

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE **X** WATER SANDS LOCATION INSPECTED SUB. REPORT No. **Abd.**

DATE FILED **6-17-91**
 LAND: FEE & PATENTED **X** STATE LEASE NO. PUBLIC LEASE NO. INDIAN

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

SPUDDED IN:
 COMPLETED: **12-9-92 LA** PUT TO PRODUCING:

INITIAL PRODUCTION: *C. J. ...*
 GRAVITY A.P.I.

GOR:
 PRODUCING ZONES:
 TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: **LA'D APD EXPIRED EST. 12-9-92**
 FIELD: **BLUEBELL**

UNIT:
 COUNTY: **DUCHESNE**

WELL NO. **HUSTON 2-32A1** API NO. **43-013-31323**
 LOCATION **660' FSL** FT. FROM (N) (S) LINE. **660' FEL** FT. FROM (E) (W) LINE. **SE SE** 1/4 - 1/4 SEC. **32**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				1S	1W	32	PENNZOIL EXPL. & PROD.

**PENNZOIL EXPLORATION AND PRODUCTION COMPANY**

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

June 13, 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
Huston 2-32A1
660' FSL & 660' FEL
SE1/4 SE1/4 Sec. 32, T1S R1W
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

7. Unit Agreement Name

8. Farm or Lease Name

Huston

9. Well No.

2-32A1

10. Field and Pool, or Wildcat

Bluebell-Wasatch 065

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

Sec. 32, T1S, R1W

12. County or Parrish 13. State

Duchesne Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

Pennzoil Exploration and Production Company

3. Address of Operator

P.O. Box 290; Neola, Utah 84053

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

660' FSL & 660' FEL (SE SE)

At proposed prod. zone
same

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

1.2 mi. West and 3.2 mi. North of Roosevelt, Utah

15. Distance from proposed* location to nearest property or lease line, ft.

660'

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.

3198'

19. Proposed depth

12,800' WSTC

20. Rotary or cable tools

Rotary

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

Ungraded Ground Level: 5278'

22. Approx. date work will start*

Approx. 10 days after APD approval

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
13 1/2"	10 3/4"	40.5	2500'	1820 cu/ft
9 7/8"	7"	23	9960'	3550 cu/ft
6 1/4"	5"	18	13,100'	325 cu/ft

CONFIDENTIAL
RECEIVED

JUN 17 1991

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

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. JA 6/28/91

Geol. DL 6/26/91

Surface JA 6/26/91

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production 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 Area Drilling Foreman Date 6-14-91

(This space for Federal or State office use)

Permit No. 43-013-31303 Approval Date

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

Approved by
Conditions of approval, if any:

