

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 19 2015

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-42551	² Pool Code 40295	³ Pool Name Los Medanos; Bone Spring
⁴ Property Code 33079	⁵ Property Name APACHE 24-23 FED COM	⁶ Well Number 12H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3407.0

¹⁰ Surface Location

UL or lot no. P	Section 24	Township 22 S	Range 30 E	Lot Idn	Feet from the 920	North/South line SOUTH	Feet from the 330	East/West line EAST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. O	Section 23	Township 22 S	Range 30 E	Lot Idn	Feet from the 734	North/South line SOUTH	Feet from the 2134	East/West line EAST	County EDDY
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¹² Dedicated Acres 240	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Lucretia Morris</i> 4/29/2015 Signature Date Lucretia Morris, Regulatory Analyst Printed Name Lucretia.Morris@dvn.com E-mail Address
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. OCTOBER 8, 2014 Date of Survey <i>Filimon E. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: FILIMON E. JARAMILLO, PLS 12797 SURVEY NO. 26148

PP: 729' FSL & 402' FEL, Sec 24, T22S, R30E

Project Area: XXXXXXXXXX
Producing Area: XXXXXXXXXX

Well Name: APACHE 24-23 FED COM 12H

Sub-Division DELAWARE BASIN	Region DELAWARE BASIN WEST	Field Name QUAHADA RIDGE SOUTHEAST	County JOHNS	State NM
Surface Legal Location Sec 24 22S 30E	APACHE 24-23 FED COM 12H	Latitude (°) 32° 22' 22.301" N	Longitude (°) 103° 49' 35.985" W	Orig KB Elevation (ft) 3,430.60
				Ground Elev MSL (ft) 3,407.00
				KB - GL (ft) 23.60

Well Name OH	Parent Wellbore OH	SAP Well ID 38009	Vertical Section Direction (°) 267.82
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Kick Offs & Key Depths	
Date 3/22/2015	Type Kick Off
	Top Depth (ft) 10,300.0
Date 3/29/2015	Type Kick Off
	Top Depth (ft) 11,035.0

Actual Deviation Survey MWD, Proposed? No	Definite? Yes	Proposed? No	Proposed Deviation Survey
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Deviation Survey	
Date 3/11/2015	Description MWD
MD Tie In (ft) 0.00	TVD Tie In (ft) 0.00
Inclination Tie In (°) 0.00	Azimuth Tie In (°) 0.00
NS Tie In (ft) 0.00	EW Tie In (ft) 0.00

