

NM OIL CONSERVATION

ARTESIA DISTRICT

OCT 19 2015

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
911 S. First St., Artesia, NM 88210
Phone: (505) 748-1253 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87305
Phone: (505) 476-3460 Fax: (505) 476-3462

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

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-42552	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 13H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3408.9

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	24	22 S	30 E		970	SOUTH	330	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	23	22 S	30 E		665	SOUTH	2288	EAST	EDDY

¹² Dedicated Acres 160	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.

	¹⁶ 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. Signature: <u>Lucretia Morris</u> Date: <u>4/2/2015</u> Printed Name: <u>Lucretia Morris, Regulatory Analyst</u> E-mail Address: <u>Lucretia.Morris@dvn.com</u>
	¹⁷ 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. Date of Survey: <u>11/27/97</u> Signature and Seal of Professional Surveyor: <u>[Signature]</u> Certificate Number: <u>FILIPON F. JARAMILLO, PLS 12797</u> SURVEY NO. 2400C
	PP: 869' FSL & 372' FEL, Sec 24, T22S, R30E Project Area: <u>[Redacted]</u> Producing Area: <u>[Redacted]</u>

Well Name: APACHE 24-23 FED COM 13H

Sub-Division DELAWARE BASIN		Region DELAWARE BASIN WEST		Field Name LOS MEDANOS		County EDDY		State/Province NM		
Surface Legal Location Sec 24 22S 30E		APBNM 8001542652		Latitude (°) 32° 22' 21.895" N		Longitude (°) 103° 49' 34.145" W		Orig KB Elevation (ft) 3,432.50		
								Ground Elev MSL (ft) 3,408.90		
								KB - GL (ft) 23.60		
Wellbores										
Wellbore Name OH		Parent Wellbore OH			SAP Well ID 37961			Vertical Section Direction (°) 267.43		
Kick Offs & Key Depths										
Date 2/18/2015				Type Kick Off				Top Depth (ftKB) 9,264.0		
Actual Deviation Survey MWD, Proposed? No				Definite? Yes		Proposed? No		Proposed Deviation Survey		
Deviation Survey										
Date 2/6/2015		Description MWD								
MD Tie In (ftKB) 0.00		TVD Tie In (ftKB) 0.00		Inclination Tie In (°) 0.00		Azimuth Tie In (°) 0.00		NSTie In (ft) 0.00		
								EW Tie In (ft) 0.00		
Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
2/6/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	EXTREME
2/6/2015	170.00	0.48	185.39	170.00	0.10	-0.71	-0.07	0.28	MWD	EXTREME
2/6/2015	258.00	0.79	233.92	257.99	0.66	-1.43	-0.59	0.67	MWD	EXTREME
2/6/2015	368.00	1.01	212.68	367.98	2.08	-2.93	-1.93	0.30	MWD	EXTREME
2/6/2015	473.00	1.10	200.82	472.96	2.82	-4.32	-2.63	0.28	MWD	EXTREME