Title

DATE: 6-28-91

BY: J.P. Matthews

WELL SPACING: 139-42

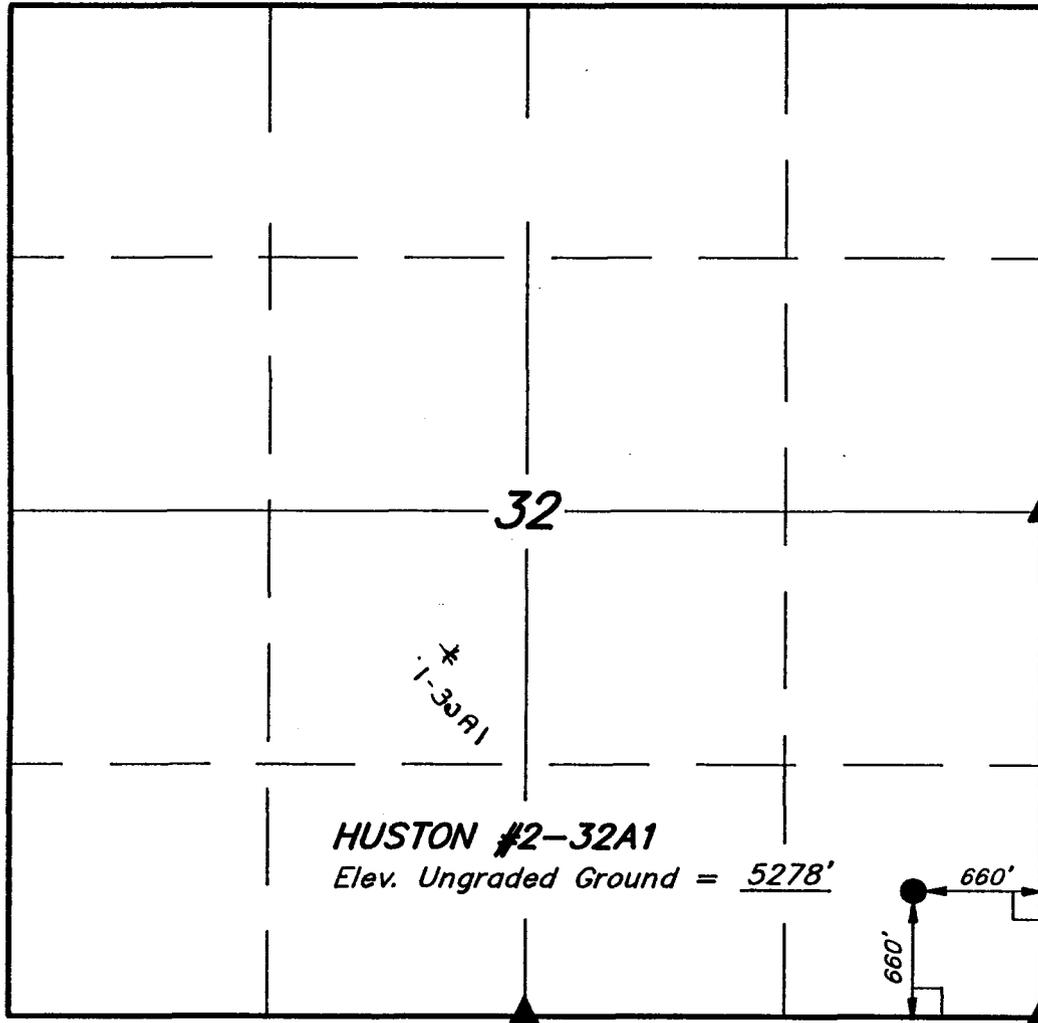
**PENNZOIL EXPLORATION
& PRODUCTION COMPANY**

T1S, R1W, U.S.B.&M.

Well location, HUSTON #2-32A1, located as shown in SE 1/4 SE 1/4 OF SECTION 32, T1S, R1W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 32, T1S, R1W, U.S.B.&M. TAKEN FROM THE HANCOCK COVE 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 5283 FEET.

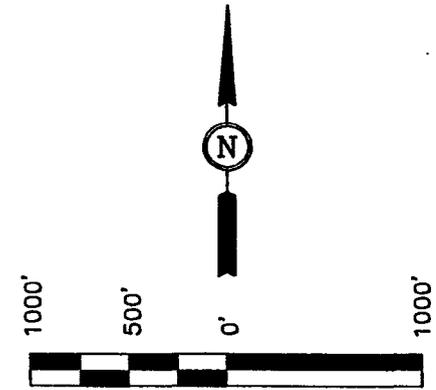


1/2" Rebar
NORTH - Assumed (Basis of Bearings) 2624.89' - (Measured)
5/8" Rebar & Fence Corner

Stone & Fence Post

N89°51'24"W - 2664.53' (Meas.)

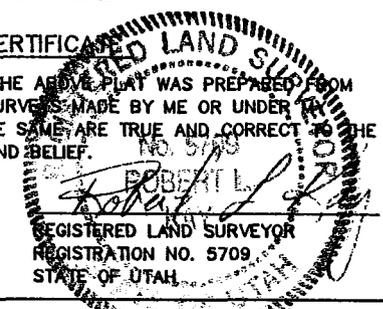
HUSTON #2-32A1
Elev. Ungraded Ground = 5278'



SCALE

CERTIFICATE OF REGISTERED LAND SURVEYOR

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



UINTAH ENGINEERING & LAND SURVEYING	
85 SOUTH - 200 EAST (801) 789-1017	
VERNAL, UTAH - 84078	
SCALE 1" = 1000'	DATE 6-12-91
PARTY G.S. J.K. T.D.H.	REFERENCES
WEATHER WARM	FILE PENNZOIL EXPLR. & PROD. CO.

▲ = SECTION CORNERS LOCATED.

