

Well Name: COTTON DRAW UNIT 212H

Sub-Division	DELAWARE BASIN WEST	Region	BASIN WEST	Field Name	PADUCA	County	EDDY	State/Province	NM				
Surface Legal Location	SEC 35 24S R31E	APN/LWI	3001542892	Latitude (°)	32° 10' 50.528" N	Longitude (°)	103° 45' 15.905" W	Orig KB Elevation (ft)	3,531.30	Ground Elev MSL (ft)	3,506.30	KB - GL (ft)	25.00
Wellbores													
Wellbore Name	OH	Parent Wellbore	OH	SAP Well ID	37998	Vertical Section Direction (°)							

Kick Offs & Key Depths

Date	2/21/2015	Type	Kick Off	Top Depth (RKB)	9,707.0	
Actual Deviation Survey	EXTREME/MWD, Proposed? No	Definitive?	Yes	Proposed?	No	Proposed Deviation Survey

Deviation Survey

Date 2/10/2015		Description EXTREME/MWD			
MD Tie In (RKB)	TVD Tie In (RKB)	Inclination Tie In (°)	Azimuth Tie In (°)	N/S Tie In (ft)	E/W Tie In (ft)
0.00	0.00	0.00	0.00	0.00	0.00

Survey Data

Date	MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100)	Survey Tool	Survey Company
2/16/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	EXTREME
2/10/2015	218.00	0.88	22.26	217.99	-1.57	1.55	0.63	0.40	MWD	EXTREME
2/10/2015	318.00	0.62	55.79	317.98	-2.81	2.56	1.37	0.50	MWD	EXTREME
2/10/2015	409.00	0.09	50.47	408.98	-2.94	2.89	1.83	0.58	MWD	EXTREME
2/10/2015	504.00	0.31	183.28	503.98	-2.74	2.68	1.88	0.40	MWD	EXTREME
2/10/2015	598.00	0.70	186.66	597.98	-1.91	1.85	1.80	0.42	MWD	EXTREME
2/10/2015	690.00	0.70	171.89	689.97	-0.80	0.74	1.81	0.20	MWD	EXTREME
2/12/2015	846.00	1.19	127.90	845.95	1.09	-1.20	3.22	0.54	MWD	EXTREME
2/12/2015	940.00	1.19	207.89	939.94	2.55	-2.66	3.54	1.63	MWD	EXTREME
2/12/2015	1,032.00	1.32	209.60	1,031.91	4.34	-4.43	2.57	0.15	MWD	EXTREME
2/13/2015	1,125.00	1.32	206.60	1,124.89	6.26	-6.32	1.56	0.07	MWD	EXTREME
2/13/2015	1,220.00	1.10	222.87	1,219.87	7.95	-7.96	0.45	0.43	MWD	EXTREME
2/13/2015	1,317.00	1.32	222.00	1,316.85	9.50	-9.48	-0.93	0.23	MWD	EXTREME
2/13/2015	1,412.00	1.19	222.87	1,411.82	11.08	-11.01	-2.34	0.14	MWD	EXTREME
2/13/2015	1,507.00	1.01	225.07	1,506.81	12.44	-12.33	-3.60	0.19	MWD	EXTREME
2/12/2015	1,600.00	1.49	224.76	1,599.78	13.92	-13.76	-5.03	0.52	MWD	EXTREME
2/13/2015	1,695.00	1.49	220.19	1,694.75	15.79	-15.59	-6.70	0.13	MWD	EXTREME
2/13/2015	1,790.00	1.41	218.88	1,789.72	17.70	-17.44	-8.23	0.09	MWD	EXTREME
2/13/2015	1,887.00	1.58	215.09	1,886.69	19.77	-19.46	-9.75	0.20	MWD	EXTREME
2/13/2015	1,978.00	1.58	219.88	1,977.65	21.81	-21.45	-11.27	0.15	MWD	EXTREME
2/13/2015	2,077.00	2.11	209.16	2,076.60	24.50	-24.09	-13.04	0.64	MWD	EXTREME
2/13/2015	2,164.00	2.81	206.26	2,163.52	27.87	-27.40	-14.76	0.82	MWD	EXTREME
2/13/2015	2,262.00	3.12	204.90	2,261.39	32.51	-31.97	-16.95	0.32	MWD	EXTREME
2/13/2015	2,357.00	3.12	209.69	2,356.25	37.17	-36.57	-19.32	0.27	MWD	EXTREME
2/13/2015	2,450.00	3.12	204.99	2,449.11	41.74	-41.06	-21.64	0.27	MWD	EXTREME
2/13/2015	2,544.00	3.60	202.88	2,542.95	46.85	-46.10	-23.87	0.53	MWD	EXTREME
2/13/2015	2,639.00	4.22	206.26	2,637.73	52.81	-51.98	-26.57	0.70	MWD	EXTREME
2/13/2015	2,734.00	4.70	199.98	2,732.44	59.70	-58.77	-29.45	0.72	MWD	EXTREME
