

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

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. NM 14846
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTED OR TRIBE NAME -----
2. NAME OF OPERATOR LOUIS DREYFUS NATURAL GAS CORP. 25773 (KENT SAMS)		7. UNIT AGREEMENT NAME -----
3. ADDRESS AND TELEPHONE NO. 14000 QUAIL SPRINGS PARKWAY SUITE 600 OKLAHOMA CITY, OKLAHOMA 73134 Ph. 405-749-5259		8. FARM OR LEASE NAME, WELL NO. 17613 LOCO HILLS "4" FEDERAL # 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FNL & 1320' FEL SEC. 4 T18S-R29E EDDY CO. NM At proposed prod. zone SAME UNORTHODOX LOCATION: Subject to Like Approval By State		9. API WELL NO. 30-015-28657
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 6 miles Southwest of Loco Hills New Mexico		10. FIELD AND POOL, OR WILDCAT 76400 SOUTH EMPIRE- MORROW
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'	16. NO. OF ACRES IN LEASE 160	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 4 T18S-R29E
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1100'	19. PROPOSED DEPTH 11,100'	12. COUNTY OR PARISH EDDY
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3527' GR.		13. STATE NM
22. APPROX. DATE WORK WILL START AS SOON AS APPROVED		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	K-55 13 3/8"	54.5	850'	750 Sx. Class "C" circ. to surf
12 1/4"	N-80 9 5/8"	40	4500'	1310 Sx. Class "H" " " "
8 3/4"	N-80 5 1/8"	17 & 20	11100'	1445 Sx. Class "H" POZ TC 4300'

1. Drill 17 1/2" hole to 850' run and set 850' of 13 3/8" K-55 54.5# ST&C csg. Cement with 550 Sx. Class "C" + 4% Gel + 2% CaCl + 1/4# Celo-flakes tail in with 200 Sx Class "C" + 2% CaCl + 1/4# Celo-flakes/SX. Circulate cement to surface.
2. Drill 12 1/4" hole to 4500' run and set 4500' of 9 5/8" N-80 40# LT&C Butt csg. Cement with 1110 Sx. 35/65 POZ Class "C" + 6% Gel + 15# salt/Sx + 1/4# Celo-flakes/Sx tail in with 200 Sx. Class "C" + additives. Circulate cement to surface.
3. Drill 8 3/4" hole to 11100' run and set 11100' of N-80 17 & 20# LT&C Butt csg. Cement 1st stage with 610 Sx 50/50 POZ Class "H" + 5# aalt/Sx + 1/4# Celo-flakes/Sx 2nd Stage with 735 Sx 35/65 POZ Class "H" + 6% Gel + 15# salt/Sx + 1/4# Celo-flakes/Sx tail in with 100 Sx. Bring cement back 200' back into 9 5/8" casing

RECEIVED

SEP 22 1995

OIL CON. DIV.

DIST. 2

Post ID-1
9-29-95
New Loc. & API

Approved Subject to
General Requirements and
Special Stipulations

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 Joe T. Janica TITLE AGENT DATE 07/11/95

(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 1st Gary Bowers TITLE Acting Area Manager DATE SEP 21 1995

*See Instructions On Reverse Side

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28657	Pool Code 76400	Pool Name SOUTH EMPIRE-MORROW
Property Code	Property Name LOCO HILLS "4" FEDERAL	Well Number 1
GRID No. 25773	Operator Name LOUIS DREYFUS NATURAL GAS CORP.	Elevation 3527

Surface Location

UL or lot No. A5	Section 4	Township 18 S	Range 29 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 1320	East/West line EAST	County EDDY
----------------------------	---------------------	-------------------------	----------------------	---------	-----------------------------	----------------------------------	------------------------------	-------------------------------	-----------------------

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	Consolidation Code	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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Joe T. Janica Printed Name Agent Title 07/11/95 Date
	SURVEYOR CERTIFICATION 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. JUNE 28, 1995 Date Surveyed Signature Professional Surveyor State of New Mexico Professional Surveyor No. 9239 Exp. 7-5-95 Certification No. JOHN RONALD G. EDSON 676 3239 12641

EXHIBIT "A"

