



A GYRO TECHNOLOGIES INC. COMPANY

P.O. Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

January 21, 2014

Devon Energy Production Co., LP
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

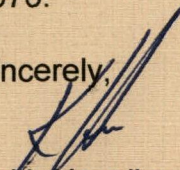
Attn: David Cook

Re: **Rajin Cajun 12 Federal No 001H**

Please find enclosed a copy of the survey from 0' to 1,038' ran on the above referenced well.

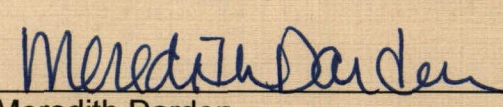
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

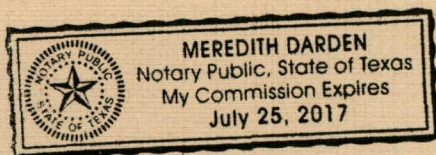
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 21st day of January, A.D., 2014, by Keith Havelka.


Meredith Darden
Notary Public, State of Texas





Company: DEVON ENERGY PRODUCTION CO. LP.
Lease/Well: RAJIN CAJUN 12 FEDERAL/NO 001H
Location: APPROX. 12 MILES SW FROM JAL, NM
Rig Name: H&P RIG #391
State/County: NEW MEXICO/LEA
Latitude: 32.05, Longitude: -103.42
GRID North is 0.48 Degrees East of True North
VS-Azi: 359.91 Degrees



Depth Reference : 25'

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro_run01-01.ut

Minimum Curvature Method

Report Date/Time: 1/21/2014 / 12:35

Vaughn Energy Services

800-606-4976

Corpus Christi, Texas

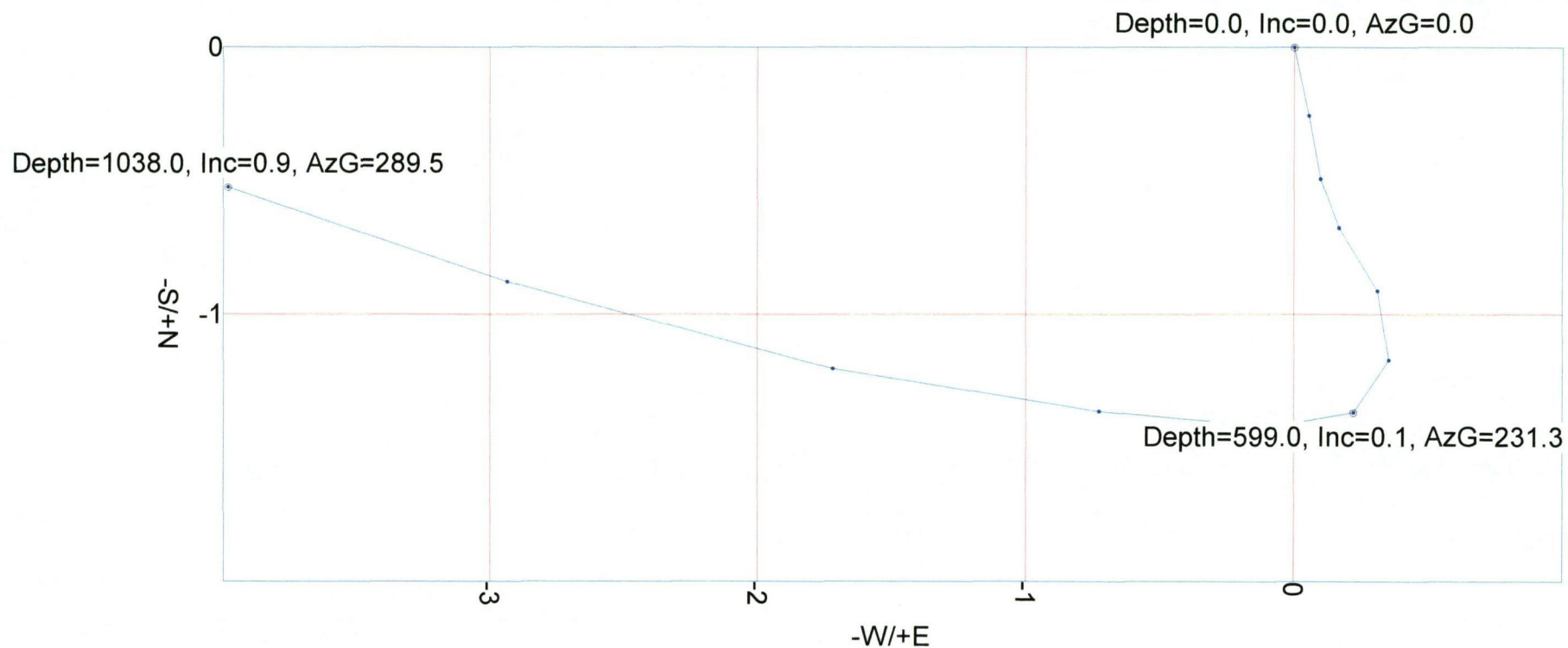
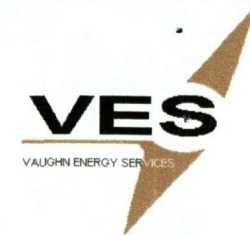
Survey Engineer: Ernest Garza