2/13/2015	2,828.00	5.41	201.07	2,826.07	67.54	-66.52	-32.36	0.76	MWD	EXTREME
2/13/2015	2,923.00	5.19	204.59	2,920.67	75.73	-74.61	-35.76	0.41	MWD	EXTREME
2/13/2015	3,017.00	6.59	202.17	3,014.17	84.71	-83.47	-39.56	1.51	MWD	EXTREME
2/13/2015	3,112.00	7.60	203.10	3,108.44	95.68	-94.30	-44.08	1.07	MWD	EXTREME
2/13/2015	3,175.00	8.22	202.00	3,170.84	103.79	-102.31	-47.40	1.01	MWD	EXTREME
2/13/2015	3,233.00	7.29	197.78	3,228.31	111.22	-109.66	-50.08	1.88	MWD	EXTREME
2/13/2015	3,328.00	5.49	191.89	3,322.72	121.50	-119.84	-52.86	2.01	MWD	EXTREME
2/13/2015	3,424.00	4.31	192.99	3,418.37	129.56	-127.85	-54.62	1.23	MWD	EXTREME
2/13/2015	3,517.00	3.60	194.80	3,511.14	135.83	-134.08	-56.15	0.78	MWD	EXTREME
2/13/2015	3,610.00	2.81	192.37	3,604.00	140.92	-139.13	-57.38	0.86	MWD	EXTREME
2/13/2015	3,707.00	2.81	183.19	3,700.89	145.51	-143.73	-57.20	1.46	MWD	EXTREME
2/15/2015	3,800.00	4.00	145.48	3,793.72	150.28	-148.58	-54.70	1.69	MWD	EXTREME
2/15/2015	3,895.00	3.21	142.50	3,888.53	155.01	-153.42	-51.21	0.85	MWD	EXTREME
2/13/2015	3,989.00	4.31	143.07	3,982.33	159.79	-156.34	-47.48	1.17	MWD	EXTREME
2/13/2015	4,005.00	4.22	145.18	3,998.29	160.73	-159.30	-46.79	1.13	MWD	EXTREME
2/13/2015	4,082.00	5.41	149.48	4,075.01	166.07	-164.75	-43.32	1.61	MWD	EXTREME
2/15/2015	4,180.00	4.92	153.26	4,172.62	173.66	-172.49	-39.09	0.61	MWD	EXTREME
2/15/2015	4,273.00	3.78	158.27	4,265.35	179.97	-178.90	-36.16	1.29	MWD	EXTREME
2/18/2015	4,414.00	2.99	154.80	4,406.10	187.51	-186.54	-32.87	0.58	MWD	EXTREME
2/18/2015	4,414.00	2.99	154.80	4,406.10	187.51	-186.54	-32.87	0.58	MWD	EXTREME
2/18/2015	4,509.00	2.68	153.88	4,500.98	191.68	-190.78	-30.84	0.33	MWD	EXTREME
2/18/2015	4,603.00	2.42	151.90	4,594.89	195.34	-194.50	-28.94	0.29	MWD	EXTREME
2/18/2015	4,793.00	1.71	158.99	4,784.77	201.44	-200.70	-26.08	0.40	MWD	EXTREME
2/18/2015	4,887.00	1.58	154.18	4,878.73	203.89	-203.19	-25.03	0.22	MWD	EXTREME
2/18/2015	4,985.00	1.41	157.17	4,976.69	206.18	-205.51	-23.98	0.19	MWD	EXTREME
2/18/2015	5,079.00	1.10	154.89	5,070.87	208.04	-207.40	-23.15	0.33	MWD	EXTREME
2/18/2015	5,170.00	1.01	147.90	5,161.66	209.48	-208.87	-22.35	0.17	MWD	EXTREME
2/18/2015	5,265.00	1.10	156.78	5,256.64	211.00	-210.41	-21.54	0.20	MWD	EXTREME
2/18/2015	5,360.00	1.10	163.37	5,351.62	212.69	-212.13	-20.92	0.13	MWD	EXTREME
2/18/2015	5,455.00	0.88	173.56	5,446.81	214.28	-213.73	-20.58	0.30	MWD	EXTREME
2/18/2015	5,542.00	1.01	169.70	5,533.60	215.89	-215.14	-20.37	0.17	MWD	EXTREME
2/18/2015	5,645.00	0.88	171.28	5,636.58	217.36	-216.82	-20.09	0.13	MWD	EXTREME
2/18/2015	5,740.00	0.88	169.57	5,731.57	218.79	-218.26	-19.84	0.03	MWD	EXTREME
2/18/2015	5,830.00	0.70	183.67	5,821.58	220.01	-219.49	-19.75	0.29	MWD	EXTREME
2/18/2015	5,927.00	0.48	185.08	5,918.56	221.01	-220.48	-19.83	0.23	MWD	EXTREME
2/18/2015	6,022.00	0.79	150.76	6,013.55	221.97	-221.45	-19.54	0.50	MWD	EXTREME
2/18/2015	6,119.00	0.79	150.19	6,110.54	223.11	-222.61	-18.88	0.01	MWD	EXTREME
2/18/2015	6,208.00	1.10	148.16	6,199.53	224.34	-223.87	-18.13	0.35	MWD	EXTREME

