

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

Bolack Minerals Company

3. ADDRESS OF OPERATOR

P.O. Box 255, Farmington, N.M. 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface
1730' fN1, 1850' fW1

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

9 miles east of Counselor's Trading Post

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 1730 ft.

16. NO. OF ACRES IN LEASE

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

None

19. PROPOSED DEPTH

6670'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320.00

20. ROTARY OR CABLE TOOLS

Rotary

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

6449 Gr., 6462 estim. K.B. SUBJECT TO COMPLIANCE WITH ATTACHED

22. APPROX. DATE WORK WILL START*

June 1, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to administrative
appeal pursuant to 30 CFR 290.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	24.0	215'	120 cu. ft.
7 7/8"	4 1/2"	11.6	6670'	1520 cu. ft.

Sub-operator proposes to rotary drill a Dakota fm. test well to 6670'. A 12 1/2" hole will be drilled to 215 ft. and 8 5/8", 24 lb., J-55 casing set with 120 cu. ft. Class B cement circulated to surface. A dual ram, 900 series, 3000psi-test blow-out preventer will be installed and pressure-tested before drilling casing shoe. A 7 7/8" hole will be drilled to T.D. with a gel-based mud of appropriate properties. No abnormal pressure zones are anticipated. At T.D. an Induction-Electrical, formation density and compensated neutron-density with gamma-ray logs will be run. It is anticipated that 4 1/2", 11.6lb, N-80 casing will be run to T.D. and cemented with 1800 cu. ft. of regular and poz-mix cement in two stages to cover the Gallup, Pictured Cliffs and Ojo Alamo formations. Cement tops will be determined by temperature survey and cement bond logs. The Dakota fm. will be selectively perforated, acidized and stimulated with appropriate sand and nitrogen foam-water fracturing treatments and produced through 2 3/8", 4.7 lb. EUE tubing. Estimated drilling time 12 days commencing 6/1/83. Estim. formations tops: Ojo Alamo Ss.-1515', Kirtland Sh.-1700', (over)

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

William R. Speer

TITLE

Agent

DATE

March 15, 1983

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

JUL 9 1983

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State Agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

★ U.S. GOVERNMENT PRINTING OFFICE : 1963-O-711-396

Fruitland Fm.-1970', Pictured Cliffs Ss.-2095', Lewis Sh.-2175',
Mesaverde Cliff House-3595', Menefee-3670', Pt. Lookout Ss.-4265',
Upper Mancos-4660', Gallup fm.-5365', Lower Mancos-5935',
Dakota Fm.-6475'.

RECEIVED

AUG 2 - 1983

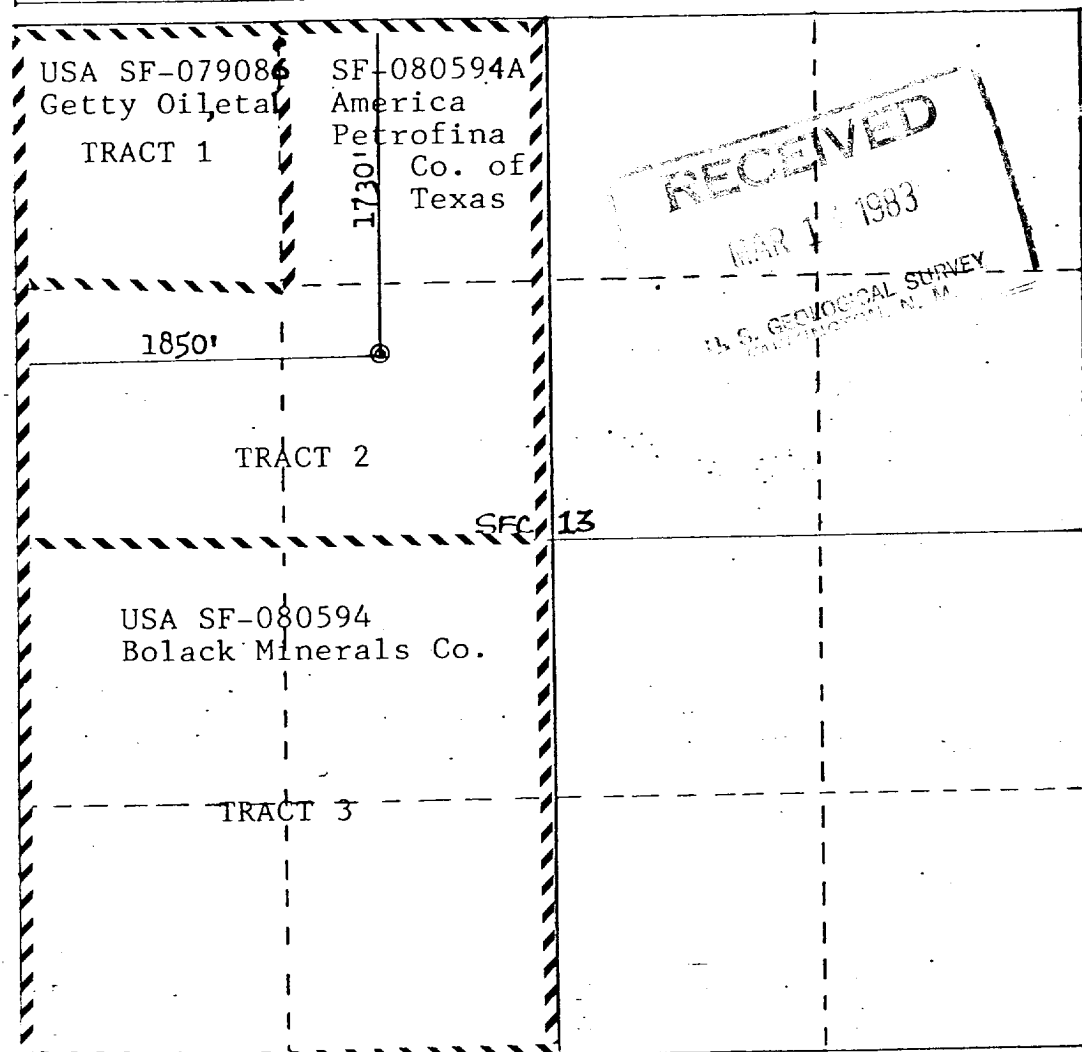
Operator: BOLACK MINERALS COMPANY			Lease CANYON LARGO UNIT		Well No. 318
Unit Letter F	Section 13	Township 24N	Range 6W	County Rio Arriba	
Actual Footage Location of Wells: 1730 feet from the North line and 1850 feet from the West line					
Ground Level Elev: 6449	Producing Formation Dakota		Pool Basin		Dedicated Acreage W 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Force-pooling application to be heard

☐ Yes ☒ No If answer is "yes," type of consolidation before NMOCDD on March 30, 1983

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) All owners & tracts are communitized except L.A.C. Dotson .0213625 interest in Tract 1, which is subject to above applic.
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



Scale: 1"=1000'

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

William R. Speer
Name **William R. Speer,**
Agent

Position
Bolack Minerals Co.

Company
March 15, 1983

Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
October 19, 1982

Registered Professional Engineer and Land Surveyor

Fred B. Kern Jr.
Fred B. Kern Jr.

Certificate No. **3950**

