



Well Name: COTTON DRAW UNIT 224H

Sub-Division DELAWARE BASIN WEST	Region BASIN WEST	Field Name PADUCA	County EDDY	State/Province NM
Surface Legal Location SEC 12 25S R31E	APRN# 3001543182	Latitude (°) 32° 8' 39.056" N	Longitude (°) 103° 43' 30.045" W	Orig KB Elevation (ft) 3,446.90
				Ground Elev MSL (ft) 3,423.30
				KB - GL (ft) 23.60

Wellbores

Wellbore Name OH	Parent Wellbore	SAP Well ID 39444	Vertical Section Direction (°)
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Kick Offs & Key Depths

Date 1/15/2016	Type CURVE	Top Depth (ftKB) 9,899.0
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Actual Deviation Survey EXTREME ENGINEERING, Proposed? No	Defined? No	Proposed? No	Proposed Deviation Survey
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Deviation Survey

Date 1/8/2016	Description EXTREME ENGINEERING
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MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EW Tie In (ft)
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Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
1/8/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	EXTREME ENGINEERING
1/8/2016	172.00	0.40	136.50	172.00	0.44	-0.44	0.41	0.23	MWD	EXTREME ENGINEERING
1/8/2016	237.00	0.40	146.79	237.00	0.79	-0.79	0.69	0.11	MWD	EXTREME ENGINEERING
1/8/2016	331.00	0.70	143.50	330.99	1.52	-1.53	1.21	0.32	MWD	EXTREME ENGINEERING
1/8/2016	423.00	1.10	155.50	422.98	2.78	-2.78	1.92	0.48	MWD	EXTREME ENGINEERING
1/8/2016	516.00	1.10	168.59	515.96	4.47	-4.47	2.46	0.27	MWD	EXTREME ENGINEERING
1/8/2016	608.00	1.71	171.49	607.94	6.69	-6.69	2.84	0.67	MWD	EXTREME ENGINEERING
1/8/2016	699.00	2.02	176.50	698.89	9.63	-9.64	3.14	0.38	MWD	EXTREME ENGINEERING
1/8/2016	853.00	2.02	186.33	852.79	15.04	-15.04	3.01	0.22	MWD	EXTREME ENGINEERING
1/8/2016	1,035.00	2.59	192.19	1,034.64	22.25	-22.25	1.78	0.34	MWD	EXTREME ENGINEERING
1/8/2016	1,220.00	2.42	188.41	1,219.47	30.20	-30.20	0.33	0.13	MWD	EXTREME ENGINEERING
1/8/2016	1,402.00	2.42	183.97	1,401.31	37.83	-37.83	-0.50	0.10	MWD	EXTREME ENGINEERING
1/8/2016	1,593.00	2.42	195.09	1,592.14	45.75	-45.75	-1.83	0.25	MWD	EXTREME ENGINEERING
1/8/2016	1,785.00	2.20	189.20	1,783.98	53.30	-53.30	-3.47	0.17	MWD	EXTREME ENGINEERING
1/8/2016	1,976.00	2.20	186.39	1,974.84	60.57	-60.56	-4.47	0.06	MWD	EXTREME ENGINEERING