Provide signature page for survey



Directional Survey

DELAWARE BASIN WEST UNRESTRICTED

Well Name: COTTON DRAW UNIT 212H

Sub-Division	Region	Field Name	County	State/Province						
DELAWARE BASIN WEST	BASIN WEST	PADUCA	EDDY	NM						
Surface (Log) Location	APD(U)	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)						
SEC 35 24S R31E	3001542892	32° 10' 50.529" N	103° 45' 15.905" W	3,531.30						
Survey Data				Ground Elev MSL (ft)						
				KB - GL (ft)						
				25.00						
Date	MD (RKB)	Incl(°)	Asm (°)	TVD (RKB)	VS (ft)	NS (ft)	EW (ft)	DBS (ft/m)	Survey Tool	Survey Company
2/18/2015	6,304.00	1.18	138.87	6,295.51	225.81	-225.38	-18.96	0.25	MWD	EXTREME
2/18/2015	6,396.00	1.32	143.20	6,387.48	227.32	-226.93	-15.87	0.21	MWD	EXTREME
2/18/2015	6,492.00	1.18	131.99	6,483.47	228.82	-228.48	-14.27	0.29	MWD	EXTREME
2/18/2015	6,592.00	1.01	147.20	6,583.45	230.22	-229.91	-13.02	0.34	MWD	EXTREME
2/18/2015	6,687.00	1.32	140.17	6,678.43	231.72	-231.48	-11.87	0.36	MWD	EXTREME
2/18/2015	6,779.00	1.19	145.88	6,770.41	233.29	-233.06	-10.65	0.20	MWD	EXTREME
2/18/2015	6,877.00	1.19	159.90	6,868.38	235.05	-234.86	-9.73	0.30	MWD	EXTREME
2/18/2015	7,072.00	1.19	156.47	7,063.34	238.76	-238.62	-8.23	0.04	MWD	EXTREME
2/18/2015	7,159.00	1.01	139.59	7,150.33	240.14	-240.03	-7.37	0.42	MWD	EXTREME
2/18/2015	7,251.00	0.79	146.38	7,242.32	241.26	-241.18	-6.49	0.27	MWD	EXTREME
2/18/2015	7,346.00	1.10	133.66	7,337.30	242.40	-242.35	-5.47	0.39	MWD	EXTREME
2/18/2015	7,441.00	1.19	124.30	7,432.28	243.54	-243.54	-3.99	0.22	MWD	EXTREME
2/18/2015	7,536.00	1.10	134.10	7,527.26	244.68	-244.73	-2.52	0.23	MWD	EXTREME
2/18/2015	7,629.00	1.10	132.17	7,620.25	245.86	-245.95	-1.22	0.04	MWD	EXTREME
2/18/2015	7,724.00	1.19	148.30	7,715.23	247.27	-247.40	-0.03	0.35	MWD	EXTREME
2/18/2015	7,819.00	1.10	140.39	7,810.21	248.78	-248.94	1.07	0.19	MWD	EXTREME
2/18/2015	8,011.00	1.32	195.58	8,002.17	252.31	-252.49	1.65	0.59	MWD	EXTREME
2/18/2015	8,104.00	2.99	202.00	8,095.10	255.62	-255.77	0.46	1.81	MWD	EXTREME
2/18/2015	8,200.00	2.81	198.70	8,190.98	260.23	-260.32	-1.24	0.26	MWD	EXTREME
2/18/2015	8,294.00	2.59	201.87	8,284.88	264.43	-264.48	-2.77	0.28	MWD	EXTREME
2/18/2015	8,387.00	2.42	206.00	8,377.79	268.19	-268.19	-4.41	0.27	MWD	EXTREME
2/18/2015	8,482.00	1.80	210.08	8,472.72	271.34	-271.29	-6.04	0.67	MWD	EXTREME
2/18/2015	8,577.00	2.11	219.80	8,567.67	274.03	-273.92	-7.90	0.48	MWD	EXTREME
