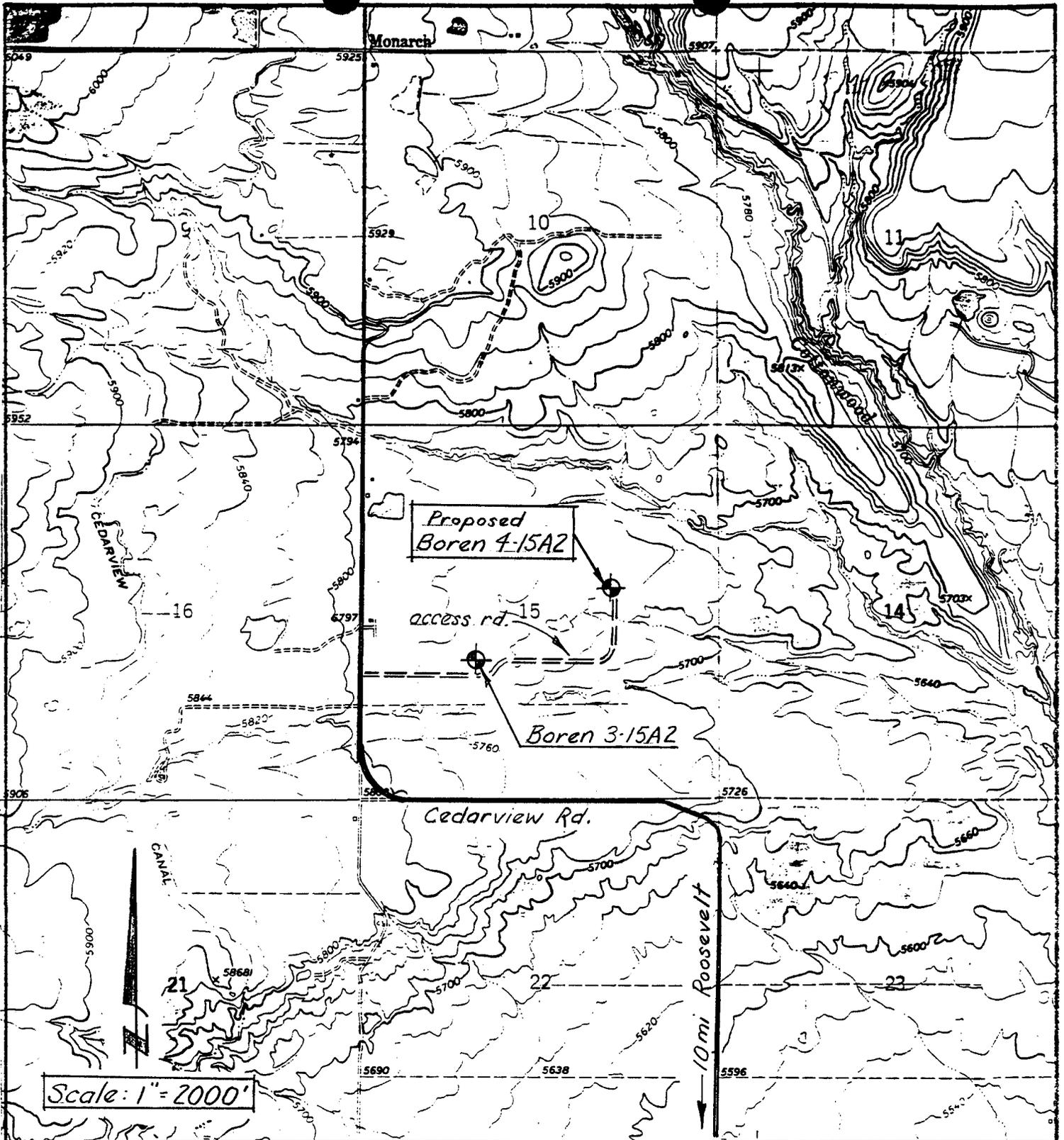
George P. SanFilippo, Vice President of Western Operations
Danny L. Laman, Area Drilling Foreman (801) 353-4397

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

FIGURE No. 1
13 5/8" ^{11"} OR 5,000 psi ^{5000 psi} ①
TRIPLE GATE & BAG TYPE BOP STACK
W/HYDRAULIC CONTROLS AND CHOKE
MANIFOLD FOR:



- ① = ALL BOP CONNECTIONS SUBJECTED TO WELL PRESSURE SHALL BE FLANGED, WELDED OR CLAMPED.
- ② = HAND WHEELS FOR EACH SET OF RAMS UNLESS EQUIPPED WITH AUTO LOCK.
- ③ = DRILLING SPOOL UNLESS BOTTOM BOP EQUIPPED WITH SIDE OUTLETS.
- ④ = KILL LINE W/2-2" VALVES & 1-2" CHECK VALVE WITH KILL LINE TO OUTER EDGE OF THE SUB STRUCTURE.
- ⑤ = TOP OF CASING HEAD FLANGE WILL BE AT GROUND LEVEL.
- ⑥ = REMOTE CONTROLS ON RIG FLOOR.



