

Well Name: RAGIN CAJUN 12 FED 3H

Sub-Division		Region	Field Name		Elevation					
DELAWARE BASIN		DELAWARE BASIN EAST	RATTLESNAKE (NM)							
Surface Legal Location		Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)				
SEC 12 26S 34E		32° 3' 1.983" N	103° 25' 41.534" W	3,301.50	3,277.90	23.60				
Wellbores		Parent Wellbore	SAP Well ID	Vertical Section Direction (°)						
OH		OH	38333	355.90						
Kick Offs & Key Depths										
Date			Type	Top Depth (ftKB)						
4/30/2015			Kick Off	8,642.0						
Actual Deviation Survey			Definitive?	Proposed?	Proposed Deviation Survey					
FLO DRIFT , Proposed? No			Yes	No						
Deviation Survey										
Date		Description								
4/30/2015		FLO DRIFT								
MD Tie in (ftKB)	TVD Tie in (ftKB)	Inclination Tie in (°)	Azimuth Tie in (°)	NS Tie in (ft)	EW Tie in (ft)					
0.00	0.00	0.00	0.00	0.00	0.00					
Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
4/30/2015	198.00	0.65	247.02	198.00	-0.36	-0.44	-1.03	0.33	INC	FLODRIFT
4/30/2015	321.00	0.82	246.29	320.99	-0.86	-1.06	-2.48	0.14	INC	FLODRIFT
4/30/2015	416.00	0.78	244.48	415.98	-1.36	-1.62	-3.69	0.05	INC	FLODRIFT
4/30/2015	510.00	0.73	244.91	509.97	-1.80	-2.15	-4.81	0.05	INC	FLODRIFT
4/30/2015	602.00	0.54	239.48	601.96	-2.20	-2.61	-5.71	0.22	INC	FLODRIFT
4/30/2015	699.00	0.54	249.36	698.96	-2.53	-3.01	-6.53	0.10	INC	FLODRIFT
4/30/2015	818.00	0.56	246.38	817.95	-2.89	-3.44	-7.59	0.03	INC	FLODRIFT
4/30/2015	910.00	0.52	252.22	909.95	-3.14	-3.75	-8.40	0.07	INC	FLODRIFT
4/30/2015	1,014.00	0.42	278.59	1,013.95	-3.16	-3.83	-9.23	0.23	INC	FLODRIFT
4/30/2015	1,160.00	0.40	278.70	1,159.94	-2.93	-3.68	-10.26	0.01	MWD	LEAM DRILLING SYSTEMS
4/30/2015	1,253.00	0.30	267.80	1,252.94	-2.85	-3.64	-10.82	0.13	MWD	LEAM DRILLING SYSTEMS
4/30/2015	1,345.00	0.40	239.50	1,344.94	-2.99	-3.81	-11.34	0.21	MWD	LEAM DRILLING SYSTEMS
4/30/2015	1,437.00	0.20	186.50	1,436.94	-3.29	-4.13	-11.64	0.35	MWD	LEAM DRILLING SYSTEMS
4/30/2015	1,530.00	0.40	256.90	1,529.94	-3.50	-4.37	-11.97	0.41	MWD	LEAM DRILLING SYSTEMS
4/30/2015	1,625.00	0.40	251.20	1,624.93	-3.64	-4.55	-12.61	0.04	MWD	LEAM DRILLING SYSTEMS
4/30/2015	1,721.00	0.40	228.00	1,720.93	-3.93	-4.88	-13.17	0.17	MWD	LEAM DRILLING SYSTEMS
4/30/2015	1,816.00	0.50	192.50	1,815.93	-4.53	-5.51	-13.51	0.31	MWD	LEAM DRILLING SYSTEMS
4/30/2015	1,912.00	0.50	197.80	1,911.92	-5.32	-6.32	-13.73	0.05	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,007.00	0.40	123.80	2,006.92	-5.91	-6.89	-13.58	0.58	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,103.00	0.30	151.40	2,102.92	-6.34	-7.30	-13.18	0.20	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,199.00	0.40	143.50	2,198.92	-6.85	-7.79	-12.86	0.12	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,294.00	0.50	96.40	2,293.92	-7.21	-8.10	-12.25	0.39	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,390.00	0.30	340.90	2,389.92	-7.04	-7.91	-11.92	0.71	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,485.00	0.60	336.10	2,484.91	-6.33	-7.22	-12.20	0.32	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,581.00	0.60	334.60	2,580.91	-5.39	-6.31	-12.62	0.02	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,676.00	0.70	12.00	2,675.90	-4.37	-5.29	-12.71	0.45	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,772.00	0.60	330.20	2,771.90	-3.35	-4.28	-12.84	0.49	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,867.00	0.90	319.80	2,866.89	-2.30	-3.28	-13.57	0.35	MWD	LEAM DRILLING SYSTEMS