2/18/2015	8,671.00	3.30	226.39	8,661.56	277.33	-277.12	-10.97	1.31	MWD	EXTREME
2/18/2015	8,766.00	3.12	229.29	8,756.41	281.02	-280.69	-14.91	0.26	MWD	EXTREME
2/18/2015	8,860.00	2.81	238.78	8,850.29	284.01	-283.55	-18.82	0.62	MWD	EXTREME
2/18/2015	8,955.00	2.68	253.28	8,945.18	285.99	-285.40	-22.94	0.74	MWD	EXTREME
2/18/2015	9,048.00	2.02	245.59	9,038.10	287.41	-286.70	-26.51	0.78	MWD	EXTREME
2/18/2015	9,210.00	1.20	256.40	9,200.04	289.13	-288.28	-30.76	0.54	MWD	EXTREME
2/18/2015	9,305.00	0.80	228.30	9,295.02	289.85	-288.95	-32.22	0.65	MWD	EXTREME
2/18/2015	9,400.00	1.10	246.10	9,390.01	290.70	-289.76	-33.55	0.44	MWD	EXTREME
2/18/2015	9,494.00	1.10	248.20	9,483.99	291.46	-290.46	-35.21	0.04	MWD	EXTREME
2/18/2015	9,549.00	1.10	248.20	9,538.98	291.88	-290.86	-36.20	0.00	MWD	EXTREME
2/18/2015	9,683.00	2.50	264.40	9,672.91	292.77	-291.62	-40.30	1.10	MWD	EXTREME
2/18/2015	9,746.00	4.10	225.30	9,735.81	294.59	-293.34	-43.27	4.24	MWD	EXTREME
2/18/2015	9,778.00	6.00	213.20	9,767.69	296.85	-295.54	-45.00	6.78	MWD	EXTREME
2/18/2015	9,809.00	8.40	204.90	9,798.44	300.32	-298.95	-46.84	8.42	MWD	EXTREME
2/18/2015	9,841.00	10.50	198.30	9,830.01	305.28	-303.84	-48.74	7.37	MWD	EXTREME
2/18/2015	9,872.00	12.90	191.80	9,860.36	311.38	-309.91	-50.33	8.82	MWD	EXTREME
2/18/2015	9,904.00	14.90	186.70	9,891.43	319.00	-317.50	-51.54	7.32	MWD	EXTREME
2/18/2015	9,936.00	17.10	183.30	9,922.18	327.81	-326.28	-52.29	7.47	MWD	EXTREME
2/18/2015	9,967.00	18.80	183.10	9,951.67	337.36	-335.82	-52.83	5.49	MWD	EXTREME
2/18/2015	9,999.00	20.30	184.90	9,981.83	348.06	-346.50	-53.58	5.05	MWD	EXTREME
2/18/2015	10,030.00	21.70	185.40	10,010.77	359.15	-357.56	-54.58	4.55	MWD	EXTREME
2/18/2015	10,061.00	23.00	185.30	10,039.44	370.91	-369.30	-55.68	4.20	MWD	EXTREME
2/18/2015	10,093.00	25.00	184.90	10,068.67	383.91	-382.26	-56.83	6.27	MWD	EXTREME
2/18/2015	10,124.00	28.60	184.90	10,096.34	397.86	-396.19	-58.03	11.61	MWD	EXTREME
2/18/2015	10,156.00	32.60	183.90	10,123.88	414.13	-412.42	-59.27	12.60	MWD	EXTREME
2/18/2015	10,187.00	36.40	180.50	10,149.42	431.68	-429.96	-59.91	13.74	MWD	EXTREME
2/18/2015	10,219.00	39.80	177.20	10,174.60	451.39	-449.69	-59.50	12.38	MWD	EXTREME
2/18/2015	10,250.00	42.70	177.50	10,197.91	471.76	-470.11	-58.55	9.38	MWD	EXTREME
2/18/2015	10,282.00	44.80	180.00	10,221.02	493.85	-492.23	-58.08	8.50	MWD	EXTREME