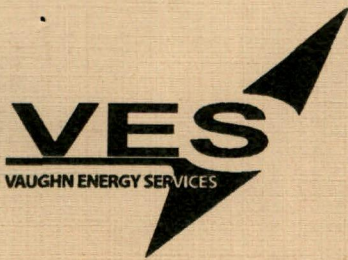
Rajin Cajun 12 Federal No 001H / API 30-025-41188

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
145.29	0.21	167.90	145.29	-0.26	0.05	-0.26	0.26	167.90	0.14
236.04	0.10	172.33	236.04	-0.49	0.10	-0.49	0.50	168.58	0.12
326.79	0.15	151.66	326.79	-0.68	0.17	-0.68	0.70	166.11	0.08
417.54	0.20	146.51	417.54	-0.91	0.31	-0.91	0.96	161.19	0.05
508.29	0.17	199.43	508.29	-1.17	0.35	-1.17	1.22	163.26	0.18
599.04	0.14	231.35	599.04	-1.37	0.22	-1.37	1.39	170.78	0.10
690.78	0.27	274.29	690.78	-1.42	-0.08	-1.42	1.42	183.14	0.21
782.52	0.55	275.42	782.52	-1.36	-0.73	-1.36	1.54	208.04	0.30
874.26	0.71	281.87	874.25	-1.20	-1.72	-1.20	2.10	234.99	0.20
966.00	0.86	287.71	965.98	-0.88	-2.93	-0.87	3.06	253.34	0.18
1038.00	0.90	289.51	1037.97	-0.53	-3.98	-0.52	4.02	262.48	0.07



Vaughn Energy Services
800-606-4976
Corpus Christi, Texas
Survey Engineer: Ernest Garza
Rajin Cajun 12 Federal No 001H / API 30-025-41188





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January 21, 2014

Devon Energy Production Co., LP
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

Attn: David Cook

Re: **Rajin Cajun 12 Federal No 001H**

Please find enclosed a copy of the survey from 0' to 8,418' ran on the above referenced well.

If I can be of any further service, please do not hesitate to call me at 800-606-4976.

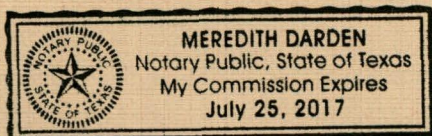
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
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This instrument was acknowledged before me on the 21st day of January A.D., 2014, by Keith Havelka.

Meredith Darden
Notary Public, State of Texas





Company: Devon
Lease/Well: Ragin Cajun 12 Federal/No 001H
Location: Sec 12 T26S R34E
Rig Name: H&P 391
State/County: New Mexico/Lea
Latitude: 32.05, Longitude: -103.42
GRID North is 0.48 Degrees East of True North
VS-Azi: 359.91 Degrees



Depth Reference : RKB = 25 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: ragin cajun 12 -de_01.ut

