

UNITED STATES ARTES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		7. UNIT AGREEMENT NAME <div style="text-align: right; font-size: 1.2em;">16393</div>	
2. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. FARM OR LEASE NAME WELL NO. Sheep Draw "28" Federal #12	
3. NAME OF OPERATOR LOUIS DREYFUS NATURAL GAS CORP.		9. AM WELL NO. 30-015-29531	
4. ADDRESS AND TELEPHONE NO. 14000 Quail Springs Parkway, #600, Okla. City, OK 73134		10. FIELD AND POOL OR WILDCAT Happy Valley, Delaware	
5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1650' FNL & 990' FWL At proposed prod. zone same as above		11. SEC., T., R., M., or BLK. AND SURVEY OR AREA Unit E Sec. 28-22S-26E	
6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 4 miles SW from Carlsbad, NM		12. COUNTY OR PARISH Eddy	
7. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest grig, Unit No., if any)		13. STATE NM	
8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		14. NO. OF ACRES ASSIGNED TO THIS WELL 40	
9. NO. OF ACRES IN LEASE 240		15. PROPOSED DEPTH 5000'	
10. ROTARY OR CABLE TOOLS Rotary		16. APPROX. DATE WORK WILL START Upon Approval	
11. ELEVATIONS (Show whether DF, RT, GR, etc.) 3289' GR			

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASINO	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" I-55	54.5#	350' WITHIN 400	400 sx Class C to surface
12-1/4"	8-5/8" J-55	24#	1650' WITHIN 500	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

1. 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".
2. 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**
3. 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.

Posted ID-1
NL & API
4-25-97

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

acs
4/14/97

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.

21.

SIGNED

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.

APPROVED BY

TITLE

DATE _____

*See Instructions On Reverse Side

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions 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		Pool Name	
Property Code		Property Name			Well Number
		SHEEP DRAW FEDERAL 28-12			12
OGRID No.		Operator Name			Elevation
		LOUIS DREYFUS NATURAL GAS CORP.			3289.

10 Surface Location

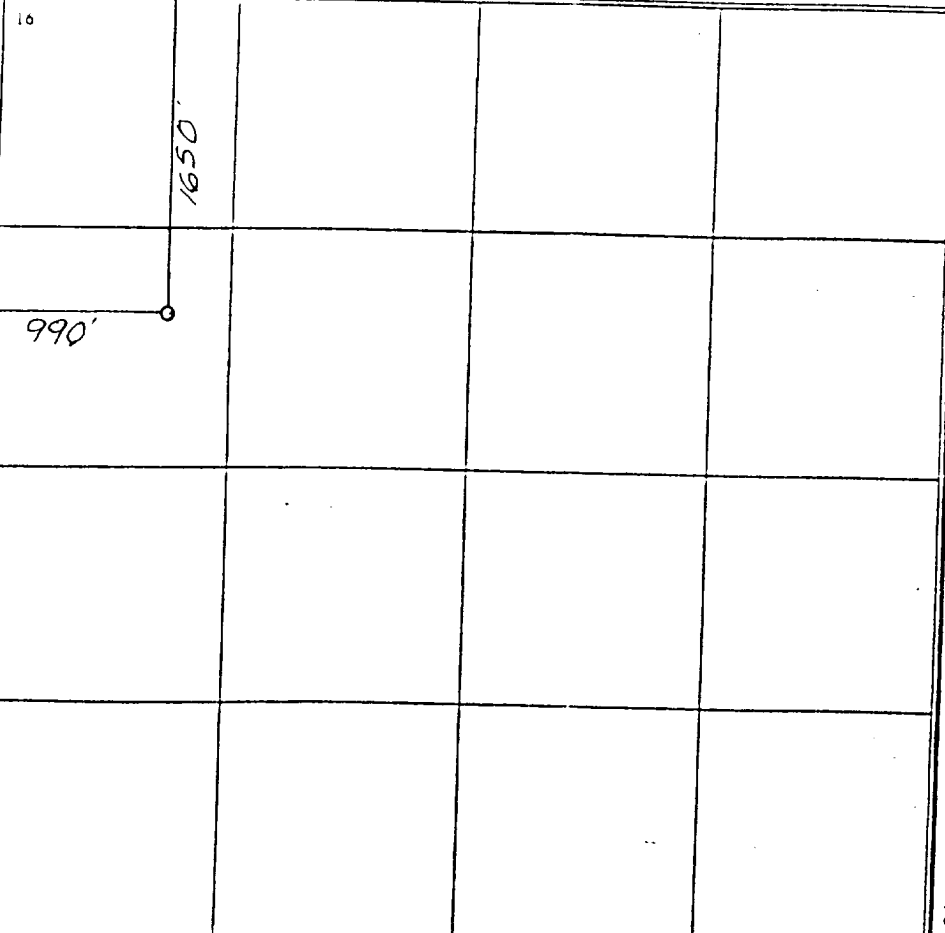
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	28	22-S	26-E		1650	NORTH	990	WEST	EDDY