Survey Data										
Date	MD (ft)	Incl (°)	Azm (°)	TVD (ft)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
3/11/2015	169.00	0.40	77.96	169.00	-0.58	0.12	0.58	0.24	MWD	EXTREME
3/11/2015	186.00	0.31	186.29	186.00	-0.63	0.09	0.63	3.40	MWD	EXTREME
3/11/2015	291.00	0.40	176.35	291.00	-0.60	-0.56	0.62	0.10	MWD	EXTREME
3/11/2015	391.00	0.89	166.55	390.99	-0.76	-1.66	0.83	0.50	MWD	EXTREME
3/11/2015	466.00	1.41	163.35	465.97	-1.11	-3.11	1.22	0.70	MWD	EXTREME
3/11/2015	602.00	1.38	177.59	601.93	-1.63	-6.35	1.77	0.26	MWD	HALLIBURTON ENERGY SE...
3/11/2015	696.00	1.67	180.17	695.90	-1.48	-8.85	1.82	0.32	MWD	HALLIBURTON ENERGY SE...
3/11/2015	789.00	1.60	179.30	788.86	-1.39	-11.51	1.83	0.08	MWD	HALLIBURTON ENERGY SE...
3/11/2015	882.00	1.54	183.91	881.63	-1.22	-14.05	1.76	0.15	MWD	HALLIBURTON ENERGY SE...
3/11/2015	975.00	1.35	178.95	974.80	-1.07	-16.39	1.69	0.24	MWD	HALLIBURTON ENERGY SE...
3/11/2015	1,067.00	1.19	180.97	1,066.78	-1.00	-18.43	1.70	0.18	MWD	HALLIBURTON ENERGY SE...
3/11/2015	1,161.00	0.87	188.50	1,160.76	-0.81	-20.11	1.58	0.37	MWD	HALLIBURTON ENERGY SE...
3/11/2015	1,253.00	0.80	164.31	1,252.75	-0.83	-21.42	1.65	0.39	MWD	HALLIBURTON ENERGY SE...
3/11/2015	1,349.00	0.58	134.71	1,348.74	-1.32	-22.41	2.17	0.43	MWD	HALLIBURTON ENERGY SE...
3/11/2015	1,444.00	0.31	112.23	1,443.74	-1.88	-22.85	2.75	0.33	MWD	HALLIBURTON ENERGY SE...
3/11/2015	1,540.00	0.33	97.78	1,539.74	-2.39	-22.98	3.27	0.09	MWD	HALLIBURTON ENERGY SE...
3/11/2015	1,635.00	0.39	65.40	1,634.74	-2.96	-22.88	3.83	0.22	MWD	HALLIBURTON ENERGY SE...
3/11/2015	1,731.00	0.25	82.29	1,730.74	-3.47	-22.72	4.34	0.17	MWD	HALLIBURTON ENERGY SE...
3/14/2015	1,826.00	0.23	70.79	1,825.74	-3.86	-22.63	4.72	0.05	MWD	HALLIBURTON ENERGY SE...
3/14/2015	1,922.00	0.37	69.89	1,921.73	-4.34	-22.46	5.19	0.15	MWD	HALLIBURTON ENERGY SE...
3/14/2015	2,017.00	0.13	111.92	2,016.73	-4.73	-22.39	5.58	0.30	MWD	HALLIBURTON ENERGY SE...
3/14/2015	2,113.00	0.17	35.37	2,112.73	-4.91	-22.32	5.77	0.20	MWD	HALLIBURTON ENERGY SE...
3/14/2015	2,208.00	0.20	142.13	2,207.73	-5.10	-22.33	5.95	0.31	MWD	HALLIBURTON ENERGY SE...
3/14/2015	2,304.00	0.31	149.80	2,303.73	-5.32	-22.69	6.18	0.12	MWD	HALLIBURTON ENERGY SE...
3/14/2015	2,399.00	0.63	139.05	2,398.73	-5.76	-23.31	6.65	0.35	MWD	HALLIBURTON ENERGY SE...
3/15/2015	2,495.00	0.52	121.13	2,494.72	-6.46	-23.93	7.37	0.22	MWD	HALLIBURTON ENERGY SE...
3/15/2015	2,591.00	0.26	21.79	2,590.72	-6.91	-23.95	7.83	0.64	MWD	HALLIBURTON ENERGY SE...
3/15/2015	2,686.00	0.07	274.20	2,685.72	-8.94	-23.75	7.85	0.30	MWD	HALLIBURTON ENERGY SE...
3/15/2015	2,782.00	0.33	226.73	2,781.72	-6.67	-23.94	7.59	0.30	MWD	HALLIBURTON ENERGY SE...
3/15/2015	2,877.00	0.31	216.26	2,876.72	-6.31	-24.33	7.24	0.06	MWD	HALLIBURTON ENERGY SE...
3/15/2015	2,973.00	0.17	132.62	2,972.72	-6.25	-24.64	7.19	0.35	MWD	HALLIBURTON ENERGY SE...
3/15/2015	3,069.00	0.65	111.75	3,068.72	-6.85	-24.93	7.80	0.52	MWD	HALLIBURTON ENERGY SE...