Minimum Curvature Method

Report Date/Time: 1/21/2014 / 12:42

Vaughn Energy Services

West Texas

432-563-5444

Surveyor: Chris Bankson

Ragin Cajun 12 Federal No 001H / API 30-025-41188

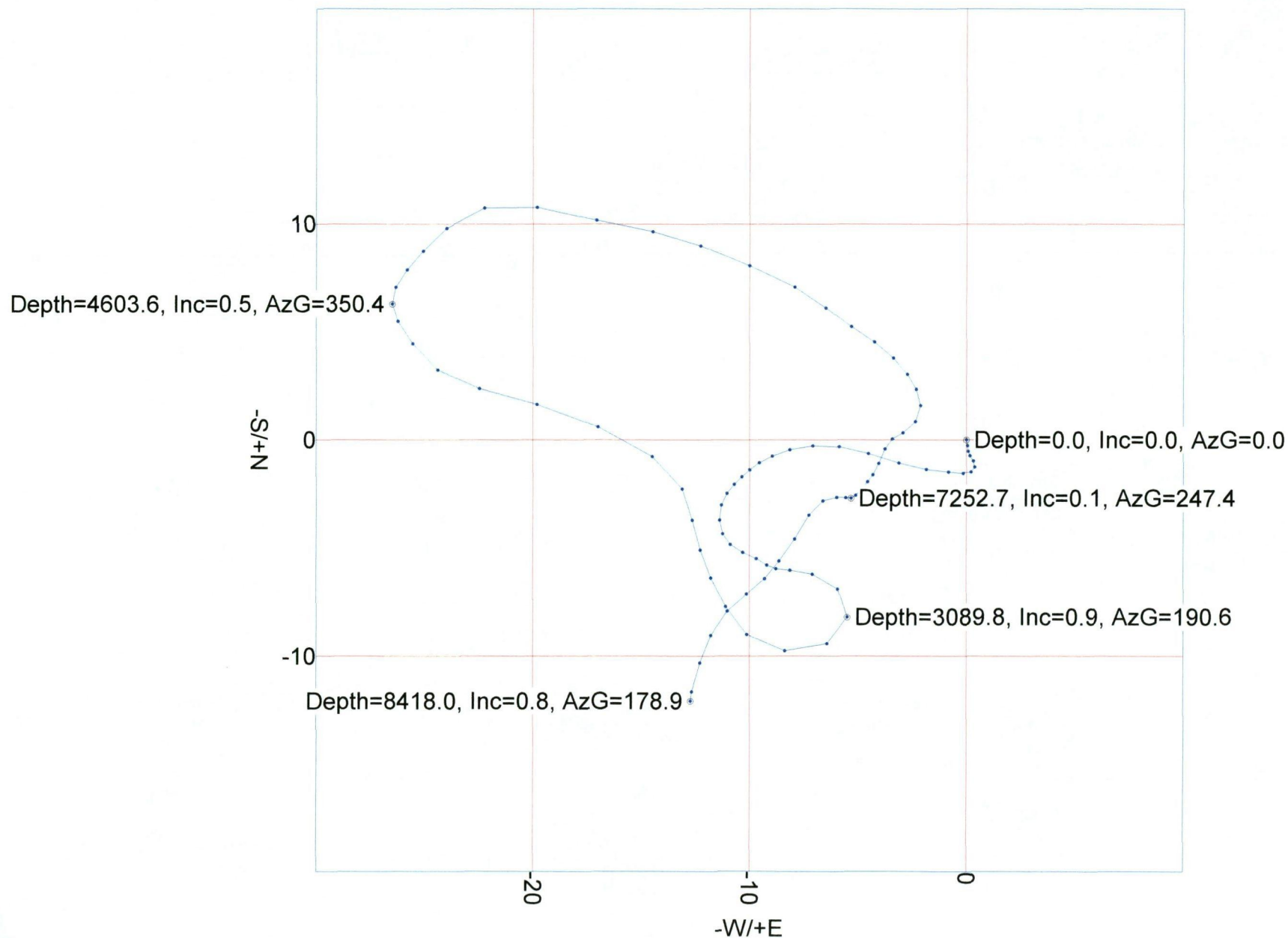
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
156.93	0.20	169.76	156.93	-0.27	0.05	-0.27	0.27	169.76	0.13
251.54	0.12	173.15	251.54	-0.53	0.09	-0.53	0.54	170.38	0.09
346.15	0.15	149.82	346.15	-0.73	0.16	-0.73	0.75	167.45	0.06
440.76	0.20	144.39	440.76	-0.97	0.32	-0.97	1.02	161.77	0.06
535.37	0.19	197.55	535.37	-1.25	0.37	-1.25	1.30	163.61	0.18
629.98	0.18	235.10	629.98	-1.48	0.20	-1.48	1.50	172.30	0.12
724.59	0.29	277.93	724.59	-1.53	-0.16	-1.53	1.54	185.79	0.21
819.20	0.55	272.89	819.19	-1.48	-0.84	-1.48	1.70	209.69	0.28
913.81	0.69	279.15	913.80	-1.37	-1.86	-1.36	2.30	233.65	0.16
1008.42	0.88	287.12	1008.40	-1.06	-3.11	-1.06	3.29	251.17	0.23
1103.03	0.90	287.32	1103.00	-0.63	-4.52	-0.62	4.56	262.10	0.02
1197.64	0.79	277.34	1197.60	-0.32	-5.87	-0.31	5.88	266.85	0.19
1292.25	0.69	267.42	1292.20	-0.27	-7.08	-0.25	7.09	267.86	0.17
1386.86	0.63	252.31	1386.80	-0.45	-8.14	-0.44	8.15	266.85	0.19
1481.47	0.42	246.12	1481.41	-0.75	-8.95	-0.73	8.99	265.23	0.23
1576.08	0.39	238.41	1576.02	-1.06	-9.55	-1.04	9.60	263.69	0.07
1670.69	0.30	229.21	1670.63	-1.38	-10.00	-1.37	10.10	262.13	0.11
1765.30	0.29	227.34	1765.24	-1.71	-10.37	-1.69	10.51	260.66	0.01

