

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. 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
JACK A. COLE
3. ADDRESS OF OPERATOR
P. O. BOX 191, FARMINGTON, NEW MEXICO 87499
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 370 FNL x 1660 FWL SEC. 11-T23N-R7W
At top prod. interval reported below SAME
At total depth SAME
14. PERMIT NO. 30-039-2-687
DATE ISSUED
5. LEASE DESIGNATION AND SERIAL NO. SF-078362
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME RINCON
9. WELL NO. 14
10. FIELD AND POOL OR WILDCAT LYBROOK GALLUP
11. SEC. T. R. M. OR BLOCK AND SURVEY OK AREA NE 1/4 NW 1/4
SEC. 11-T23N-R7W
12. COUNTY OR PARISH RIO ARriba
13. STATE NEW MEXICO

15. DATE SPUDDED 04/18/90
16. DATE T.D. REACHED 04/26/90
17. DATE COMPL. (Ready to prod.) 05/07/90
18. ELEVATIONS (OF. RKB. RT. GR. ETC.)* GL-6963' KB-6977'
19. ELEV. CASINGHEAD 6963'
20. TOTAL DEPTH. MD & TVD 5670 MD & TVD
21. PLUG. BACK T.D., MD & TVD 5615'
22. IF MULTIPLE COMPL. HOW MANY*
23. INTERVALS DRILLED BY ROTARY TOOLS 0-5670
CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5341-5355
5461-5469 (GALLUP)
5511-5536
25. WAS DIRECTIONAL SURVEY MADE NO
26. TYPE ELECTRIC AND OTHER LOGS RUN
COMPENSATED DENSITY - GAMMA RAY (HALLIBURTON LOGGING SERVICES)
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
8.625" 24 278 12.250" 240 SX, CIRC. MAY 2 1990
4.500" 11.6 5661 7.875" 1025 SX, CIRC. NONE
OIL CON. DIV. DIST. 3

29. LINER RECORD
SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD)
30. TUBING RECORD
SIZE DEPTH SET (MD) PACKER SET (MD)
2.375" 5571.73 NONE

31. PERFORATION RECORD (Interval, size and number)
5341! 5343! 5345! 5347! 5349! 5351!
5355! .34"
5461-5469' 22 HOLES .34" AND .50"
5511, 5513, 5530, 5536 .34"
32. ACID. SHOT. FRACTURE. CEMENT SQUEEZE. ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
5341-5536 1000 GAL. 15% NEHC1
285,000 LB. 20/40 ARIZONA SAND
PLUS 160,894 GAL. N2 FOAMED 30# LINEAR GEL.

33. PRODUCTION
DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)
FLOWING
DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO
05/14/90 24 42/64 40 150 3 2
FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO (CORR.)
100 800 40 150 3 (LOAD) 40.5

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
35. LIST OF ATTACHMENTS
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available information.

SIGNED TITLE PETROLEUM ENGINEER
ACCEPTED FOR RECORD MAY 2 1990
FARMINGTON RESOURCE-AREA
DATE MAY 15, 1990
BY NMOC

*(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.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
OJO ALAMO	1390	1460	FRESH WATER	OJO ALAMO	1390	
PICTURED CLIFFS SS	1950	2060	SALT WATER	KIRTLAND SH	1460	
CLIFFHOUSE SS	3500	3525	SALT WATER	PICTURED CLIFFS	1950	
PT. LOOKOUT SS	4263	4450	SALT WATER	LEWIS SHALE	2060	
UPPER GALLUP SS	5340	5345	OIL & GAS	CLIFFHOUSE SS	3500	
LOWER GALLUP SS	5460	5480	OIL & GAS	MENEFEE FM	3560	
	5510	5550 (UP.)	OIL & GAS	PT. LOOKOUT SS	4263	
				MANCOS SHALE	4455	
				UPPER GALLUP SS	5332	
				LOWER GALLUP SS	5460	
				TD	5670 (L)	