3/15/2015	3,164.00	1.16	119.93	3,163.70	-8.15	-25.81	9.13	0.55	MWD	HALLIBURTON ENERGY SE...
3/15/2015	3,260.00	1.36	123.60	3,259.68	-9.90	-26.73	10.93	0.22	MWD	HALLIBURTON ENERGY SE...
3/15/2015	3,356.00	1.14	114.40	3,355.66	-11.68	-27.75	12.74	0.31	MWD	HALLIBURTON ENERGY SE...
3/15/2015	3,451.00	1.18	114.49	3,450.64	-13.40	-28.55	14.49	0.04	MWD	HALLIBURTON ENERGY SE...
3/15/2015	3,546.00	1.38	113.65	3,545.62	-15.30	-29.41	16.43	0.21	MWD	HALLIBURTON ENERGY SE...
3/15/2015	3,642.00	1.82	124.32	3,641.58	-17.57	-30.74	18.75	0.55	MWD	HALLIBURTON ENERGY SE...
3/15/2015	3,737.00	1.57	146.69	3,736.54	-19.45	-32.68	20.71	0.74	MWD	HALLIBURTON ENERGY SE...
3/15/2015	3,795.00	1.69	163.07	3,794.51	-20.08	-34.16	21.40	0.83	MWD	HALLIBURTON ENERGY SE...
3/18/2015	3,926.00	1.42	168.18	3,925.47	-20.85	-37.59	22.29	0.23	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,021.00	1.50	170.33	4,020.44	-21.20	-39.97	22.74	0.10	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,117.00	1.47	166.05	4,116.40	-21.62	-42.41	23.25	0.12	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,212.00	1.46	165.10	4,211.37	-22.13	-44.76	23.85	0.03	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,308.00	1.53	175.33	4,307.34	-22.46	-47.22	24.27	0.29	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,403.00	1.43	175.01	4,402.31	-22.57	-49.66	24.48	0.11	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,499.00	1.57	182.22	4,498.28	-22.53	-52.17	24.53	0.24	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,594.00	1.07	180.50	4,593.25	-22.39	-54.38	24.47	0.53	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,690.00	0.96	174.96	4,689.23	-22.39	-56.05	24.54	0.15	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,785.00	0.87	189.47	4,784.22	-22.28	-57.56	24.49	0.26	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,880.00	1.11	190.51	4,879.21	-21.93	-59.17	24.20	0.25	MWD	HALLIBURTON ENERGY SE...
3/18/2015	4,975.00	1.14	210.18	4,974.19	-21.23	-60.90	23.56	0.41	MWD	HALLIBURTON ENERGY SE...
3/18/2015	5,069.00	1.17	216.26	5,068.17	-20.13	-62.48	22.52	0.13	MWD	HALLIBURTON ENERGY SE...
3/18/2015	5,164.00	1.34	215.62	5,163.15	-18.84	-64.16	21.30	0.18	MWD	HALLIBURTON ENERGY SE...
3/18/2015	5,258.00	1.45	211.76	5,257.12	-17.51	-66.07	20.03	0.15	MWD	HALLIBURTON ENERGY SE...
3/18/2015	5,353.00	1.27	222.13	5,352.09	-16.10	-67.87	18.70	0.32	MWD	HALLIBURTON ENERGY SE...
3/18/2015	5,447.00	1.28	221.73	5,446.07	-14.64	-69.43	17.30	0.01	MWD	HALLIBURTON ENERGY SE...
3/18/2015	5,542.00	1.39	232.48	5,541.04	-12.97	-70.92	15.68	0.29	MWD	HALLIBURTON ENERGY SE...
3/18/2015	5,636.00	1.18	242.80	5,635.02	-11.16	-72.08	13.91	0.33	MWD	HALLIBURTON ENERGY SE...
3/18/2015	5,731.00	1.66	248.56	5,729.99	-8.98	-73.01	11.76	0.53	MWD	HALLIBURTON ENERGY SE...
3/18/2015	5,825.00	1.43	249.20	5,823.96	-6.58	-73.92	9.40	0.25	MWD	HALLIBURTON ENERGY SE...

