

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

NM-96568

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

30-N-2987/

7. FARM OR LEASE NAME, WELL NO.

McGruder "13" Federal Com. #1

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT

Happy Valley Morrow Gas
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 13, T22S-R25E

12. COUNTY OR PARISH
Eddy13. STATE
NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other ☐3. NAME OF OPERATOR
Louis Dreyfus Natural Gas Corp.4. ADDRESS AND TELEPHONE NO.
14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 731345. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 1930' FWL & 280' FSL Sec. 13, T22S-R25E
At top prod. interval reported below 3533' FWL & 710' FSL Sec. 13, T22S-R25E
At total depth 3514' FWL & 715' FSL Sec. 13 T22S-R25EACCEPTED FOR RECORD
AUG 18 1998
DATE ISSUED 8/25/9714. PERMIT NO.
11/25/97

15. DATE SPUDDED 11/25/97

16. DATE T.D. REACHED 1/14/98

17. DATE COMPL. (Ready to prod.) 3/9/98

18. ELEVATIONS (OF, RKB, RT, GR, ETC.)
3399' GL 3416' DF 3417' KB

19. ELEV. CASING HEAD

20. TOTAL DEPTH, MD & TVD 11825' MD 11490' TVD

21. PLUG, BACK T.D., MD & TVD 11088' MD 10753' TVD

22. IF MULTIPLE COMPL., HOW MANY? N/A

23. INTERVALS DRILLED BY

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)
11010'-11066' MD Morrow
10675'-10731' TVD

25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
Azimuthal Laterlog/MCFL, Three Detector Litho-Density Compensated Neutron

27. WAS WELL CORRO 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
20"	94# K-55	355'	26"	Surface-700 sx. Cl. C	-0-
13 3/8"	54.5# J-55	1121'	17 1/2"	Surface-925 sx. Cl. C	-0-
9 5/8"	40# J-55/K-55	HC 5000'	12 1/4"	Surface-1234 sx. Poz 35/65	493 sx. Cl. C
5 1/2"	17# S95/Pl10	HC 11819'	8 3/4"	9758'-500 sx. Cl. H	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	10,880'	10,880'

31. PERFORATION RECORD (Interval, size and number)

11,127'-11,133' 2 SPF 12 holes - CIBP set at 11,106' w/18' cement on plug
11,010'-11,018' 2SPF 17 holes
11,062'-11,066' 2 SPF 9 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11127' - 11133'	88,135 scf N ₂ , 2000 gals. 7 1/2% ac
11010' - 11018'	153,142 scf N ₂ , 4,500 gals. 7 1/2% acid, 12 ball sealers
11062' - 11066'	129,046 scf N ₂ , 5000 gals. 7 1/2%

33. PRODUCTION

DATE FIRST PRODUCTION 3/9/98

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing

WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BDL.	GAS—MCF.	WATER—BDL.	GAS-OIL RATIO
3/21/98	24	1/4"		-0-	525	-0-	N/A

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BDL.	GAS—MCF.	WATER—BDL.	OIL GRAVITY-API (CORR.)
360			-0-	525	-0-	N/A

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

TEST WITNESSED BY

Sold

35. LIST OF ATTACHMENTS

Logs, Inclination Report, Directional Survey

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

SIGNED [Signature] TITLE Regulatory Technician DATE 7/31/98

* (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.

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.
Middle Morrow	11,194'	11,210'	Gas
Middle Morrow	11,178'	11,189'	Water
Middle Morrow	11,126'	11,141'	Gas
Upper Morrow	11,060'	11,070'	Gas
Upper Morrow	11,008'	11,018'	Gas

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	2090'	2090'
Bone Spring	4581'	4581'
Wolfcamp	8460'	8211'
Strawn	9990'	9657'
Atoka	10,216'	9882'
Upper Morrow	10,936'	10,601'
Middle Morrow	11,122'	10,787'
Lower Morrow	11,825'	11,490'