

OCD Artesia

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
EXPIRES: July 31, 2010

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 ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other: _____						5. Lease Serial No. NM044594			
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP						6. If Indian, Allottee or Tribe Name			
3. Address 333 WEST SHERIDAN, OKLAHOMA CITY, OK 73102						7. Unit or CA Agreement Name and No.			
3a. Phone No. (include area code) 405-235-3611						8. Lease Name and Well No. Aquila 22 Fed 2H			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At Surface 1040 FNL 50 FEL At top prod. Interval reported below 1997 FNL 363 FWL At total Depth 1997 FNL 363 FWL						9. AFI Well No. 30-015-40755			
10. Field and Pool or Exploratory Lusk; Bone Spring West						11. Sec, T., R., M., on Block and Survey or Area A 22 T19S R31E			
12. County or Parish Eddy						13. State NM			
14. Date Spudded 11/20/12						15. Date T.D. Reached 12/17/12			
16. Date Completed ☐ D & A ☒ Ready to Prod.						17. Elevations (DR, RKB, RT, GL)* 3536' GL			
18. Total Depth: MD 14,120' TVD 9067'						19. Plug Back T.D.: MD 14,073' TVD			
20. Depth Bridge Plug Set: MD TVD						21. Type Electric & Other Mechanical Logs Run (Submit copy of each)			
22. Was well cored? ☒ Yes (Submit analysis) Was DST run? ☒ Yes (Submit report) Directional Survey? ☐ No ☒ Yes (Submit copy)									
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 Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26"	20" J-55	94#	0	665'		1100 sx Cl C		Surface	
17 1/2"	13 3/8" J-55	68#	0	2600'		1710 sx C; Circ 259 sx		Surface	
12 1/4"	9 5/8" J-55	40#	0	4306'	TOC 1750'	1450 sx Cl C; Circ 78 sx		CBL	
8 3/4"	5 1/2" P110	17#		14,120'	DV 5510'	2060-2096 sx H			
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 7/8"	8834'								
25. Producing Intervals									
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Bone Spring	9400'	14,047'	9400-14,047'		288	Producing			
B)									
C)									
D)									
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval	Amount and Type of Material								
9400-14,047'	Frac'd & acidized 8 stages (see attached detailed summary).								
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
2/16/13	2/16/13	24	→	472	384	1010			Pumping
Choke Size	Tbg. Press. Flwg SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→	472	384	1010			
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
			→						
E	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 page 2)

RECLAMATION
DUE 8-16-13

ACCEPTED FOR RECORD

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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 (Solid, used for fuel, vented, etc.)

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
Delaware Bone Spring	4550' 6980'	6980'	OIL	Salt Base Salt Yates Capitan Delaware Bone Spring Fm	825' 2173' 2379' 2692' 4550' 6980'

32. Additional remarks (include plugging procedure):

☐
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33. Indicate which items have been attached by placing a check in the appropriate box:

Electrical/Mechanical Logs (1 full set req'd)
Sundry Notice for plugging and cement verification

Geologic Report
Core Analysis

DST Report
Other

Directional Survey

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

Name (please print)

Judy A. Barnett x8699

Title

Regulatory Specialist

Signature



Date

5/10/2013

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.



Stimulations Summary

District PERMIAN BASIN		County EDDY		Field Name HACKBERRY		Project Group DELAWARE BASIN		State/Province NM							
Surface Legal Location SEC22 T19S R31E		API/UWI 3001540755		Latitude (°) 32° 39' 1.291" N		Longitude (°) 103° 50' 55.365" W		Ground Elev... 3,536.80		KB - GL (ft) 26.20		Orig KB Elev (ft) 3,563.00		Tubing Head Elevation (ft)	
HYDRAULIC FRAC , 1/14/2013 09:06 , BONE SPRING, OH , 13,641.0 ftKB - 14,045.0 ftKB, HALLIBURTON , 100M WHITE 122.017 SACKS; 16/30 SUP															
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...					
300,000.0	4645.83				2,236.0	4,861.0	79	5,706.0	85	4.00					
HYDRAULIC FRAC , 1/14/2013 10:50 , BONE SPRING, OH , 13,035.0 ftKB - 13,439.0 ftKB, HALLIBURTON , 100M WHITE 121.445 SACKS; 20/40 Pre															
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...					
300,000.0	4979.19				2,436.0	4,344.0	79	5,254.0	84	4.00					
HYDRAULIC FRAC , 1/14/2013 15:09 , BONE SPRING, OH , 12,429.0 ftKB - 12,833.0 ftKB, HALLIBURTON , 100M WHITE 125.474 SACKS; 16/30 SUP															
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...					
300,000.0	4938.00				2,421.0	4,247.0	80	5,388.0	83	4.00					
HYDRAULIC FRAC , 1/14/2013 18:53 , BONE SPRING, OH , 11,823.0 ftKB - 12,227.0 ftKB, HALLIBURTON , 100M WHITE 45.042 SACKS; 16/30 SUPE															
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...					
300,000.0	5430.05				2,412.0	5,494.0	79	6,362.0	80	4.00					
HYDRAULIC FRAC , 1/15/2013 11:34 , BONE SPRING, OH , 11,218.0 ftKB - 11,622.0 ftKB, HALLIBURTON , 100M WHITE 105.013 SACKS; 16/30 SUP															
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...					
300,000.0	5141.07				2,479.0	4,704.0	80	5,269.0	85	4.00					
HYDRAULIC FRAC , 1/16/2013 07:08 , BONE SPRING, OH , 10,612.0 ftKB - 11,016.0 ftKB, HALLIBURTON , 100M WHITE 96.37 SACKS; 16/30 SUPE															
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...					
300,000.0	4764.45				2,511.0	4,400.0	80	4,838.0	85	4.00					
HYDRAULIC FRAC , 1/16/2013 09:06 , BONE SPRING, OH , 10,006.0 ftKB - 10,410.0 ftKB, HALLIBURTON , 100M WHITE 92.756 SACKS; 16/30 CRC															
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...					
300,000.0	5140.12				2,399.0	4,290.0	79	4,683.0	80	4.00					
HYDRAULIC FRAC , 1/16/2013 12:03 , BONE SPRING, OH , 9,400.0 ftKB - 9,804.0 ftKB, HALLIBURTON , 100M WHITE 95.483 SACKS; 16/30 CRC 71															
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...					
300,000.0	4896.36				2,259.0	3,653.0	80	3,975.0	81	4.00					