2/18/2015	10,313.00	47.00	181.90	10,242.60	516.11	-514.48	-58.48	8.35	MWD	EXTREME
2/18/2015	10,345.00	50.80	182.80	10,263.63	540.22	-538.57	-59.45	12.06	MWD	EXTREME
2/18/2015	10,376.00	55.00	182.80	10,282.32	564.93	-563.26	-60.66	13.55	MWD	EXTREME
2/18/2015	10,408.00	59.20	182.30	10,299.70	591.79	-590.10	-61.85	13.19	MWD	EXTREME
2/18/2015	10,439.00	62.50	181.90	10,314.80	618.86	-617.15	-62.84	10.70	MWD	EXTREME
2/18/2015	10,471.00	65.30	181.70	10,328.88	647.60	-645.87	-63.74	8.77	MWD	EXTREME
2/18/2015	10,502.00	67.90	181.90	10,341.19	676.05	-674.30	-64.64	8.41	MWD	EXTREME
2/18/2015	10,534.00	70.80	181.70	10,352.47	705.99	-704.23	-65.58	9.08	MWD	EXTREME
2/18/2015	10,565.00	73.90	181.20	10,361.87	735.52	-733.76	-66.32	10.12	MWD	EXTREME
2/18/2015	10,597.00	76.30	180.50	10,370.10	766.44	-764.67	-66.78	7.79	MWD	EXTREME
2/18/2015	10,628.00	78.70	179.80	10,376.81	796.69	-794.94	-66.86	8.05	MWD	EXTREME
2/18/2015	10,660.00	81.80	180.00	10,382.22	828.20	-826.47	-66.80	9.71	MWD	EXTREME
2/18/2015	10,692.00	84.90	182.30	10,385.93	859.98	-858.24	-67.44	12.03	MWD	LEAM DRILLING SYSTEMS
2/18/2015	10,723.00	86.40	181.90	10,388.28	890.89	-889.13	-68.58	5.01	MWD	LEAM DRILLING SYSTEMS
2/18/2015	10,818.00	87.10	182.50	10,393.67	985.73	-983.91	-72.22	0.97	MWD	LEAM DRILLING SYSTEMS
2/18/2015	10,912.00	86.80	181.40	10,398.67	1,079.60	-1,077.72	-75.41	1.21	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,007.00	88.00	181.20	10,402.98	1,174.50	-1,172.60	-77.58	1.28	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,102.00	90.60	180.70	10,404.14	1,269.47	-1,267.57	-79.14	2.79	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,197.00	91.40	181.10	10,402.48	1,364.44	-1,362.54	-80.63	0.94	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,292.00	92.30	181.20	10,399.41	1,459.38	-1,457.47	-82.54	0.95	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,386.00	92.90	181.20	10,395.15	1,553.28	-1,551.35	-84.50	0.84	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,481.00	92.70	181.10	10,390.51	1,648.16	-1,646.22	-86.41	0.24	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,575.00	92.90	181.10	10,385.92	1,742.04	-1,740.09	-88.21	0.21	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,670.00	92.20	181.20	10,381.69	1,836.93	-1,834.98	-90.12	0.74	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,764.00	92.00	182.30	10,378.25	1,930.87	-1,928.87	-92.98	1.19	MWD	LEAM DRILLING SYSTEMS