Well Name: APACHE 24-23 FED COM 12H

Sub-Division	Region	Field Name		County	State/Province					
DELAWARE BASIN	DELAWARE BASIN WEST	QUAHADA RIDGE SOUTHEAST		EDDY	NM					
Surface Legal Location		APAC	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)			
Sec 24 22S 30E		30015425514	32° 22' 22.301" N	103° 49' 35.985" W	3,430.60	3,407.00	23.60			
Survey Data										
Date	MD (ft)	Ind (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
3/18/2015	5,919.00	1.42	251.33	5,917.93	-4.35	-74.71	7.20	0.06	MWD	HALLIBURTON ENERGY SE...
3/18/2015	6,014.00	0.91	227.08	6,012.91	-2.65	-75.60	5.53	0.74	MWD	HALLIBURTON ENERGY SE...
3/18/2015	6,108.00	1.02	199.91	6,106.90	-1.77	-76.90	4.70	0.50	MWD	HALLIBURTON ENERGY SE...
3/18/2015	6,202.00	1.45	204.83	6,200.87	-0.92	-78.76	3.92	0.47	MWD	HALLIBURTON ENERGY SE...
3/18/2015	6,297.00	1.70	204.17	6,295.84	0.28	-81.14	2.83	0.28	MWD	HALLIBURTON ENERGY SE...
3/18/2015	6,391.00	1.60	203.09	6,389.80	1.43	-83.62	1.75	0.11	MWD	HALLIBURTON ENERGY SE...
3/18/2015	6,485.00	1.84	206.58	6,483.76	2.64	-86.03	0.63	0.11	MWD	HALLIBURTON ENERGY SE...
3/18/2015	6,580.00	1.49	213.06	6,578.73	-4.01	-88.28	-0.65	0.24	MWD	HALLIBURTON ENERGY SE...
3/19/2015	6,674.00	1.51	210.84	6,672.69	5.39	-90.37	-1.95	0.07	MWD	HALLIBURTON ENERGY SE...
3/19/2015	6,769.00	1.60	202.79	6,767.66	6.63	-92.66	-3.11	0.25	MWD	HALLIBURTON ENERGY SE...
3/19/2015	6,863.00	1.65	205.06	6,861.62	7.80	-95.10	-4.19	0.09	MWD	HALLIBURTON ENERGY SE...
3/19/2015	6,959.00	1.38	203.55	6,957.59	8.94	-97.41	-5.24	0.28	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,055.00	1.54	191.96	7,053.56	9.76	-99.73	-5.97	0.35	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,150.00	1.49	189.99	7,148.52	10.33	-102.20	-6.44	0.08	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,246.00	1.60	185.14	7,244.49	10.76	-104.76	-6.78	0.18	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,341.00	1.54	183.22	7,339.45	11.05	-107.36	-6.97	0.08	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,436.00	1.47	184.91	7,434.42	11.32	-109.85	-7.15	0.09	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,531.00	1.62	179.35	7,529.39	11.51	-112.40	-7.24	0.22	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,626.00	1.26	187.97	7,624.36	11.73	-114.78	-7.37	0.44	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,720.00	1.28	187.22	7,718.33	12.08	-116.85	-7.64	0.03	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,815.00	1.06	201.53	7,813.31	12.61	-118.72	-8.10	0.38	MWD	HALLIBURTON ENERGY SE...
3/19/2015	7,909.00	0.81	211.53	7,907.30	13.33	-120.09	-8.78	0.32	MWD	HALLIBURTON ENERGY SE...
3/19/2015	8,004.00	0.54	159.04	8,002.29	13.55	-121.08	-8.95	0.68	MWD	HALLIBURTON ENERGY SE...
3/19/2015	8,099.00	1.70	165.00	8,097.28	13.10	-122.86	-8.43	1.23	MWD	HALLIBURTON ENERGY SE...
3/19/2015	8,193.00	2.49	180.60	8,191.21	12.89	-126.25	-8.09	1.03	MWD	HALLIBURTON ENERGY SE...
3/19/2015	8,287.00	2.50	181.74	8,285.12	13.13	-130.34	-8.17	0.05	MWD	HALLIBURTON ENERGY SE...
3/19/2015	8,379.00	2.75	189.35	8,377.03	13.70	-134.52	-8.59	0.47	MWD	HALLIBURTON ENERGY SE...
3/19/2015	8,473.00	1.86	196.14	8,470.95	14.63	-138.21	-9.38	0.99	MWD	HALLIBURTON ENERGY SE...
3/20/2015	8,568.00	1.74	187.46	8,565.90	15.36	-141.13	-10.00	0.31	MWD	HALLIBURTON ENERGY SE...
3/20/2015	8,662.00	1.24	196.93	8,659.87	15.93	-143.51	-10.48	0.59	MWD	HALLIBURTON ENERGY SE...
3/20/2015	8,757.00	1.84	198.87	8,754.84	16.82	-145.94	-11.27	0.63	MWD	HALLIBURTON ENERGY SE...
3/20/2015	8,851.00	1.82	219.27	8,848.79	18.35	-148.52	-12.71	0.89	MWD	HALLIBURTON ENERGY SE...
3/20/2015	8,945.00	2.13	183.48	8,942.74	19.81	-151.38	-14.06	0.99	MWD	HALLIBURTON ENERGY SE...