AREA TOPOGRAPHY MAP

For The Proposed: BOREN 4-15A2

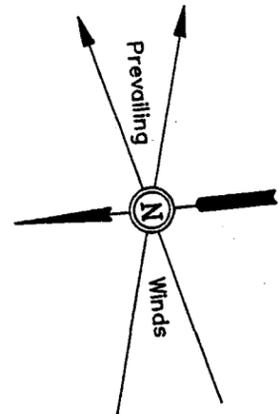
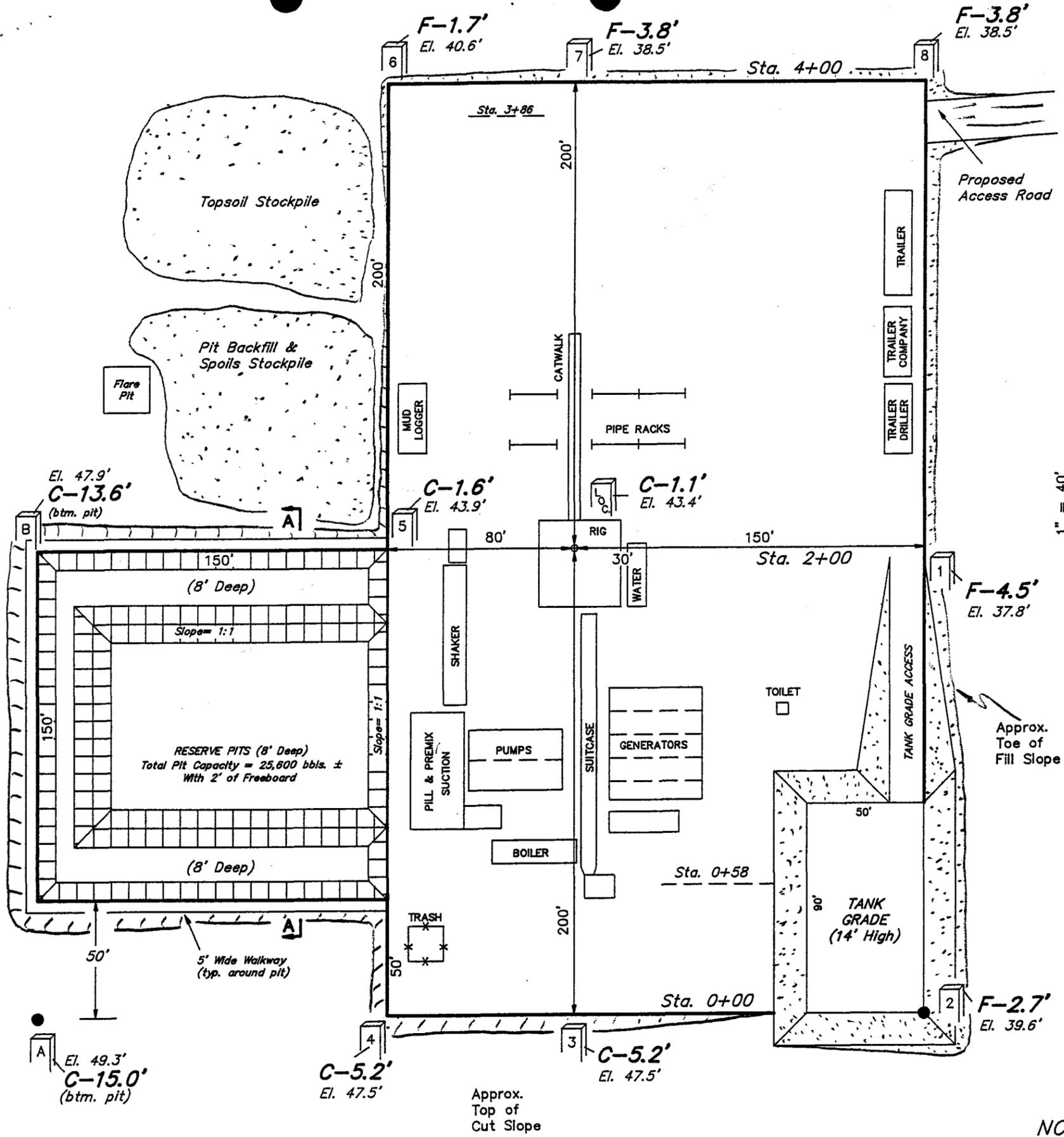
2430' FNL and 1600' FEL, SW NE Sec.15, T1S, R2W