Well Name: COTTON DRAW UNIT 212H

Sub Division	Region	Field Name	County	State/Province
DELAWARE BASIN WEST	BASIN WEST	PADUCA	EDDY	NM
Surface Legal Location	APN/UW	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)
SEC 35 24S R31E	3001542892	32° 10' 50.529" N	103° 45' 15.905" W	3,531.30
				Ground Elev MSL (ft)
				3,506.30
				KB - Gt (ft)
				25.00

Survey Data

Date	MD (ft)	Incl (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
2/18/2015	11,859.00	90.20	182.80	10,376.42	2,025.84	-2,023.75	-97.21	1.97	MWD	LEAM DRILLING SYSTEMS
2/18/2015	11,953.00	90.50	183.70	10,375.85	2,119.81	-2,117.60	-102.54	1.01	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,047.00	88.50	182.30	10,376.67	2,213.78	-2,211.46	-107.46	2.60	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,142.00	87.90	181.60	10,379.65	2,308.73	-2,306.36	-110.69	0.97	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,236.00	88.40	182.30	10,382.69	2,402.68	-2,400.25	-113.89	0.91	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,330.00	90.10	181.80	10,383.92	2,496.67	-2,494.18	-117.25	1.89	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,425.00	90.20	180.90	10,383.67	2,591.67	-2,589.15	-119.49	0.95	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,519.00	91.60	181.40	10,382.19	2,685.64	-2,683.12	-121.37	1.58	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,613.00	91.30	182.10	10,379.61	2,779.61	-2,777.04	-124.24	0.81	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,708.00	91.60	182.10	10,377.41	2,874.58	-2,871.95	-127.72	0.32	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,897.00	90.30	182.30	10,374.28	3,063.55	-3,060.78	-134.98	0.70	MWD	LEAM DRILLING SYSTEMS
2/18/2015	12,991.00	89.30	182.60	10,374.60	3,157.54	-3,154.69	-138.99	1.11	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,085.00	87.90	183.40	10,376.90	3,251.49	-3,248.53	-143.91	1.72	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,180.00	87.30	182.80	10,380.88	3,346.39	-3,343.31	-149.05	0.89	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,274.00	86.60	183.00	10,385.72	3,440.25	-3,437.06	-153.79	0.57	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,369.00	87.70	183.50	10,390.27	3,535.11	-3,531.80	-159.17	1.08	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,463.00	89.70	184.10	10,392.41	3,629.02	-3,625.57	-165.40	2.22	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,558.00	89.60	183.40	10,392.99	3,723.97	-3,720.36	-171.62	0.74	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,652.00	90.30	182.50	10,393.07	3,817.95	-3,814.23	-176.45	1.21	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,747.00	88.80	181.40	10,393.82	3,912.94	-3,909.17	-179.69	1.96	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,841.00	90.00	180.50	10,394.80	4,006.92	-4,003.15	-181.24	1.60	MWD	LEAM DRILLING SYSTEMS
2/18/2015	13,936.00	89.40	179.30	10,395.30	4,101.87	-4,098.15	-181.08	1.41	MWD	LEAM DRILLING SYSTEMS
2/18/2015	14,030.00	89.40	177.70	10,396.28	4,195.70	-4,192.11	-178.62	1.70	MWD	LEAM DRILLING SYSTEMS
2/18/2015	14,125.00	90.40	178.60	10,396.45	4,290.49	-4,287.05	-175.55	1.42	MWD	LEAM DRILLING SYSTEMS
2/18/2015	14,219.00	89.60	178.60	10,396.45	4,384.34	-4,381.03	-173.25	0.85	MWD	LEAM DRILLING SYSTEMS
2/18/2015	14,314.00	90.80	178.60	10,396.12	4,479.18	-4,476.00	-170.93	1.26	MWD	LEAM DRILLING SYSTEMS
2/18/2015	14,408.00	90.00	176.80	10,395.46	4,572.93	-4,569.91	-167.16	2.10	MWD	LEAM DRILLING SYSTEMS
2/18/2015	14,503.00	93.40	175.60	10,392.64	4,667.41	-4,664.65	-160.87	3.80	MWD	LEAM DRILLING SYSTEMS
2/18/2015	14,589.00	93.40	175.60	10,387.54	4,752.75	-4,750.24	-154.28	0.00	BIT	LEAM DRILLING SYSTEMS