

Utah State

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
Willard Pease Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 548, Grand Junction, Colo. 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface *SE* **Lot 5 (NE.NW.)Sec.19,T.13 S.,R.11 E.,S.L.M.**
 At proposed prod. zone **2060' from W-line & 683' from N-line**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approx. 8 miles NE of Price, Utah

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

16. NO. OF ACRES IN LEASE
2451

17. NO. OF ACRES ASSIGNED TO THIS WELL
160 acres

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

19. PROPOSED DEPTH
4850'

20. ROTARY OR CABLE TOOLS
Rotary tools.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
Grd.:6850'; K.B.:6860'

22. APPROX. DATE WORK WILL START*
Nov. 1, 1975

5. LEASE DESIGNATION AND SERIAL NO.
U-17740

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
Price #5

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NE, NW, Sec. 19-13S-11E S.L.M.

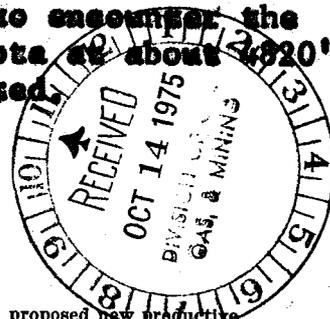
12. COUNTY OR PARISH
Grand

13. STATE
Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10 3/4"	7 5/8"	26.40#	300'	100 sks.

It is planned to drill a well at the above location to test the oil and gas potential of the various sand reservoirs in the Ferron member, and in the Dakota formation. It is planned to drill a 6 3/4" hole below the surface casing with rotary tools, using air and/or air-mist for circulation. About 300 ft. of surface casing (7 5/8") will be set and cemented with returns to the surface. A blowout preventer and rotating head will be installed on the top of the surface casing for well control. It is expected to encounter the top of the Ferron member at about 4260'; the top of the Dakota at about 4020'. If the well is successful, 4 1/2" casing will be set and cemented.



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

24. SIGNED *H. Don Jingley* TITLE Consulting Geologist DATE Oct. 10, 1975

(This space for Federal or State office use)

PERMIT NO. 43-0006-38034 APPROVAL DATE _____

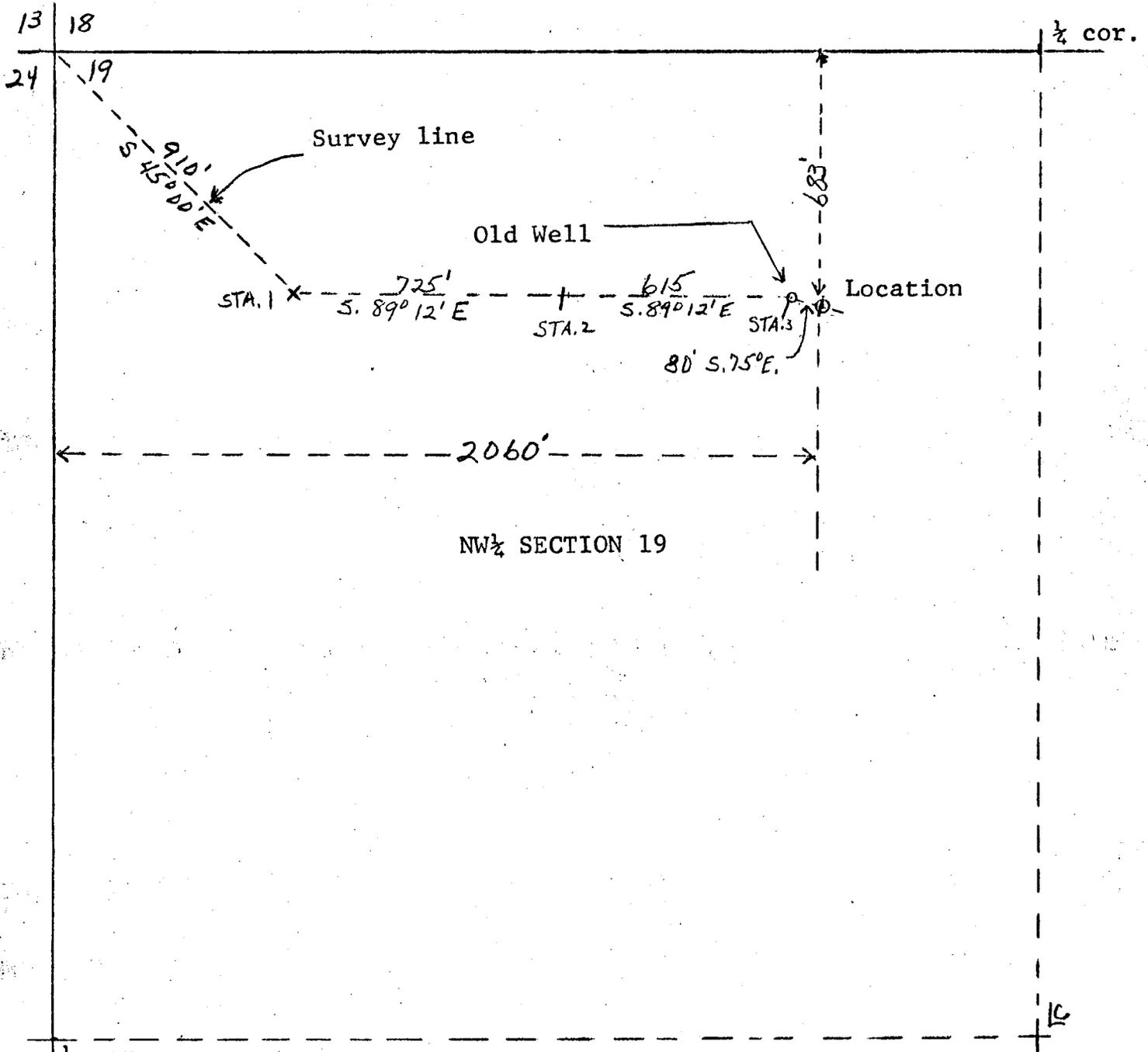
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