1/8/2016	2,167.00	1.80	193.68	2,165.72	67.13	-67.12	-5.58	0.25	MWD	EXTREME ENGINEERING
1/8/2016	2,359.00	1.49	190.21	2,357.64	72.51	-72.51	-6.74	0.17	MWD	EXTREME ENGINEERING
1/8/2016	2,550.00	1.58	183.79	2,548.58	77.59	-77.58	-7.35	0.10	MWD	EXTREME ENGINEERING
1/8/2016	2,741.00	1.58	184.59	2,739.50	82.84	-82.83	-7.74	0.01	MWD	EXTREME ENGINEERING
1/8/2016	2,933.00	1.32	187.31	2,931.44	87.67	-87.66	-8.23	0.14	MWD	EXTREME ENGINEERING
1/8/2016	3,124.00	1.41	184.99	3,122.39	92.19	-92.19	-8.72	0.06	MWD	EXTREME ENGINEERING
1/8/2016	3,315.00	1.32	169.60	3,313.33	96.70	-96.69	-8.52	0.20	MWD	EXTREME ENGINEERING
1/8/2016	3,506.00	1.10	182.87	3,504.29	100.69	-100.69	-8.22	0.19	MWD	EXTREME ENGINEERING
1/8/2016	3,697.00	1.32	153.30	3,695.25	104.49	-104.48	-7.32	0.34	MWD	EXTREME ENGINEERING
1/8/2016	3,889.00	1.41	159.67	3,887.20	108.68	-108.67	-5.51	0.09	MWD	EXTREME ENGINEERING
1/8/2016	4,080.00	2.11	176.81	4,078.11	114.39	-114.39	-4.49	0.45	MWD	EXTREME ENGINEERING
1/8/2016	4,271.00	2.20	187.09	4,268.97	121.54	-121.54	-4.75	0.21	MWD	EXTREME ENGINEERING
1/8/2016	4,389.00	2.11	184.89	4,386.89	125.95	-125.95	-5.22	0.10	MWD	EXTREME ENGINEERING
1/10/2016	4,499.00	2.00	189.40	4,496.82	129.87	-129.86	-5.70	0.18	MWD	LEAM DRILLING SYSTEMS
1/10/2016	4,595.00	2.10	195.30	4,592.76	133.21	-133.21	-6.44	0.24	MWD	LEAM DRILLING SYSTEMS
1/10/2016	4,691.00	1.50	195.50	4,688.71	136.12	-136.12	-7.24	0.63	MWD	LEAM DRILLING SYSTEMS
1/10/2016	4,882.00	1.00	169.10	4,879.66	140.17	-140.16	-7.59	0.39	MWD	LEAM DRILLING SYSTEMS
1/10/2016	5,073.00	0.30	343.20	5,070.66	141.33	-141.32	-7.42	0.68	MWD	LEAM DRILLING SYSTEMS
1/10/2016	5,263.00	0.50	310.30	5,260.65	140.32	-140.31	-8.20	0.16	MWD	LEAM DRILLING SYSTEMS
1/10/2016	5,456.00	0.50	323.00	5,453.64	139.10	-139.09	-9.35	0.06	MWD	LEAM DRILLING SYSTEMS
1/10/2016	5,647.00	0.40	353.00	5,644.64	137.77	-137.76	-9.93	0.13	MWD	LEAM DRILLING SYSTEMS
1/10/2016	5,838.00	0.90	328.60	5,835.63	135.83	-135.82	-10.79	0.29	MWD	LEAM DRILLING SYSTEMS
1/10/2016	6,029.00	0.80	323.70	6,026.61	133.48	-133.47	-12.36	0.06	MWD	LEAM DRILLING SYSTEMS
1/10/2016	6,221.00	0.80	307.70	6,218.59	131.58	-131.57	-14.22	0.12	MWD	LEAM DRILLING SYSTEMS
1/10/2016	6,412.00	0.30	29.40	6,409.58	130.33	-130.32	-15.03	0.43	MWD	LEAM DRILLING SYSTEMS
1/10/2016	6,603.00	0.80	75.10	6,600.57	129.55	-129.54	-13.49	0.33	MWD	LEAM DRILLING SYSTEMS
1/10/2016	6,795.00	1.00	75.10	6,792.55	128.77	-128.76	-10.58	0.10	MWD	LEAM DRILLING SYSTEMS
