

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

458

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

Musselman, Owen & King Operating, Inc. ✓

3. ADDRESS OF OPERATOR

300 N. Marienfeld, Suite 200, Midland, TX 79701

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

At surface 1650' FSL, 330' FWL of Section 1

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE 10-2-88

ARTESIA, OHIO

5. LEASE DESIGNATION AND SERIAL NO.

NM/251099

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Smith Federal

9. WELL NO.

#2

10. FIELD AND POOL, OR WILDCAT

Indian Basin Upper Penn

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

Sec. 1
T-22-S, R-23-E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

15. DATE SPUDDED

1-4-88

16. DATE T.D. REACHED

1-26-88

17. DATE COMPL. (Ready to prod.)

2-12-88

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

3910 GL

19. ELEV. CASINGHEAD

3910'

20. TOTAL DEPTH, MD & TVD

7598

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

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

All

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

7519-7537 Upper Penn

25. WAS DIRECTIONAL SURVEY MADE

Deviation

Survey Attached

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction, Compensated Neutron/Formation Density

27. WAS WELL CORED

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	61#	340'	17-1/2	375 sacks, circ.	
8-5/8	24#	2216'	12-1/4	4 stages, 1110 sx., circ.	
5-1/2	15.5#	7566'	7-3/8	200 sx, top of cement by log 6622	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	7483	7448

31. PERFORATION RECORD (Interval, size and number)

Perf 7519-7537 w/3 1/2" holes per foot. 54 holes total.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7519-7537	Acidize w/800 gal. 20% HCl and 15,000 SCF nitrogen

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
Shut-in		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-12-88	1	32/64	→	2.04	214	0	105,000/1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
740#	Packer	→	48.96	5,141	0	64.2 degrees	

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

Test gas vented, waiting on pipeline connection

TEST WITNESSED BY

A.B. Sam

35. LIST OF ATTACHMENTS

Deviation Survey, Logs

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

SIGNED

Michael Helwig

TITLE

AGENT

DATE

2-19-88

*(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.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Upper Penn	7486	7598 (TD)	Gas	Bone Spring	3270	
			DST 7504'-7568'	Wolfcamp	6485	
			IHP 3638	Upper Penn	7436	
			IFP 1089-1509			
			ISIP 1562			
			FFP 1150-1527			
			FSIP 1560			
			FHP 3635			
			REC 435' GCSW & DM 60" SW			
			Sample Chamber: 8.85 CUFT Gas @ 1200#			