4/30/2015	2,963.00	0.60	328.60	2,962.88	-1.25	-2.28	-14.32	0.33	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,058.00	0.50	321.00	3,057.87	-0.47	-1.63	-14.84	0.13	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,154.00	0.70	358.10	3,153.87	0.46	-0.62	-15.12	0.44	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,249.00	0.90	3.20	3,248.86	1.78	0.71	-15.10	0.22	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,345.00	1.00	30.60	3,344.85	3.22	2.18	-14.63	0.48	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,440.00	1.00	7.00	3,439.83	4.72	3.72	-14.11	0.43	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,536.00	1.30	291.80	3,535.82	6.01	4.95	-15.02	1.48	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,631.00	1.60	287.80	3,630.79	6.98	5.76	-17.28	0.33	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,727.00	1.10	299.70	3,726.76	7.99	6.62	-19.36	0.59	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,822.00	1.00	291.70	3,821.75	8.86	7.38	-20.92	0.19	MWD	LEAM DRILLING SYSTEMS
4/30/2015	3,918.00	0.90	275.00	3,917.73	9.34	7.76	-22.45	0.31	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,013.00	0.60	257.40	4,012.72	9.39	7.71	-23.68	0.39	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,109.00	0.30	288.10	4,108.72	9.41	7.68	-24.41	0.39	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,204.00	0.30	109.90	4,203.72	9.40	7.68	-24.41	0.63	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,300.00	0.40	63.80	4,299.72	9.43	7.74	-23.87	0.30	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,396.00	0.70	103.40	4,395.72	9.37	7.75	-23.00	0.49	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,491.00	1.10	114.30	4,490.70	8.77	7.24	-21.61	0.46	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,587.00	1.40	141.20	4,586.68	7.36	5.95	-20.03	0.88	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,682.00	1.80	173.40	4,681.65	4.92	3.56	-19.13	1.02	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,778.00	1.90	178.60	4,777.60	1.82	0.47	-18.92	0.20	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,873.00	0.80	129.20	4,872.57	-0.20	-1.52	-18.37	1.89	MWD	LEAM DRILLING SYSTEMS
4/30/2015	4,969.00	1.20	94.10	4,968.56	-0.81	-2.02	-16.85	0.74	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,065.00	2.00	101.80	5,064.52	-1.41	-2.43	-14.20	0.86	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,160.00	1.00	141.70	5,159.49	-2.55	-3.42	-12.07	1.46	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,188.00	0.90	166.00	5,187.48	-2.97	-3.83	-11.86	1.47	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,282.00	1.10	159.60	5,281.47	-4.56	-5.39	-11.37	0.24	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,346.00	0.70	260.20	5,345.46	-5.19	-6.03	-11.54	2.20	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,441.00	1.50	271.30	5,440.45	-5.13	-6.10	-13.35	0.87	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,537.00	2.10	302.90	5,536.40	-3.95	-5.12	-16.09	1.18	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,632.00	2.60	306.30	5,631.32	-1.51	-2.90	-19.29	0.55	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,727.00	2.60	306.10	5,726.22	1.28	-0.35	-22.76	0.01	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,823.00	4.00	307.80	5,822.06	4.92	2.98	-27.17	1.46	MWD	LEAM DRILLING SYSTEMS
4/30/2015	5,918.00	6.50	304.50	5,918.65	10.49	8.06	-34.22	2.85	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,014.00	7.00	291.10	6,012.00	16.37	13.25	-44.16	1.72	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,109.00	6.70	280.80	6,106.32	20.26	16.87	-55.00	1.33	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,205.00	6.90	276.90	6,201.65	22.80	18.11	-66.23	0.52	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,300.00	5.20	276.00	6,296.11	24.64	19.25	-76.17	1.79	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,396.00	4.70	272.50	6,391.75	25.86	19.87	-84.43	0.61	MWD	LEAM DRILLING SYSTEMS

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Sub-Division		Region	Field Name		NNW					
DELAWARE BASIN		DELAWARE BASIN EAST	RATTLESNAKE (NM)							
Surface Legal Location		Latitude (°)	Longitude (°)		Orig KB Elevation (ft)	Ground Elev MSL (ft)				
SEC 12 26S 34E		32° 3' 1.983" N	103° 25' 41.534" W		3,301.50	3,277.90				