DRILLING LOCATION ASSESSMENT

State of Utah
Division of Oil, Gas and Mining

OPERATOR: PENNZOIL EX. AND PROD. CO. NAME: HUSTON 2-32A1
SECTION: 32 TWP: 1S RNG: 1W LOC: 660 FSL 660 FEL
QTR/QTR SE/SE COUNTY: DUCHESNE FIELD: ALTAMONT/WASATCH
SURFACE OWNER: IRVINE HUSTON
SPACING: 660 F SECTION LINE 1320 F ANOTHER WELL
INSPECTOR: BRAD HILL DATE AND TIME: 6/11/91 10:10

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

REGIONAL SETTING/TOPOGRAPHY: The proposed location is in the central Uinta Basin in a low flat area with a gentle slope to the east.

LAND USE:

CURRENT SURFACE USE: 1/2 of the location is on irrigated alfalfa and 1/2 of the locaton has no current use.

PROPOSED SURFACE DISTURBANCE: A rectangular shaped pad will be constructed with approximate dimensions of 400'X 205' with a 150'X 100' extension for a reserve pit. Approximately .1 miles of access road will be constructed. A deep irrigation ditch will be crossed by the access road using a 48" culvert.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Sage, Alfalfa, Rabbit Brush/Prairie Dogs

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Silty-clay with fairly abundant gypsum.

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 2-10,152'; Wasatch 200-11,857'

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 rectangular shaped reserve pit will be constructed with dimensions of 150'X 100'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.

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.

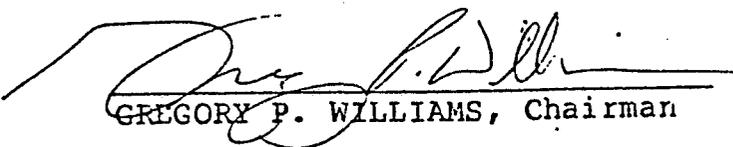
G. If an operator elects to initially complete a well solely within producing formations that are separate and distinct from and not in communication with any other producing formation, the operator will use reasonable precautions in order that such well is not completed in any producing formation that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

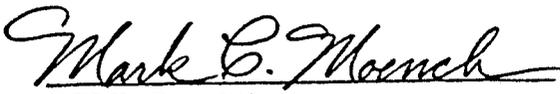
I. The Board retains exclusive and continuing jurisdiction of all matters covered by this order and of all parties affected thereby and particularly that the Board retains and reserves exclusive and continuing jurisdiction to make further orders as appropriate and authorized by statute and applicable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

DRILLING PLAN

OPERATOR: PENNZOIL EXPLORATION & PRODUCTION COMPANY
WELL: Huston 2-32A1
WELL LOCATION: 660' FSL & 660' FEL
SE1/4 SE 1/4 SEC. 32, T1S R1W
Duchesne County, Utah

1. ESTIMATED TOPS AND IMPORTANT GEOLOGICAL FORMATIONS:

Top Green River	5375'
Green River Trona	7105'
Mahagony Bench	7812'
TGR 3	8991
CP 70	9864'
TU 2	10,152'
Wasatch 200	11,857'
Total Depth	13,100'

2. ESTIMATED OIL AND WATER DEPTHS:

Water	NONE ANTICIPATED
TU 2	Oil @ +10,152'
Wasatch 200	Oil @ +11,857'

3. HOLE SIZE, CASING, AND CEMENT PROGRAM:

- A. CONDUCTOR HOLE: 0' - 60'
- Drill a 36" hole to 60'.
 - Set 16" conductor pipe.
 - Cement with ready mix concrete at 6 bags per yard.
- B. SURFACE HOLE: 60' - 2500'
- Drill a 13 1/2" hole to 2500'.
 - Set 10 3/4" 40.5# K-55/S-80 STC.
 - Cement to surface with a lead slurry of a low density filler and tail in with 200 sks. Class "G".
- C. INTERMEDIATE HOLE: 2500' - 9960'
- Drill a 9 7/8" hole to 9960'.
 - Set 7" 23# N-80/S-95 LTC.
 - Cement to surface with a DVT at approximately 7810'.
First stage: 50/50 Poz "G" with additives tailored for depth and temp. Second stage: A lead cement from approx. 4875' to surface with a low density filler and tail in with a 50/50 Poz. "G" tailored for depth and temp.

- A. PRODUCTION HOLE: 9960' - 13,100'
 - a. Drill a 6 1/4" hole to 13,100'.
 - 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, whichever 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' - 9960'
 - 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: 9960'-13,100
- 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 : 240 degrees
- c. Estimated bottom hole pressure: 8850 psi

9. ANTICIPATED STARTING DATE:

- a. Construction will probably start within 10 days of permit approval.
- b. The well will probably be spudded within 5 days of well site completion.

