OCD Artesia

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM59035

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☒ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator ALAMO PERMIAN RESOURCES — Contact: CARIE STOKER — E-Mail: cstoker@helmsoil.com

8. Lease Name and Well No. RED LAKE FEDERAL 001

3. Address 415 WEST WALL ST., SUITE 500 MIDLAND, TX 79701

3a. Phone No. (include area code) Ph: 432-664-7659

9. API Well No. 30-015-26176

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NESW 1980FSL 1650FWL 32.847181 N Lat, 104.167208 W Lon

At top prod interval reported below NESW 1980FSL 1650FWL 32.847181 N Lat, 104.167208 W Lon

At total depth NESW 1980FSL 1650FWL 32.847181 N Lat, 104.167208 W Lon

10. Field and Pool, or Exploratory RED LAKE;QN-GB-SA

11. Sec., T., R., M., or Block and Survey or Area Sec 10 T17S R28E Mer

12. County or Parish EDDY — 13. State NM

14. Date Spudded 08/26/1989

15. Date T.D. Reached 04/25/1990

16. Date Completed ☐ D & A ☒ Ready to Prod. 06/01/1990

17. Elevations (DF, KB, RT, GL)* 3536 GL

18. Total Depth: MD 2117 TVD 2117

19. Plug Back T.D.: MD 2112 TVD 2112

20. Depth Bridge Plug Set: MD 1230 TVD 1230

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
COMP. NEUTRON, DUAL LATERLOG, CGL-GR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☒ No ☐ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	8.625 J55	23.0	0	349	349	225		0	
6.500	4.500 J55	10.5	0	2112	2112	420		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	1938							

25. Producing Intervals — 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) RED LAKE; QN-GB-SA	1428	2062	1479 TO 2062	19.000		
B) SEVEN RIVERS; BOWERS	715	1169	715 TO 1169	19.000	74	
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
1479 TO 2062	FRAC 11420 GALS OIL-16900# 12/20 SAND
1479 TO 1486	FRAC 24000 GALS DIESEL, NITROGEN 44,500# 20/40 SAND
1428 TO 1446	FRAC 48000 GALS DIESEL, NITROGEN 96800# 20/40 SAND
715 TO 1169	ACIDIZE W/ 3,500 GALS 15% NEFE

ACCEPTED FOR RECORD
DEC 28 2012
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/14/2012	11/20/2012	24	→	0.0	0.0	204.0			ELECTRIC PUMPING UNIT

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
2	20	20.0	→					POW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

RECEIVED
DEC 31 2012
NMOCD ARTESIA

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #166019 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Need plan to return to prod. or plans for P&A. If returning to original perfs will need to squeeze 7 Rivers perfs

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
NO MEASURABLE GAS

30. Summary of Porous Zones (Include Aquifers):

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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
SEVEN RIVERS	654	1182	DOLOMITE, LIME, ANHYDRITE	SEVEN RIVERS	654
QUEEN	1182	1420	SAND, LIME, ANHYDRITE	QUEEN	1182
UPPER PENROSE	1420	1476	SAND, ANHYDRITE	UPPER PENROSE	1420
LOWER PENROSE	1476	1632	SAND, LIME, ANHYDRITE	LOWER PENROSE	1476
GRAYBURG	1632	1994	SAND, LIME, ANHYDRITE	GRAYBURG	1632
SAN ANDRES	1994	2117	DOLOMITE, SHALE, SAND	SAN ANDRES	1994

32. Additional remarks (include plugging procedure):
10/11/12
POOH W/ 42 JNTS OF 2 3/8 TUBING; POOH W/ 82 3/4 RODS, 1- 4' 3/4 SUB

10/12/12
80 PSI ON CASING; BLED WELL DWN; RUG UP WIRELINE; RIH W/ JUNK BASKET & GAUGE RING POOH; PICKED UP 4 1/2 KLINE RBP RIH W/ PLUG SET @ 1230 POOH TEST PLUG TO 500 PSI (HELD); RIH PERFED 715'-1169; 2 SPF; 74 HOLES TOTAL; RIG UP TUBING TESTERS; PICKED UP 4 1/2 X 2 3/8 PACKER & SN TEST IN HOLE @ 5000 PSI BELOW SLIPS TO 1216' W/ 38 JNTS OF 2 3/8 TUBING; PUH