3/20/2015	9,040.00	2.03	205.77	9,037.67	21.07	-154.61	-15.20	0.48	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,137.00	2.00	171.49	9,134.62	21.89	-157.83	-15.70	1.22	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,231.00	1.66	162.83	9,228.57	21.16	-160.75	-15.05	0.47	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,327.00	1.34	138.10	9,324.54	20.08	-162.92	-13.89	0.74	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,421.00	1.05	117.22	9,418.52	18.63	-164.13	-12.39	0.55	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,516.00	1.55	117.04	9,513.49	16.75	-165.11	-10.48	0.53	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,610.00	1.30	127.70	9,607.46	14.82	-166.34	-8.50	0.39	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,705.00	1.48	130.03	9,702.44	13.09	-167.79	-6.71	0.20	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,800.00	1.50	112.84	9,797.40	11.05	-169.06	-4.62	0.47	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,895.00	1.55	113.98	9,892.37	8.77	-170.07	-2.30	0.06	MWD	HALLIBURTON ENERGY SE...
3/22/2015	9,991.00	1.79	120.64	9,988.33	6.34	-171.36	0.17	0.32	MWD	HALLIBURTON ENERGY SE...
3/22/2015	10,086.00	2.13	123.82	10,083.27	3.67	-173.10	2.92	0.38	MWD	HALLIBURTON ENERGY SE...
3/22/2015	10,182.00	2.14	132.96	10,179.21	0.96	-175.31	5.71	0.35	MWD	HALLIBURTON ENERGY SE...
3/22/2015	10,220.00	1.63	134.23	10,217.19	0.09	-176.17	6.62	1.35	MWD	HALLIBURTON ENERGY SE...
3/22/2015	10,277.00	1.19	158.06	10,274.17	-0.87	-177.29	7.42	1.27	MWD	HALLIBURTON ENERGY SE...
3/22/2015	10,308.00	2.39	233.91	10,305.16	-0.24	-177.97	7.02	7.73	MWD	HALLIBURTON ENERGY SE...
3/22/2015	10,340.00	5.09	252.10	10,337.09	1.68	-178.80	5.13	9.11	MWD	HALLIBURTON ENERGY SE...
3/22/2015	10,373.00	7.81	258.83	10,369.88	5.30	-179.68	1.53	8.54	MWD	HALLIBURTON ENERGY SE...
3/22/2015	10,404.00	10.17	259.90	10,400.49	10.09	-180.57	-3.23	7.63	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,436.00	12.50	258.51	10,431.87	16.31	-181.75	-9.40	7.33	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,468.00	14.63	257.70	10,462.97	23.71	-183.31	-16.75	6.68	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,500.00	17.00	257.29	10,493.76	32.29	-185.20	-25.28	7.41	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,532.00	18.85	257.24	10,524.20	41.97	-187.37	-34.87	5.78	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,564.00	20.83	257.47	10,554.30	52.65	-189.74	-45.48	6.19	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,596.00	24.59	261.19	10,583.82	64.86	-192.00	-57.60	12.57	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,628.00	28.72	265.10	10,612.41	79.16	-193.88	-71.85	14.02	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,660.00	31.90	266.68	10,640.04	95.30	-194.82	-87.95	10.24	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,692.00	34.74	267.33	10,668.77	112.87	-195.74	-105.51	8.84	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,723.00	37.70	267.83	10,691.78	131.19	-196.51	-123.80	9.60	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,755.00	39.90	267.81	10,716.72	151.24	-197.27	-143.84	6.88	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,787.00	42.99	269.06	10,740.70	172.42	-197.84	-165.01	10.00	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,819.00	45.50	269.52	10,763.62	194.73	-198.12	-187.33	7.91	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,849.00	47.38	270.23	10,784.30	216.46	-198.16	-209.07	6.50	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,882.00	50.04	270.63	10,806.07	241.23	-197.97	-233.86	8.11	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,915.00	51.88	270.78	10,826.85	266.82	-197.66	-259.49	5.59	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,946.00	54.44	270.79	10,845.44	291.60	-197.32	-284.30	8.26	MWD	HALLIBURTON ENERGY SE...
3/23/2015	10,978.00	57.29	271.06	10,863.39	318.04	-196.89	-310.78	8.93	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,076.00	65.58	271.75	10,910.21	403.87	-194.76	-396.75	8.48	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,107.00	68.69	270.67	10,922.26	432.38	-194.16	-425.30	10.53	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,139.00	71.23	268.44	10,933.22	462.42	-194.40	-455.36	10.29	MWD	HALLIBURTON ENERGY SE...