10. OTHER INFORMATION:

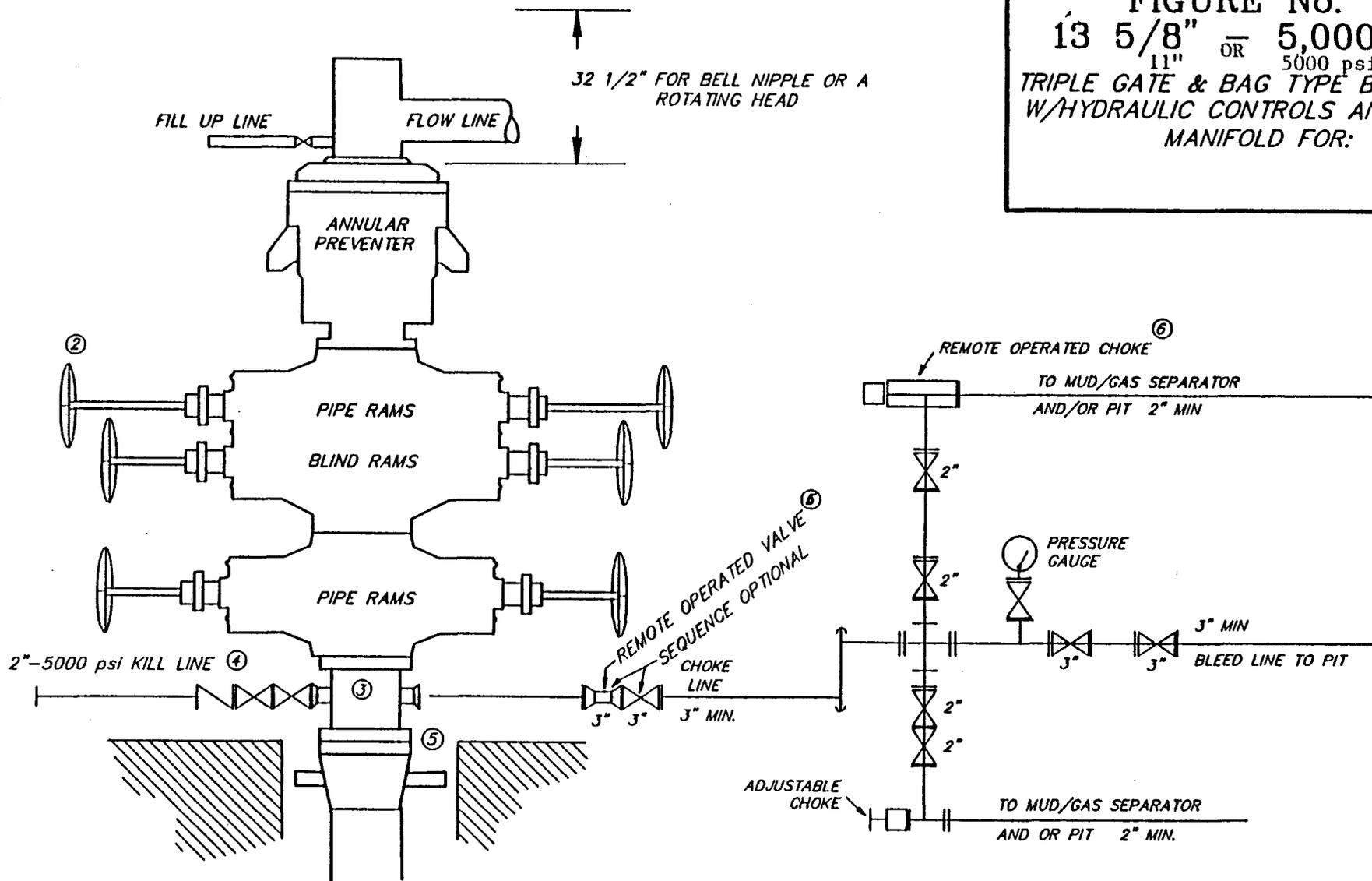
- a. Topography: Flatland.
- b. Soil Characteristics: Bentonitic clays and sand.
- c. Flora: Pasture grasses, sagebrush, and cacti.
- d. Fauna: Domestic: Cattle
Wildlife:- Deer, Rodents, Grouse, etc.
- e. Surface Use: Agriculture, irrigated alfalfa
- f. Surface Owner: Irvin Huston (801) 722-3155

