

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form 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

3. ADDRESS OF OPERATOR

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

At surface 1827 FSL and 1846 FEL SEC. 26-25N-2W

At top prod. interval reported below Same as above

At total depth Same as above

14. PERMIT NO. BUREAU OF LAND MANAGEMENT DATE ISSUED 15. COUNTY OR PARISH RIO ARriba 16. STATE NEW MEXICO

15. DATE SPUDDED 5-13-84 16. DATE T.D. REACHED 5-28-84 17. DATE COMPL. (Ready to prod.) 11-12-84 18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 7404 GR 19. ELEV. CASINGHEAD 7404 GR

20. TOTAL DEPTH, MD & TVD 8200 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* TWO 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7902'-7998' DAKOTA 7740'-7805' GREENHORN 25. WAS DIRECTIONAL SURVEY MADE YES

26. TYPE ELECTRIC AND OTHER LOGS RUN INDUCTION, CNL-FDC 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"	36# K-55	215'	12 1/4"	110# Class B w/ 1/4" CaCl per ex	— 0 —
7"	23# and 26# K-55	8193'	8 3/4"	* see attachment	— 0 —

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8" 4.7#	7843'	7150'
							7832'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
7902'-7998', 0.31" dia., 14 holes		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7740'-7805', 0.31" dia., 14 holes		* see attachment	

33.* PRODUCTION							
DATE FIRST PRODUCTION 10/29/84		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) FLOWING				WELL STATUS (Producing or shut-in) TA - WOPLC for GAS	
DATE OF TEST 11-9-84	HOURS TESTED 24	CHOKE SIZE 1/2"	PROD'N. FOR TEST PERIOD	OIL—BBL. 36	GAS—MCF. 150	WATER—BBL. 14-load	GAS-OIL RATIO
FLOW. TUBING PRESS. 40#	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. 36	GAS—MCF. 150	WATER—BBL. 14-load	OIL GRAVITY-API (CORR.) 42	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY VENTED RON SORROW

35. LIST OF ATTACHMENTS One page - 28, 31, 32, DEVIATION REPORT ACCEPTED FOR RECORD

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

SIGNED Christopher Phillips TITLE Manager of Field Operations DATE 3/18/85

*(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);

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
TERTIARY	2350	2700	H ₂ and CH ₄	NO ALAMO	3221	
PIC. CLIFFS	3480	3540	DEPLETED GAS RESERVOIR	KIRTLAND	3356	
CHACRA	4450	4485	Slight poro. ; minor GAS show	FRUITLAND	3430	
MEGA VERDE	5190	5900	OIL, GAS and WATER indicated	PIC. CLIFFS	3479	
UPPER MANCOS	{ 6020 6410	{ 6077 6500 }	Slight OIL indication	LEWIS	3628	
GALLUP	6720	7150	GAS and OIL	CHACRA	4448	
SANDSEE	7420	7550	GAS and OIL	CLIFF HOUSE	5190	
GREENHORN	7720	7760	GAS	MENEFEE	5321	
DAKOTA	{ 7898 8000	{ 8000 8031	OIL and GAS	POINT LOOKOUT	5612	
			Slight OIL indication; looks water wet.	MANCOS	5896	
				GALLUP	6700	
				DAKOTA	7856	

(ALL TVD'S
SAME AS MD'S.)

E. ALEX PHILLIPS
1200 PHILTOWER BLDG.
TULSA, OKLA. 74103

Attachment to Form 3160-4
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
for the GAVILAN FEDERAL #2 WELL
dated 3/17/85

28. PRODUCTION CASING and CEMENTING RECORD

A. 7" 23# and 26# K-55, SET at 8,193'; 8.75" HOLE

B. CEMENTING RECORD(3 STAGE)

1.1 PUMP 10 bbls CW

2 LEAD SLURRY: 125 sx Lite 65/35 cement w/ 6% gel, 10# D-42/sx, 1/4# D-29 flake/sx, 7% D-44 (salt)

3 TAILED IN w/ 300 sx RFC 10-0+, w/ 6# D-42/sx, 1/4# D-29/sx

2.4 PUMP 10 bbls CW

5 LEAD SLURRY: 150 sx 65/35 Lite w/ 6% gel, 10# D-42/sx 1/4# D-29 flake/sx, 7% D-44

6 TAILED IN w/300 sx RFC 10-0+,w/ 6# D-42/sx, 1/4# D-29 flake/sx

3.7 PUMP 10 bbls CW

8 LEAD SLURRY: 200 sx 65/35 Lite w/ 6% gel, 10# D-42/sx 1/4# D-29 flake/sc, 7% D-44

9 TAILED IN w/ 150 sx Class B+7% salt,6# D-42/sx, 1/4# D-29/sx

31. PERFORATION RECORD:

A. 7,902'-7,998' --- 14 holes (.31" dia.)

B. 7,740'-7,805' --- 14 holes (.31" dia.)

C. 6,828'-7,123' --- 46 holes (.31" dia.)

32. ACID and FRAC RECORD:

A. 7,902'-7,998' --- acidized w/ 1500 gals 15% HCL w/ Surfactants, Cla-Sta @ Ave. Inj. Rate 4 BPM @ 3000#

B. 7,740'-7,805' --- acidized w/ 1500 gals 15% HCL Cla-Sta, Fe sequest. Agent @ 3 BPM @ 3,100#

C. 7,902' -7,998'and 7,740 -7805' --- FRAC: 25 BPM w/ 70,000 gals 80 qual. N2 foam & 65,000# 20/40 sand AIR: 25 BPM ; AIP 3,500# Csg, 6,700# Tbg.

D. 6,828' -7,123' --- acidized w/ 2000 gals 15% HCL w/ Cla-Sta, Fe sequest. Agent. Balled out to 4500# ISDP 600#

E. 6,828' -7,123' --- FRAC: 50 BPM w/ 60,000 gals 80 qual. N2 foam & 60,000# 20/40 sand. Max. IP: 2980# Csg, 6900# Tbg. Ave. IP: 2800# Csg, 6000# Tbg. 10 min. SIP 1700# Csg & Tbg. (Frac was done through 23 perfs:the zone was reperfed after frac, 1 foot above each original perf)

RECEIVED
MAR 22 1985
OIL COMPANY
DOW