Proppant Summary by Stage

District PERMIAN BASIN			County EDDY		Field Name HACKBERRY			Project Group DELAWARE BASIN			State/Province NM	
Surface Legal Location SEC22 T19S R31E			API/UWI 3001540755		Latitude (°) 32° 39' 1.291" N		Longitude (°) 103° 50' 55.365" W		Ground Elev MSL (ft) 3,536.80	KB - Ground Level (ft) 26.20	Orig KB Elevation (ft) 3,563.00	Tubing Head Elevation (ft)
Stage #	Date	Total Clean Volume Pumped (bbl)	Proppant Design (lb)	Proppant Firm (lb)	Proppant WB (lb)	Conc Max (lb/gal)	BH Conc Max (lb/gal)	Total Add Amount				
1	1/14/2013 09:06	4645.83	300,000.0	290,179.0		4.00	4.00	100M WHITE 122.017 SACKS; 16/30 SUPER LC 298 SACKS; 20/40 WHITE 2481.734 SACKS				
2	1/14/2013 10:50	4979.19	300,000.0	296,913.1		4.00	4.00	100M WHITE 121.445 SACKS; 20/40 Premium White 2507.173 SACKS; 30/50 CRC 340.442 SACKS				
3	1/14/2013 15:09	4938.00	300,000.0	305,577.0		4.00	4.00	100M WHITE 125.474 SACKS; 16/30 SUPER LC 359 SACKS; 20/40 WHITE 2572.108 SACKS				
4	1/14/2013 18:53	5430.05	300,000.0	273,182.1		4.00	4.00	100M WHITE 45.042 SACKS; 16/30 SUPER LC 401 SACKS; 20/40 WHITE 2285.706 SACKS				
5	1/15/2013 11:34	5141.07	300,000.0	299,388.0		4.00	4.00	100M WHITE 105.013 SACKS; 16/30 SUPER LC 326 SACKS; 20/40 WHITE 2562.931 SACKS				
6	1/16/2013 07:08	4764.45	300,000.0	286,428.1		4.00	4.00	100M WHITE 96.37 SACKS; 16/30 SUPER LC 325 SACKS; 20/40 WHITE 2442.799 SACKS				
7	1/16/2013 09:06	5140.12	300,000.0	308,005.0		4.00		100M WHITE 92.756 SACKS; 16/30 CRC 406.69 SACKS; 20/40 Premium White 2580.605 SACKS				
8	1/16/2013 12:03	4896.36	300,000.0	339,328.0		4.00		100M WHITE 95.483 SACKS; 16/30 CRC 713 SACKS; 20/40 Premium White 2585.143 SACKS				

AQUILA 22 FED 2H - Permian Basin Stimulation Summary - Page No. 1 - Date: 5/8/2013

Stage #	Date	Type	Zone	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Proppant Frm (lb)	Proppant Design (lb)	Total Clean Volume Pumped (bbl)	Conc Max (lb/gal)	P Max (psi)	ISIP (psi)	Q Start Max (bbl/min)
1	1/14/2013 09:06	HYDRAULIC FRAC	BONE SPRING, OH	13,641.0	14,045.0	290,179.0	300,000.0	4645.83	4.00	5,706.0	2,236.0	81
2	1/14/2013 10:50	HYDRAULIC FRAC	BONE SPRING, OH	13,035.0	13,439.0	296,913.1	300,000.0	4979.19	4.00	5,254.0	2,436.0	80
3	1/14/2013 15:09	HYDRAULIC FRAC	BONE SPRING, OH	12,429.0	12,833.0	305,577.0	300,000.0	4938.00	4.00	5,388.0	2,421.0	80
4	1/14/2013 18:53	HYDRAULIC FRAC	BONE SPRING, OH	11,823.0	12,227.0	273,182.1	300,000.0	5430.05	4.00	6,362.0	2,412.0	80
5	1/15/2013 11:34	HYDRAULIC FRAC	BONE SPRING, OH	11,218.0	11,622.0	299,388.0	300,000.0	5141.07	4.00	5,269.0	2,479.0	80
6	1/16/2013 07:08	HYDRAULIC FRAC	BONE SPRING, OH	10,612.0	11,016.0	286,428.1	300,000.0	4764.45	4.00	4,838.0	2,511.0	81
7	1/16/2013 09:06	HYDRAULIC FRAC	BONE SPRING, OH	10,006.0	10,410.0	308,005.0	300,000.0	5140.12	4.00	4,683.0	2,399.0	80
8	1/16/2013 12:03	HYDRAULIC FRAC	BONE SPRING, OH	9,400.0	9,804.0	339,328.0	300,000.0	4896.36	4.00	3,975.0	2,259.0	80