LOCATION PLANS FOR
WILLARD PEASE OIL & GAS CO.
PRICE #5 WELL
CARBON COUNTY, UTAH

1. A survey plat showing the location of the proposed well is attached. (Plat No.1). A portion of the topographic map of the area is attached as Map No.1. This map shows the route to the well from Price, Utah. There is a present road (trail) from the Deadman Creek road to the well site.
2. The proposed well site is on or adjacent to a former well site, the S.D. King well; so no additional road building will be required. The old road will simply have to be re-graded.
3. The map shows the location of other dry holes or proposed locations in the area.
4. See 1 and 2 above.
5. A plan for the location of the completion equipment, in the event the well is successful, is shown on Plat No.2.
6. It is planned to haul water for the drilling operations and rig use from the town of Price or from Deadman Creek (if it is running) by truck.
7. A plan for the drilling equipment placement is shown on Plat No.3. This plat shows the reserve pit and trash or burn pit. The dust cuttings from the drilling operations will be blown into the reserve pit, along with excess water. The trash and burnable material will be placed in the burn pit. At the completion of the well these pits will be folded-in and levelled.
8. See location of house trailers on Plat No.3. No other camp facilities will be needed.
9. There are no air strips near the well site; however, the Price airport is only about four miles from the well site.
10. See Plat No.3 for the drilling equipment layout.
11. There is little or no topsoil at the well site. The area is near the base of a high Mesaverde cliff and on a slope which descends rapidly to the valley to the south. Since the proposed location is on a former well site, there will be little additional dirt work required. Some new pits will have to be dug; but little additional work will be needed. Juniper trees surround the location, and some of these may have to be pushed over to enlarge the location area. After the well is completed, the site will be cleaned and levelled, and the pits will be covered.
12. As can be seen from the map, the general area is quite rugged with high cliffs and deeply incised canyons. Drill sites must be confined to the less rugged slopes or in the canyons. Rocks belonging to the Mesaverde and Mancos formations are exposed around the cliffs and on the surface of the well site. Coal deposits are found in the general area but none are located on or near the well site. There are no gas or oil pipelines in the immediate area.

LOCATION PLAT FOR
 WILLARD PEASE OIL AND GAS COMPANY
 PRICE #5 WELL
 NE.NW.SEC.19-13S-11E-SLM
 CARBON COUNTY, UTAH
 (2060' from W-line & 683' from N-line)
 Elev.: 6740' grd.