2/6/2015	576.00	1.10	98.99	575.95	2.24	-5.40	-2.00	1.68	MWD	EXTREME
2/6/2015	669.00	1.10	98.99	668.93	0.49	-5.88	-0.24	0.00	MWD	EXTREME
2/6/2015	761.00	1.01	182.01	760.92	-0.31	-6.82	0.60	1.52	MWD	EXTREME
2/6/2015	855.00	0.88	179.19	854.91	-0.22	-8.17	0.58	0.15	MWD	EXTREME
2/6/2015	948.00	0.79	191.10	947.90	-0.04	-9.52	0.47	0.21	MWD	EXTREME
2/6/2015	1,041.00	0.70	191.10	1,040.89	0.24	-10.70	0.24	0.10	MWD	EXTREME
2/6/2015	1,133.00	0.70	187.28	1,132.89	0.47	-11.81	0.06	0.05	MWD	EXTREME
2/6/2015	1,224.00	0.79	166.80	1,223.88	0.45	-12.98	0.13	0.31	MWD	EXTREME
2/6/2015	1,319.00	0.79	163.42	1,318.87	0.17	-14.24	0.47	0.05	MWD	EXTREME
2/6/2015	1,414.00	0.70	157.09	1,413.86	-0.19	-15.40	0.88	0.13	MWD	EXTREME
2/9/2015	1,508.00	0.62	162.50	1,507.86	-0.52	-16.42	1.26	0.11	MWD	EXTREME
2/9/2015	1,602.00	0.48	140.48	1,601.85	-0.89	-17.21	1.66	0.27	MWD	EXTREME
2/9/2015	1,697.00	0.62	119.78	1,696.85	-1.56	-17.77	2.36	0.25	MWD	EXTREME
2/9/2015	1,791.00	0.62	109.58	1,790.84	-2.46	-18.19	3.28	0.12	MWD	EXTREME
2/10/2015	1,886.00	0.62	128.39	1,885.84	3.33	-18.68	4.17	0.21	MWD	EXTREME
2/10/2015	1,980.00	0.70	105.59	1,979.83	-4.26	-19.15	5.12	0.29	MWD	EXTREME
2/10/2015	2,074.00	0.70	103.39	2,073.82	-5.35	-19.44	6.23	0.03	MWD	EXTREME
2/10/2015	2,169.00	0.69	122.59	2,168.82	-6.38	-19.88	7.28	0.24	MWD	EXTREME
2/10/2015	2,263.00	0.70	132.79	2,262.81	-7.25	-20.58	8.18	0.13	MWD	EXTREME
2/10/2015	2,358.00	0.88	137.49	2,357.80	-8.12	-21.51	9.09	0.20	MWD	EXTREME
2/10/2015	2,452.00	0.79	137.49	2,451.79	-9.00	-22.52	10.02	0.10	MWD	EXTREME
2/10/2015	2,546.00	0.70	137.80	2,545.78	-9.78	-23.42	10.84	0.10	MWD	EXTREME
2/10/2015	2,610.00	0.62	125.41	2,609.78	-10.31	-23.91	11.39	0.25	MWD	EXTREME
2/10/2015	2,704.00	0.48	131.29	2,703.77	-10.99	-24.47	12.10	0.16	MWD	EXTREME
2/10/2015	2,798.00	1.19	172.12	2,797.76	11.36	-25.69	12.53	0.94	MWD	EXTREME
2/10/2015	2,895.00	1.19	181.92	2,894.74	11.38	-27.70	12.63	0.21	MWD	EXTREME
2/10/2015	2,987.00	0.48	196.90	2,986.73	11.18	-29.02	12.49	0.80	MWD	EXTREME
2/10/2015	3,082.00	2.11	119.21	3,081.71	12.53	-30.26	13.90	2.17	MWD	EXTREME
2/10/2015	3,178.00	3.12	125.01	3,177.61	16.10	-32.82	17.58	1.09	MWD	EXTREME
2/10/2015	3,273.00	2.99	131.38	3,272.47	19.93	-35.74	21.56	0.38	MWD	EXTREME
2/10/2015	3,369.00	3.78	121.32	3,368.31	24.36	-39.04	26.14	1.03	MWD	EXTREME
2/10/2015	3,474.00	4.09	120.70	3,473.06	30.37	-42.75	32.32	0.30	MWD	EXTREME
2/11/2015	3,560.00	4.79	129.58	3,558.80	35.59	-46.80	37.72	1.14	MWD	EXTREME
2/11/2015	3,655.00	3.91	133.89	3,653.53	40.77	-51.38	43.11	0.99	MWD	EXTREME
2/11/2015	3,751.00	3.21	135.38	3,749.34	44.82	-55.56	47.36	0.74	MWD	EXTREME
