

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995RECEIVED  
BLM  
(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

NMSF-078896

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Federal 32-21

9. API WELL NO.

30-045-24793

10. FIELD AND POOL, OR WILDCAT

Basin Fruitland Coal

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA

Sec. 32-27N-11W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1A. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other \_\_\_\_\_

1B. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. ENVIR. ☒ Other 070 FARMINGTON, NM

2. NAME OF OPERATOR

Louis Dreyfus Natural Gas Corp.

3. ADDRESS AND TELEPHONE NO.

14000 Quail Springs Parkway, #600, Oklahoma City, OK 73134

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

At surface 990' FNL &amp; 1840' FWL, NE NW Sec. 32-27N-11W

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

3/20/81 orig. 3/22/81 orig. 8/17/81

7/7/98 recdmp. 7/8/98 recdmp. 8/30/98

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

6148' GR 6160' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD &amp; TVD

1875' KB

21. PLUG BACK T.D., MD &amp; TVD

1664'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

Fruitland Coal- 1599'-1649'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

None

27. WAS WELL CORRED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	142' KB	12 1/4"	110 sx. B reg, 3% CaCl <sub>2</sub>	None
4 1/2"	10.5#	1859' KB	7 7/8"	275 sx. 65/35 Poz, 12% gel	None
4 1/2" CIBP	set @ 1667' and 1664'			100 sx. B reg.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	1586'	N/A

31. PERFORATION RECORD (Interval, size and number)

1599'-1612' 2 SPF 27 holes  
1638'-1640' 4 SPF 9 holes  
1642'-1649' 4 SPF 29 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1599'-1612'	60 bbls. 2% KCL water, 95 ball
1638'-1640'	sealers. 181,000 scf N <sub>2</sub> ,
1642'-1649'	17000# Arizona sand

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
9/22/98		Pumping-2" x 1 1/4" x 7'x 10' RHAC-Z BHP				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/30/98	24	N/A	→	-0-	107	2	N/A
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
N/A	16#	→	-0-	107	2	ACCEPTED FOR RECORD	

34. DISPOSITION OF CAC (Sold, used for fuel, vented, etc.)

Sold

35. LIST OF ATTACHMENTS

N/A

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED

TITLE Regulatory Technician

DATE 11/16/98

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCH

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Ojo Alamo	557' KB	716' KB	Water
Pict. Cliffs	1650' KB	TD	Gas

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	557' KB	557' KB
Kirtland	-716' KB	716' KB
Fruitland	1275' KB	1275' KB
Pictured Cliffs	1650' KB	1650' KB



RECEIVED  
DEC 4 1998

SUMMARY REPORT

8/13/98

AUG 20 1998

FEDERAL 32-21 (PC)  
PROPERTY NO. 402165 001

FEDERAL 32-21 (PC)

API No: 300452479300

AFE/OPS Number: 600161

Loc: NW/4 SEC 32-27N-11W (160 AC UN)

Cnty/ St: SAN JUAN NM

AFE Type:

Est. WI: 0 % Est. RI: 0 %

AFE DHC: \$0

Ground Elev:

AFE CWC: \$0

KB Elevation:

Spud Date: 00/00/0000

Contractor:

Unofficial Cmpl: 00/00/0000

Mud Co:

1st Oil Sales: 00/00/0000

Operator: LOUIS DREYFUS NATURAL GAS CORP

1st Gas Sales: 00/00/0000

MIRU TOH W/TBG.

07/07/98

Days- 1; TD- 1859'; PBTD- 1840';MIRU TOH W/1" TBG;Fruitland Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8;MIRU WOU Load hole w/2% KCL water. ND WH NU BOP. Lower tbg & check for fill. (No fill) TOH w/50 jts 1" tbg (1,653') and LD. SDFN.

