



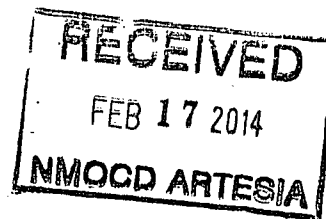
A GYRO TECHNOLOGIES INC. COMPANY

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

November 7, 2013

30-015-40584

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



Attn: Patti Riechers

Re: Jasper 32 State Com No. 007H

Please find enclosed a copy of the survey from 0.00' to 3200.00' 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,

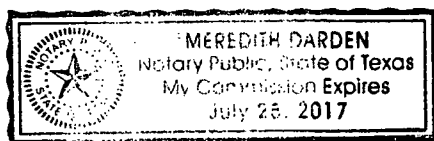

Keith Havelka
Operations

STATE OF TEXAS §

§

COUNTY OF NUECES §

This instrument was acknowledged before me on the 7 day of November A.D., 2013, by Keith Havelka.





Meredith Darden
Notary Public, State of Texas



Company: Devon Energy Production Co.
Lease/Well: Jasper 32 State Com /No. 007H

Rig Name: Scan Texas
State/County: New Mexico/Eddy
Latitude: 32.62, Longitude: -104.09
GRID North is 0.13 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 26 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: jasper 32 st com 7-h-de_01.ut

