

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

155

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. RESER. ☐ Other _____

2. NAME OF OPERATOR

Boyd & McWilliams Corporation

3. ADDRESS OF OPERATOR

704 Western United Life Bldg., Midland, Tx. 79701

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

At surface 2100' FNL & 1980' FEL of Sec. 6

At top prod. interval reported below

At total depth

RECEIVED BY

NOV 10 1986

DATE ISSUED

O. C. D.

14. PERMIT NO.

DATE ISSUED

ARTESIA, NM 89210

15. DATE SPUDDED

8/6/86

16. DATE T.D. REACHED

9/10/86

17. DATE COMPL. (Ready to prod.)

10/06/86

18. ELEVATIONS (DV, RKB, RT, GR, ETC.)*

2708.0 Gr.

19. ELEV. CASINGHEAD

3710'

20. TOTAL DEPTH, MD & TVD

10,550'

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

2585'

22. IF MULTIPLE COMPL., HOW MANY*

2

23. INTERVALS DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

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

Grayburg: 2416-2439' & 2514-2518'

Queen: 1899-1903'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Compensated Neutron-Litho Density; Dual Laterolog Micro-SFL; PDC

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"	54/50	320'	17-1/2"	325 sx. Cl. C w/2° CC	0
8-5/8"	24 & 32	2635'	11"	300 sx. lite & 520 sx. Cl. C	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	1812' KB	-

31. PERFORATION RECORD (Interval, size and number)

23-0.45" jet shots @ 2416', 17', 18', 19', 22', 23', 24', 26', 27', 28', 31', 33', 34', 35', 36', 37', 38', 39', 2514', 15', 16', 17' & 18'. Re-perforated w/9-0.42" holes @ 2428', 31', 33', 34' & 35'. 6 sand jet

33*shots @ 1899', 1901 & 1903'.

PRODUCTION

sand.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2416-2439' & 2514-2518'	3800 gal 15% acid; 40,000 gal. gel
1899-1903'	2% KCL wtr. & 40,000# sand.
	2000 gal. 15% acid; 20,000 gal. gel 2% KCL wtr. & 40,000# sand.

DATE FIRST PRODUCTION

10/06/86

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

2-1/2" x 1-3/4" x 12' insert pump

WELL STATUS (Producing or shut-in)

Producing

DATE OF TEST

10/24/86

HOURS TESTED

24

CHOKE SIZE

0

PROD'N. FOR TEST PERIOD

→

OIL—BBL.

17

GAS—MCF.

185

WATER—BBL.

0

GAS-OIL RATIO

10,882

FLOW. TUBING PRESS.

0

CASING PRESSURE

0

CALCULATED 24-HOUR RATE

→

OIL—BBL.

ACCEPTED FOR RECORD

OIL GRAVITY-API (CORR.)

33.0°

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

Vented

NOV 3 1986

TEST WITNESSED BY

Bill Hope

35. LIST OF ATTACHMENTS

6 copies of DST #1 & DST #2 Summaries

6 logs, Inclination Report & 2 Sundry notices (6 copies), Downhole commingling letter.

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

Goodrum Oil & Gas Prod. Acctg.

SIGNED

David Goodrum

TITLE

Agent

DATE 10/29/86

*(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	MEAS. DEPTH	TRUE VERT. DEPTH
Queen Sand Penrose Grayburg Sand Premier Lower Grayburg San Andres	1897	1910	Sandstone, Average porosity 14%	Penrose	1897	1897
	2422	2440	Sandstone, Average porosity 9%	Premier	2422	2422
	2514	2518	Sandstone, Average porosity 7%			
	2970	2970	Limestone, Average porosity 7%, ran wireline, repeat formation test & had no permeability.	Lower Grayburg	2514	2514
	3416	3440	Limestone, Average porosity 9%, water, no permeability.	San Andres	2970	2970
Penn Lime	8626	8660	Limestone, Average porosity 8%. DST #1: 8632-8651'. IHP 4341#, FHP 4213#. 30" IFP 32-128#; 60" ISIP 2934#; 90" FFP 160-288#; 180" FSIP 3027#. Recovery 508' GCDM.	Penn Lime	8626	8626
Upper Morrow Sand	10362	10410	Sandstone, Very tight. DST #2: 10354-10484'. IHP 5501#, FHP 5501#. 30" IFP 182-296#; 60" ISIP 3867#; 120" FFP 364-568#; 240" FSIP 3137#. Recovery 900' DM.	Upper Morrow	10362	10362
Lower Morrow Sand	10416	10460	Sandstone, Very tight.	Lower Morrow	10416	10416

WELL NAME AND NUMBER Empire Fed. #1 Rig #7

LOCATION Section 6, T17S, R29E Eddy County
(Give Unit, Section, Township and Range)

OPERATOR Boyd & McWilliams

DRILLING CONTRACTOR McVay Drilling Company

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
<u>3/4 163</u>	<u>1/2 5,453</u>	<u>_____</u>
<u>1 323</u>	<u>3/4 5,918</u>	<u>_____</u>
<u>1 1/2 550</u>	<u>1/2 6,411</u>	<u>_____</u>
<u>1 796</u>	<u>1 1/2 6,749</u>	<u>_____</u>
<u>1/2 1,072</u>	<u>1-3/4 7,061</u>	<u>_____</u>
<u>0 1,381</u>	<u>1 7,370</u>	<u>_____</u>
<u>3/4 1,722</u>	<u>1/2 7,899</u>	<u>_____</u>
<u>1 2,062</u>	<u>1/4 8,421</u>	<u>_____</u>
<u>1/2 2,370</u>	<u>1 8,844</u>	<u>_____</u>
<u>1/4 2,635</u>	<u>3/4 9,338</u>	<u>_____</u>
<u>3/4 2,948</u>	<u>1 9,681</u>	<u>_____</u>
<u>1 1/2 3,442</u>	<u>1 1/2 10,181</u>	<u>_____</u>
<u>1 3,938</u>	<u>1 10,550</u>	<u>_____</u>
<u>3/4 4,461</u>	<u>_____</u>	<u>_____</u>
<u>1 4,958</u>	<u>_____</u>	<u>_____</u>

Drilling Contractor McVay Drilling Company

By: Don Hays

Subscribed and sworn to before me this 15th day of September, 1986

Philip J. Baur
Notary Public

My Commission Expires: January 27, 1987 Don County New Mexico