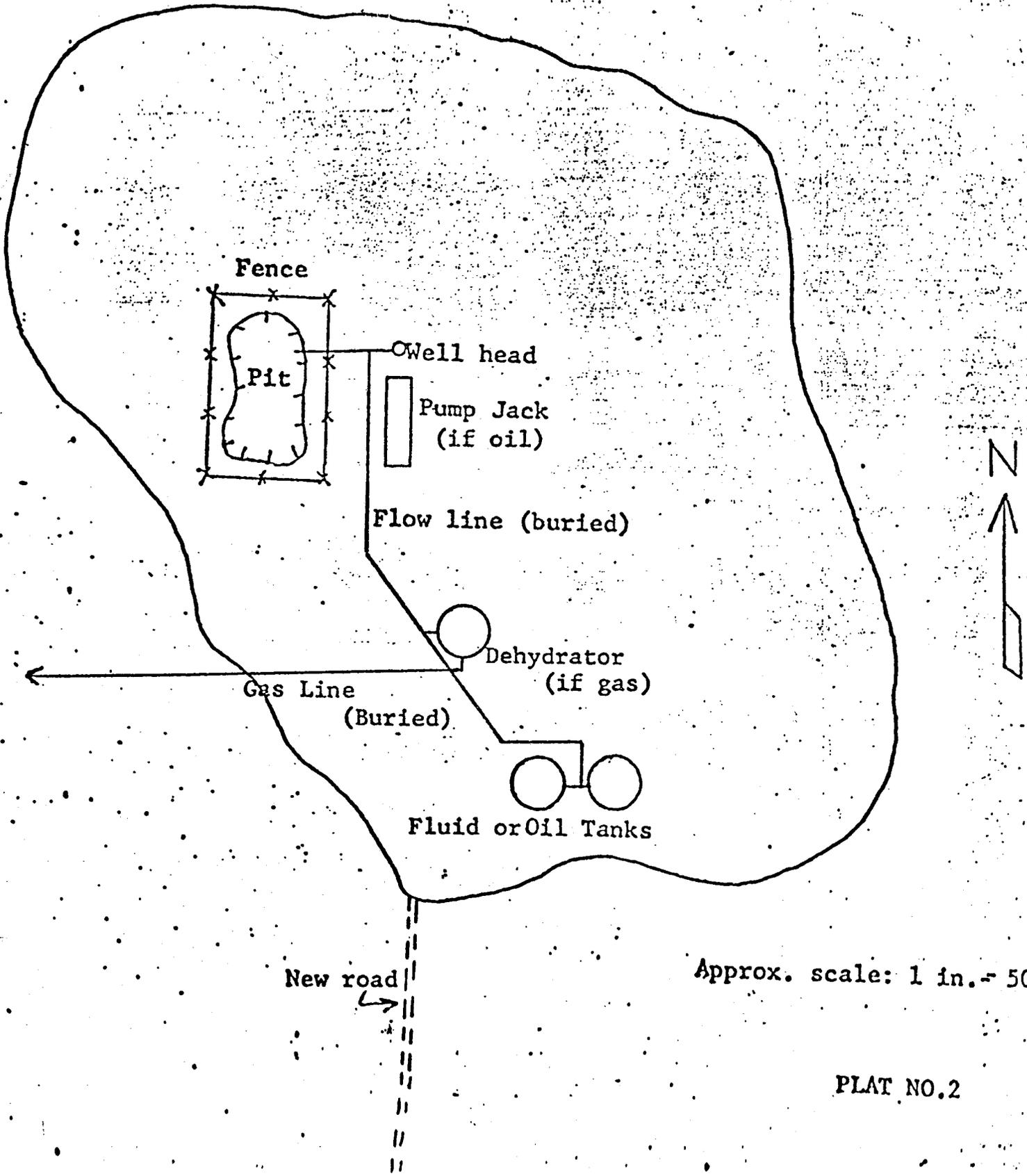
I, W. Don Quigley, do hereby
 certify that this plat was
 plotted from notes of a field
 survey made by me on Sept. 30, 1975.

Scale: 1 in. = 400 ft.
 Date: Oct. 10, 1975
 Surveyed by: W. Don Quigley

W. Don Quigley

PLAT NO. 1

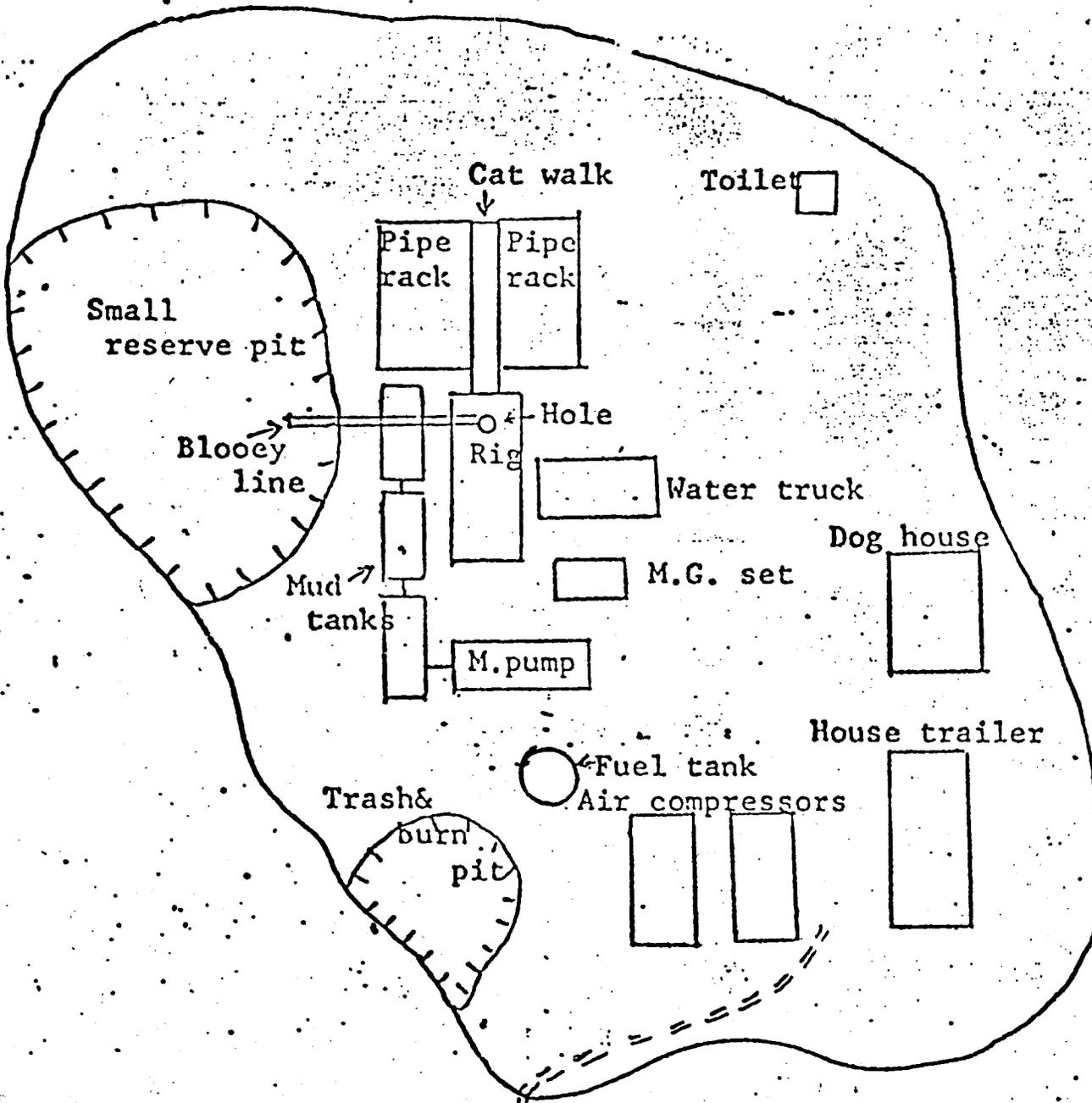
PLAN FOR COMPLETION EQUIPMENT
WILLARD PEASE OIL & GAS CO.
PRICE #5 WELL
CARBON COUNTY, UTAH