2/11/2015	3,906.00	2.60	127.10	3,904.14	50.43	-60.77	53.21	0.46	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,001.00	2.20	127.40	3,999.06	53.49	-63.17	56.38	0.42	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,097.00	2.30	125.00	4,094.98	58.43	-65.40	59.42	0.14	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,192.00	2.20	128.10	4,189.91	59.32	-67.62	62.42	0.17	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,288.00	2.30	125.40	4,285.84	62.24	-69.87	65.44	0.15	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,383.00	1.90	114.80	4,380.77	65.14	-71.64	68.42	0.59	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,479.00	1.90	105.40	4,476.72	68.07	-72.73	71.40	0.32	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,574.00	1.70	104.80	4,571.67	70.91	-73.50	74.28	0.21	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,670.00	1.70	107.30	4,667.63	73.61	-74.29	77.02	0.08	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,765.00	1.50	108.60	4,762.59	78.09	-75.11	79.54	0.21	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,861.00	1.40	106.00	4,858.56	78.38	-75.83	81.88	0.12	MWD	LEAM DRILLING SYSTEMS
2/11/2015	4,957.00	1.30	107.30	4,954.54	80.51	-76.48	84.03	0.11	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,052.00	1.30	107.00	5,049.51	82.54	-77.11	86.09	0.01	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,148.00	1.20	102.30	5,145.49	84.54	-77.65	88.11	0.15	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,243.00	1.10	102.10	5,240.47	86.38	-78.05	89.97	0.11	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,339.00	1.10	103.30	5,336.45	88.16	-78.45	91.77	0.02	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,435.00	1.00	96.60	5,432.44	89.87	-78.78	93.50	0.16	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,530.00	1.00	100.30	5,527.42	91.50	-79.01	95.14	0.07	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,626.00	0.80	93.10	5,623.41	92.98	-79.19	96.63	0.24	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,722.00	0.70	105.20	5,719.40	94.21	-79.38	97.87	0.19	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,817.00	0.40	108.50	5,814.40	95.07	-79.64	98.74	0.32	MWD	LEAM DRILLING SYSTEMS
2/11/2015	5,913.00	0.60	119.30	5,910.39	95.81	-79.99	99.50	0.23	MWD	LEAM DRILLING SYSTEMS
2/11/2015	6,009.00	0.40	118.90	6,006.39	96.52	-80.40	100.23	0.21	MWD	LEAM DRILLING SYSTEMS
2/11/2015	6,104.00	0.60	124.10	6,101.39	97.21	-80.84	100.93	0.22	MWD	LEAM DRILLING SYSTEMS
2/11/2015	6,200.00	0.70	131.40	6,197.38	98.03	-81.51	101.79	0.14	MWD	LEAM DRILLING SYSTEMS
2/11/2015	6,295.00	0.80	156.20	6,292.37	98.69	-82.50	102.49	0.35	MWD	LEAM DRILLING SYSTEMS