11. LEASEE'S OR OPERATOR'S REPRESENTATIVE:

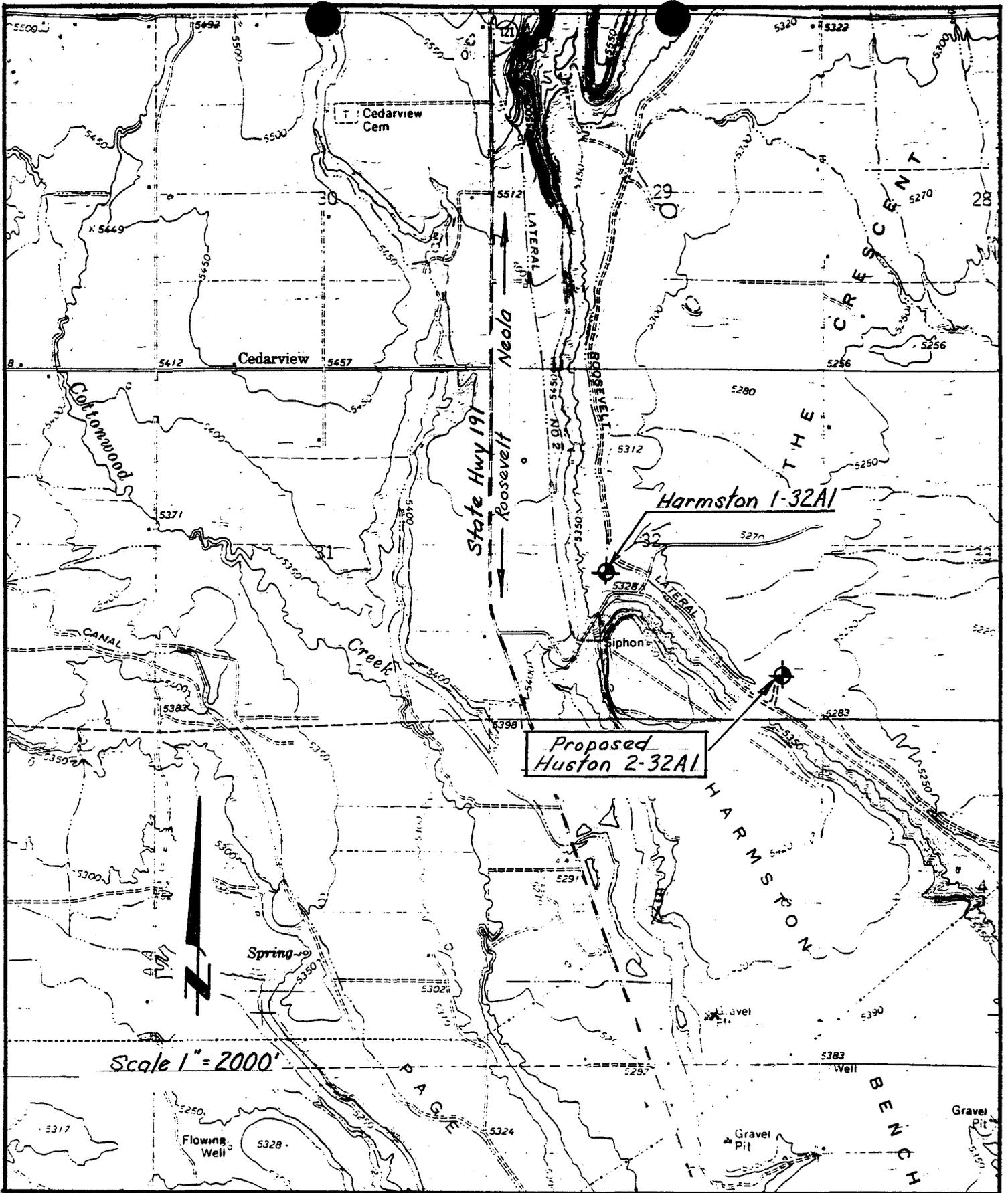
George P. SanFilippo, Vice President of Western Operations
Danny L. Laman, Area Drilling Foreman (801) 353-4397