Approx. scale: 1 in. = 50 ft.

PLAT NO.2

LAYOUT OF DRILLING EQUIPMENT
WILLARD PEASE OIL & GAS CO.
PRICE #5 WELL
CARBON COUNTY, UTAH



New road

Approx. scale: 1 in. = 50 ft.

PLAT NO. 3

WELL CONTROL EQUIPMENT FOR
WILLARD PEASE OIL & GAS CO.
PRICE #5 WELL
CARBON COUNTY, UTAH

The following control equipment is planned for the above designated well:

1. Surface Casing:

- A. Hole size for surface casing is 11".
- B. Setting depth for casing is approx. 250'.
- C. Casing specs. are: 7 5/8, J-55, 26.40#, 8 rd. thread new or used.
- D. Anticipated pressure at setting depth is approx. 50 #.
- E. Casing will be run and cemented with 100sks of cement with returns to the surface.
- D. Top of casing will be just above ground level.

2. Casing Head:

Flange size: 8 (nominal); A.P.I. pressure rating: 2000#; Cameron or OCT; new or used; equipped with two 2" ports with nipples and 2", 1500# W.P. valves. Casing head and valves set above ground.

3. Intermediate Casing:

None planned.

4. Blowout Preventers:

- A. Double rams; hydraulic; one set of blind rams; one set of rams for 3 1/2" drill pipe; #8 flange or spool with #8 to #10 flange; 3000# W.P.; Series 900; equipped with mechanical wheels and rods for back-up; set on top of casing head flange and securely bolted down and tested for leaks up to 1500# pressure; Cameron, Shaffer, or equivalent.
- B. Rotating head: 10"; set on top of blowout preventer and bolted securely; complete with Kelly drive, pressure lubricator; 3 1/2" stripper rubber for 1500# W.P.; Shaffer or equivalent.
- C. The fill and kill lines (2") are to be connected thru

the 2" valves on the casing head.

5. Auxillary Equipment:

A float valve (2000#) is to be used in the bottom drill collar at all times. A string-float will also be used in the drill pipe and kept within 200'-300' below the surface at maximum.

6. Anticipated Pressures:

The shut-in pressure of the gas zones in wells near to the proposed well is about 750 lbs. at depths of around 2500'. Pressures of all other zones should be only about 200-300# more than this.

7. Drilling Fluids:

Air will be used down thru the Dakota sands and then may be converted to mud to keep control of the thick bentonite zones in the upper Cedar Mt. formation at depths of 2900'-3600'

8. Production Casing:

A. Hole size: 6 3/4"

B. Approximate setting depth: 4300' which will be thru the gas sand but the casing will be cemented above the sand.

C. Casing specs: 4 1/2" O.D.. J-55, 9.50#, 8-rd. thread, new or used.

D. Casing will be run with a Lynes packer set above the top of the gas sand and one or two joints of casing below the packer (plugged at the bottom). The bottom of the casing will be set on the bottom of the hole. The casing will then be cemented above the packer thru perforations or thru a D-V tool with 50 sacks of cement. The cement will be allowed to cure for 24 hrs., and then the casing will be set on the slips (4 1/2") in the casing head, holding at least 10,000#, and cut off. A tubing head, 8" to 2" series 600, 2000# W.P. will be installed on the casing head flange and bolted securely.