Well Name: APACHE 24-23 FED COM 13H

DELAWARE BASIN		DELAWARE BASIN WEST		LOS MEDANOS		EDDY		NM					
Surface Legal Location		Latitude (°)		Longitude (°)		Orig KB Elevation (ft)		Ground Elev MSL (ft)		KB - GL (ft)			
Sec 24 22S 30E		3001542552		32° 22' 21.895" N		103° 49' 34.145" W		3,432.50		3,408.90		23.60	
Survey Data													
Date	MD (ftKB)	Incl (°)	Azim (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (ft/100ft)	Survey Tool	Survey Company			
2/11/2015	6,391.00	0.90	157.40	6,388.36	-99.19	-83.81	103.05	-0.11	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	6,486.00	0.90	165.20	6,483.35	-99.60	-85.22	103.53	-0.13	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	6,582.00	0.60	218.30	6,579.34	-99.43	-86.34	103.41	-0.75	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	6,677.00	0.70	237.30	6,674.34	-98.61	-87.05	102.61	-0.25	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	6,773.00	0.80	220.10	6,770.33	-97.65	-87.87	101.69	-0.26	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	6,869.00	1.00	215.00	6,866.32	-96.68	-89.07	100.78	-0.22	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	6,964.00	1.00	210.50	6,961.30	-95.72	-90.47	99.88	-0.08	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,060.00	0.70	242.40	7,057.29	-94.73	-91.46	98.93	-0.57	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,155.00	0.60	232.90	7,152.29	-93.80	-92.03	98.02	-0.15	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,251.00	0.50	216.30	7,248.28	-93.12	-92.67	97.38	-0.19	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,346.00	0.60	206.70	7,343.28	-92.62	-93.45	96.91	-0.14	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,442.00	0.70	199.30	7,439.27	-92.15	-94.45	96.49	-0.14	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,538.00	0.70	196.00	7,535.26	-91.75	-95.57	96.13	-0.04	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,633.00	0.70	182.80	7,630.26	-91.51	-96.71	95.94	-0.17	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,729.00	0.80	190.10	7,726.25	-91.31	-97.95	95.80	-0.14	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,824.00	0.60	206.30	7,821.24	-90.92	-99.05	95.46	-0.29	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	7,920.00	0.40	231.80	7,917.24	-90.41	-99.71	94.97	-0.31	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,015.00	0.00	214.50	8,012.24	-90.14	-99.91	94.71	-0.42	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,111.00	0.50	343.60	8,108.24	-90.04	-99.51	94.59	-0.52	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,206.00	0.80	244.00	8,203.23	-89.33	-99.40	93.88	-1.06	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,302.00	0.70	259.70	8,299.22	-88.13	-99.80	92.70	-0.24	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,397.00	1.00	226.60	8,394.21	-86.93	-100.48	91.53	-0.59	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,493.00	1.30	199.00	8,490.19	-85.90	-102.08	90.57	-0.65	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,588.00	1.80	210.90	8,585.16	-84.68	-104.38	89.45	-0.62	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,684.00	1.60	239.30	8,681.12	-82.67	-106.36	87.52	-0.89	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,779.00	1.70	233.50	8,776.08	-80.33	-107.67	85.25	-0.20	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,875.00	1.90	228.90	8,872.03	-77.90	-109.77	82.91	-0.26	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	8,971.00	2.00	224.30	8,967.98	-75.43	-112.01	80.54	-0.19	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,066.00	1.60	242.60	9,062.93	-73.02	-113.80	78.20	-0.74	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,162.00	1.40	251.10	9,159.92	-72.06	-114.21	77.28	-0.75	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,162.00	1.40	255.10	9,158.90	-70.71	-114.61	75.93	-0.17	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,258.00	3.00	257.90	9,254.83	-67.09	-115.44	72.34	-1.67	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,290.00	5.90	268.80	9,286.73	-64.62	-115.65	68.88	-9.40	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,322.00	9.10	277.10	9,318.45	-60.48	-115.37	65.72	-10.53	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,354.00	11.80	280.80	9,349.92	-54.80	-114.44	59.99	-8.69	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,386.00	15.10	281.80	9,381.04	-47.58	-112.98	52.70	-10.34	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,417.00	18.00	281.80	9,410.75	-39.03	-111.17	44.06	-9.35	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,449.00	19.50	276.70	9,441.05	-28.96	-109.54	