Survey Data		KB - GL (ft)		23.60						
Date	MD (ft/KB)	Incl (°)	Azm (°)	TVD (ft/KB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
4/30/2015	6,536.00	6.40	273.00	6,531.09	27.48	20.63	-97.95	1.21	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,587.00	7.00	273.70	6,581.75	28.26	20.88	-103.89	1.19	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,682.00	7.40	275.00	6,676.00	30.01	21.79	-115.76	0.45	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,778.00	5.90	278.80	6,771.35	32.09	23.08	-126.80	1.63	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,873.00	6.10	278.70	6,866.83	34.30	24.59	-136.61	0.21	MWD	LEAM DRILLING SYSTEMS
4/30/2015	6,969.00	6.40	280.10	6,961.26	36.74	26.30	-148.92	0.35	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,064.00	6.90	280.40	7,056.62	39.47	28.26	-157.75	0.53	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,160.00	6.70	263.50	7,150.95	40.68	28.67	-168.99	2.09	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,255.00	6.90	261.80	7,245.28	40.04	27.23	-180.14	0.30	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,351.00	5.60	266.20	7,340.71	39.65	26.09	-190.52	1.44	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,446.00	5.70	266.20	7,435.25	39.70	25.47	-199.85	0.11	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,542.00	6.00	265.80	7,530.75	39.71	24.79	-209.62	0.32	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,637.00	5.90	265.30	7,625.24	39.65	24.03	-219.43	0.12	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,733.00	5.80	264.10	7,720.74	39.45	23.12	-229.18	0.16	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,828.00	5.40	278.50	7,815.29	40.27	23.29	-238.37	1.53	MWD	LEAM DRILLING SYSTEMS
4/30/2015	7,924.00	5.30	278.50	7,910.87	42.23	24.61	-247.22	0.10	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,019.00	4.00	280.90	8,005.56	44.04	25.69	-254.82	1.38	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,115.00	2.00	271.40	8,101.42	45.07	26.56	-259.78	2.14	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,211.00	1.50	257.40	8,197.38	45.04	26.33	-262.68	0.68	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,306.00	1.40	247.50	8,292.35	44.49	25.61	-264.97	0.28	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,402.00	0.10	258.40	8,388.33	44.11	25.15	-266.13	1.36	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,497.00	0.30	107.10	8,483.33	44.01	25.06	-265.98	0.41	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,592.00	0.40	128.50	8,578.33	43.70	24.78	-265.48	0.17	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,688.00	3.80	12.90	8,674.26	46.51	27.67	-264.51	4.16	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,720.00	5.80	12.50	8,706.15	49.08	30.28	-263.92	6.25	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,751.00	8.40	7.10	8,736.91	52.80	34.06	-263.30	8.65	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,783.00	10.80	5.50	8,768.46	58.05	39.37	-262.72	7.55	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,815.00	14.10	5.30	8,799.70	64.85	46.23	-262.08	10.31	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,847.00	17.00	3.70	8,830.53	73.33	54.78	-261.42	9.16	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,878.00	20.10	2.70	8,859.92	83.12	64.63	-260.87	10.05	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,911.00	23.80	3.00	8,890.52	95.36	76.95	-260.26	11.22	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,943.00	26.60	2.10	8,919.47	108.89	90.56	-259.66	8.83	MWD	LEAM DRILLING SYSTEMS