Minimum Curvature Method

Report Date/Time: 11/5/2013 / 13:09

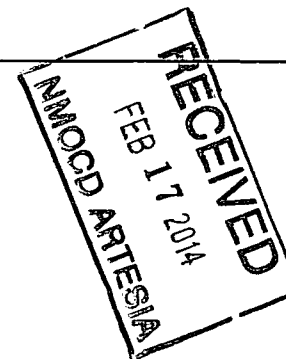
Vaughn Energy Services

Fort Worth, TX

817-741-3610

Surveyor: Casey Gerhards

Jasper 32 State Com 7H / API 30-015-40584

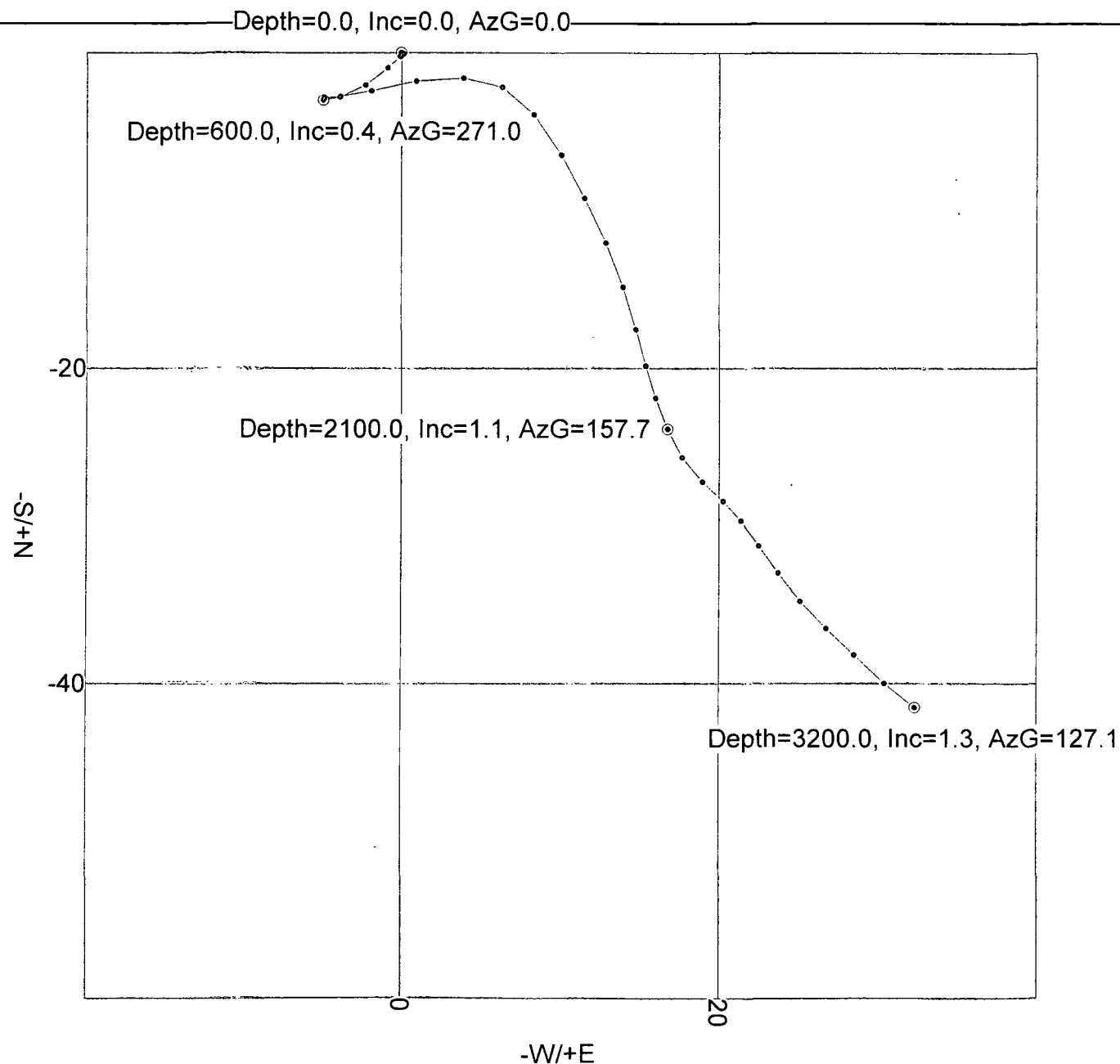


Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.14	115.49	100.00	-0.05	0.11	-0.05	0.12	115.49	0.14
200.00	0.37	243.66	200.00	-0.25	-0.07	-0.25	0.26	195.45	0.47
300.00	0.89	223.15	299.99	-0.96	-0.89	-0.96	1.31	222.86	0.56
400.00	1.19	238.08	399.98	-2.07	-2.30	-2.07	3.10	227.98	0.40
500.00	0.86	254.34	499.96	-2.83	-3.91	-2.83	4.82	234.13	0.43
600.00	0.35	271.03	599.95	-3.02	-4.94	-3.02	5.80	238.54	0.53
700.00	0.42	69.27	699.95	-2.89	-4.91	-2.89	5.70	239.53	0.76
800.00	0.80	92.17	799.95	-2.79	-3.88	-2.79	4.77	234.28	0.44
900.00	1.50	73.29	899.93	-2.44	-1.92	-2.44	3.10	218.29	0.79
1000.00	1.84	81.65	999.89	-1.83	0.92	-1.83	2.04	153.34	0.41
1100.00	1.60	91.18	1099.84	-1.62	3.90	-1.62	4.22	112.61	0.37
1200.00	1.37	117.35	1199.81	-2.20	6.35	-2.20	6.72	109.10	0.71
1300.00	1.74	141.58	1299.77	-3.94	8.36	-3.94	9.24	115.22	0.74
1400.00	1.81	149.99	1399.72	-6.49	10.09	-6.49	11.99	122.75	0.27
1500.00	1.78	153.65	1499.68	-9.25	11.57	-9.25	14.81	128.65	0.12
1600.00	1.78	155.97	1599.63	-12.06	12.89	-12.06	17.65	133.10	0.07
1700.00	1.67	162.09	1699.58	-14.87	13.97	-14.87	20.40	136.78	0.22
1800.00	1.53	164.50	1799.54	-17.53	14.77	-17.53	22.93	139.88	0.15

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
1900.00	1.20	165.90	1899.51	-19.84	15.39	-19.84	25.11	142.20	0.33
2000.00	1.27	160.33	1999.49	-21.90	16.01	-21.90	27.13	143.82	0.14
2100.00	1.14	157.65	2099.47	-23.86	16.76	-23.86	29.16	144.91	0.14
2200.00	1.18	148.20	2199.45	-25.65	17.68	-25.65	31.15	145.42	0.20
2300.00	1.14	132.52	2299.43	-27.20	18.96	-27.20	33.16	145.12	0.32
2400.00	0.89	134.07	2399.41	-28.42	20.26	-28.42	34.90	144.52	0.25
2500.00	1.05	141.60	2499.40	-29.68	21.39	-29.68	36.58	144.22	0.20
2600.00	1.19	146.91	2599.38	-31.26	22.52	-31.26	38.53	144.23	0.17
2700.00	1.22	141.71	2699.36	-32.97	23.75	-32.97	40.63	144.23	0.11
2800.00	1.39	142.57	2799.33	-34.77	25.15	-34.77	42.92	144.12	0.17
2900.00	1.33	130.46	2899.30	-36.49	26.77	-36.49	45.26	143.73	0.29
3000.00	1.45	136.42	2999.27	-38.16	28.53	-38.16	47.65	143.22	0.19
3100.00	1.55	130.94	3099.24	-39.96	30.42	-39.96	50.23	142.72	0.17
3200.00	1.27	127.11	3199.21	-41.52	32.32	-41.52	52.61	142.10	0.30