33.91	-6.94	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,481.00	21.00	273.40	9,471.07	-17.99	-108.57	22.88	-5.89	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,513.00	23.00	273.10	9,500.74	-8.06	-107.90	10.91	-6.26	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,545.00	25.30	272.30	9,529.94	-6.97	-107.28	-2.16	-7.26	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,577.00	28.70	272.30	9,558.45	-21.45	-106.70	-18.68	-10.63	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,609.00	31.70	272.90	9,586.10	-37.47	-105.97	-32.76	-9.42	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,640.00	34.60	272.90	9,612.05	-54.35	-105.11	-49.68	-9.35	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,672.00	38.40	272.00	9,637.77	-73.30	-104.30	-68.70	-11.99	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,704.00	41.20	271.60	9,662.35	-93.73	-103.66	-89.17	-8.79	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,736.00	44.10	270.80	9,685.89	-115.36	-103.21	-110.84	-9.22	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,767.00	47.70	269.90	9,707.46	-137.59	-103.08	-133.10	-11.80	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,799.00	51.10	269.40	9,728.28	-161.86	-103.23	-157.39	-10.69	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,831.00	53.70	269.40	9,747.80	-187.20	-103.50	-182.74	-8.13	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,863.00	56.00	268.50	9,766.22	-213.35	-103.98	-208.90	-7.55	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,895.00	57.60	269.20	9,783.75	-240.12	-104.52	-235.87	-5.32	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,927.00	59.70	268.80	9,800.39	-267.44	-104.99	-262.99	-6.65	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,959.00	63.80	268.50	9,815.54	-295.61	-105.66	-291.17	-12.84	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	9,991.00	67.40	269.50	9,826.75	-324.74	-106.16	-320.30	-11.80	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,023.00	70.10	270.20	9,840.35	-354.53	-106.24	-350.12	-8.68	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,054.00	74.20	270.20	9,849.85	-384.00	-106.14	-379.62	-13.23	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,086.00	77.90	270.50	9,857.58	-415.01	-105.92	-410.67	-11.63	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,118.00	81.30	270.10	9,863.34	-446.44	-105.73	-442.14	-10.74	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,150.00	84.90	268.30	9,867.18	-478.18	-106.17	-473.60	-12.56	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,238.00	88.70	267.60	9,872.10	-509.63	-109.32	-501.69	-4.39	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,334.00	89.30	267.80	9,873.77	-541.03	-113.17	-537.60	-0.86	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,429.00	89.30	267.80	9,874.93	-572.00	-116.98	-569.51	-0.21	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,525.00	89.70	267.60	9,875.77	-603.00	-121.00	-601.42	-0.42	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,620.00	90.50	267.80	9,875.60	-634.00	-124.81	-633.35	-0.67	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,716.00	91.00	268.50	9,874.35	-665.00	-127.91	-664.29	-0.90	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,812.00	91.70	268.70	9,872.09	-696.00	-130.26	-695.23	-0.76	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	10,907.00	90.70	268.30	9,870.10	-727.00	-132.74	-726.18	-1.13	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	11,003.00	90.90	268.70	9,868.76	-758.00	-135.26	-757.13	-0.47	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	11,096.00	91.50	269.40	9,866.81	-789.00	-136.80	-788.10	-0.99	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	11,194.00	91.30	269.50	9,864.41	-820.00	-137.74	-819.07	-0.23	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	11,289.00	91.10	269.00	9,862.42	-851.00	-138.98	-850.04	-0.57	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	11,385.00	90.40	268.70	9,861.17	-882.00	-140.91	-881.01	-0.79	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	11,480.00	88.50	268.00	9,862.08	-913.00	-143.64	-912.96	-2.13	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	11,576.00	89.10	268.80	9,864.09	-944.00	-146.32	-943.90	-1.04	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	11,671.00	89.30	268.80	9,865.42	-975.00	-148.31	-993.87	-0.21	MWD	LEAM DRILLING SYSTEMS			
2/11/2015	11,767.00	89.30	268.80	9,866.59	-1,006.00	-150.32	-1,005.84	-0.00	MWD	LEAM DRILLING SYSTEMS			
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Well Name: APACHE 24-23 FED COM 13H

