

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 860' fN1, 1110' fW1

At proposed prod. zone
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
10 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) 860 ft.

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 185 ft.

16. NO. OF ACRES GEOLOGICAL SURVEY ACRES ASSIGNED
TO THIS WELL 685.40

19. PROPOSED DEPTH 6250 ft.

20. ROTARY OR CABLE TOOLS
Rotary tools

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6694' Ground level, 6707' estim. K.B.

22. APPROX. DATE WORK WILL START*
Nov. 20, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	200 ft.	84 cu. ft.
7 7/8"	4 1/2"	10.5#	6250 ft.	2,290 cu. ft. (2 stages)

Operator proposes to rotary drill a Gallupfm. test well to 6250 ft. for oil & gas possibilities. A 12 1/4" hole will be drilled to 200 ft. and 8 5/8", 24 lb. J-55 casing set with 84 cu.ft. of Class B. cement circulated to surface. A dual ram 10", 900 series, 3,000 psi test blow-out preventer will be installed and pressure tested to 1500 psi before drilling surface casing shoe. A 7 7/8" hole will be drilled to T.D. with gel-based mud of appropriate properties. No abnormal pressure zones are anticipated. At T.D. formation density, compensated neutron log and natural gamma ray spectrometry logs will be run and 4 1/2", 10.5 lb. J-55 casing set with 2300 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 surveys. With a completion rig possible Gallup production zones will be perforated, acidized and stimulated with appropriate sand and foam-water fracturing treatments as required and produced thru 2 3/8", 4.7 lb. tubing. Estimated drilling time-12 days commencing in November, 1982. Estimated formation tops: San Jose fm.-surface, Ojo Alamo ss.-1930 (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 Nov. 16, 1982
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

ALL OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

This action is subject to administrative
appeal to the Director, G.S.

NSL 1603 NMOC

APPROVED
AS AMENDED

DATE
DEC 09 1982

JAMES F. SIMS
DISTRICT ENGINEER

5. LEASE DESIGNATION AND SERIAL NO.
SF-080594
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
None
7. UNIT AGREEMENT NAME
Canyon Largo
8. FARM OR LEASE NAME
Canyon Largo Unit
9. WELL NO.
320
10. FIELD AND POOL OR WILL CAT
Devil's Fork-Gallup Est.
11. SEC., T., R., M. OR BLK.
AND SURVEY OR AREA
Sec. 1, T24N-R6W, NMPM
12. COUNTY OR PARISH
Rio Arriba
13. STATE
N.M.

RECEIVED

NOV 18 1982

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-107
Revised 10-1-77

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

All distances must be from the outer boundaries of the Section.

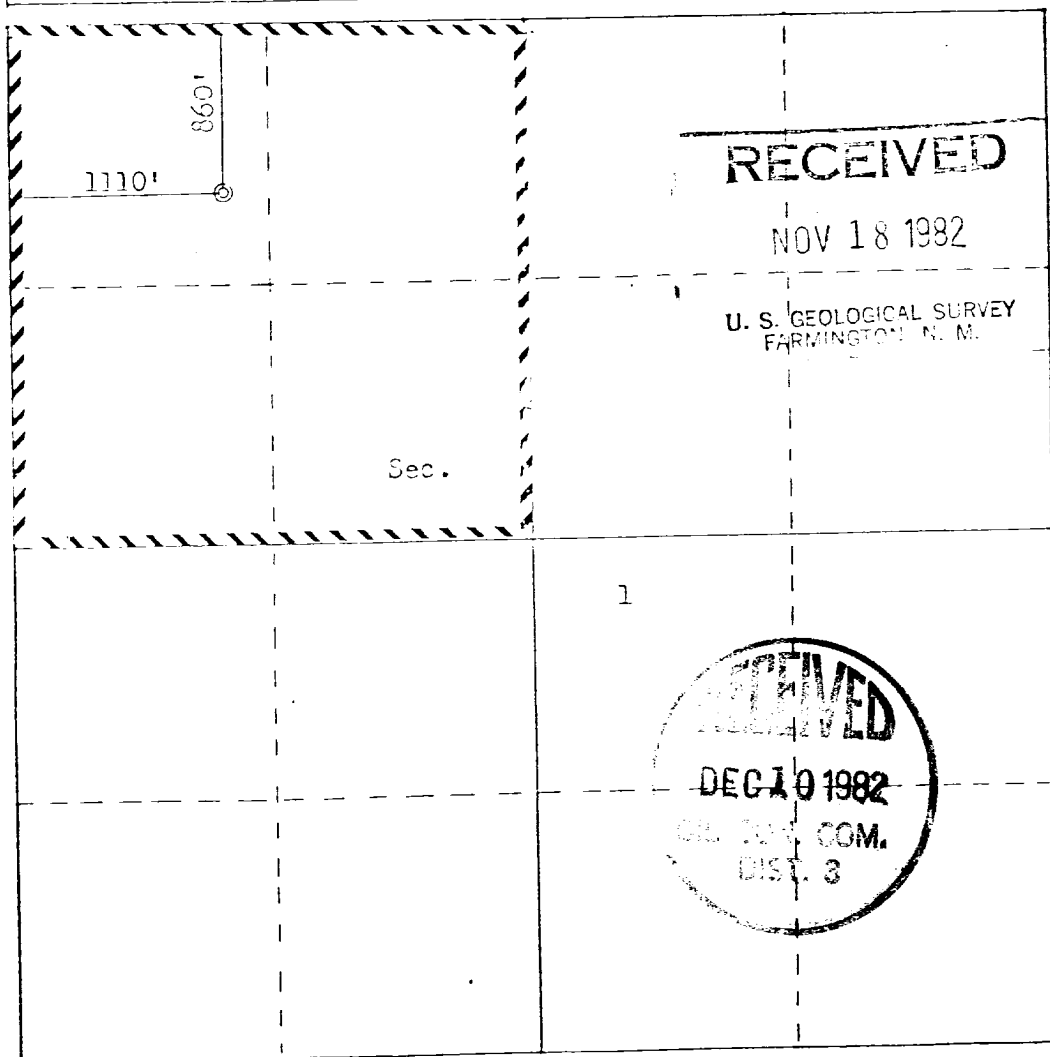
Operator BOLACK MINERALS COMPANY			Lease CANYON LARGO UNIT		Well No. 320
Unit Letter D	Section 1	Township 24N	Range 6W	County Rio Arriba	
Actual Footage Location of Well: 860 feet from the North line and 1110 feet from the West line					
Ground Level Elev. 6694	Producing Formation Gallup		Pool Devil's Fork Ext.	Dedicated Acreage: 182.45 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?

☐ Yes ☐ No If answer is "yes," type of consolidation N/A

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) N/A

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
Position

Bolack Minerals Co.
Company

Nov. 15, 1982
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 17, 1982*

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. *3950*