

SHEEP DRAW FED. 28-13

Radius of Exposure (ROE)

Hydrogen Sulfide Gas

Max. Escape Volume = 5 MCF/D

100 ppm ROE

$$\frac{((1.589 * \text{ppm} * \text{MCF/D}))}{1000} .6258$$

$$\frac{((1.589 * 75,720 * 6))}{1000} .6258 = \underline{62} \text{ feet}$$

500 ppm ROE

$$\frac{((0.4546 * 75,720 * 6))}{1000} .6258 = \underline{28} \text{ feet}$$

RECEIVED

1997 NOV 12 A 10: 59

BUREAU OF LAND MGMT.
WILDLIFE RESOURCE AREA

N. M. Oil Cons. Division

811 S. 1ST ST.

ARTESIA, NM 88210-2.

Form 3160-3
(July 1992)SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT 3-17-97 RM

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

LOUIS DREYFUS NATURAL GAS CORP.

(405) 749-5251

3. ADDRESS AND TELEPHONE NO.

14000 Quail Springs Parkway, #600, Okla. City, OK 73134

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

At surface 1850' FSL, & 330' FWL

At proposed prod. zone same as above

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

4 miles SW from Carlsbad, NM

10. DISTANCE FROM PROPOSED*

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

330'

16. NO. OF ACRES IN LEASE

240

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.

1600'

19. PROPOSED DEPTH

5000'

20. ROTARY OR CABLE TOOL

Rotary

21. ELEVATIONS (Show whether DP, BT, GR, etc.)

3319' GR

22. APPROX. DATE WORK WILL START*

Upon Approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" J-55	54.5#	350'	180 sx Class C to surface
12-1/4"	8-5/8" J-55	24#	1650'	500 sx Class C + 225 sx Class C
7-7/8"	5-1/2" J-55	15.5#	5000'	180 sx 65/35 Poz C + 500 sx Self Stress

- Drill 17-1/2" hole to 350'. Set 350' of 13-3/8" J-55 54.5# surface pipe and cement to surface w/ Class "C".
- Drill 12-1/4" hole to 1650'. Set 1650' of 8-5/8" J-55 24# intermediate casing. Cement 500 sx Class "C" w/4% gel and 2% cacl. Tail in with 225 sx Class "C" w/2% cc. **CIRCULATE**
- Drill 7-7/8" hole to 5000'. Set 5-1/2" J-55 15.5# casing at 5000'. Cement with 180 sx 65/35 Poz "C" w/6% gel and 1/4# celloflake per sx. Tail in with 500 sx Self Stress (10/10), 2% CaCl and 1/4# celloflake & 2% defoamer.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHEDPosted ID,
H & API
4-25-97

17

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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

Raylene Smith

TITLE Regulatory Tech.

DATE 3/14/97

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

ORIS 8801 ON

FERGUSON

NOM MINERALS

DATE

4-15-97