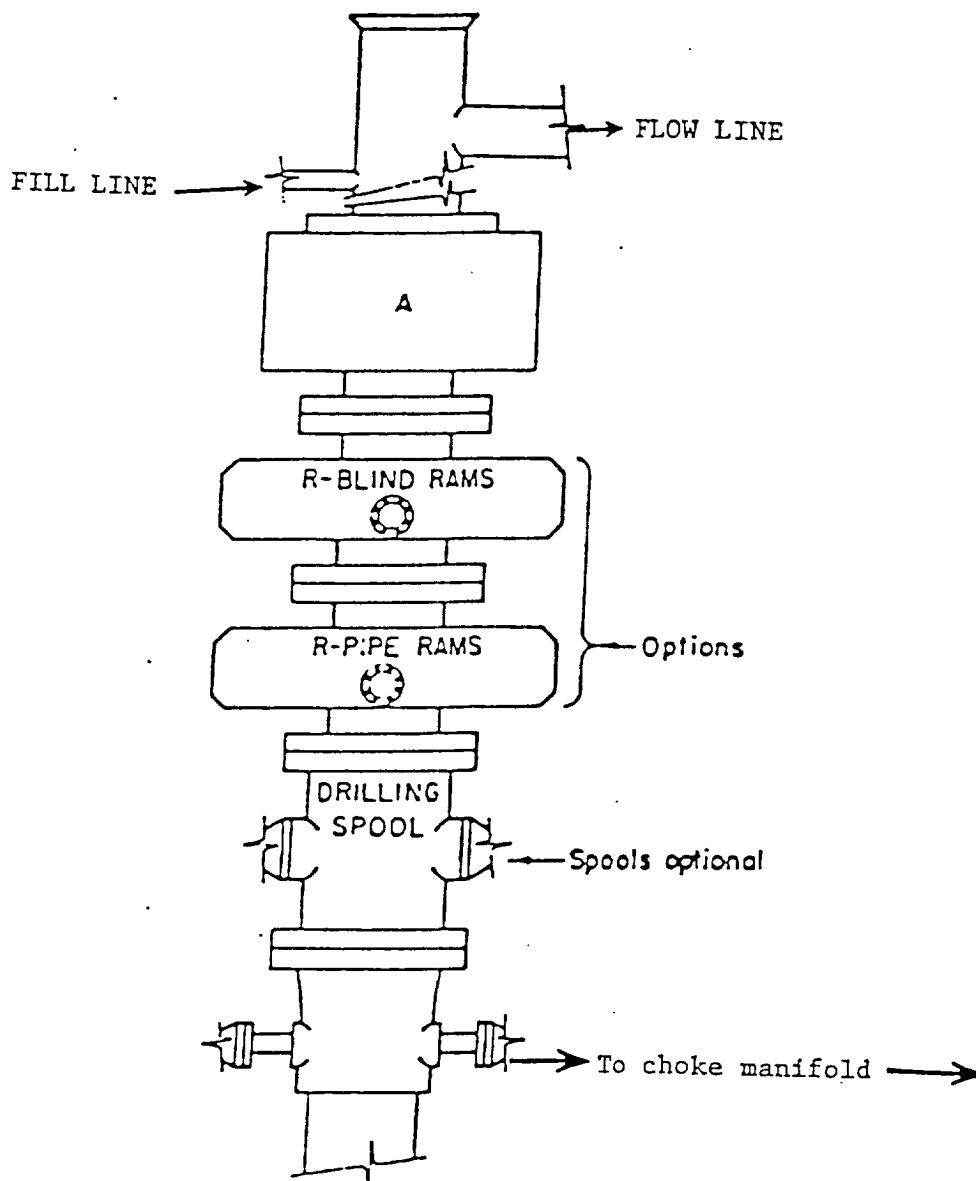
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 40	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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>16</p> 	<p>17 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></p> <p>Signature</p> <p>Gene Simer</p> <p>Printed Name</p> <p>Production Foreman</p> <p>Title</p> <p>04-09-97</p> <p>Date</p>	
	<p>18 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>FEBRUARY 26, 1997</p> <p>Date of Survey</p> <p><i>Dan R. Reddy</i></p> <p>Signature and Seal of Professional Surveyor</p> <p>5412</p> <p>REGISTERED LAND SURVEYOR</p> <p>Certification No. 5412</p> <p>NM PRS No. 5412</p>	



ARRANGEMENT SRRA

900 Series
3000 PSI WP

LOUIS DREYFUS NATURAL GAS CORP.

