

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other instructions on reverse side)

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
Jerome P. McHugh

3. ADDRESS OF OPERATOR
P O Box 208, Farmington, NM 87499

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

At surface 1850' FSL - 1850' FEL

At top prod. interval reported below

At total depth

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

14. PERMIT NO. DATE ISSUED
11-13-84

5. LEASE DESIGNATION AND SERIAL NO.

NM 23034

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Twilight Zone

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Gavilan Mancos Ext.

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

Sec.12,T24N, R2W, NMPM

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

15. DATE SPUDDED 11-18-84 16. DATE T.D. REACHED 12-4-84 17. DATE COMPL. (Ready to prod.) Plan to install pump-in equipment 1-15-85 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7355' GL; 7367' RKB 19. ELEV. CASINGHEAD 7355'

20. TOTAL DEPTH, MD & TVD 8150' 21. PLUG, BACK T.D., MD & TVD 8104' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY T.D. 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6819' - 7563' Mancos 25. WAS DIRECTIONAL SURVEY MADE no 26. TYPE ELECTRIC AND OTHER LOGS RUN GR-IEL, GR-FDC/CNL, GR-CCL 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
9-5/8" OD	40#	233' RKB	12-1/4"	147 cf class "B"+2% CaCl	---
5-1/2"	15.5# & 17#	8148'	8-1/2"	2313 cf in 3 stages (SEE REVERSE SIDE FOR DETAILS OF CEMENTING RECORD)	---

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
					2-7/8"	7105' RKB

31. PERFORATION RECORD (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.						
6819,34,42,54,59,67,84,97;6912,22,24,31,41,6944,55,61,71,73,84,87,90,97; 7003,13,23,67,72,81,87,99; 7110,14 (32 holes) and 7353,63; 7454,69,71,76,93; 7545,49,57,63 (11 holes) TOTAL OF 43 holes.	<table><tr><th>DEPTH INTERVAL (MD)</th><th>AMOUNT AND KIND OF MATERIAL USED</th></tr><tr><td>6819-7563'</td><td>70,000 gals 20# x-linked gel (Smith's WGX-5)</td></tr><tr><td></td><td>89,500# 20/40 sand</td></tr></table>	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	6819-7563'	70,000 gals 20# x-linked gel (Smith's WGX-5)		89,500# 20/40 sand
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33.* PRODUCTION RECORD							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pump-jack, etc.)				WELL STATUS (Producing or Shut-in)	
1-15-85		Swabbing and Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-21-85	8			45	23	30*	511
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
40	600		135	69	90*	43 est.	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented - to be sold

35. LIST OF ATTACHMENTS
*Note: Water production is frac water

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Jim L. Jacobs TITLE Geologist DATE 6-5-85

*(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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
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28. DETAILS OF CEMENTING RECORD (Con't. from front page)

Halliburton cemented casing in 3 stages: 1st stg: 375 sx (525 cf) of 50/50 B-Poz w/2% gel, 6 1/4# of gilsonite & 1/4# of flocele/sk. 2nd stg: 190 sx of 65/35 B-Poz w/12% gel & 1/4# flocele/sk + 270 sx of 50/50 B-Poz w/2% gel & 1/4# flocele (slurry vol = 763 cf). 3rd stg: 320 sx 65/35 B-Poz w/12% gel & 1/4# flocele/sk + 85 sx 65/35 B-Poz w/12% gel, 6 1/4# gilsonite & 1/4# flocele/sk + 85 sx 50/50 B-Poz w/2% gel, 6 1/4# gilsonite & 1/4# flocele/sk (slurry vol = 1025 cf.) TOTAL SLURRY VOLUME USED ALL 3 STAGES = 2313 cf.

Ran Temperature Survey: Indicated top of cement = 1925'.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	3115'	
Kirtland	3290'	
Pictured Cliffs	3437'	
Lewis	3518'	
Cliff House	5168'	
Menefee	5271'	
Point Lookout	5648'	
Mancos	5915'	
Gallup	6417'	
Greenhorn	7795'	
Graneros	7870'	
Dakota	7985'	