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

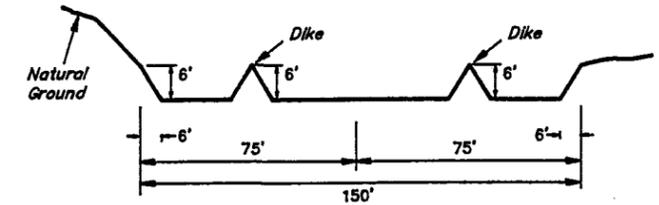
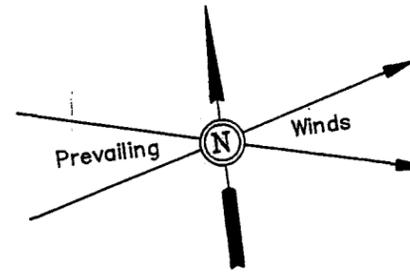
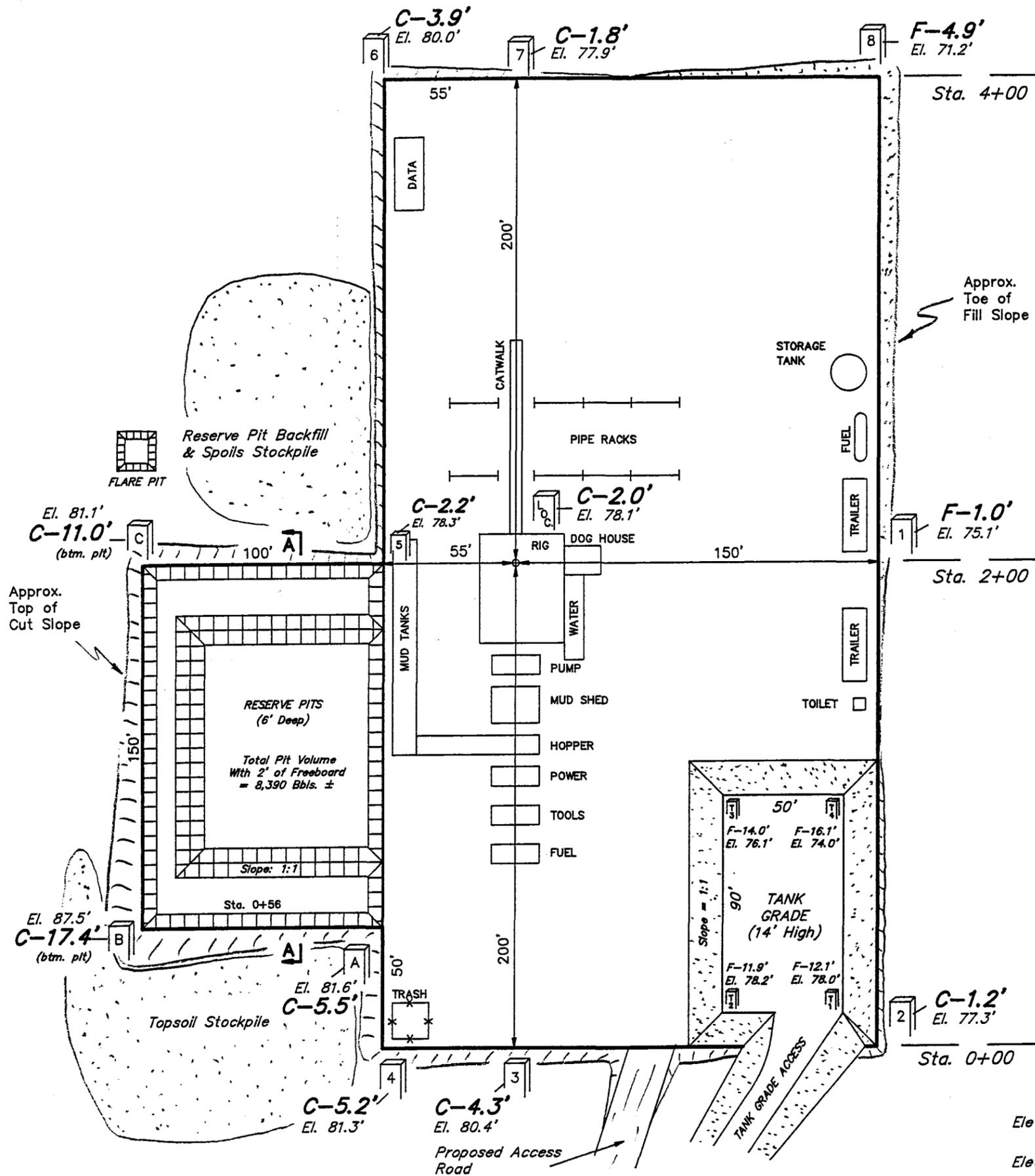
For the Proposed: HUSTON 2-32A1

660' FSL & 660' FEL SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 32, T15, R1W, Duchesne County, Utah
 Submitted to Utah Division Oil, Gas, & Mining by Pennzoil Explor. & Prod. Co.