4/30/2015	8,975.00	28.60	0.20	8,947.83	123.65	105.38	-259.37	6.83	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,007.00	31.20	0.00	8,975.57	139.56	121.33	-259.34	8.13	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,039.00	33.80	0.00	9,002.55	156.71	138.52	-259.34	8.12	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,071.00	37.70	359.90	9,028.52	175.35	157.21	-259.36	12.19	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,103.00	42.20	359.50	9,053.04	195.85	177.75	-259.47	14.09	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,135.00	46.40	357.90	9,075.94	218.17	200.09	-259.99	13.58	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,166.00	50.00	355.80	9,098.60	241.27	223.16	-261.27	12.66	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,198.00	53.90	354.40	9,116.32	266.48	248.26	-263.43	12.66	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,230.00	57.30	354.40	9,134.40	292.85	274.53	-266.00	10.62	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,262.00	60.40	354.60	9,150.95	320.22	301.79	-268.63	9.70	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,294.00	62.70	354.20	9,166.19	348.35	329.79	-271.37	7.27	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,326.00	64.20	354.10	9,180.49	376.96	358.27	-274.29	4.70	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,358.00	66.40	354.10	9,193.86	406.02	387.18	-277.28	6.68	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,389.00	70.00	353.90	9,205.38	434.78	415.80	-280.29	11.63	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,421.00	74.00	354.20	9,215.26	465.19	446.07	-283.44	12.53	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,453.00	76.40	355.10	9,223.44	496.12	476.87	-286.32	7.98	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,485.00	78.90	356.00	9,230.28	527.37	508.03	-288.75	8.28	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,517.00	81.60	357.10	9,235.70	558.91	539.51	-290.65	9.09	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,549.00	83.20	357.40	9,239.93	590.62	571.19	-292.17	5.09	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,581.00	84.00	357.60	9,243.50	622.40	602.96	-293.55	2.58	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,612.00	86.90	357.90	9,245.96	653.29	633.83	-294.77	9.40	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,644.00	89.00	358.50	9,247.10	685.24	665.80	-295.77	6.82	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,740.00	89.60	357.90	9,248.27	781.15	781.74	-298.79	0.88	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,835.00	90.90	357.90	9,247.86	876.09	856.67	-302.27	1.37	MWD	LEAM DRILLING SYSTEMS
4/30/2015	9,916.00	90.50	358.30	9,246.87	957.03	937.62	-304.95	0.70	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,012.00	90.10	358.30	9,246.37	1,052.94	1,033.58	-307.80	0.42	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,107.00	91.40	358.50	9,245.12	1,147.84	1,128.53	-310.45	1.38	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,203.00	89.00	357.90	9,244.79	1,243.75	1,224.48	-313.47	2.58	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,298.00	87.90	356.90	9,247.36	1,338.68	1,319.34	-317.78	1.56	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,394.00	89.40	357.60	9,249.62	1,434.63	1,415.20	-322.38	1.72	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,489.00	89.80	358.10	9,250.28	1,529.57	1,510.13	-325.94	0.67	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,585.00	88.40	357.60	9,251.79	1,625.50	1,606.05	-329.54	1.55	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,680.00	89.30	358.50	9,253.70	1,720.41	1,700.97	-332.78	1.34	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,776.00	89.30	359.00	9,254.87	1,816.29	1,796.94	-334.87	0.52	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,871.00	88.80	359.00	9,256.45	1,911.13	1,891.81	-336.53	0.53	MWD	LEAM DRILLING SYSTEMS
4/30/2015	10,967.00	89.00	359.30	9,258.29	2,006.96	1,987.89	-337.95	0.38	MWD	LEAM DRILLING SYSTEMS
4/30/2015	11,062.00	90.30	358.80	9,258.87	2,101.81	2,082.87	-339.53	1.47	MWD	LEAM DRILLING SYSTEMS
4/30/2015	11,157.00	89.50	357.90	9,259.03	2,196.72	2,177.83	-342.25	1.27	MWD	LEAM DRILLING SYSTEMS