38. GEOLOGIC MARKERS

CASING AND CEMENTING SUMMARY
RINCON No. 14
Jack A. Cole

04/27/90 - TD 5670' at 10:49 AM on 26 APR 90. Ran formation density log 5670' to surface. Set 128 jts (5647.41 ft) of 4-1/2" 11.6# J-55 LT&C casing at 5661.41 feet. Float collar at 5614.68 ft. Pumped 10 bbl fresh water, 10 bbl 2% CaCl₂, 10 bbl fresh water, 10 bbl Flo Check-21, 10 bbl fresh water then cemented with 725 sx (1914 ft³) 65/35 Standard/Pox w/ 12% Bentonite, 6 lb/sx Gilsonite, and 0.6% Halad-9. Tailed in with 300 sx (409 ft³) 50/50 standard/Poz with 2% gel, 6 lb/sx Gilsonite, and 6 lb/sx salt. Had 100% returns throughout job. Circulated 87 bbl (185 sx) cement. Plug Down at 08:21 AM on 27 April 1990.

DIAGRAMMATIC WELL SKETCH

Rincon No. 14
Lybrook (Gallup) Field
Rio Arriba Co., New Mexico

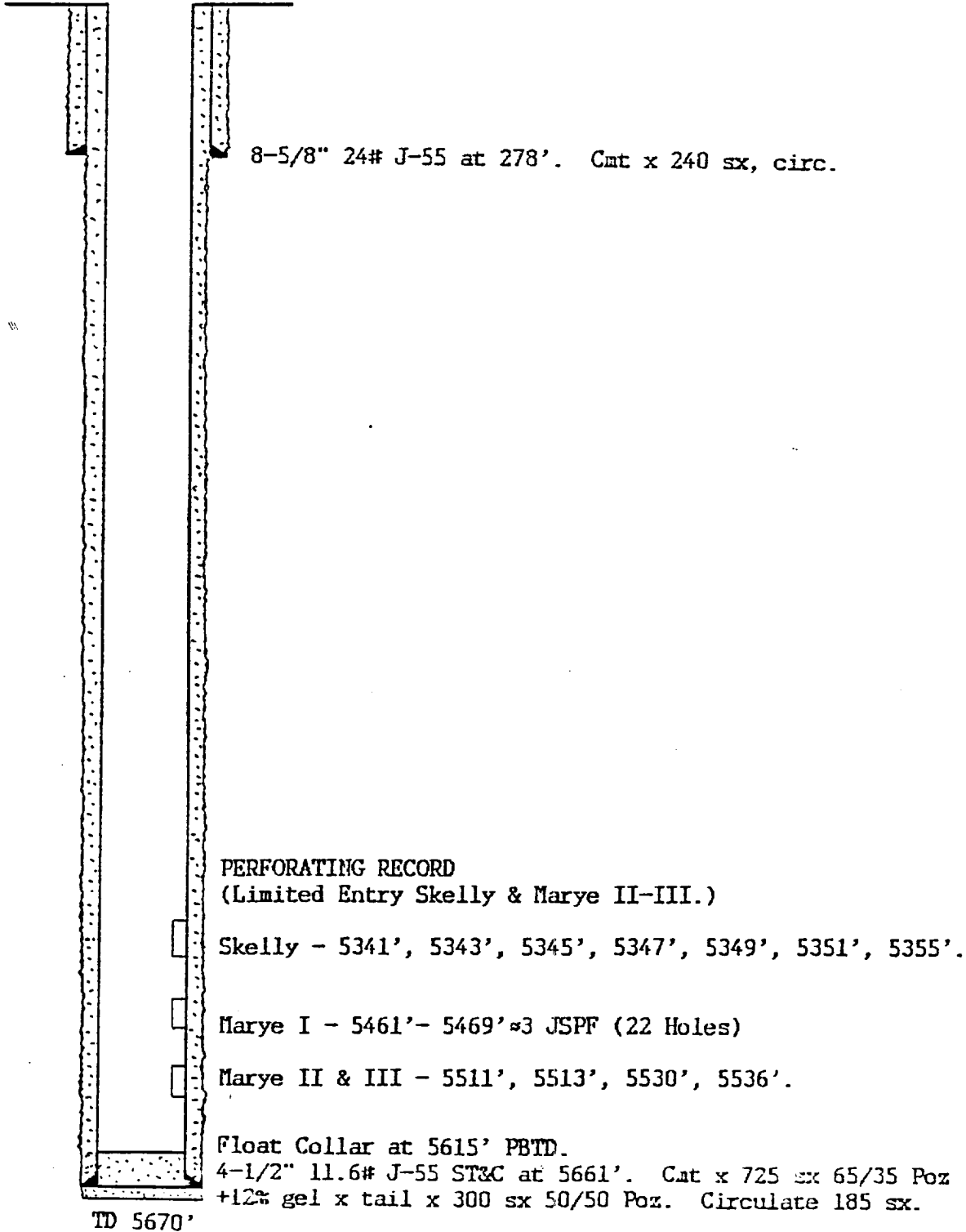
Location: 370 FNL x 1660 FWL Sec 11 T23N R7W