Vaughn Energy Services
Fort Worth, TX
817-741-3610
Surveyor: Casey Gerhards
Jasper 32 State Com 7H / API 30-015-40584



VES Survey Date: 10/24/2013



LEAM Drilling Systems, Inc. 2027A Airport Rd., Conroe, TX 77301

Survey Report

MINIMUM CURVATURE CALCULATION

Operator: Devon Energy
Well Name: Jasper 32 State Com #7H
Location: Eddy County, NM
Start Date: 10/28/2013
End Date: 11/4/2013
Direction: 179.95°

Survey Number	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
TIE IN	3200	1.27	127.11	3199.21	-41.52	32.34	41.55	0.30
1	3407	0.62	197.58	3406.19	-43.97	33.84	44.00	0.59
2	3501	3.43	272.64	3500.12	-44.32	30.87	44.35	3.54
3	3595	5.01	278.61	3593.87	-43.58	24.00	43.60	1.74
4	3690	6.77	284.42	3688.36	-41.56	14.48	41.58	1.95
5	3783	8.53	285.29	3780.53	-38.38	2.52	38.38	1.90
6	3878	9.67	275.45	3874.34	-35.76	-12.22	35.75	2.03
7	3972	8.97	277.38	3967.10	-34.07	-27.35	34.05	0.82
8	4066	9.58	275.63	4059.87	-32.36	-42.40	32.33	0.71
9	4160	8.97	278.97	4152.64	-30.45	-57.43	30.40	0.87
10	4254	7.83	280.55	4245.63	-28.14	-70.96	28.08	1.24
11	4348	8.62	277.56	4338.66	-26.04	-84.24	25.97	0.96
12	4443	10.02	279.32	4432.41	-23.76	-99.45	23.68	1.50
13	4537	10.20	274.40	4524.95	-21.80	-115.82	21.70	0.94
14	4631	9.85	270.00	4617.52	-21.16	-132.16	21.05	0.90
15	4726	9.41	267.36	4711.18	-21.52	-148.04	21.39	0.66
16	4820	8.88	273.17	4803.98	-21.47	-162.96	21.33	1.13
17	4913	9.41	273.69	4895.80	-20.59	-177.72	20.43	0.58
18	5007	10.55	278.44	4988.38	-18.83	-193.90	18.66	1.49
19	5102	10.29	277.74	5081.81	-16.41	-210.91	16.23	0.30
20	5196	8.97	278.09	5174.49	-14.25	-226.48	14.05	1.41
21	5290	8.71	272.99	5267.37	-12.84	-240.85	12.63	0.88
22	5384	8.27	272.64	5360.34	-12.16	-254.71	11.94	0.47
23	5478	9.41	278.26	5453.22	-10.75	-269.07	10.51	1.52
24	5572	8.88	279.85	5546.03	-8.40	-283.82	8.15	0.62
25	5666	8.62	277.74	5638.94	-6.21	-297.95	5.95	0.44
26	5760	8.18	278.09	5731.93	-4.32	-311.55	4.05	0.47
27	5854	7.47	274.40	5825.05	-2.91	-324.26	2.63	0.92
28	5948	5.63	267.54	5918.44	-2.64	-334.96	2.35	2.12
29	6042	4.40	261.74	6012.07	-3.36	-343.14	3.06	1.41
30	6136	2.81	249.08	6105.89	-4.70	-348.86	4.39	1.88
31	6231	1.67	222.01	6200.82	-6.56	-351.96	6.25	1.61