E. Tubing, 2 3/8" O.D., upset, J-55, 4.70#, new, will be run with a 3 1/2" bit and the plug will be drilled out. The bit will then be removed and a seating nipple and and perforated joint will be installed on the bottom of the tubing and run back in the hole and landed just below the Lynes packer. The tubing xixx head flange will be connect to the tobing and secured to the top of the head. A 2" master valve will be installed on top. About 1/2 of the water will then be swabbed out of the casing and tubing, and the well will be perforated below the bottom of the tubing,

DIVISION OF OIL, GAS, AND MINING

FILE NOTATIONS

*Filed 1/15/12
Copy
PC*

Date: October 15
Operator: William Lease Oil & Gas
Well No: Federal #5
Location: Sec. 19 T. 135 R. 11E County: Madison Carbon

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

Checked By:

Administrative Assistant: [Signature]

Remarks: No other wells in Township -

Petroleum Engineer/Mined Land Coordinator: [Signature]

Remarks:

Director: 7

Remarks:

Include Within Approval Letter:

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

Letter Written

October 20, 1975

Willard Pease Oil & Gas Company
Box 548
Grand Junction, Colorado 81501

Re: Well No. Price Federal #5
Sec. 19, T. 13 S, R. 11 E,
Carbon County, Utah

Gentlemen:

Insofar as this office is concerned, approval is hereby granted to drill the above well in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

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

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

or

CLEON B. FEIGHT - Director
HOME: 466-4455

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

The API number assigned to this well is 43-007-30034.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
DIRECTOR

CBF:sw

PLEASE NOTIFY THIS DIVISION WITHIN 24 HRS. OF SPUDDING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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 DRILL DEEPEN PLUG BACK

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

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 Willard Pease Oil & Gas Company

3. ADDRESS OF OPERATOR
 P. O. Box 548, Grand Junction, Colo. 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
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 At proposed prod. zone 2060' from W-line & 683' from N-line

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx. 8 miles NE of Price, Utah

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

16. NO. OF ACRES IN LEASE
 2451

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160 acres

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

19. PROPOSED DEPTH
 4850'

20. ROTARY OR CABLE TOOLS
 Rotary tools.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 Grd.: 6740'; K.B.: 6250'

22. APPROX. DATE WORK WILL START*
 Nov. 1, 1975

5. LEASE DESIGNATION AND SERIAL NO.
 U-17740

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Federal

9. WELL NO.
 Price #5

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 NE.NW. Sec. 19-13S-11E S.L.M.

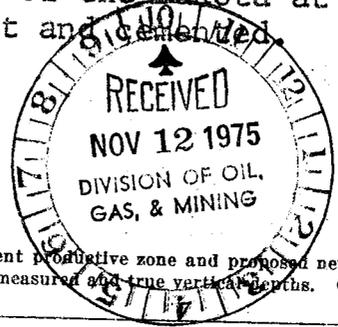
12. COUNTY OR PARISH
 Grand

13. STATE
 Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10 3/4"	7 5/8"	26.40#	300'	100 sks.

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SIGNED H. Don Gingley TITLE Consulting Geologist DATE Oct. 10, 1975

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY E. W. [Signature] TITLE DIVISION OF OIL, GAS, & MINING DATE NOV 10 1975

CONDITIONS OF APPROVAL, IF ANY: _____

APPROVAL NOTICE - STATE O & G - UTAH

*See Instructions On Reverse Side

License

U-17740

Well No. & Location

Price #5 NE/NW SEC 19-T138
RILEY GRAND COUNTY, UTAH

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-3

1. Proposed Action

Willard Pease Oil & Gas Company proposes to drill an exploratory gas well with rotary tools to the approx depth of 4850'. To clear & level a drilling location 190' x 200' and to construct a reserve pit 25' x 75'. No new access road will be necessary, however improvements will be required on the existing road.

2. Location and Natural Setting (existing environmental situation)

The proposed well site is approx eight miles north east of Price, Utah near the Dead Man Creek drainage.

The new well will be 80' to the east of a dry hole, and will be partially on an existing loc. or disturbed area.

The area is generally steep rocky ridges with gullies & washes. The site is relatively flat and will require very little surface disturbance except for the reserve pit.

Vegetation consists of juniper pine and juniper trees, sage brush and native grasses.

Wildlife found in the area are muls deer & the usual desert fauna.

There are no known historical sites and no evidence of archeological sites was noted.

NOTE - The dry hole marker 80' to the west of well loc. will be cut off to allow additional room for pipe racks.

3. Effects on Environment by Proposed Action (potential impact)

- The Drilling AND completion of a dry hole or failure will have little long term effect on the area. The location will be easy to rehab as it is almost flat
- There will be the loss of some natural vegetation
 - Temporary disturbances of live stock & wildlife
 - Minor amount of air pollution created by the drilling rig AND associated traffic
 - Minor dust problem as the well will be drilled with air over to furnish down spout on blowby line to attempt to keep dust at a minimum

4. Alternatives to the Proposed Action

Not Approving the APD

The well is partially on an existing PAD therefore surface damage will be kept to a minimum if this loc. is used

5. Adverse Environmental Effects Which Cannot Be Avoided

- TEMPORARY disturbance of live stock & wildlife
- MIND- AMOUNT OF AIR POLLUTION (TEMP)
- MIND- DUST problem during drilling
- TEMPORARY MESS
- LOSS OF NATURAL VEGETATION

6. Determination

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

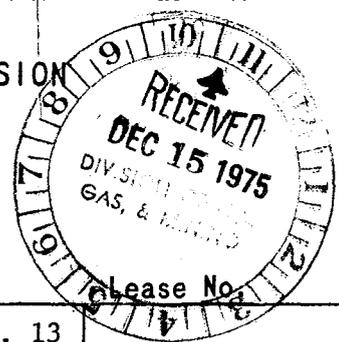
Date Inspected 11-3-75

Inspector Bill [Signature]

[Signature]

U.S. Geological Survey,
Conservation Division
Salt Lake City District
Salt Lake City, Utah

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION



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

k

D

Well

Location

Willard Pease Oil & Gas Co. Federal Price #5

2060'FWL, 683'FNL (NE $\frac{1}{4}$ NW $\frac{1}{4}$) sec. 19, T. 13 S., R. 11 E., SLM, Grand Co., Utah
 Gr. El. 6740'

U-17740

1. **Stratigraphy and Potential Oil and Gas Horizons.** The surface rocks are Mancos Shale. Willard Pease O&G Company Price #3 Mesa (Gr.El. 6685'), in the same sec., reported the following tops: Ferron-4162', Dakota-4695', Cedar Mountain-4370'. The sand reservoirs in the Ferron Member of the Mancos and the Dakota Formation will be tested for oil and gas.
2. **Fresh Water Sands.** Probably no fresh water will be encountered in the subsurface.
3. **Other Mineral Bearing Formations.** Within area considered valuable prospectively (Coal, Oil Shale, Potash, Etc.) for coal although well will spud stratigraphically below important Mesaverde coals. Determination based on Ferron coals which are probably thin, lenticular, and discontinuous in this area.
4. **Possible Lost Circulation Zones.** Unknown.
5. **Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.** Willard Pease Oil and Gas Co. #2, sec. 15, same township, had excessive caving of hole below 4500 ft. and had to abandon same. A certain amount of trouble could be avoided by mudding-up as soon as the Dakota Fm. is penetrated. Air mist with soap and water tend to increase caving problems.
6. **Possible Abnormal Pressure Zones and Temperature Gradients.** Unknown.
7. **Competency of Beds at Proposed Casing Setting Points.** Weathered shale will cave readily.
8. **Additional Logs or Samples Needed.** None.
9. **References and Remarks** Remote from KGS. USGS Bull. 793, Clark, F. R.

COPY RETAINED DISTRICT OFFICE

Date: December 11, 1975 STATE O&G

Signed: *Ronald E. Hummelson*

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

State **UT 3**
Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
Willard Pease Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 548, Grand Junction, Colorado 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface **NE. 1/4 Sec. 19, T. 13 S., R. 11 E., S.L.M.**

At top prod. interval reported below

At total depth **2060' from W-line & 683' from N-line**

14. PERMIT NO. **43-007-30034** DATE ISSUED _____

15. DATE SPUNDED **Dec. 2 '75** 16. DATE T.D. REACHED **Dec. 9 '75** 17. DATE COMPL. (Ready to prod.) **Dec. 10 '75**

18. ELEVATIONS (DF, REB, RT, GR, ETC.)* **Ord. : 6740'; K.B. : 6750'**

20. TOTAL DEPTH, MD & TVD **4900'** 21. PLUG, BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* **none**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
none

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gamma-Density-Neutron log

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
6 5/8"	24.00#	323' K.B.	9 7/8"	90 lbs cement	none

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
none							

31. PERFORATION RECORD (Interval, size and number)
none

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) _____ AMOUNT AND KIND OF MATERIAL USED **none**

33.* PRODUCTION
DATE FIRST PRODUCTION _____ PRODUCTION METHOD **none** (stripping, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
none							

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

35. LIST OF ATTACHMENTS
Drilling History and Geologic Report

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

SIGNED **W. Don Gungley** TITLE **Consulting Geologist** DATE **Jan. 31, 1976**

* (See instructions and spaces for Additional Data on Reverse Side)

5. LEASE DESIGNATION AND SERIAL NO.
U-17740

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Federal

9. WELL NO.
Price #1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., S., OR BLOCK AND SURVEY OR AREA
Sec. 19-13S-11E-SLM

12. COUNTY OR PARISH
Carbon

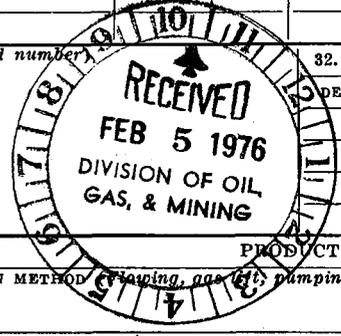
13. STATE
Utah

19. ELEV. CASINGHEAD _____

23. INTERVALS DRILLED BY _____ ROTARY TOOLS _____ CABLE TOOLS _____

25. WAS DIRECTIONAL SURVEY MADE
no

27. WAS WELL CORED
no



DRILLING HISTORY
AND
GEOLOGIC COMMENTS
ON
WILLARD PEASE OIL & GAS CO.
PRICE #5 WELL
CARBON COUNTY, UTAH

By

W. Don Quigley
Consulting Geologist
Salt Lake City, Utah

January 30, 1976

DRILLING HISTORY
OF
WILLARD PEASE OIL & GAS CO.
PRICE #5 WELL
CARBON COUNTY, UTAH

Operator: Willard Pease Oil & Gas Co., P.O. Box 548,
Grand Junction, Colorado 81501

Contractor: Willard Pease Drilling Co., P.O. Box 548,
Grand Junction, Colorado 81501

Location: NE. NW. Sec. 19, T 13S., R 11E., S.L.M., Carbon
County, Utah (2060' from W-line and 683' from
N-line)

Elevations: 6740' grd.; 6750' K.B.

