

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
ARTESIAN
MAR 2 2016
Artesia

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

5. Lease Serial No.
NMLC029435A

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
N/M 134086

8. Lease Name and Well No.
RAVEN FEDERAL 16H

9. API Well No.
30-015-40913

10. Field and Pool, or Exploratory
CEDAR LAKE:GLORIETA-YESO

11. Sec., T., R., M., or Block and Survey
or Area Sec 7 T17S R31E Mer

12. County or Parish
EDDY COUNTY

13. State
NM

17. Elevations (DF, KB, RT, GL)*
3745 GL

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

2. Name of Operator
APACHE CORPORATION
Contact: EMILY FOLLIS
E-Mail: Emily.Follis@apachecorp.com

3. Address 303 VETERANS AIRPARK LANE SUITE 1000
MIDLAND, TX 79705
3a. Phone No. (include area code)
Ph: 432-818-1801

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface NENE 727FNL 1000FEL
At top prod interval reported below NENE 722FNL 332FEL
At total depth NENE 722FNL 332FEL

14. Date Spudded
04/11/2015
15. Date T.D. Reached
04/23/2015
16. Date Completed
☐ D & A ☒ Ready to Prod.
12/17/2015

18. Total Depth: MD 8322
TVD 4922
19. Plug Back T.D.: MD 8322
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL-CNL-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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0	0	420		970			140
12.500	9.625 HCK55	40.0	0	3500		1450			248
8.500	7.000 L80	29.0	0	4409		500			54
8.500	5.000 L80	20.0	0	8300					

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	4667							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4725	8322	5245 TO 8291			PRODUCING-OPEN HOLE
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5245 TO 8291	TOTAL ACID 1932 BBL, TOTAL SAND 2,075,680 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
12/17/2015	12/24/2015	24	→	892.0	489.0	1972.0	37.0		ELECTRIC PUMP SUBSURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→				548	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	
			→						

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

ELECTRONIC SUBMISSION #327642 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 6/17/2016

ACCEPTED FOR RECORD
MAR 2 2016
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
AB

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	Thg. 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	Thg. 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	330	495	ANHYDRITE, DOLOMITE W	RUSTLER	330
SALADO	495	1403	ANHYDRITE, DOLOMITE W	SALADO	495
TANSIL	1403	1564	ANHYDRITE, SALT, DOLO, SS O/G/W	TANSIL	1403
YATES	1564	1839	SANDSTONE O/G/W	YATES	1564
SEVEN RIVERS	1839	2452	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	1839
QUEEN	2452	2867	SS, DOLO, LIMESTONE	QUEEN	2452
GRAYBURG	2867	3180	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	2867
SAN ANDRES	3180	4634	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3180

32. Additional remarks (include plugging procedure):

Glorieta 4634 - 4725 Sandstone
Paddock 4725 - TD Dolomite

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 #327642 Verified by the BLM Well Information System.

For APACHE CORPORATION; sent to the Carlsbad

Committed to AFMSS for processing by DEBORAH HAM on 02/08/2016 ()

Name (please print) EMILY FOLLIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 01/04/2016

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.

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

Revisions to Operator-Submitted EC Data for Well Completion #327642

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMLC029435A	NMLC029435A
Agreement:		
Operator:	APACHE CORPORATION 303 VETERANS AIRPARK LANE SUITE 1000 MIDLAND, TX 79705 Ph: 432-818-1000	APACHE CORPORATION 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705 Ph: 432.818.1000
Admin Contact:	EMILY FOLLIS REGULATORY ANALYST E-Mail: Emily.Follis@apachecorp.com Ph: 432-818-1801	EMILY FOLLIS REGULATORY ANALYST E-Mail: Emily.Follis@apachecorp.com Ph: 432-818-1801
Tech Contact:	EMILY FOLLIS REGULATORY ANALYST E-Mail: Emily.Follis@apachecorp.com Ph: 432-818-1801	EMILY FOLLIS REGULATORY ANALYST E-Mail: Emily.Follis@apachecorp.com Ph: 432-818-1801
Well Name:	RAVEN FEDERAL	RAVEN FEDERAL
Number:	16H	16H
Location:		
State:	NM	NM
County:	EDDY COUNTY	EDDY
S/T/R:	Sec 7 T17S R31E Mer	Sec 7 T17S R31E Mer NMP
Surf Loc:	NENE 727FNL 1000FEL	NENE 727FNL 1000FEL
Field/Pool:	CEDAR LAKE;GLORIETA-YESO	CEDAR LAKE
Logs Run:	CBL-CNL-GR	CBL-CNL-GR
Producing Intervals - Formations:	PADDOCK	GLORIETA YESO PADDOCK
Porous Zones:	RUSTLER SALADO TANSIL YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES	RUSTLER SALADO TANSILL YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES
Markers:	RUSTLER SALADO TANSIL YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES	RUSTLER SALADO TANSILL YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES