

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC 058581		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR LOUIS DREYFUS NATURAL GAS CORPORATION 25773			7. UNIT AGREEMENT NAME 17613 24932		
3. ADDRESS AND TELEPHONE NO. (405) 749-1300			8. FARM OR LEASE NAME, WELL NO. Loco Hills 4 Fed Com #3		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 73134 At proposed prod. zone 1980' FNL & 660' FWL (SW/4 NW/4) Unite			9. API WELL NO. 30-015-31022		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 18 Miles Southeast of Artesia, NM			10. FIELD AND POOL, OR WILDCAT Undesignated Empire South (Morrow)		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 660' FWL			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 4-T18S-R29E		
16. NO. OF ACRES IN LEASE 320			12. COUNTY OR PARISH Eddy		
17. NO. OF ACRES ASSIGNED TO THIS WELL 320			13. STATE NM		
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2986'			19. PROPOSED DEPTH 11,200		
20. ROTARY OR CABLE TOOLS R			21. APPROX. DATE WORK WILL START* 5-1-2000		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3535'			22. APPROX. DATE WORK WILL START* 5-1-2000		
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" H40	48#	400'	360sx - Surface
12"	9 5/8" K55	32#	3100'	1150sx - Surface
7 7/8"	5 1/2" N80	11.6#	11200'	1075sx - Est TOC 7500'

- A. Drill 17 1/2" hole to 400'. Set 13 3/8" surface casing at 400' with 360 sxs cement.
- B. Drill 12" hole to 3100', set 9 5/8" intermediate casing at 3100'. Cement with 950 sxs 35:65 POZ/C tail in with 200 sxs class C.
- C. Drill 7 7/8" hole to 11,200'. Set 5 1/2" production casing at 11,200'. Cement with 1000 sxs 15;61;11 POZ/C/CSE tail in with 75 sxs class C.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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.

SIGNED Carla Christian TITLE Regulatory Technician DATE 2/11/00

(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: _____

Acting

Assistant Field Manager,
Lands And Minerals

APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

APPROVED FOR _____

RECEIVED

FEB 14 2000

BLM
ROSWELL, NM

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102
Revised February 10, 1994
Instruction on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 76400	Pool Name South Empire (Morrow)
Property Code	Property Name LOCO HILLS "4" FEDERAL COM	Well Number 3
OGRID No. 025773	Operator Name LOUIS DREYFUS NATURAL GAS CORPORATION	Elevation 3535'

Surface Location

UL or lot No. E	Section 4	Township 18 S	Range 29 E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 710	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

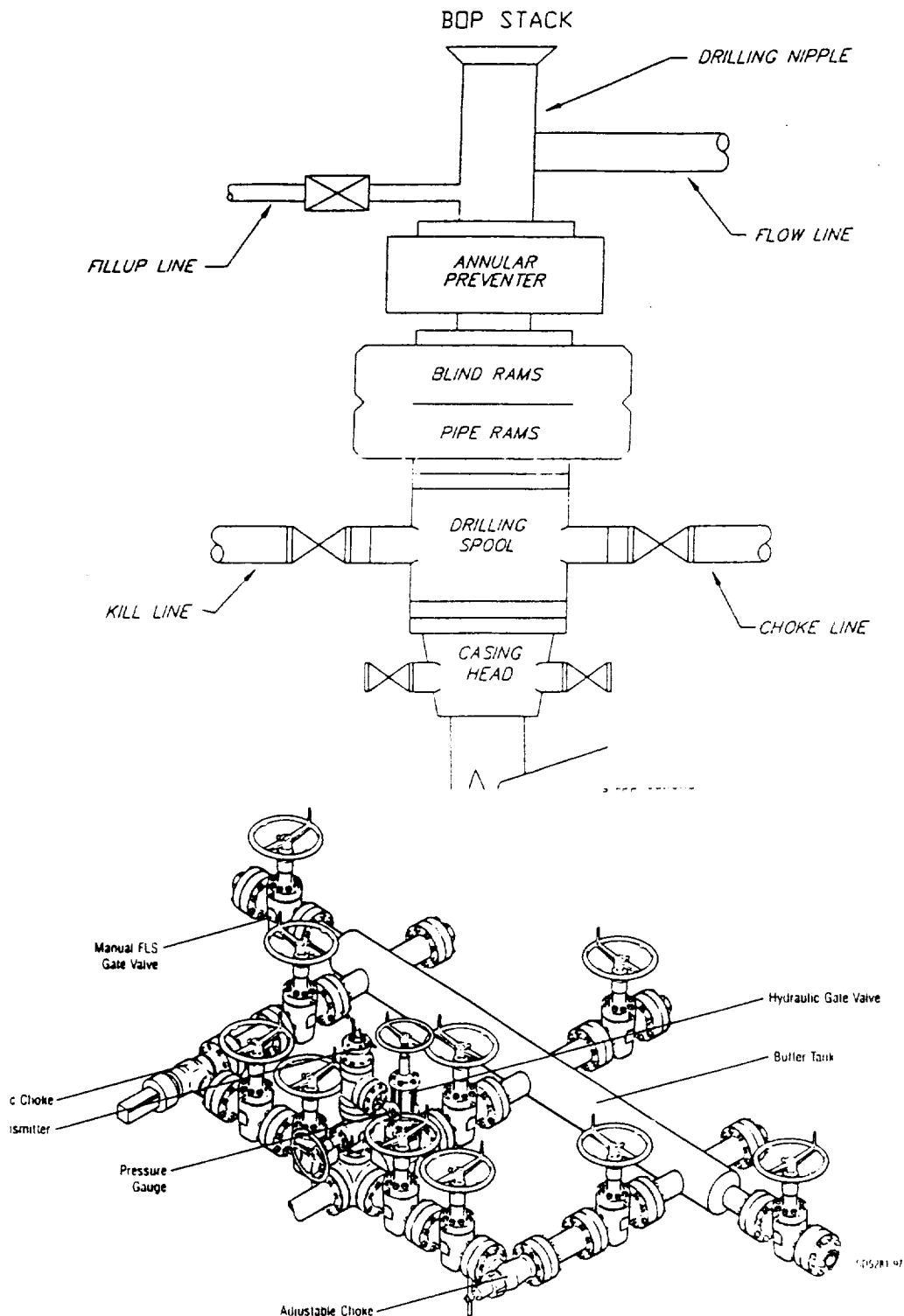
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill Yes	Consolidation Code C	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Gene Simer</i> Signature Gene Simer Printed Name DIST. OPERATIONS MANAGER Title 02/23/00 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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 belief.</p> <p>January 10, 2000 Date Surveyed Signature & Seal of Professional Surveyor W.D. No. 0051A Certificate No. Gary L. Jones 7977 BASIN SURVEYS</p>
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Exhibit 6

TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER & CHOKE MANIFOLD SCHEMATIC



Typical Choke Manifold Designed for Land Drilling Applications

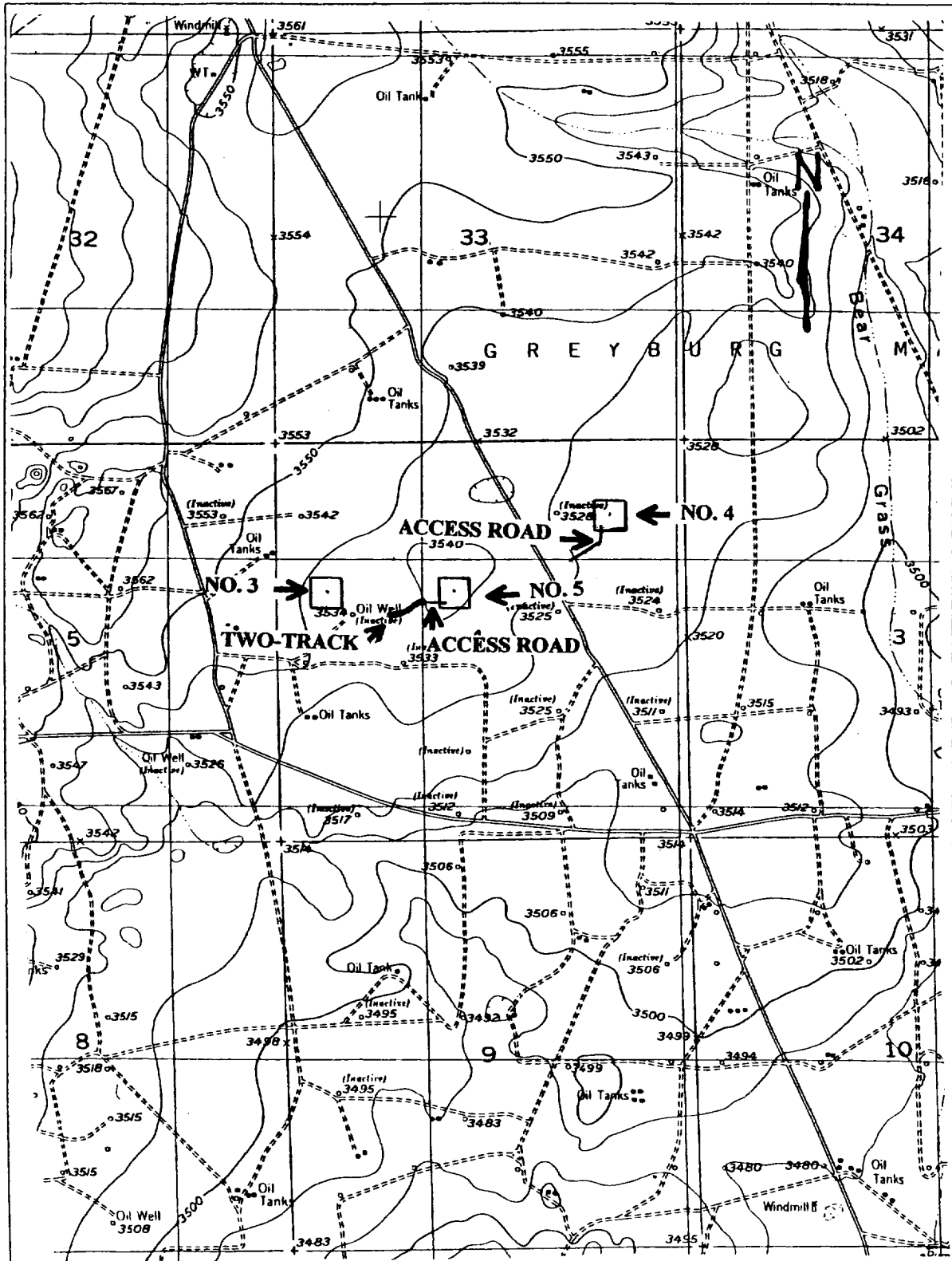


Figure 1. Showing the location of LOUIS DREYFUS NATURAL GAS CORPORATION's proposed Loco Hills "4" Federal Wells Nos. 3 (1980 FNL, 660 FWL), 4 (990 FNL, 990 FEL), and 5 (1980 FNL, 2310 FWL) and associated access roads in Section 4, T18S, R29E NMPM, Eddy County, NM. Map Reference: 7.5' series Red Lake SE, NM (1955), 32104-G1.