Spudded-in: Dec. 2, 1975

Finished Drilling: Dec. 9, 1975

Total Depth: 4900'

Surface Casing: 11 jts. of 7 5/8", 24.00#, J-55 casing set
at 323' K.B. and cemented with 90 sks cement
with returns to the surface.

Producing Formation: none

Producing Zones: none

Abandoned: Dec. 10, 1975.

History

Dec. 1: Moving rig and rigging up.

- Dec. 2: Finished rigging-up. Drilled rat hole. Drilled mouse hole. Began drilling surface hole for conductor pipe.
- Dec. 3: Set conductor pipe (10 3/4") at 35' and cemented with 34 sks of cement. Waited on cement to set. Nippled-up and began drilling ahead with 9 7/8" bit and air. Drilled to 90'.
- Dec. 4: Drilled 90' to 358' (268'). Came out of hole and started running surface casing.
- Dec. 5: Ran 11 joints of 7 5/8", 24.00#, J-55 casing and landed at 323 ft. K.B. and cemented with 90 sacks of type "G" cement w/2% CaCl with returns to the surface. Waited on cement. Cut off casing and nipped-up.
- Dec. 6: Drilled 358' to 948' (590'). Finished nipping-up and blew hole dry with air. Began drilling ahead with 6 3/4" bit and air. Made rd-trip at 948' for new bit. Bit #3 (Smith-L4HJ) made 590' (358' to 948') in 16 1/2 hrs. Drilled at an avg. rate of 36 ft/hr.
- Dec. 7: Drilled 948' to 2545' (1597'). Started out of hole at 2545' for new bit. Bit #4 (Smith-H7J) made 1597' (948' to 2545') in 22 hrs. Drilled at avg. rate of 73 ft/hr.
- Dec. 8: Drilled 2545' to 3970' (1425'). Finished making trip for Bit #5. Drilling ahead at avg. rate of 70 ft/hr. in Mancos sediments with air.
- Dec. 9: Drilled 3970' to 4900' (930'). Est. top of Ferron at about 4240' due to reverse drilling break. Had flare of gas (10' flare) at 4400' for about 5 secs. Had another flare of gas at 4510 ft. for about 10 secs. Est. top of Dakota at 4850' due to a reverse

drilling break. Samples of the Dakota sand show that the sand was very thin and tight, and contained no shows. The top of the Cedar Mountain was very bentonitic and the hole started to get tight and sticky, so it was decided to discontinue the drilling before getting into trouble. The logging company (Birdwell) was called to log the hole. A 1½ hr. shut-in period and test of the gas flow was made and found no measurable amount of gas or pressure build-up. Came out of hole with bit. Bit #5 (Smith-S88) made 2356' (2545' to 4901') in 36½ hrs. Drilled at an avg. rate of 65 ft/hr.

Dec. 10: Logged well. Ran Gamma-Neutron-Density log. Finished logging at 4:30 P.M. Decided to plug and abandon hole. Filled hole with 9#/gal. mud and placed the following plugs:

Plug #1 - 25 sks placed at 4900'-4750', across Dakota formation and at bottom of hole.

Plug #2 - 50 sks placed at 4400' to 4200', across Ferron member.

Plug #3 - 25 sks placed at 350' to 250', across bottom of surface casing.

Plug #4 - 10 sks placed in top of surface casing with well marker.

Dec. 11-

15: Moved rig out, filled rat hole and mouse hole; folded in reserve pit, and cleaned and levelled location.

GEOLOGIC COMMENTS
ON
WILLARD PEASE OIL & GAS CO.
PRICE #5 WELL
CARBON COUNTY, UTAH

The Price #5 well was a 75-ft. offset to a previous well (#1 Deadman Gov't) drilled by S.D. King in 1956. The #1 Deadman well was drilled to a depth of 4885' and bottomed in the top of the Cedar Mountain formation. The well was reported to have had a substantial flow of gas from the Ferron sandstone prior to mudding up and then had a later drill-stem-test of a Ferron section which had gas to the surface (TSTM) and recovered 800 ft. of water and 340 ft. of mud in 2 hrs. The electric log of the well also showed some well developed sand bodies with apparent porosity.

The Price #5 well was designed to check the gas show in the King well and to complete the well, if the indicated gas was actually present. Due to the circumstances surrounding the King well and due to the mechanical problems involved in the drilling of the well, it was felt that a new well drilled completely with air to prevent any damage to the formation would have a good chance of success. Unfortunately, the amount of gas reported in the King well was not present in the Price #5 well even though the latter well was drilled completely with air and was dry all the way. It is quite possible, that the reported gas volume in the King well was exaggerated.

The Price #5 well contained some good sand bodies in the Ferron which were intermingled with thin coal beds and carbonaceous shale; but the sands were generally low in porosity and quartzitic. Some gas was encountered and flared occasionally on connections but the volume was too small to measure, the flow was discontinuous; and there was no pressure build-up. It is quite obvious that the gas was emanating from the coal beds and did not constitute any measurable volume or reservoir of gas.