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #166019 Verified by the BLM Well Information System.
For ALAMO PERMIAN RESOURCES, sent to the Carlsbad

Name *(please print)* CARIE STOKER Title REGULATORY AFFAIRS COORDINATOR

Signature (Electronic Submission) Date 12/17/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Additional data for transaction #166019 that would not fit on the form

32. Additional remarks, continued

INTO DERRICK W/ 9 STANDS @ 647', LEFT PACKER HANGING ABOVE PERFS

10/15/12
0 PSI ON TUBING; OPENED BOP TIH W/ 8 STANDS OF 2 3/8 TUBING & 1 SINGLE @ 1152'; RU ACID, START W/ FW BROKE CIRC W/ 2.6 BBLS. SWITCHED TO ACID PUMPED 6.3 BBLS SPOT THEN FLUSHED W/ 2.8 BBLS FRESH. PUH @614' W 8 STANDS & 1 SINGLE @614'. REVERSE ACIDE W/ 3 BBLS FRESH;SET PACKER PRESSURED UP ON BACKSIDE @ 400 PSI; TEST LINES A 6000PSI. START PUMPING W/ FRESH BROKE AT 1324 SWITCHED TO ACID PUMPED 19 BBLS BEFORE DROPPING BALLS; TOTAL RNCB'S 80; MAX PSI 1556; MAX RAT 5.0; RD ACID; SI 3 HRS; OPENED UP ON 17/64 CHOKE FLOWED BACK 24 BBLS ACID WTR IN 2 HRS, WELL DIED; RU SWAB; MADE 6 RUNS TO SN SWABBED BACK 3 BBLS; TOTAL RECOVERED 27 BBLS; CLOSE VALVE SDFN

10/16/12
350 PSI ON TUBING; BLED DWN WELL; NO FLOWBACK; STARTED SWABBING BACK SWAB; TOTAL RECOVERED 7 BBLS;UNSET PACKER POOH W TUBING INTO DERRICK; LAID DWN PACKER; CLOSED BOP; SECURED WELL; SDFN

10/17/2012
PU 2 3/8" MULE SHOE MA, 2 3/8" SEATING NIPPLE, 16 JNTS 2 3/8" TUBING, TAC & 21 JNTS 2 3/8" TUBING; TESTED TO 5000 PSI BELOW SLIPS;RD TESTERS; ND BOP; NU WELLHEAD; PREP TO RUN RODS; PU PUMP; 46 3/4" RODS, 6' 7/8" SUB & POLISH ROD;HWO; LOAD TUBING W/ FW & PRESSURE TUBING TO 300 PSI

11/7/12
UNHUNG WH; ND WELL NU BOP; POOH RODS,SUB, PUMP, & TUBING; RIH WITH 25 JNTS TUBING; SET RBP @800' POOH W/ 25 JNTS; PU PACKER; RIH PICKING UP 21 JNTS TUBING @691'; RIH W/ 1 STAND & SINGLE ON TIP OF L-80@792'. TEST RBP TO 1000 PSI; BLED DWN PSI; POOH W/ STAND OF 2 3/8 INTO DERRICK; LAID DWN 1 SINGLE OF 2 3/8 TBG

11/9/12
FLOWBACK; RECOVERED 23.5 BBLS WATER

11/12/12
WELL HAD 280 PSI; BLED GAS DOWN; MADE 2 SWAB RUNS; UNSET PACKER LAYING DNWN 20 JNTS TBG & PACKER; CLOSED BOP

11/13/12
RIH W/ BHA; GOOD PUMP ACTION; HWO; RD

11/20/12
PLUGBACK UNSUCCESSFUL; PLAN TO RETURN TO ORIGINAL PERFS