PENNZOIL EXPLR. & PROD. CO.

LOCATION LAYOUT FOR

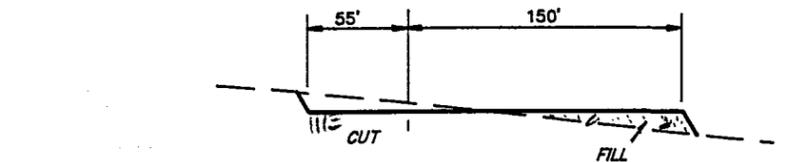
HUSTON #2-32A1
SECTION 32, T1S, R1W, U.S.B.&M.



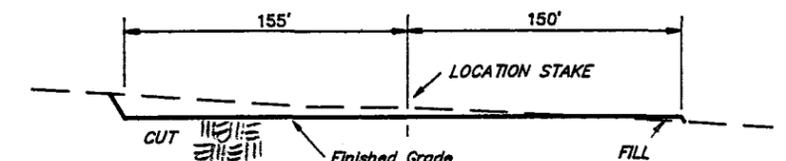
SECTION A-A
NO SCALE

SCALE: 1" = 50'
DATE: 6-12-91
Drawn By: T.D.H.

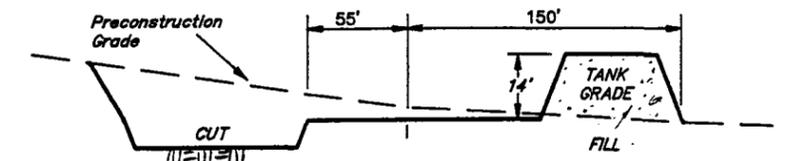
X-Section Scale
1" = 40'
1" = 100'



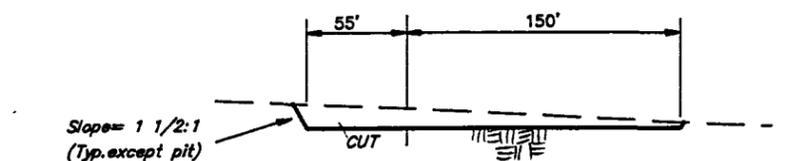
STA. 4+00



STA. 2+00



STA. 0+56



STA. 0+00

TYP. LOCATION LAYOUT TYP. CROSS SECTIONS

APPROXIMATE YARDAGES

(12") Topsoil Stripping	=	3,600 Cu. Yds.
Remaining Location	=	8,220 Cu. Yds.
TOTAL CUT	=	11,820 CU.YDS.
FILL	=	5,950 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	=	5,560 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	4,930 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	630 Cu. Yds.
(To be used for Access Construction)		

Elev. Ungraded Ground at Location Stake = 5278.1'

Elev. Graded Ground at Location Stake = 5276.1'

CONFIDENTIAL

OPERATOR Purzold Exploration Prod. N-9885 DATE 6-20-91

WELL NAME Huston N-30A1

SEC SESE 30 T 1S R 1W COUNTY Duchesne

43-013-31303
API NUMBER

tee (4)
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

80,000
81065280

NEAREST WELL

LEASE

FIELD

USBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

falls within guidelines of Cause No.

Water Permit

Permit 6-20-91

APPROVAL LETTER:

SPACING:

R615-2-3

N/A
UNIT

R515-3-2

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. Bangarter
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: Huston 2-32A1 Well, 660 feet from the South line, 660 feet from the East line, SE SE, Section 32, Township 1 South, Range 1 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
Huston 2-32A1
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 43-013-31323.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
we14/1-20



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

December 9, 1992

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

Gentlemen:

Re: Huston 2-32A1, Sec. 32, T. 1S, R. 1W, Duchesne County, Utah
API No. 43-013-31323

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded, effective immediately.

Please note that 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
WOI219