Sub-Division	Region	Field Name	County	State						
DELAWARE BASIN	DELAWARE BASIN WEST	LOS MEDANOS	EDDY	NM						
Surface Legal Location	Section	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)				
Sec 24 22S 30E	2001542522	32° 22' 21.895" N	103° 49' 34.145" W	3,432.50	3,408.90	23.60				
Survey Data										
Date	MD (RKB)	Incl (°)	Azim (°)	TVD (RKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (ft/100ft)	Survey Tool	Survey Company
2/11/2015	11,862.00	89.40	269.90	9,867.67	2,189.42	151.40	-2,184.83	-1.16	MWD	LEAM DRILLING SYSTEMS
2/11/2015	11,958.00	90.00	269.40	9,868.17	2,285.35	151.99	-2,280.82	-0.81	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,053.00	91.70	269.20	9,866.76	2,380.28	153.15	-2,375.80	-1.80	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,149.00	93.30	269.00	9,862.57	2,476.15	154.65	-2,471.70	-1.68	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,244.00	92.90	268.50	9,857.44	2,570.98	156.72	-2,568.53	-0.67	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,340.00	93.50	268.00	9,852.08	2,666.82	159.65	-2,662.34	-0.81	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,435.00	92.70	268.10	9,846.94	2,761.68	162.88	-2,757.14	-0.85	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,529.00	90.80	267.30	9,844.07	2,855.63	166.65	-2,851.02	-2.19	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,624.00	90.70	267.40	9,842.83	2,950.62	171.04	-2,945.91	-0.15	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,719.00	90.00	267.60	9,842.24	3,045.61	175.18	-3,040.82	-0.77	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,813.00	90.30	268.00	9,842.00	3,139.61	178.79	-3,134.75	-0.53	MWD	LEAM DRILLING SYSTEMS
2/11/2015	12,907.00	90.30	268.00	9,841.51	3,233.61	182.07	-3,228.69	-0.00	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,002.00	90.80	268.50	9,840.59	3,328.59	184.97	-3,323.64	-0.74	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,097.00	91.30	268.80	9,838.85	3,423.55	187.21	-3,418.60	-0.61	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,191.00	91.60	269.00	9,836.47	3,517.49	189.02	-3,512.55	-0.38	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,285.00	92.00	269.20	9,833.52	3,611.41	190.49	-3,606.49	-0.48	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,380.00	92.30	269.40	9,829.96	3,706.29	191.65	-3,701.42	-0.38	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,474.00	93.10	269.70	9,825.53	3,800.12	192.39	-3,795.31	-0.91	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,568.00	92.70	269.00	9,820.77	3,893.94	193.45	-3,889.18	-0.86	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,663.00	92.30	268.10	9,816.63	3,988.84	195.86	-3,984.06	-1.04	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,757.00	92.80	268.50	9,812.45	4,082.73	198.64	-4,077.93	-0.68	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,851.00	93.40	268.70	9,807.37	4,176.57	200.93	-4,171.76	-0.67	MWD	LEAM DRILLING SYSTEMS
2/11/2015	13,945.00	93.80	268.70	9,801.46	4,270.36	203.06	-4,265.55	-0.43	MWD	LEAM DRILLING SYSTEMS