14000 QUAIL SPRINGS PARKWAY, SUITE 600

OKLAHOMA CITY, OK 73134

EXHIBIT "1-E"
BOP SKETCH TO BE USED ON

LOUIS DREYFUS NATURAL GAS CORP.
SHEEP DRAW "28" FEDERAL #12
1650' FNL & 990' FWL
SEC. 28-T22S-R26E
EDDY COUNTY, NM

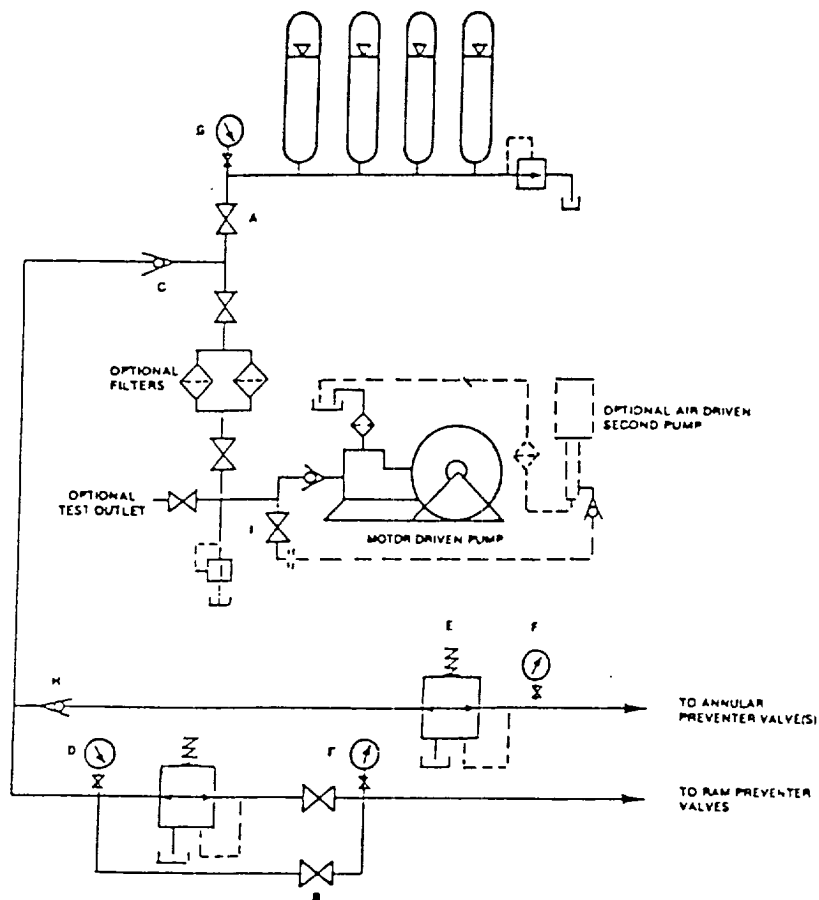


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

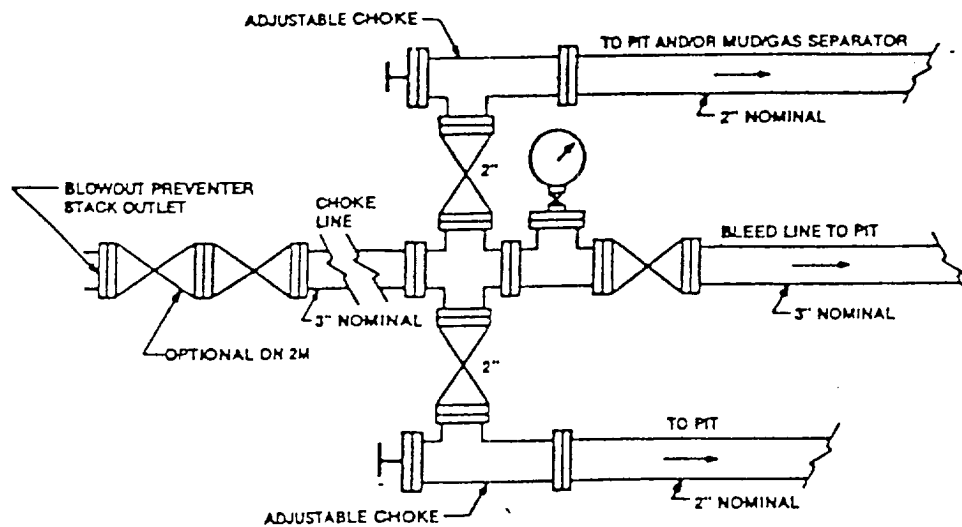


FIGURE K4-1. Typical choke manifold assembly for 2M and 3M rated working pressure service — surface installation.

LOUIS DREYFUS NATURAL GAS CORP.

14000 QUAIL SPRINGS PARKWAY, SUITE 600

OKLAHOMA CITY, OK 73134

EXHIBIT "1-E" CHOKE MANIFOLD & CLOSING UNIT

LOUIS DREYFUS NATURAL GAS CORP.
SHEEP DRAW "28" FEDERAL #12
1650' FNL & 990' FWL
SEC. 28-T22S-R26E
EDDY COUNTY, NM