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Well Name: APACHE 24-23 FED COM 12H

Sub-Division	Region	Field Name	County	State						
DELAWARE BASIN	DELAWARE BASIN WEST	QUAHADA RIDGE SOUTHEAST	EDDY	NEW MEXICO						
Surface Legal Location	APL Number	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)				
Sec 24 22S 30E	300354255-153	32° 22' 22.301" N	103° 49' 35.985" W	3,430.60	3,407.00	23.60				
Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (ft/100ft)	Survey Tool	Survey Company
3/23/2015	11,170.00	73.15	266.85	10,942.71	491.93	-185.61	-484.84	7.89	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,202.00	75.40	265.25	10,951.38	522.72	-197.74	-515.57	8.52	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,234.00	77.90	264.95	10,958.77	553.82	-200.40	-546.59	7.87	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,265.00	82.40	264.55	10,964.07	584.31	-203.19	-577.00	14.57	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,297.00	87.16	264.62	10,966.98	616.12	-206.20	-608.71	14.88	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,328.00	91.97	265.81	10,967.21	647.07	-208.78	-639.59	15.98	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,359.00	93.17	266.54	10,965.82	678.03	-210.85	-670.49	4.53	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,390.00	93.28	266.32	10,964.09	708.97	-212.78	-701.38	0.77	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,422.00	93.68	265.28	10,962.15	740.89	-215.12	-733.24	3.50	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,449.00	93.55	264.12	10,960.45	767.80	-217.60	-760.07	4.31	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,547.00	92.59	265.06	10,955.20	865.50	-226.83	-857.49	1.37	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,641.00	91.72	287.59	10,951.86	959.39	-232.85	-951.22	2.84	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,734.00	91.26	289.05	10,949.24	1,052.35	-235.58	-1,044.15	1.65	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,829.00	89.66	272.90	10,948.48	1,147.19	-233.96	-1,139.11	4.39	MWD	HALLIBURTON ENERGY SE...
3/23/2015	11,925.00	88.83	273.60	10,949.75	1,242.75	-228.52	-1,234.95	1.13	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,020.00	89.08	274.11	10,951.48	1,337.20	-222.13	-1,329.72	0.60	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,115.00	89.48	275.05	10,952.67	1,431.53	-214.55	-1,424.40	1.08	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,210.00	87.99	275.02	10,954.77	1,525.78	-206.21	-1,519.01	1.57	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,304.00	86.48	274.14	10,959.30	1,618.99	-198.71	-1,612.60	1.86	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,397.00	86.23	272.75	10,965.22	1,711.35	-193.14	-1,705.24	1.52	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,493.00	85.73	270.95	10,971.95	1,806.88	-190.04	-1,800.95	1.94	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,588.00	87.63	268.87	10,977.45	1,901.64	-190.20	-1,895.78	2.96	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,683.00	89.26	269.23	10,980.03	1,996.58	-191.77	-1,990.73	1.78	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,779.00	89.97	269.50	10,980.67	2,092.55	-192.83	-2,086.72	0.79	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,874.00	89.11	269.44	10,981.43	2,187.50	-193.71	-2,181.71	0.91	MWD	HALLIBURTON ENERGY SE...