2/11/2015	14,040.00	92.90	268.30	9,795.91	4,365.18	205.55	-4,360.35	-1.04	MWD	LEAM DRILLING SYSTEMS
2/11/2015	14,134.00	91.90	268.70	9,791.98	4,459.08	208.00	-4,454.24	-1.15	MWD	LEAM DRILLING SYSTEMS
2/11/2015	14,229.00	92.90	268.50	9,788.00	4,553.98	210.32	-4,549.12	-1.07	MWD	LEAM DRILLING SYSTEMS
2/27/2015	14,379.00	95.90	267.80	9,776.49	4,703.51	215.15	-4,698.59	-2.05	MWD	LEAM DRILLING SYSTEMS
2/27/2015	14,474.00	90.90	267.80	9,770.86	4,798.31	218.79	-4,793.32	-5.26	MWD	LEAM DRILLING SYSTEMS
2/27/2015	14,571.00	90.20	268.10	9,768.93	4,893.30	222.26	-4,890.25	-0.79	MWD	LEAM DRILLING SYSTEMS
2/27/2015	14,667.00	90.10	268.50	9,769.68	4,991.29	225.11	-4,986.21	-0.43	MWD	LEAM DRILLING SYSTEMS
2/27/2015	14,762.00	90.10	268.70	9,769.51	5,088.27	227.43	-5,081.18	-0.21	MWD	LEAM DRILLING SYSTEMS
2/27/2015	14,857.00	89.90	269.00	9,769.51	5,181.24	229.33	-5,176.16	-0.38	MWD	LEAM DRILLING SYSTEMS
2/27/2015	14,952.00	90.00	269.00	9,769.59	5,276.20	230.99	-5,271.15	-0.11	MWD	LEAM DRILLING SYSTEMS
2/27/2015	15,047.00	90.50	269.20	9,769.18	5,371.16	232.48	-5,366.13	-0.57	MWD	LEAM DRILLING SYSTEMS
2/27/2015	15,142.00	90.30	268.10	9,768.52	5,466.14	234.72	-5,461.10	-1.18	MWD	LEAM DRILLING SYSTEMS
3/2/2015	15,236.00	89.10	267.30	9,769.01	5,560.13	238.49	-5,555.02	-1.53	MWD	LEAM DRILLING SYSTEMS
3/2/2015	15,331.00	89.30	267.10	9,770.33	5,655.12	243.13	-5,649.90	-0.30	MWD	LEAM DRILLING SYSTEMS
3/3/2015	15,425.00	89.80	267.10	9,771.07	5,749.12	247.69	-5,743.78	-0.53	MWD	LEAM DRILLING SYSTEMS
3/3/2015	15,520.00	88.20	268.10	9,772.73	5,844.10	251.87	-5,838.68	-1.99	MWD	LEAM DRILLING SYSTEMS
3/3/2015	15,615.00	86.40	268.70	9,777.20	5,938.97	254.52	-5,933.53	-2.00	MWD	LEAM DRILLING SYSTEMS
3/3/2015	15,709.00	87.40	268.70	9,782.29	6,032.81	256.65	-6,027.37	-1.08	MWD	LEAM DRILLING SYSTEMS
3/3/2015	15,803.00	87.80	268.00	9,786.22	6,126.72	259.35	-6,121.24	-0.86	MWD	LEAM DRILLING SYSTEMS
3/3/2015	15,895.00	89.30	267.10	9,788.55	6,218.68	263.28	-6,213.13	-1.90	MWD	LEAM DRILLING SYSTEMS
3/3/2015	15,989.00	89.80	266.70	9,789.29	6,312.68	268.37	-6,306.99	-0.68	MWD	LEAM DRILLING SYSTEMS
3/3/2015	16,084.00	89.30	266.50	9,790.04	6,407.66	274.00	-6,401.82	-0.57	MWD	LEAM DRILLING SYSTEMS
3/4/2015	16,176.00	89.30	266.50	9,791.16	6,499.64	279.62	-6,493.64	-0.00	MWD	LEAM DRILLING SYSTEMS
3/4/2015	16,273.00	89.10	266.20	9,792.52	6,596.62	285.79	-6,590.43	-0.37	MWD	LEAM DRILLING SYSTEMS
3/4/2015	16,367.00	89.20	266.40	9,793.91	6,690.59	291.86	-6,684.22	-0.24	MWD	LEAM DRILLING SYSTEMS
3/4/2015	16,462.00	89.40	266.00	9,795.07	6,785.56	298.15	-6,779.01	-0.47	MWD	LEAM DRILLING SYSTEMS
3/4/2015	16,556.00	89.50	266.00	9,795.97	6,879.53	304.71	-6,872.77	-0.11	MWD	LEAM DRILLING SYSTEMS
3/4/2015	16,650.00	89.50	266.00	9,796.79	6,973.49	311.26	-6,966.54	-0.00	MWD	LEAM DRILLING SYSTEMS
3/4/2015	16,745.00	89.90	265.80	9,797.29	7,068.46	316.06	-7,061.30	-0.47	MWD	LEAM DRILLING SYSTEMS
3/4/2015	16,805.00	89.80	266.00	9,797.45	7,128.44	322.35	-7,121.14	-0.37	MWD	LEAM DRILLING SYSTEMS
3/4/2015	16,994.00	89.80	266.00	9,798.11	7,317.38	335.53	-7,309.68	-0.00	BIT	LEAM DRILLING SYSTEMS