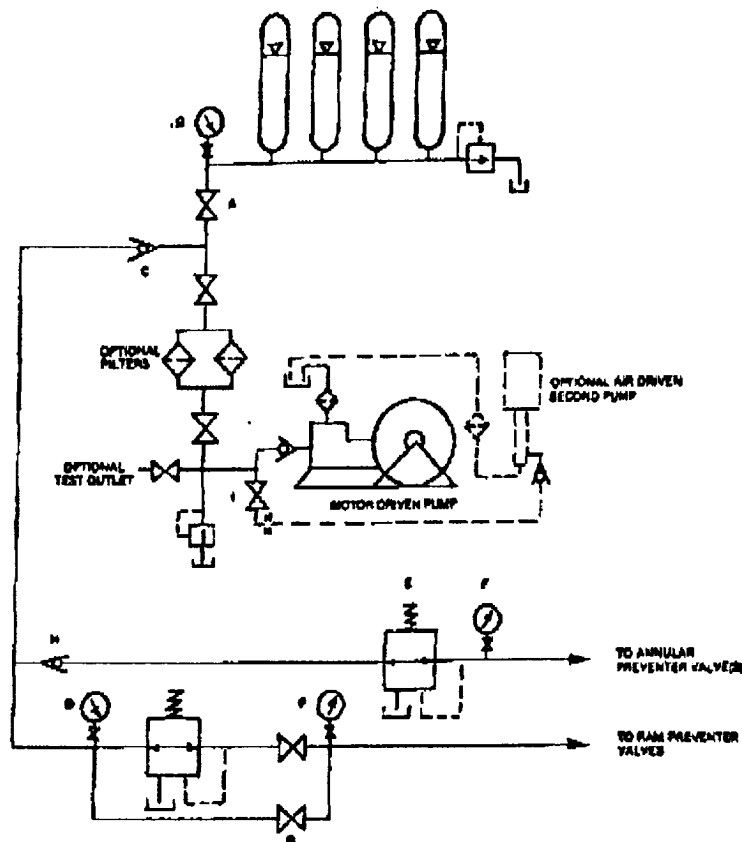


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

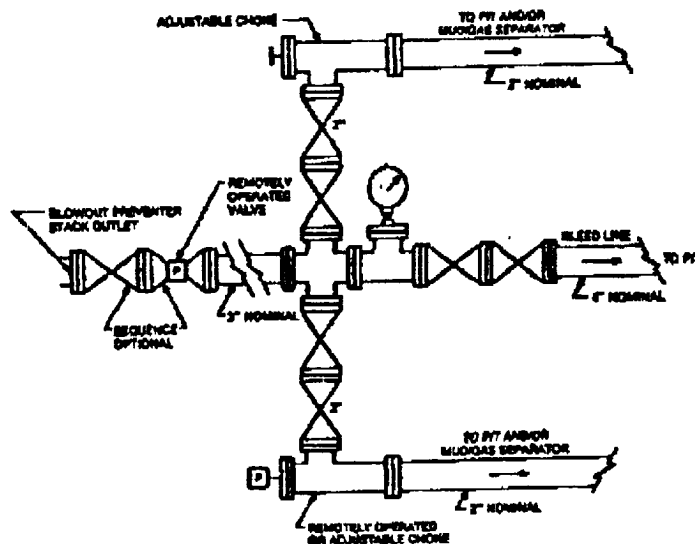
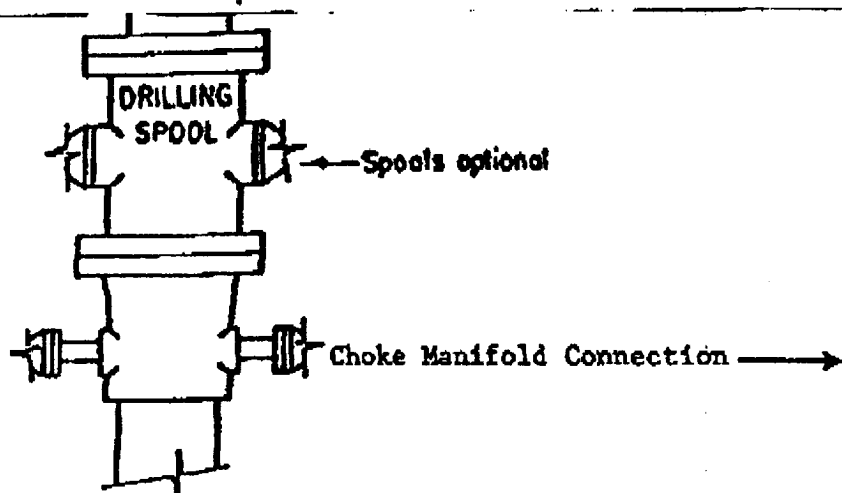


FIGURE K4-1. Typical choke manifold assembly for 5000 psi working pressure service - surface installation.

EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

LOUIS DREYFUS NATURAL GAS CORP.
LOCO HILLS "4" FEDERAL # 1
660' FNL & 1320' FEL SEC. 4
T183-R29E EDDY CO. NM



ARRANGEMENT SRBA

1500 Series
5000 PSI WP

EXHIBIT "E"
B.O.P. SKETCH TO BE USED ON
LOUIS DREYFUS NATURAL GAS CORP.
LOCO HILLS "4" FEDERAL # 1
660' FNL & 1320' FEL SEC. 4
T18S-R29E EDDY CO. NM