3/23/2015	12,969.00	88.25	269.29	10,983.62	2,282.44	-194.76	-2,276.68	0.92	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,064.00	88.88	269.05	10,986.02	2,377.38	-196.14	-2,371.64	0.69	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,159.00	89.48	266.80	10,987.40	2,472.37	-199.58	-2,466.56	2.46	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,254.00	88.85	266.60	10,987.95	2,567.35	-205.05	-2,561.40	0.44	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,350.00	89.51	267.63	10,988.49	2,663.34	-209.88	-2,657.28	1.13	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,445.00	89.60	267.02	10,989.22	2,758.33	-214.31	-2,752.17	0.65	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,540.00	90.43	266.59	10,989.20	2,853.31	-219.61	-2,847.02	0.98	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,634.00	91.20	267.06	10,987.86	2,947.29	-224.81	-2,940.87	0.96	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,729.00	91.39	267.19	10,985.72	3,042.26	-229.58	-3,035.72	0.24	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,823.00	89.91	265.45	10,984.65	3,136.21	-235.61	-3,129.52	2.43	MWD	HALLIBURTON ENERGY SE...
3/23/2015	13,918.00	89.82	265.16	10,984.87	3,231.12	-243.39	-3,224.20	0.32	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,012.00	90.03	265.32	10,985.00	3,325.03	-251.19	-3,317.87	0.28	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,108.00	89.36	266.80	10,985.52	3,420.98	-257.78	-3,413.64	1.70	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,203.00	90.25	267.60	10,985.85	3,515.97	-262.42	-3,508.53	1.27	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,298.00	91.05	267.93	10,984.77	3,610.96	-268.13	-3,603.45	0.91	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,392.00	89.85	267.92	10,984.03	3,704.96	-269.53	-3,697.38	1.28	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,487.00	90.49	268.81	10,983.75	3,799.95	-272.24	-3,792.34	1.15	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,583.00	89.42	269.45	10,983.82	3,895.92	-273.70	-3,888.33	1.30	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,677.00	89.91	269.74	10,984.37	3,989.88	-274.36	-3,982.32	0.61	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,772.00	90.65	270.06	10,983.91	4,084.81	-274.53	-4,077.32	0.85	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,867.00	88.61	270.61	10,984.52	4,179.71	-273.87	-4,172.31	2.22	MWD	HALLIBURTON ENERGY SE...
3/23/2015	14,957.00	87.96	270.25	10,987.22	4,269.58	-273.30	-4,262.27	0.83	MWD	HALLIBURTON ENERGY SE...
4/10/2015	15,051.00	89.81	268.41	10,989.05	4,363.52	-274.40	-4,356.24	2.78	MWD	HALLIBURTON ENERGY SE...
4/10/2015	15,145.00	91.17	268.64	10,988.24	4,457.51	-276.82	-4,450.20	1.47	MWD	HALLIBURTON ENERGY SE...
4/10/2015	15,240.00	91.64	268.56	10,985.81	4,552.47	-279.14	-4,545.14	0.50	MWD	HALLIBURTON ENERGY SE...
4/10/2015	15,336.00	91.82	268.42	10,983.02	4,648.42	-281.67	-4,641.06	0.24	MWD	HALLIBURTON ENERGY SE...
