



OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF COLORADO

RECEIVED

APR - 6 1967

File in triplicate for Patented and Federal lands
File in quadruplicate for State lands.

COLO. OIL & GAS COM. COMM.

5. LEASE DESIGNATION AND SERIAL NO.

C-021258-A

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
Cardinal Petroleum Company 14175

3. ADDRESS OF OPERATOR
P. O. Box 1077, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 100' North and 245' East of Center of NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33-
At top prod. interval reported below 2N-56W 2080' FSL; 415 FEL
At total depth same

14. PERMIT NO. 67 70 DATE ISSUED 3/7/67

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

None

8. FARM OR LEASE NAME

Federal Stagecoach

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Stagecoach Field

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

NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33
T2N-R56W

12. COUNTY OR PARISH Morgan 13. STATE Colorado

15. DATE SPUDDED 3/8/67 16. DATE T.D. REACHED 3/14/67 17. DATE COMPL. (Ready to prod.) - 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 4387 GL 4397 KB 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 5254' 21. PLUG, BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY - 23. INTERVALS DRILLED BY - ROTARY TOOLS 0-TD CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN Lane Wells IES from 221'-5254' and Minilog from 4950'-5254'. 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
8-5/8"	24#	221' KB	12-1/4"	160 sacks	DVR ✓ FJP ✓ HHM JAM JJD ✓

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
Plugged with 15 sacks at bottom of surface casing and 10 sacks at top of surface casing, and 30 sacks across the "ID" sand from 5170' to 5080'.			

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

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

35. LIST OF ATTACHMENTS

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

SIGNED Ray L. Harrison TITLE Exploration Manager DATE March 28, 1967

See 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.
			DST No. 1 - Unable to reach bottom
			DST No. 2 - 5122-5129 ("D") sand Pre-flow 40 min, shut in 30 min, open 120 min, shut in 45 min. When initially opened, tool obviously was plugged. After 30 min. the tool was bypassed and this rectified the situation. Had fair blow following bypass which decreased slightly after 1-1/2 hours and continued at this level throughout remainder of test. Recovered 2608' of gas in the drill pipe and 405' of fluid which consisted of 90' of mud, 180' of muddy water and 135' of water.
IFP - 82 FFP - 165	ISIP - 858 FSIP - 823		IHP - 2722 FHP - 2698
			DST No. 3 - 5193'-5201' (J-1 sand) Pre-flow 5 min, shut in 30 min, open 120 min, shut in 30 min. Immediate strong blow which decreased to fair blow in 30 min. and continued throughout remainder of test. Gas to surface in 17 min. at a rate of approximately 50 MCFPD. The flow subsequently decreased to a rate of approximately 9 MCFPD. Recovered 2995' of fluid consisting of 360' of heavily gas cut muddy water and 2635' of heavily gas cut water.
FP - 1094 1259	SIP - 1306 1294		HP - 2805 2721

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Niobrara	4284	
Ft. Hays	4662	
Carlile	4709	
Bentonite	5028	
"D" Sand	5120	
"J" Sand	5192	
Total Depth	5250'	Driller
	5254'	Lane Wells