The Dakota sand in the Price #5 well was very thin, tight and contained no shows. The top of the Cedar Mountain formation, like most of the other wells drilled in the area, was mostly bentonite and caused sticking and hole problems; thus the hole was discontinued at a depth of 4900'.

There was very close correlation between the two wells. The formation tops, thicknesses and datum points encountered in the Price #5 well as determined from the electric log are as follows:

<u>Formation</u>	<u>Depth to Top</u>	<u>Thickness</u>	<u>Datum</u>
Mancos	Surface	4242'	6750' K.B.
(Ferron Member)	4242'	248'	2508'
(Tununk Member)	4490'	360'	2260'
Dakota	4850'	20'	1900'
Cedar Mountain	4870'	—	1880'

It should be noted that the surface elevation reported on the King well (6850 grd.) is 100 ft. too high. Likewise, the reported top of the Dakota in the King well is in error and should be at 4855' instead of at the reported depth of 4815'; and the top of the Cedar Mountain is at 4870'.

The Price #5 well is the last of a series of eight wells that have been drilled on the Price block with the Ferron sandstone member as the principal objective in each well. None of these wells have been successful. Whereas, these wells were drilled at random location without the benefit of prior detailed geophysical and scientific study, at least one or more should have been partially successful, even on a random basis, if the Ferron sandstone constituted much of a natural gas reservoir in the area. There can be no doubt now that any future drilling on the block must be directed toward the deeper and older objectives in the lower Triassic, Permian, Pennsylvanian, or Mississippian sediments and should be conducted only after a detailed geophysical investigation of the block has been

accomplished to assist in possibly locating the most favorable position for a deep test.

W. Don Quigley

W. Don Quigley
Consulting Geologist
A.A.P.G. Cert. #1296

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-17740

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
Price #5

10. WILD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND
SERIAL NO.
Sec. 19-13S-11E-SLM

1. OIL WELL GAS WELL OTHER **Dry Hole**

2. NAME OF OPERATOR
Willard Pease Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 348, Grand Junction, Colo. 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
**NE.NW.Sec.19,T.13 S.,R.11 E.,S.L.M.
2060' from W-line & 683' from N-line**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Grd.:6740';K.B.:6750'

12. COUNTY OR PARISH
Carbon

13. STATE
Utah

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

NOTICE OF INTENTION TO:

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

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

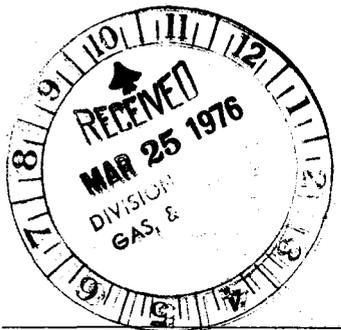
WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

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

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

Subject well has been plugged and abandoned according to plan submitted on Dec.9,1975 and approved orally by U.S. Geological Survey. Later inspection of the site on Jan.14,1976 revealed that some of the surface work had not been completed and that the casing cement plug was not holding. As per U.S.G.S. letter of Feb.11,1976, the work on the well and well site has now been completed. A new plug was placed in the casing, a well marker and plug placed in the top of the casing, and the location has been cleaned levelled and restored.



18. I hereby certify that the foregoing is true and correct
SIGNED *H. How Gungley* TITLE **Cons. Geol.** DATE **Mar.24,.976**

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-17740

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER Dry Hole'

7. UNIT AGREEMENT NAME

NA

2. NAME OF OPERATOR
Willard Pease Oil & Gas Company

8. FARM OR LEASE NAME

Federal

3. ADDRESS OF OPERATOR
570 Kennecott Bldg., Salt Lake City, Utah 84133

9. WELL NO.

Price #5

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

10. FIELD AND POOL, OR WILDCAT

Rangely

NE.NW.Sec.19, T13S.R11E,S.L.M.
2060'fr W-line & 683'fr N-line

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

NE.NW. Sec.19, 13S-11E
S.L.M.

14. PERMIT NO.

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

6740'grd.; 6750'K.B.

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) _____

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

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.)*

Subject well was abandoned according to detail report submitted with 'Well Completion Report' form 9-330, on Jan.31,1976. Repeating this information is as follows:

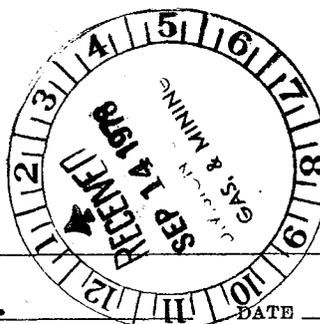
Plug #1--25 sks placed at 4900'-4750', across Dakota formation and at bottom of hole.

Plug #2--50 sks placed at 4400'-4200', across Ferron member.

Plug #3--25 sks placed at 350'to 250', across bottom of surface casing.

Plug #4--10 sks place in top of surface casing with well marker.

Location has been cleaned, levelled, and reseeded. The big rocks have been moved back on location as per BLM, Price, request. The road has also been water-blocked.



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

SIGNED

W. Howard Gungley

TITLE

Cons. Geol.

DATE

Sept. 13, 1978

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: