

HOBBS OGD

NM OIL CONSERVATION
ARTESIA DISTRICT NM OGDForm 3160-4
(August 2007)SEP 06 2016
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 07 2016 Hobbs

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC029435A

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.
NMNM1340862. Name of Operator
APACHE CORPORATION
Contact: EMILY FOLLIS
E-Mail: Emily.Follis@apachecorp.com8. Lease Name and Well No.
CEDAR LAKE FEDERAL CA 723H3. Address 303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053a. Phone No. (include area code)
Ph: 432-818-18019. API Well No.
30-015-43362-00-S1

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

At surface Lot 3 2180FSL 505FWL

At top prod interval reported below Lot 3 2147FSL 331FEL

At total depth NESE 2147FSL 331FEL

10. Field and Pool, or Exploratory
CEDAR LAKE-GLORIETA-YESO11. Sec., T., R., M., or Block and Survey
or Area Sec 7 T17S R31E Mer NMP12. County or Parish
EDDY13. State
NM14. Date Spudded
11/15/201515. Date T.D. Reached
11/25/201516. Date Completed
☐ D & A ☒ Ready to Prod.
07/18/201617. Elevations (DF, KB, RT, GL)*
3722 GL18. Total Depth: MD
TVD 8765
491619. Plug Back T.D.: MD
TVD 8765
491620. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL-CBL-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 Cement Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	420		725	178	0	
12.250	9.625 J-55	40.0	0	3500		1450	464	0	
8.500	7.000 L-80	29.0	0	4314	4644	580	265	0	
8.500	5.500 L-80	20.0	4314	8754					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	4570							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA YESO	5162	8765	5162 TO 8745			OPEN HOLE PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5162 TO 8745	TOTAL SAND 2,633,775#, TOTAL ACID 2501 BBL

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
07/18/2016	07/23/2016	24	→	245.0	273.0	2121.0	37.0		ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→	245	273	2121	111	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	
			→						

ACCEPTED FOR RECORD
/S/ DAVID R. GLASS
AUG 26 2016

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

ELECTRONIC SUBMISSION #345610 VERIFIED BY THE BLM WELL INFORMATION SYSTEM DAVID R. GLASS
** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **
PETROLEUM ENGINEERRECLAMATION DUE:
JAN 18 2017

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.)

SOLD

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
RUSTLER	290	465	ANHYDRITE, DOLOMITE W	RUSTLER	290
SALADO	465	1310	ANHYDRITE, DOLOMITE W	SALADO	465
TANSILL	1310	1467	ANHY. SALT, DOLO. SS O/G/W	TANSILL	1310
YATES	1467	1744	SANDSTONE O/G/W	YATES	1467
SEVEN RIVERS	1744	2348	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	1744
QUEEN	2348	2749	SS, DOLO, LIMESTONE O/G/W	QUEEN	2348
GRAYBURG	2749	3071	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	2749
SAN ANDRES	3071	4563	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3071
GLORIETA	4563	4632		GLORIETA	4563
PADDOCK	4632	8765		PADDOCK	4632

32. Additional remarks (include plugging procedure):

GLORIETA SANDSTONE O/G/W 4563 - 4632
PADDOCK DOLOMITE O/G/W 4632 - TD (8765')

Original name - Raven Federal#23H

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 #345610 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 08/26/2016 (16DMH0292SE)

Name (please print) EMILY FOLLIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 07/25/2016

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 fraudulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

WELL NAME: RAYEN, FEDERAL COM 23H

API: 20015-4382

SPUD DATE: 11/15/2015

PRODUCING FORMATION: YESO PADDOCK

FIELD: CEDAR LAKE (BP)

COUNTY: EDDY

STATE: NEW MEXICO

WORKING INTEREST: 60.00%

SURFACE LOC: 2180 FSL & 505 FWL

SECTION: 7

TOWNSHIP: 17-S

RANGE: 31-E

SURVEY: RONALD J. EIDSON

BOTTOM HOLE LOC: 2147.5 FSL & 331 FWL

SECTION: 7

TOWNSHIP: 17-S

RANGE: 31-E

SURVEY: RONALD J. EIDSON

DRILL RIG: CAPSTAR 114

RIG RELEASE: 11/28/2015

K9 (ft): 3,733.00

GL (ft): 3,722.00

KBGL DIFF (ft): 11.00

TMD (ft): 8,785.00

TD OF PILOT HOLE (ft): N/A

FC DEPTH (ft): 8,745.00

PBMD (ft): 8,785.00

RDV DEPTH (ft): N/A

ORIO VALVE (ft): N/A

DEEPEST TVD (ft): 4,916.00

TAPERED CASING STRING:

7" 29# L-80 TO X-OVER @ 4,314'

TAPERING TO 5.5" 20# L-80 SET @ 8,754'

KOP (ft): 4,346
LATERAL LENGTH (ft): 3,603
TD OF PILOT HOLE (ft): N/A

PACKERS & SLEEVES
TOP PERF (MD): 5,162
BOTTOM PERF (MD): 8,745

TMD (ft): 8,765
FC DEPTH (ft): 8,745
PBMD (ft): 8,785
RDV DEPTH (ft): N/A
ORIO VALVE (ft): N/A

COMPLETION:

STIMULATION:

STATUS:

COMMENTS:

LAST UPDATED BY: HILARY GOULD
LAST UPDATED: 4/28/2016

PACKERS & SLEEVES - 14 STAGES				
TOTAL ACID (RB)	TOTAL LTR (RB)	TOTAL PROPPANT (RB)	MAX WH RATE (bpm)	MAX WH PRESSURE (PSI)
2.501	59,345	2,633.775	92.50	5,819
PRODUCTION METHOD	LIFT TYPE	SETTING DEPTH		
Pumped	ESP	0		
CROSSOVER SUB @ 4,314'				