DWC-\$ 2,005 CWC-\$ 2,005 CMIC- GS

07/08/98

Days- 2; TD- 1859'; PBTD- 1840';SET CIBP & PRESSURE TEST;Fruitland Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8;RU WL RIH w/gauge ring. Run CCL. PU & RIH w/4 1/2" Owens CIBP & set @ 1667'. Load csg & test. Csg leaking off pressure. RIH w/2nd CIBP & set @ 1664'. Loaded csg & pressured up to 2900#, established rate of 1.6 bpm. Will set packer this a.m. to isolate leak.

DWC-\$ 3,680 CWC-\$ 5,685 CMIC- GS

07/09/98

Days- 3; TD- 1859'; PBTD- 1840';SQUEEZE CSG LEAK;Fruitland Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8;PU & RIH w/4 1/2" packer & tbg. Isolate csg leak between 1511' & 1542', collar @ 1526'. Pull up & set packer @ 1323'. RU BJ & pump down tbg, establish rate of 2.5 bpm @ 1900#. Pump 70 sks Class H cement @ 1.6 bpm, displaced w/7.5 bbls water. Shut down. TOH w/packer & tbg. Pressured up csg to 2000#. Shut in. SDFN. WOC.

DWC-\$ 5,751 CWC-\$ 11,436 CMIC- GS



SUMMARY REPORT

8/13/98

FEDERAL 32-21 (PC)

07/10/98 Days- 4; TD- 1859'; PBTD- 1840';PERFORATE & FRAC;Fruitland Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8;RIH w/3 7/8" bit on tbg & drill out 90' of cement. Circulate hole clean. TOH w/bit & tbg. Pressure test csg to 2500#. RU WL & RIH w/3 1/8" csg gun & perf 1599'-1612' 2 SPF, 1638'-1640' 4 SPF, 1642'-1649' 4 SPF. POOH w/csg gun. RU BJ & broke formation down @ 1200# using 60 bbls 2% KCL water. BD w/95 ball sealers. Balled off @ 2500#. RD BJ & RIH w/junk basket to retrieve balls. RD WL. RU BJ frac using 70 quality N2 cross link gel. Pumped cross link gel pad @ 2400#. Started 1# sand @ 2650#, 3# sand @ 3650#. Screened off. Shutdown @ 3800#. Opened well up & blew sand out of csg. Tried to establish rate using cross link gel water, unable to get back into well. Pumped 23,404# Arizona sand, left 6000# in pipe, 17000# in formation. SDFN.  
DWC-\$ 32,187 CWC-\$ 43,623 CMIC- GS

07/11/98 Days- 5; TD- 1859'; PBTD- 1840';CLEAN OUT WELL BORE;Fruitland Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8;RIH w/notch collar & tbg, clean out sand from 1450'. PBTD using rig pump. Hook up compressor, circulate hole dry. Pull tbg up above perfs. SDFN.  
DWC-\$ 1,400 CWC-\$ 45,023 CMIC- GS

07/12/98 Days- 6; TD- 1859'; PBTD- 1840';CLEAN OUT WELL BORE;Fruitland Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8;Lower tbg & check for fill. No fill, no water. Pull tbg up above perfs. SDFN.  
DWC-\$ 850 CWC-\$ 45,873 CMIC- GS

07/13/98 Days- 7; TD- 1859'; PBTD- 1840';SHUT DOWN;Fruitland Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8;SDFN. WOO.  
DWC-\$ 0 CWC-\$ 45,873 CMIC- GS

07/14/98 Days- 8; TD- 1859'; PBTD- 1840';RUN TBG & RD MO;Fruitland Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8;Csg 170#. Blew well down. Lowered tbg & tag fill (2' of fill). Circ sand out. TOOH w/tbg & notch collar. RIH w/SN (1.10) 52 jts J-55, 2 3/8" tbg (1623.54'), landed @ 1624.64'. ND BOP NU WH. RD MO.  
DWC-\$ 5,597 CWC-\$ 51,470 CMIC- GS