4/11/2015	15,431.00	92.93	269.62	10,979.08	4,743.31	-283.29	-4,735.97	1.72	MWD	HALLIBURTON ENERGY SE...
4/11/2015	15,526.00	93.24	270.34	10,973.97	4,838.11	-283.32	-4,830.83	0.82	MWD	HALLIBURTON ENERGY SE...
4/11/2015	15,621.00	92.66	271.22	10,969.08	4,932.85	-282.03	-4,925.69	1.11	MWD	HALLIBURTON ENERGY SE...
4/11/2015	15,716.00	92.56	271.58	10,964.75	5,027.57	-279.71	-5,020.56	0.39	MWD	HALLIBURTON ENERGY SE...
4/12/2015	15,809.00	91.45	271.90	10,961.50	5,120.29	-276.89	-5,113.46	1.24	MWD	HALLIBURTON ENERGY SE...
4/12/2015	15,905.00	91.28	271.65	10,959.23	5,216.04	-273.92	-5,209.39	0.33	MWD	HALLIBURTON ENERGY SE...
4/12/2015	16,000.00	91.36	271.51	10,957.05	5,310.81	-271.30	-5,304.33	0.18	MWD	HALLIBURTON ENERGY SE...
4/12/2015	16,095.00	91.42	271.40	10,954.75	5,405.59	-268.89	-5,399.27	0.13	MWD	HALLIBURTON ENERGY SE...
4/12/2015	16,190.00	91.48	271.57	10,952.35	5,500.37	-266.43	-5,494.21	0.19	MWD	HALLIBURTON ENERGY SE...
4/12/2015	16,284.00	91.27	271.28	10,950.09	5,594.15	-264.09	-5,588.15	0.38	MWD	HALLIBURTON ENERGY SE...
4/12/2015	16,379.00	92.16	272.39	10,947.25	5,688.87	-261.05	-5,683.06	1.50	MWD	HALLIBURTON ENERGY SE...
4/12/2015	16,475.00	92.13	272.63	10,943.85	5,784.49	-256.85	-5,778.90	0.25	MWD	HALLIBURTON ENERGY SE...
4/13/2015	16,569.00	90.25	272.52	10,941.70	5,878.14	-252.63	-5,872.78	2.00	MWD	HALLIBURTON ENERGY SE...
4/13/2015	16,663.00	88.64	272.29	10,942.61	5,971.83	-248.68	-5,966.69	1.73	MWD	HALLIBURTON ENERGY SE...
4/13/2015	16,853.00	90.40	273.86	10,944.20	6,161.01	-238.49	-6,156.40	1.24	MWD	HALLIBURTON ENERGY SE...
4/13/2015	16,948.00	88.83	273.68	10,944.84	6,255.49	-232.24	-6,251.18	1.66	MWD	HALLIBURTON ENERGY SE...
4/13/2015	17,042.00	88.01	273.47	10,946.61	6,349.00	-228.38	-6,344.98	0.29	MWD	HALLIBURTON ENERGY SE...
4/13/2015	17,138.00	89.38	273.52	10,947.96	6,444.52	-220.53	-6,440.80	0.39	MWD	HALLIBURTON ENERGY SE...
4/13/2015	17,232.00	89.91	273.15	10,948.55	6,538.09	-215.06	-6,534.64	0.69	MWD	HALLIBURTON ENERGY SE...
4/13/2015	17,327.00	89.26	271.24	10,949.23	6,632.80	-211.43	-6,629.56	2.12	MWD	HALLIBURTON ENERGY SE...
4/13/2015	17,421.00	88.92	271.12	10,950.73	6,726.63	-209.49	-6,723.53	0.38	MWD	HALLIBURTON ENERGY SE...
4/13/2015	17,516.00	89.17	271.46	10,952.31	6,821.44	-207.35	-6,818.49	0.44	MWD	HALLIBURTON ENERGY SE...

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Sub-Division		Region		Field Name		Eddy		Surface Elevation (ft)		
DELAWARE BASIN		DELAWARE BASIN WEST		QUAHADA RIDGE SOUTHEAST		EDDY		(NA)		
Surface Legal Location		Latitude (°)		Longitude (°)		Orig KB Elevation (ft)		Ground Elev MSL (ft)		
Sec 24 22S 30E		30° 15' 25.51" N		103° 49' 35.985" W		3,430.60		3,407.00		
Survey Data		KB - GL (ft)						23.60		
Date	MD (RKB)	Incl (°)	Azmt (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (ft/100ft)	Survey Tool	Survey Company
4/13/2015	17,810.00	89.04	271.93	10,953.78	6,915.21	-204.57	-6,912.44	0.52	MWD	HALLIBURTON ENERGY SE...
4/13/2015	17,705.00	88.89	272.28	10,955.49	7,009.93	-201.08	-7,007.38	0.40	MWD	HALLIBURTON ENERGY SE...
4/13/2015	17,848.00	88.89	272.28	10,958.28	7,152.47	-195.40	-7,150.22	0.00	BIT	HALLIBURTON ENERGY SE...