Duchesne County, Utah

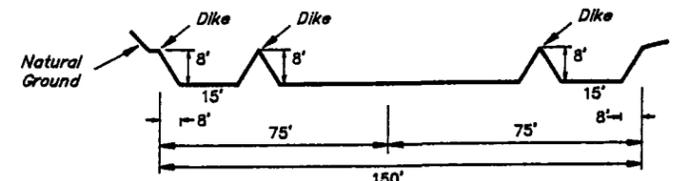
Submitted to Utah Division Oil, Gas, & Mining by Pennzoil Explor. & Prod. Co.

PENNZOIL EXPLR. & PROD. CO.

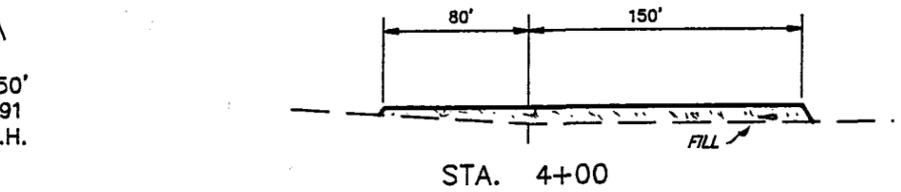
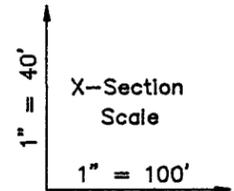
LOCATION LAYOUT FOR
BOREN #4-15A2
SECTION 15, T1S, R2W, U.S.B.&M.



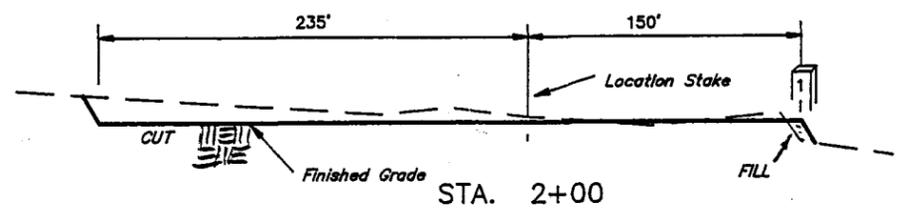
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DATE: 6-14-91
Drawn By: T.D.H.



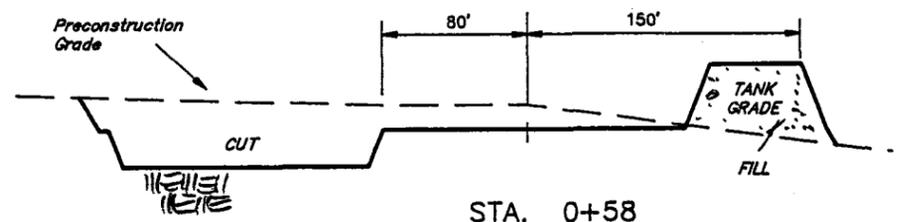
SECTION A-A
NO SCALE



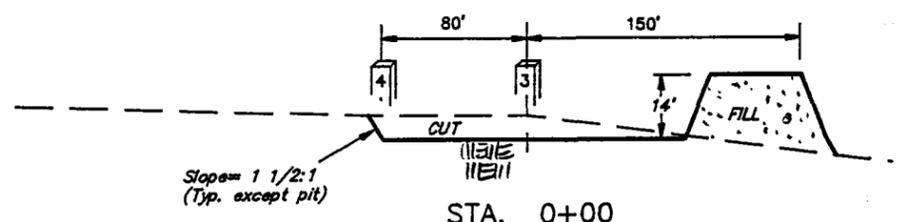
STA. 4+00



STA. 2+00



STA. 0+58



STA. 0+00

TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS

APPROXIMATE YARDAGES

(6") TOPSOIL STOCKPILE = 2,260 Cu. Yds.	EXCESS MATERIAL AFTER 5% COMPACTION = 5,770 Cu. Yds.
REMAINING LOCATION = 12,630 Cu. Yds.	Topsoil & Pit Backfill (1/2 Pit Vol.) = 5,160 Cu. Yds.
TOTAL CUT = 14,890 CU.YDS.	EXCESS UNBALANCE = 610 Cu. Yds.
FILL = 8,660 CU.YDS.	(To be used for Access Road Construction)

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5743.4'
FINISHED GRADE ELEV. AT LOC. STAKE = 5742.3'

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 7
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 7
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 7
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.

