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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\*

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Form approved. Budget Bureau No. 42-R1425.

SEP 27 1982

5. LEASE DESIGNATION AND SERIAL NO. C-25632
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Federal
9. WELL NO. 2-31
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 31, T9N-R81W
12. COUNTY OR PARISH Jackson
13. STATE Colorado

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ] PLUG BACK [ ]
b. TYPE OF WELL OIL WELL [X] GAS WELL [ ] OTHER [ ] SINGLE ZONE [ ] MULTIPLE ZONE [ ]
2. NAME OF OPERATOR PETRO ROUTT, INC
3. ADDRESS OF OPERATOR P.O. Box 2103, Steamboat Springs, Colorado 80477
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) At surface 1724' FWL & 450' FSL (SE 1/4 SW 1/4)
At proposed prod. zone
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 16.4 miles WSW of Walden, Colorado
15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 450'
16. NO. OF ACRES IN LEASE 640
17. NO. OF ACRES ASSIGNED TO THIS WELL 40
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None
19. PROPOSED DEPTH 640'
20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 8295' GL
22. APPROX. DATE WORK WILL START\*

23. PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Includes rows for 9-7/8" and 6-1/4" hole sizes.

- 1. The surface formation is Graneros formation.
2. Estimated tops of important geological formations: Dakota: 510', Lakota: 580', Morrison: 630'
3. Estimated tops of oil and water bearing zones are as follows: Dakota: 510', Lakota: 580'
4. Proposed Casing Program: 0-100' 7" 20 lb, J-55, 8rd th, ST&C, new or used casing and cement to surface w/50 sx. regular cement. 0-640' 4 1/2" 9.5 lb, J-55, 8rd th, ST&C, new casing and cement to surface w/100 sx. 50-50 Pozmix w/10% salt and 2% gel.

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.

SIGNED Robert W. Peterson TITLE Petroleum Engineer DATE 9-23-82

(This space for Federal or State office use)

PERMIT NO. 821582 APPROVAL DATE Exp. JAN 29 1983

APPROVED BY M. Rogers TITLE O & G Cons. Comm. DATE OCT 1 1982

CONDITIONS OF APPROVAL, IF ANY:



00280712

\*See Instructions On Reverse Side

A.P.I. NUMBER 05 057 6266

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5. The casinghead will be a 7", 1000 psi working pressure with a 6" x 600 series flange, 2000 psi working pressure. The BOP will be a 6", 600 series, 2000 psi working pressure type with 3" pipe rams and blind rams with a remote hydraulic closing unit. The 6", 600 series rotating head will be placed on top of the BOP. The blowout preventor arrangement will include a kill line and a choke manifold as shown in Exhibit "G" as a schematic diagram. The BOP & surface casing will be tested to 500 psi prior to drilling out the cement plug in the surface casing and once each day while drilling with mud.
6. Mud Program:
  - 0-100' Use spud mud; gel with a little lime to aid in settling and flocculating drilled solids.
  - 0-640' Drill with air. If the hole loads up with water, convert to mud as a circulating medium. Use a polymer mud maintaining the mud weight 8.6 to 9.2 lbs/gal and viscosity of 36 to 45 sec/qt and water loss 5 cc per qt or less. Polymer mud should really have 0 water loss.
7. The following auxilliary drilling equipment:
  - A. Kelly cock.
  - B. Float valve above bit.
  - C. A 1000 psi working pressure full opening valve with connections that can be available to us as stabbing valve.
  - D. The well will be drilled with air, so mud monitoring equipment will be used.
8. Well Evaluation Program:
  - A. No cores are anticipated.
  - B. The well is planned to be drilled with air, so all hydrocarbon shows will be blown to the surface.
  - C. A Dual-Induction SFL log will be run from total depth to the base of the surface casing. If the well is drilled to total depth with air, no porosity log will be run; but if the drilling fluid is changed to mud a sonic or density porosity will be run over in intervals penetrated that have significant hydrocarbon shows.
9. No abnormal pressures or temperatures are anticipated. Hydrogen sulfide is never present in the Cretaceous age formations in the Rocky Mountain area.
10. The Dakota-Lakota formations may be sand fractured using up to 100,000 lbs of frac. sand. If flammable liquids are used as the sand carrying medium to frac this well, the pumping equipment will be located at least 120 feet from the wellhead and the storage tanks will be located at least 120 feet from the wellhead and the pumping equipment.
11. The blooieline for the air drilling operation will blow into a blooieline pit at least 120 feet from the wellhead.
12. It is planned to spud this well approximately October 15 , 1982.

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 OFFICE OF OIL & GAS CONSERVATION

Rev. 10/22/80

DVR	
FJP	
HHM	<input checked="" type="checkbox"/>
JAM	<input checked="" type="checkbox"/>
JJD	<input checked="" type="checkbox"/>
RLS	
CGM	

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9/27/82

PERMIT NO. 82-1582

BOND: Yes  No  Federal

Plugging: Blanket  Ind.

Surface: Blanket  Ind.

Date of Check 9/29/82 sent wrong amount for 2 permits One \$500000  
 Check # 4520 Amt. \$ 75.00  
 Name of Operator Piko Root

Maker of Check Petroleum Management  
 Bank Check Issued On United Bank of Denver,  
Colorado

Refund \$ \_\_\_\_\_ Requested By \_\_\_\_\_

Date Refund Request Sent to Accounting \_\_\_\_\_

Remarks \_\_\_\_\_

851285

PERMIT NO. 82-1582  
 DATE 9/27/82

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Colorado State University, Fort Collins, Colorado

The contractor will be a 7" 1000 psi working pressure pipe with a 6" 1000 psi working pressure pipe with 3" pipe size and blind flange with a remote hydraulic chocking system. The 6" 1000 psi working pressure pipe will be placed on top of the well. The flowout prevention arrangement will include a kill line and a choke manifold as shown in Exhibit 1. The 7" 1000 psi working pressure pipe will be tested as a schematic diagram. The 7" 1000 psi working pressure pipe will be tested as a schematic diagram. The 7" 1000 psi working pressure pipe will be tested as a schematic diagram.

8-11-83  
Location  
has been  
abandoned  
will send  
in sundry jr

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