1/10/2016	6,986.00	0.90	58.60	6,983.52	127.56	-127.55	-7.69	0.15	MWD	LEAM DRILLING SYSTEMS
1/10/2016	7,177.00	0.60	77.90	7,174.50	126.56	-126.56	-5.43	0.20	MWD	LEAM DRILLING SYSTEMS
1/10/2016	7,369.00	0.60	90.40	7,366.49	126.36	-126.36	-3.44	0.07	MWD	LEAM DRILLING SYSTEMS
1/10/2016	7,560.00	0.80	112.40	7,557.48	126.87	-126.87	-1.21	0.17	MWD	LEAM DRILLING SYSTEMS
1/10/2016	7,751.00	1.30	113.80	7,748.45	128.25	-128.25	2.01	0.26	MWD	LEAM DRILLING SYSTEMS
1/10/2016	7,942.00	0.80	150.00	7,939.42	130.28	-130.28	4.66	0.42	MWD	LEAM DRILLING SYSTEMS
1/10/2016	8,133.00	0.70	152.10	8,130.40	132.46	-132.47	5.87	0.05	MWD	LEAM DRILLING SYSTEMS
1/10/2016	8,325.00	0.80	156.10	8,322.38	134.72	-134.73	6.96	0.06	MWD	LEAM DRILLING SYSTEMS
1/10/2016	8,516.00	0.40	320.70	8,513.38	135.43	-135.43	7.08	0.62	MWD	LEAM DRILLING SYSTEMS
1/10/2016	8,707.00	1.30	304.00	8,704.36	133.70	-133.71	4.86	0.48	MWD	LEAM DRILLING SYSTEMS
1/10/2016	8,899.00	1.00	1.10	8,896.32	130.81	-130.81	3.09	0.59	MWD	LEAM DRILLING SYSTEMS
1/10/2016	9,090.00	1.40	345.30	9,087.28	126.89	-126.89	2.53	0.27	MWD	LEAM DRILLING SYSTEMS
1/10/2016	9,281.00	0.70	351.50	9,278.25	123.48	-123.48	1.76	0.37	MWD	LEAM DRILLING SYSTEMS
1/10/2016	9,473.00	0.30	358.30	9,470.24	121.82	-121.82	1.57	0.21	MWD	LEAM DRILLING SYSTEMS
1/10/2016	9,664.00	0.40	350.60	9,661.24	120.66	-120.66	1.45	0.06	MWD	LEAM DRILLING SYSTEMS
1/10/2016	9,843.00	1.20	222.50	9,840.23	121.42	-121.42	0.08	0.83	MWD	LEAM DRILLING SYSTEMS
1/10/2016	9,942.00	6.70	192.80	9,938.96	127.83	-127.83	-1.90	5.75	MWD	LEAM DRILLING SYSTEMS
1/10/2016	9,987.00	11.80	193.30	9,983.36	134.87	-134.87	-3.54	11.33	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,038.00	16.30	192.10	10,032.82	146.95	-146.95	-6.24	8.84	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,083.00	21.50	191.90	10,075.38	161.21	-161.20	-9.27	11.56	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,134.00	26.40	192.40	10,121.97	181.44	-181.43	-13.63	9.62	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,179.00	32.40	192.80	10,161.16	203.00	-202.98	-18.46	13.34	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,229.00	37.10	191.90	10,202.23	230.84	-230.81	-24.54	9.46	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,274.00	42.30	190.10	10,236.84	259.05	-259.02	-30.00	11.83	MWD	LEAM DRILLING SYSTEMS