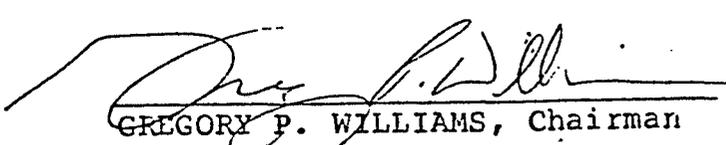
G. If an operator elects to initially complete a well solely within producing formations that are separate and distinct from and not in communication with any other producing formation, the operator will use reasonable precautions in order that such well is not completed in any producing formation that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

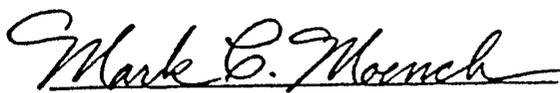
I. The Board retains exclusive and continuing jurisdiction of all matters covered by this order and of all parties affected thereby and particularly that the Board retains and reserves exclusive and continuing jurisdiction to make further orders as appropriate and authorized by statute and applicable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

DRILLING LOCATION ASSESSMENT

State of Utah
Division of Oil, Gas and Mining

OPERATOR: PENNZOIL EX. AND PROD. CO. NAME: BOREN 4-15A2
SECTION: 15 TWP: 1S RNG: 2W LOC: 2340 FNL 1600 FEL
QTR/QTR SW/NE COUNTY: DUCHESNE FIELD: ALTAMONT/WASATCH
SURFACE OWNER: DUANE BOREN
SPACING: 660 F SECTION LINE 1320 F ANOTHER WELL
INSPECTOR: BRAD HILL DATE AND TIME: 6/11/91 11:00

PARTICIPANTS: Don Lankford-Pennzoil; Robert Kay & John Kay-Uintah Engineering

REGIONAL SETTING/TOPOGRAPHY: The proposed location is in the northwest Uinta Basin in an area of low rounded hills made up of sand hills stabilized by vegetation.

LAND USE:

CURRENT SURFACE USE: Domestic grazing.

PROPOSED SURFACE DISTURBANCE: A rectangular shaped pad will be constructed with approximate dimensions of 400'X 220' with a 150'X 150' extension for a reserve pit. Approximately .5 miles of access road will be constructed.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Sage, Prickly Pear, Greasewood, Cheat Grass, Rabbit Brush, Tumbleweed/Rabbits, Birds, Gnats

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Fine sand

SURFACE FORMATION & CHARACTERISTICS: Quaternary Alluvium

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

PALEONTOLOGICAL POTENTIAL: None Observed

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Tu 2-10,942'; Wasatch 200-13,121'

ABNORMAL PRESSURES-HIGH AND LOW: None Anticipated

CULTURAL RESOURCES/ARCHAEOLOGY: NA

CONSTRUCTION MATERIALS: Onsite materials will be used for construction.

SITE RECLAMATION: As per landowner instructions.

RESERVE PIT

CHARACTERISTICS: An square shaped reserve pit will be constructed with dimensions of 150'X 150'X 8'.

LINING: The reserve pit is to be lined with a synthetic liner.

MUD PROGRAM: See APD

DRILLING WATER SUPPLY: Not specified

STIPULATIONS FOR APD APPROVAL

Reserve pits to be lined with a synthetic liner of 12 mil minimum thickness.

ATTACHMENTS

Photographs will be placed on file.

CONFIDENTIAL

OPERATOR Pennzoil Explor. Prod Co N-0885 DATE 6-20-91

WELL NAME Born 4-15A0

SEC S W E 15 T 15 R 0W COUNTY Duchesne

43-013-31304
API NUMBER

fee (4)
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

80,000
81065080

NEAREST
WELL

LEASE

FIELD

USBM

POTASH OR
OIL SHALE

PROCESSING COMMENTS:

falls within guidelines of Cause Order

Water Permit

Permit 6-20-91

APPROVAL LETTER:

SPACING:

R615-2-3

N/A
UNIT

R615-3-2

139-40 4-17-85

CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

1- Needs water permit

Reserve pits to be lined with a synthetic liner
of 12 mil minimum thickness.