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1859.91	0.32	223.40	1859.84	-2.06	-10.72	-2.04	10.92	259.13	0.04
1954.52	0.32	213.31	1954.45	-2.47	-11.05	-2.45	11.32	257.39	0.06
2049.13	0.40	199.39	2049.06	-3.01	-11.30	-2.99	11.70	255.11	0.13
2143.74	0.47	175.29	2143.67	-3.71	-11.38	-3.69	11.97	251.97	0.20
2238.35	0.33	156.75	2238.28	-4.34	-11.24	-4.33	12.05	248.87	0.20
2332.96	0.41	133.95	2332.88	-4.83	-10.89	-4.81	11.92	246.09	0.17
2427.57	0.44	111.36	2427.49	-5.20	-10.31	-5.18	11.55	243.26	0.18
2522.18	0.40	118.94	2522.10	-5.49	-9.69	-5.47	11.13	240.48	0.07
2616.79	0.29	124.43	2616.71	-5.78	-9.20	-5.77	10.87	237.86	0.12
2711.40	0.27	97.94	2711.32	-5.95	-8.78	-5.93	10.61	235.88	0.14
2806.01	0.52	95.93	2805.92	-6.02	-8.13	-6.01	10.12	233.47	0.26
2900.62	0.75	102.93	2900.53	-6.21	-7.10	-6.20	9.43	228.85	0.26
2995.23	0.95	134.00	2995.13	-6.89	-5.93	-6.88	9.09	220.74	0.52
3089.84	0.93	190.61	3089.73	-8.18	-5.51	-8.17	9.87	213.97	0.94
3184.45	1.11	238.75	3184.32	-9.41	-6.43	-9.40	11.40	214.37	0.89
3279.06	1.42	276.85	3278.91	-9.74	-8.38	-9.73	12.85	220.71	0.93
3373.67	1.03	316.61	3373.50	-8.99	-10.13	-8.97	13.54	228.42	0.96
3468.28	0.94	329.15	3468.10	-7.70	-11.11	-7.69	13.52	235.27	0.24
3562.89	0.86	337.63	3562.70	-6.38	-11.78	-6.36	13.40	241.58	0.17
3657.50	0.81	341.31	3657.30	-5.08	-12.27	-5.06	13.28	247.50	0.08
3752.11	0.91	347.40	3751.90	-3.71	-12.65	-3.69	13.18	253.64	0.14
3846.72	0.94	336.80	3846.49	-2.27	-13.12	-2.25	13.31	260.19	0.18
3941.33	1.61	306.67	3941.08	-0.76	-14.49	-0.74	14.51	266.98	0.98
4035.94	1.88	291.75	4035.65	0.61	-16.99	0.63	17.01	272.04	0.56
4130.55	1.76	288.62	4130.21	1.65	-19.82	1.68	19.89	274.75	0.16
4225.16	1.58	281.78	4224.78	2.38	-22.47	2.41	22.60	276.04	0.29
4319.77	1.06	312.59	4319.36	3.24	-24.39	3.28	24.61	277.56	0.91
4414.38	0.96	321.42	4413.96	4.45	-25.53	4.49	25.92	279.89	0.20
4508.99	0.56	334.94	4508.56	5.49	-26.23	5.53	26.80	281.83	0.46
4603.60	0.46	350.42	4603.17	6.29	-26.49	6.33	27.22	283.36	0.18
4698.21	0.56	28.47	4697.77	7.07	-26.33	7.11	27.26	285.03	0.36
4792.82	0.61	36.50	4792.38	7.88	-25.81	7.92	26.99	286.98	0.10
4887.43	0.77	43.74	4886.98	8.74	-25.07	8.78	26.55	289.22	0.19
4982.04	1.06	47.26	4981.58	9.79	-24.00	9.83	25.92	292.20	0.31
5076.65	1.42	72.33	5076.17	10.74	-22.24	10.77	24.69	295.78	0.68
5171.26	1.64	103.80	5170.75	10.77	-19.81	10.80	22.55	298.54	0.90
5265.87	1.75	100.87	5265.32	10.18	-17.08	10.21	19.88	300.79	0.15
5360.48	1.46	102.36	5359.89	9.65	-14.48	9.67	17.40	303.67	0.30
5455.09	1.34	111.26	5454.47	8.99	-12.27	9.01	15.21	306.22	0.26