Provide signature page for survey



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Surface Legal Location SEC 12 25S R31E		APRJUM 3001543182	Latitude (°) 32° 8' 39.056" N	Longitude (°) 103° 43' 30.045" W
		Original KB Elevation (ft) 3,446.90	Ground Elev MSL (ft) 3,423.30	KB - GL (ft) 23.60

Survey Data

Date	MD (ftKB)	Inc (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
1/10/2016	10,325.00	48.00	189.80	10,272.80	294.65	-294.62	-36.24	11.18	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,370.00	54.30	187.30	10,301.01	329.30	-329.26	-41.41	14.65	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,420.00	60.50	185.00	10,327.94	371.16	-371.12	-45.89	12.99	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,465.00	65.20	181.90	10,348.47	411.11	-411.07	-48.28	12.11	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,516.00	69.60	181.20	10,368.07	458.17	-458.13	-49.55	8.72	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,561.00	74.60	181.70	10,381.89	500.96	-500.82	-50.63	11.16	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,610.00	80.60	180.30	10,392.41	548.79	-548.75	-51.46	12.56	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,670.00	87.50	179.20	10,398.63	608.43	-608.39	-51.20	11.64	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,765.00	90.40	181.00	10,400.37	703.40	-703.36	-51.36	3.58	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,861.00	89.90	182.90	10,400.12	799.34	-799.29	-54.63	2.05	MWD	LEAM DRILLING SYSTEMS
1/10/2016	10,857.00	90.10	184.00	10,400.12	895.17	-895.12	-60.41	1.16	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,052.00	89.70	184.30	10,400.28	989.93	-989.87	-67.28	0.53	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,148.00	89.10	183.10	10,401.29	1,085.73	-1,085.66	-73.47	1.40	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,243.00	89.40	182.40	10,402.53	1,180.61	-1,180.54	-78.03	0.80	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,339.00	88.90	182.20	10,403.96	1,276.53	-1,276.46	-81.88	0.56	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,435.00	88.70	179.60	10,405.97	1,372.49	-1,372.41	-83.39	2.72	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,530.00	86.50	179.00	10,408.29	1,467.45	-1,467.38	-82.23	0.67	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,626.00	87.90	178.90	10,411.30	1,563.39	-1,563.31	-80.47	0.63	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,722.00	86.80	177.10	10,415.74	1,659.22	-1,659.15	-77.13	2.20	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,817.00	85.80	177.10	10,421.05	1,753.94	-1,753.88	-72.33	0.00	MWD	LEAM DRILLING SYSTEMS
1/10/2016	11,913.00	87.30	177.50	10,425.99	1,849.70	-1,849.64	-67.81	0.67	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,009.00	88.20	178.50	10,429.76	1,945.57	-1,945.51	-64.47	1.40	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,104.00	88.90	178.70	10,432.16	2,040.50	-2,040.45	-62.14	0.77	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,200.00	90.00	180.50	10,433.08	2,136.49	-2,136.44	-61.47	2.20	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,295.00	89.10	179.40	10,433.83	2,231.49	-2,231.43	-61.39	1.50	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,391.00	88.60	178.20	10,435.75	2,327.44	-2,327.39	-59.38	1.35	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,487.00	87.80	178.70	10,438.77	2,423.36	-2,423.31	-56.79	0.98	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,582.00	87.00	179.00	10,443.08	2,518.24	-2,518.19	-54.88	0.90	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,678.00	87.50	178.90	10,447.68	2,614.11	-2,614.06	-53.12	0.53	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,773.00	89.50	180.10	10,450.17	2,709.06	-2,709.02	-52.30	2.45	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,869.00	90.30	179.90	10,450.34	2,805.06	-2,805.02	-52.30	0.86	MWD	LEAM DRILLING SYSTEMS
1/10/2016	12,965.00	88.90	180.10	10,451.01	2,901.06	-2,901.01	-52.30	1.47	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,060.00	89.10	180.60	10,452.67	2,996.04	-2,996.00	-52.88	0.57	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,156.00	87.70	180.10	10,455.35	3,092.00	-3,091.96	-53.46	1.55	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,252.00	86.80	180.30	10,459.95	3,187.89	-3,187.84	-53.80	0.96	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,347.00	89.40	180.80	10,463.10	3,282.83	-3,282.78	-54.71	2.79	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,443.00	90.00	180.60	10,463.61	3,378.82	-3,378.77	-55.88	0.66	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,539.00	88.40	180.30	10,464.95	3,474.80	-3,474.75	-56.64	1.70	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,634.00	86.50	180.10	10,469.17	3,569.70	-3,569.65	-56.97	2.01	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,730.00	86.70	179.00	10,474.87	3,665.53	-3,665.48	-56.21	1.16	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,826.00	85.90	178.70	10,481.06	3,761.31	-3,761.26	-54.29	0.89	MWD	LEAM DRILLING SYSTEMS
1/10/2016	13,921.00	86.30	178.50	10,487.52	3,856.06	-3,856.01	-51.98	0.47	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,017.00	88.50	179.90	10,491.88	3,951.94	-3,951.90	-50.64	2.72	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,112.00	87.60	178.30	10,495.11	4,046.87	-4,046.82	-49.15	1.93	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,208.00	87.60	178.90	10,499.13	4,142.75	-4,142.71	-46.80	0.62	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,304.00	89.80	177.70	10,501.31	4,238.67	-4,238.64	-43.96	2.61	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,399.00	87.70	177.40	10,503.38	4,333.56	-4,333.52	-39.90	2.23	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,495.00	87.50	176.30	10,507.40	4,429.32	-4,429.29	-34.63	1.16	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,591.00	88.40	175.50	10,510.83	4,525.01	-4,524.98	-27.77	1.25	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,686.00	89.20	176.60	10,512.82	4,619.75	-4,619.73	-21.22	1.43	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,767.00	88.90	174.50	10,514.17	4,700.49	-4,700.47	-14.94	2.62	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,863.00	89.70	175.40	10,515.34	4,796.10	-4,796.09	-6.49	1.25	MWD	LEAM DRILLING SYSTEMS
1/10/2016	14,958.00	89.90	176.20	10,515.67	4,890.83	-4,890.84	0.47	0.87	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,054.00	87.90	177.10	10,517.51	4,986.64	-4,986.65	6.07	2.28	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,150.00	87.70	177.50	10,521.20	5,082.46	-5,082.47	10.59	0.47	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,245.00	87.00	179.60	10,525.59	5,177.32	-5,177.33	13.00	2.33	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,341.00	86.60	180.10	10,530.95	5,273.17	-5,273.18	13.25	0.67	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,437.00	87.50	180.50	10,535.89	5,369.04	-5,369.05	12.74	1.03	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,532.00	88.10	180.50	10,539.54	5,463.97	-5,463.96	11.92	0.63	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,628.00	88.60	181.50	10,542.30	5,559.91	-5,559.92	10.24	1.16	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,723.00	88.90	181.70	10,544.38	5,654.85	-5,654.85	7.59	0.38	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,819.00	88.10	181.30	10,546.89	5,750.79	-5,750.80	5.08	0.93	MWD	LEAM DRILLING SYSTEMS
1/10/2016	15,915.00	88.60	182.00	10,549.65	5,846.71	-5,846.72	2.31	0.90	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,010.00	87.80	181.90	10,552.64	5,941.61	-5,941.61	-0.92	0.85	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,106.00	87.20	180.30	10,556.82	6,037.50	-6,037.50	-2.76	1.78	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,202.00	86.90	179.80	10,561.77	6,133.37	-6,133.37	-2.84	0.61	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,297.00	85.40	180.30	10,567.32	6,228.21	-6,228.21	-2.93	0.74	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,393.00	86.50	180.30	10,573.26	6,324.03	-6,324.02	-3.43	0.10	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,489.00	87.20	180.50	10,578.54	6,419.88	-6,419.88	-4.10	0.76	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,584.00	88.00	180.80	10,582.51	6,514.79	-6,514.79	-5.17	0.90	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,680.00	90.80	182.00	10,583.52	6,610.74	-6,610.74	-7.52	3.17	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,776.00	91.00	181.30	10,582.01	6,706.70	-6,706.69	-10.28	0.76	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,871.00	90.00	180.30	10,581.18	6,801.68	-6,801.67	-11.61	1.49	MWD	LEAM DRILLING SYSTEMS
1/10/2016	16,967.00	89.20	180.30	10,581.85	6,897.68	-6,897.67	-12.11	0.83	MWD	LEAM DRILLING SYSTEMS
1/10/2016	17,063.00	89.60	179.60	10,582.86	6,993.67	-6,993.66	-12.03	0.84	MWD	LEAM DRILLING SYSTEMS
1/10/2016	17,158.00	90.70	179.00	10,582.61	7,088.66	-7,088.65	-10.87	1.32	MWD	LEAM DRILLING SYSTEMS
1/10/2016	17,254.00	91.50	179.20	10,580.77	7,184.63	-7,184.62	-9.36	0.86	MWD	LEAM DRILLING SYSTEMS



Well Name: COTTON DRAW UNIT 224H

Sub-Division DELAWARE BASIN WEST	Region BASIN WEST	Field Name PADUCA	County EDDY	State/Province NM		
Surface Legal Location SEC 12 25S R31E	APRN 3001543182	Latitude (°) 32° 8' 39.056" N	Longitude (°) 103° 43' 30.045" W	Orig KB Elevation (ft) 3,446.90	Ground Elev MSL (ft) 3,423.30	KB - GL (ft) 23.60

Survey Data										
Date	MD (ftKB)	Ind (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EAW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
1/10/2016	17,349.00	91.90	179.40	10,577.95	7,279.58	-7,279.57	-8.20	0.47	MWD	LEAM DRILLING SYSTEMS
1/10/2016	17,503.00	91.90	179.40	10,572.84	7,433.48	-7,433.48	-6.59	0.00	BIT	LEAM DRILLING SYSTEMS