

Form 3160-4
(November 1983)
(formerly 9-330)UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NEW MEXICO 88201Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

MURPHY OPERATING CORPORATION

3. ADDRESS OF OPERATOR

P. O. Drawer 2648, Roswell, New Mexico 88201

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

At surface 455' FNL & 2310' FEL, Sec. 20, T-18S, R-33E,
Unit Ltr. B

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

12-4-85

12. COUNTY OR
PARISH
Lea

13. STATE

New Mexico

15. DATE SPUDDED 2-28-86 16. DATE T.D. REACHED 4-16-86 17. DATE COMPL. (Ready to prod.) 4-27-86 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3860' RKB - 3842' GR 19. ELEV. CASINGHEAD 3843'

20. TOTAL DEPTH, MD & TVD 11,392' 21. PLUG, BACK T.D., MD & TVD 11,356' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS 0' - 11392' CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
TOP - 7334' Perfs: 7337', 7338', 7339', 7344', 7346', 7347', 7349', 7355'
BTM - 7370' Delaware Sandstone Bone Spring Kz 1 J.S.P.F. 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

CNL, cased hole CNL, CBL

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	381	17-7/8"	420 sx. Class C, circ 85 sx.	
8-5/8"	24# & 32#	2931	12-1/4"	1165 Lite 150 Class C, circ	
5-1/2"	17#	11391	7-7/8"	330 sx. Class H, 22-1/2" 110 sx. 50-50 POZ MIX "A"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	7449'	

31. PERFORATION RECORD (Interval, size and number)

10886'-10932' .37" 29 holes, set CIBP @ 10764',
dumped 35 sxs. cmt. on top.
10559'-10579' .37" 10 holes, sqzed. w/200 sxs.
Class H Cmt.
10425'-10443' .37" 7 holes, Set CIBP @ 9850',
dumped 35 sxs. cmt. on top.
7337' - 7355' .37" 8 holes.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10886' - 10932'	5000 gals. 15% MCA
10559' - 10579'	3000 gals. 15% MCA sqzed. w/200 sx
10425' - 10443'	2000 gals. 15% MCA Class H, CIBP 9850'
7337' - 7355'	2000 gals. 15% MCA, frac w/20,000 g Xlinkgel 36,000# sand

33. PRODUCTION

DATE FIRST PRODUCTION 8-1-86 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) pumping - 2 1/2" X 1 1/2" X 24' - insert pump WELL STATUS (Producing or shut-in) producing

DATE OF TEST 9-1-86 HOURS TESTED 24 CHOKE SIZE 2" PROD'N. FOR TEST PERIOD 10 OIL—BBL. 10 GAS—MCF. 0 WATER—BBL. 20 OIL-GRAVITY-API (CORR.) 36.5

FLOW. TUBING PRESS. N.A. CASING PRESSURE 20# CALCULATED 24-HOUR RATE 10 ACCEPTED FOR RECORD

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

used on lease

35. LIST OF ATTACHMENTS

CNL, cased hole CNL, CBL & Deviation Report.

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

SIGNED

Mark R. Murphy

TITLE President

DATE Sept. 18, 1986

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

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):

GEOLOGIC MARKERS

38.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	6970'	6990'	DST #1: 6961'-6999'	Yates	3034'	
			Sample Recovery: 1300 cc HGC & SOC mud 280 psi(1.152 cu.ft.gas) ISIP	Queen	4196'	
			Pipe Recovery: 361' HGC & SOC Mud 2nd IF 84.2 psi 2nd F.F. 127.3 psi FSIP 1921.8 psi FHP 3443 psi	Penrose	4470'	
			Btm. Hole Temp. 115° F	Grayburg	4806'	
iware	7336'	7355'	DST #2: 7330'-7374'	Delaware	4941'	
			Sampler Recovery: 100 cc. 36.5° API oil 2300 cc. wtr. 140 psi(.15 cu.ft.gas)	Bone Springs	7564'	
			Pipe Recovery: 6238' gas in drlg. pipe 90' of 36.5° oil 177' O&GC mud 320' mud & gas cut wtr.	Wolfcamp	10422'	
			Btm. Hole Temp. 114° F			
Bone Springs	8554'	8750'	DST #3: 8556'-8752'			
			Sampler Recovery: 600 cc. drlg. mud 18 psi(.19 cu.ft.gas)			
			Pipe Recovery: 40' drlg. fluid ISI 182 psi F.F. 182 psi FSI 227 psi FHP 4119 psi			
			Btm. Hole Temp. 140° F			
Wolfcamp	10889'	10932'	DST #4: Packer failed, no test. Rec. 1000' water blanket.			