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

June 28, 1991

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

Gentlemen:

Re: Boren 4-15A2 Well, 2340 feet from the North line, 1600 feet from the East line, SW NE, Section 15, Township 1 South, Range 2 West, Duchesne County, Utah

Approval to drill the referenced well is hereby granted in accordance with the Order in 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 Utah Code Ann. Section 73-3, Appropriation.
2. Reserve pit to be lined with a synthetic liner of 12 mil. minimum thickness.

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

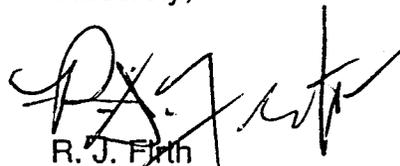
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification in the event it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or J. L. Thompson, Lead Inspector, (Home) 298-9318.

Page 2
Pennzoil Exploration & Production Company
Boren 4-15A2
June 28, 1991

5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.
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 Drinking Water/Sanitation, telephone (801) 538-6159.
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 43-013-31324.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
we14/1-22

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

<p>SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Fee Land</p>																					
<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p>		<p>6. IF INDIAN, ALLOTED OR TRIBE NAME</p>																					
<p>2. NAME OF OPERATOR Pennzoil Exploration and Production Company</p>		<p>7. UNIT AGREEMENT NAME</p>																					
<p>3. ADDRESS OF OPERATOR P.O. Box 290; Neola, Utah 84053</p>		<p>8. FARM OR LEASE NAME Sundance</p>																					
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1600' FNL and 1600' FEL (SW NE)</p>		<p>9. WELL NO. 4-15A2</p>																					
<p>14. PERMIT NO.</p>		<p>10. FIELD AND POOL, OR WILDCAT Bluebell-Wasatch</p>																					
<p>15. ELEVATIONS (Show whether OF, RT, GR, etc.) 5749' (GL)</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 15, T1S, R2W</p>																					
<p>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</p> <table style="width:100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>NOTICE OF INTENTION TO:</p> <table style="width:100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width:100%; border: none;"> <tr> <td style="width: 50%; border: none;">TEST WATER SHUT-OFF <input type="checkbox"/></td> <td style="width: 50%; border: none;">PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">FRACTURE TREAT <input type="checkbox"/></td> <td style="border: none;">MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">SHOOT OR ACIDIZE <input type="checkbox"/></td> <td style="border: none;">ABANDON* <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">REPAIR WELL <input type="checkbox"/></td> <td style="border: none;">CHANGE PLANS <input checked="" type="checkbox"/></td> </tr> <tr> <td style="border: none;">(Other) <input type="checkbox"/></td> <td style="border: none;"><input type="checkbox"/></td> </tr> </table> </td> <td style="width: 50%; border: none;"> <table style="width:100%; border: none;"> <tr> <td style="width: 50%; border: none;">WATER SHUT-OFF <input type="checkbox"/></td> <td style="width: 50%; border: none;">REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">FRACTURE TREATMENT <input type="checkbox"/></td> <td style="border: none;">ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td style="border: none;">ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">(Other) <input type="checkbox"/></td> <td style="border: none;"><input type="checkbox"/></td> </tr> </table> </td> </tr> </table> <p>(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</p> </td> <td style="width: 20%; border: none;"> <p>12. 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(Other) <input type="checkbox"/>	<input type="checkbox"/>																						

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

Pennzoil submitted APD and related information for the proposed Boren 4-15A2 on June 14, 1991. On August 7, 1991, Pennzoil re-staked the proposed location at 1600' FNL/ 1600' FEL. The name was also changed to Sundance 4-15A2.

Please receive the enclosed APD for the Sundance 4-15A2 and cancel the previously submitted APD for the Boren 4-15A2.

RECEIVED
AUG 14 1991
DIVISION OF
OIL GAS & MINING

TIGHT HOLE

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

SIGNED DR Lamberson TITLE Petroleum Engineer DATE 8/12/91

(This space for Federal or State office use)

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



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
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

August 21, 1991

Pennzoil Exploration and Production Company
P.O. Box 290
Neola, Utah 84053

Gentlemen:

Re: Boren #4-15A2, Sec. 15, T. 1S, R. 2W, Duchesne County, Utah,
API No. 43-013-31324

Per your request, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

Don Staley
Administrative Supervisor
Oil and Gas

DME/lde
cc: R.J. Firth
Well file
WOI139