Lease No: SF-078362

Completion Date: May 1990

API No: 300-392-4687

TD: 5670' PBTD: 5615' GL: 6963' MSL KB: 6977' MSL (14' AGL)



N. L. DUNCAN

FRACTURE TREATMENT SUMMARY AND REPORT
JACK A. COLE

Well Name: Rincon No. 14
Date: 04 May 1990

Fluid Data: 30# gel foamed with nitrogen to specified internal phase fraction.
Additives: LGC-V @ 7 gpt, AGF II @ 4.5 gpt, 3N @ 2 gpt.

% Pad= 27.00%

Volume (Gal)	Sd Conc (lb/gal)	Stage Proppant	Cumulative Proppant	Cumulative Volume	Internal Phase Quality	Liquid Vol (gal)	Old Def Quality	Slurry Vol (gal)
43,441	0.00	0	0	43,441	55.00%	19,549	55.00%	19,549
15,000	1.00	15,000	15,000	58,441	60.00%	6,271	53.67%	6,949
10,000	1.50	15,000	30,000	68,441	65.00%	3,737	55.85%	4,415
27,500	2.00	55,000	85,000	95,941	65.00%	10,495	52.80%	12,981
24,000	2.50	60,000	145,000	119,941	65.00%	9,349	49.75%	12,061
18,333	3.00	55,000	200,000	138,275	65.00%	7,287	46.69%	9,773
14,286	3.50	50,000	250,000	152,560	65.00%	5,791	43.64%	8,051
5,000	4.00	20,000	270,000	157,560	65.00%	2,066	40.59%	2,970
3,333	4.50	15,000	285,000	160,894	65.00%	1,404	37.54%	2,082
0	5.00	0	285,000	160,894	0.00%	0	ERR	0
0	6.00	0	285,000	160,894	0.00%	0	ERR	0
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IN ZONE TOTAL	160,894		285,000			65,950		78,832
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FLUSH:	3,000				37.50%	1,875	37.50%	1,875
JOB TOTAL:	163,894		285,000			67,825		80,707
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Total Fluid Required.....						1,615 Barrels		
Frac Tank Capacity Less 2' Bottoms.....						360 Barrels		
Number of Frac Tanks Required For Job.....						4.49 Tanks		

ACTUAL DATA:

AVERAGE INJECTION RATE: 35 BPM
AVERAGE TREATING PRESSURE: 3,300 PSIG - DOWN CASING
INSTANTANEOUS SHUT IN PRESSURE: 2,150 PSIG
5 MINUTE SHUT IN PRESSURE: 2,140 PSIG
10 MINUTE SHUT-IN PRESSURE: 2,126 PSIG
15 MINUTE SHUT-IN PRESSURE: 2,122 PSIG