4/30/2015	11,253.00	89.70	357.20	9,259.71	2,292.68	2,273.74	-346.37	0.76	MWD	LEAM DRILLING SYSTEMS
4/30/2015	11,348.00	90.80	357.80	9,259.29	2,387.64	2,368.64	-350.51	1.32	MWD	LEAM DRILLING SYSTEMS
4/30/2015	11,444.00	90.50	357.90	9,258.20	2,483.58	2,464.57	-354.11	0.33	MWD	LEAM DRILLING SYSTEMS
4/30/2015	11,540.00	90.60	357.80	9,257.28	2,579.52	2,560.50	-357.71	0.15	MWD	LEAM DRILLING SYSTEMS
4/30/2015	11,635.00	90.10	357.90	9,256.70	2,674.48	2,655.43	-361.28	0.54	MWD	LEAM DRILLING SYSTEMS
4/30/2015	11,731.00	91.30	356.90	9,255.53	2,770.42	2,751.32	-365.63	1.63	MWD	LEAM DRILLING SYSTEMS
4/30/2015	11,826.00	90.70	356.90	9,253.87	2,865.39	2,846.17	-370.77	0.63	MWD	LEAM DRILLING SYSTEMS

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Well Name: RAGIN CAJUN 12 FED 3H

Sub-Division		Region	Field Name							
DELAWARE BASIN		DELAWARE BASIN EAST	RATTLESNAKE (NM)							
Surface Legal Location		Latitude (°)		Longitude (°)		Orig KB Elevation (ft)		Ground Elev MSL (ft)		KB - GL (ft)
SEC 12 26S 34E		32° 3' 1.983" N		103° 25' 41.534" W		3,301.50		3,277.90		23.60
Survey Data										
Date	MD (ft)	Incl (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	DLS (ft/100ft)	Survey Tool	Survey Company
4/30/2015	11,921.00	91.90	356.70	9,251.71	2,980.35	2,940.99	-376.07	1.28	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,017.00	91.90	356.50	9,248.53	3,056.29	3,036.77	-381.76	0.21	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,113.00	91.60	356.30	9,245.60	3,152.24	3,132.54	-387.76	0.38	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,208.00	89.30	356.20	9,244.85	3,247.23	3,227.32	-394.00	2.42	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,303.00	89.10	356.00	9,246.18	3,342.22	3,322.09	-400.46	0.30	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,399.00	90.00	355.80	9,246.93	3,438.22	3,417.84	-407.32	0.96	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,495.00	90.70	356.50	9,248.35	3,534.21	3,513.62	-413.77	1.03	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,590.00	91.50	356.30	9,244.52	3,629.19	3,608.42	-419.73	0.87	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,686.00	92.20	356.20	9,241.42	3,725.14	3,704.16	-426.01	0.74	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,781.00	90.40	356.50	9,239.27	3,820.11	3,798.94	-432.05	1.92	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,877.00	90.30	356.50	9,238.68	3,916.10	3,894.76	-437.91	0.10	MWD	LEAM DRILLING SYSTEMS
4/30/2015	12,972.00	88.70	356.90	9,239.51	4,011.09	3,989.60	-443.38	1.74	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,068.00	88.50	357.20	9,241.86	4,107.04	4,085.44	-448.32	0.38	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,163.00	88.30	357.80	9,244.51	4,201.96	4,180.31	-452.46	0.67	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,259.00	89.30	358.10	9,246.52	4,297.88	4,276.23	-455.90	1.09	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,354.00	90.00	358.10	9,247.10	4,392.81	4,371.17	-459.05	0.74	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,450.00	91.50	358.30	9,245.84	4,488.72	4,467.11	-462.06	1.58	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,546.00	91.10	358.30	9,243.67	4,584.61	4,563.05	-464.91	0.42	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,641.00	91.50	357.90	9,241.51	4,679.51	4,657.97	-468.06	0.60	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,737.00	91.00	357.60	9,239.42	4,775.44	4,753.87	-471.82	0.81	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,833.00	91.00	357.60	9,237.74	4,871.38	4,849.77	-475.84	0.00	MWD	LEAM DRILLING SYSTEMS
4/30/2015	13,928.00	88.70	356.50	9,237.99	4,966.36	4,944.64	-480.73	2.68	MWD	LEAM DRILLING SYSTEMS
4/30/2015	14,000.00	88.70	356.50	9,239.62	5,038.33	5,016.49	-485.13	0.00	BIT	LEAM DRILLING SYSTEMS

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