07/15/98 Days- 9; TD- 1859'; PBTD- 1840';SHUT IN;Fruitland Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8; BWPD- 0;Tbg 0#, csg 0#. The 170# shut in we had yesterday was nitrogen still coming back from frac.  
DWC-\$ 0 CWC-\$ 51,470 CMIC- GS



SUMMARY REPORT

8/13/98

**FEDERAL 32-21 (PC)**

07/16/98      Days- 10; TD- 1859'; PBTD- 1840'; SHUT IN; Fruitland Coal;  
Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8; BWPD- 0; Tbg 0#,  
csg 0#.  
DWC-\$ 0 CWC-\$ 51,470 CMIC- GS

07/17/98      Days- 11; TD- 1859'; PBTD- 1840'; NO ACTIVITY; Fruitland  
Coal; Perfs- 1,599'-1649'; Csg- 4 1/2; Tbg- 2 3/8; BWPD-  
0; Tbg 0#, csg 0#.  
**Final report until final activity.**  
DWC-\$ 0 CWC-\$ 51,470 CMIC- GS

08/07/98      Days- 12; TD- 1,840; PBTD- 1,661; RUN RODS & PUMP; Fruitland  
Coal; Perfs- 1599' - 1649'; Csg- 4 1/2; Tbg- 2 3/8; BWPD-  
0; MIRU ND WH NU BOP. POOH w/52 jts 2 3/8" tbg & SN. RIH w/MA  
(20') @ 1620.01, PS (3.65'), SN (1.10') @ 1596.09. 51 jts 2  
3/8" tbg (1596.09). ND NU WH. RIH w/gas anchor (4'), 2" x 1  
1/4" x 7' x 10' RHAC-Z BHP, 63 3/4" grade D rods, 1-4" sub,  
16 polish rod w/liner. RDMO.  
DWC-\$ 4,314 CWC-\$ 55,784 CMIC- GS

08/12/98      Days- 13; TD- 1840; PBTD- 1685; WAITING ON PUMPING  
UNIT; Fruitland Coal; Perfs- 1599'-1649'; Csg- 4 1/2; Tbg- 2  
3/8; Waiting on pumping unit.  
**Final report until further activity.**  
DWC-\$ 0 CWC-\$ 55,784 CMIC- GS

District I  
 PO Box 1980, Hobbs, NM 88241-1980  
 District II  
 811 South First, Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals & Natural Resources Department  
**RECEIVED**  
 BLM  
**OIL CONSERVATION DIVISION**  
 2040 South Pacheco  
 Santa Fe, NM 87505

NSV-3959

Form C-102  
 Revised October 18, 1994  
 Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

070 FARMINGTON, NM

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-24793		<sup>2</sup> Pool Code	<sup>3</sup> Pool Name Basin-Fruitland Coal
<sup>4</sup> Property Code 005955	<sup>5</sup> Property Name Federal 32		<sup>6</sup> Well Number 21
<sup>7</sup> OGRID No. 025773	<sup>8</sup> Operator Name Louis Dreyfus Natural Gas Corp.		<sup>9</sup> Elevation 6148' GR

#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	32	27N	11W		990	North	1840	West	San Juan

#### <sup>11</sup> 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

<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill N	<sup>14</sup> Consolidation Code C	<sup>15</sup> 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><b>RECEIVED</b>          DEC 11 1998          OIL CONSERVATION DIV.</p>	<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature: <u>Terrye D. Bryant</u> Printed Name: <u>Terrye D. Bryant</u> Title: <u>Regulatory Technician</u> Date: <u>12/1/98</u>
		<b>18 SURVEYOR CERTIFICATION</b> 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.  Date of Survey: _____ Signature and Seal of Professional Surveyor: _____
		<p><b>ACCEPTED FOR RECORD</b>          DEC 07 1998          FARMINGTON DISTRICT OFFICE</p>
		Certificate Number: _____

NMOC D