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5549.70	1.62	112.64	5549.05	8.07	-10.01	8.09	12.86	308.89	0.30
5644.31	1.17	119.71	5643.63	7.08	-7.93	7.09	10.63	311.75	0.51
5738.92	0.94	129.07	5738.22	6.11	-6.49	6.12	8.91	313.28	0.31
5833.53	0.83	122.83	5832.82	5.25	-5.31	5.26	7.47	314.67	0.15
5928.14	0.70	125.09	5927.42	4.54	-4.26	4.55	6.22	316.86	0.14
6022.75	0.70	135.74	6022.03	3.79	-3.38	3.80	5.08	318.33	0.14
6117.36	0.51	144.47	6116.63	3.04	-2.73	3.04	4.09	318.07	0.23
6211.97	0.48	154.36	6211.24	2.35	-2.32	2.35	3.30	315.34	0.09
6306.58	0.48	175.54	6305.84	1.59	-2.12	1.60	2.65	306.98	0.19
6401.19	0.53	217.26	6400.45	0.85	-2.35	0.85	2.50	289.84	0.38
6495.80	0.42	241.69	6495.06	0.34	-2.92	0.34	2.94	276.55	0.24
6590.41	0.27	236.14	6589.67	0.05	-3.41	0.05	3.41	270.79	0.16
6685.02	0.45	203.75	6684.27	-0.42	-3.75	-0.41	3.77	263.67	0.28
6779.63	0.43	203.72	6778.88	-1.08	-4.04	-1.08	4.18	254.99	0.02
6874.24	0.29	216.44	6873.49	-1.60	-4.33	-1.60	4.61	249.66	0.17
6968.85	0.21	217.67	6968.10	-1.93	-4.57	-1.93	4.97	247.09	0.09
7063.46	0.33	220.02	7062.71	-2.28	-4.86	-2.27	5.36	244.86	0.13
7158.07	0.15	230.42	7157.32	-2.57	-5.13	-2.56	5.73	243.40	0.20
7252.68	0.15	247.40	7251.93	-2.69	-5.33	-2.68	5.97	243.22	0.05
7347.29	0.17	293.93	7346.54	-2.68	-5.58	-2.67	6.19	244.33	0.14
7441.90	0.34	263.50	7441.15	-2.65	-5.99	-2.65	6.55	246.09	0.22
7536.51	0.47	250.16	7535.75	-2.82	-6.63	-2.81	7.20	246.98	0.17
7631.12	0.72	207.38	7630.36	-3.48	-7.27	-3.47	8.06	244.43	0.52
7725.73	0.84	213.97	7724.96	-4.58	-7.93	-4.57	9.16	239.99	0.16
7820.34	0.66	216.59	7819.56	-5.60	-8.64	-5.58	10.30	237.08	0.19
7914.95	0.62	221.17	7914.17	-6.42	-9.30	-6.40	11.30	235.40	0.07
8009.56	0.71	236.55	8008.77	-7.12	-10.13	-7.11	12.38	234.88	0.21
8104.17	0.77	222.80	8103.37	-7.91	-11.05	-7.89	13.59	234.39	0.20
8198.78	0.88	205.62	8197.97	-9.03	-11.79	-9.01	14.85	232.56	0.28
8293.39	0.79	196.49	8292.57	-10.30	-12.29	-10.28	16.03	230.02	0.17
8388.00	0.90	194.77	8387.17	-11.65	-12.66	-11.63	17.20	227.39	0.13
8418.00	0.76	178.91	8417.17	-12.07	-12.72	-12.05	17.54	226.49	0.90



Vaughn Energy Services
West Texas
432-563-5444
Surveyor: Chris Bankson
Rajin Cajun 12 Federal No 001H / API 30-025-41188



VES Survey Date: 01/06/2014