32	6323	1.23	210.06	6292.79	-8.41	-353.35	8.10	0.58
33	6362	0.88	197.93	6331.78	-9.06	-353.65	8.75	1.06
34	6425	2.99	215.16	6394.74	-10.86	-354.75	10.55	3.44
35	6456	6.95	201.45	6425.62	-13.27	-355.90	12.96	13.25
36	6488	11.17	195.82	6457.21	-18.05	-357.46	17.74	13.46
37	6519	13.37	191.95	6487.50	-24.45	-359.02	24.14	7.57
38	6551	15.83	187.38	6518.47	-32.40	-360.34	32.09	8.48
39	6582	18.38	183.34	6548.10	-41.47	-361.17	41.16	9.07
40	6613	20.84	181.06	6577.30	-51.87	-361.56	51.55	8.31
41	6645	23.57	180.53	6606.92	-63.96	-361.72	63.64	8.55
42	6676	26.12	180.53	6635.05	-76.98	-361.84	76.67	8.23
43	6708	28.67	182.11	6663.46	-91.70	-362.19	91.38	8.29
44	6739	32.27	181.93	6690.17	-107.41	-362.74	107.09	11.62
45	6770	35.79	180.53	6715.86	-124.75	-363.11	124.43	11.63
46	6801	39.39	179.47	6740.42	-143.65	-363.10	143.34	11.80
47	6833	43.09	178.60	6764.48	-164.74	-362.74	164.43	11.70
48	6864	45.81	178.77	6786.61	-186.44	-362.24	186.13	8.78
49	6895	47.92	178.60	6807.80	-209.06	-361.72	208.74	6.82
50	6927	50.39	178.95	6828.73	-233.26	-361.21	232.94	7.76
51	6958	53.38	179.83	6847.86	-257.64	-360.95	257.33	9.90
52	6989	56.54	179.12	6865.66	-283.02	-360.71	282.71	10.36
53	7021	58.83	179.65	6882.76	-310.06	-360.43	309.75	7.29
54	7052	61.91	179.83	6898.09	-337.00	-360.30	336.69	9.95
55	7084	66.04	180.70	6912.12	-365.75	-360.44	365.44	13.14
56	7115	71.49	180.88	6923.35	-394.63	-360.84	394.32	17.59
57	7146	76.20	181.06	6931.97	-424.40	-361.34	424.08	15.20
58	7190	78.44	181.41	6941.63	-467.31	-362.27	466.99	5.15
59	7222	81.87	180.70	6947.10	-498.83	-362.85	498.51	10.94
60	7253	86.79	180.88	6950.16	-529.67	-363.27	529.35	15.88
61	7285	89.34	181.58	6951.24	-561.64	-363.96	561.32	8.26
62	7379	88.90	182.46	6952.68	-655.57	-367.27	655.25	1.05
63	7474	88.37	182.46	6954.95	-750.45	-371.35	750.13	0.56
64	7568	88.99	181.23	6957.11	-844.38	-374.38	844.05	1.47
65	7662	91.10	179.47	6957.04	-938.36	-374.95	938.04	2.92
66	7757	91.28	180.00	6955.07	-1033.34	-374.51	1033.02	0.59
67	7851	88.55	179.47	6955.21	-1127.33	-374.08	1127.01	2.96
68	7946	87.58	179.65	6958.41	-1222.27	-373.35	1221.95	1.04
69	8041	86.70	179.65	6963.15	-1317.15	-372.77	1316.83	0.93
70	8135	88.11	180.53	6967.41	-1411.05	-372.92	1410.73	1.77
71	8229	92.68	180.35	6966.76	-1505.02	-373.64	1504.70	4.87
72	8324	93.30	180.88	6961.81	-1599.89	-374.65	1599.56	0.86
73	8418	92.42	178.42	6957.12	-1693.76	-374.08	1693.43	2.78
74	8512	92.24	178.42	6953.29	-1787.65	-371.49	1787.32	0.19
75	8607	89.34	178.24	6951.98	-1882.59	-368.72	1882.27	3.06
76	8701	89.16	178.07	6953.21	-1976.53	-365.70	1976.21	0.26
77	8796	89.25	178.24	6954.53	-2071.47	-362.64	2071.16	0.20
78	8890	89.52	179.30	6955.54	-2165.44	-360.62	2165.13	1.16
79	8985	89.34	179.65	6956.49	-2260.44	-359.75	2260.12	0.41
80	9079	93.12	179.65	6954.47	-2354.39	-359.18	2354.08	4.02

81	9174	93.47	179.83	6949.01	-2449.24	-358.75	2448.92	0.41
82	9268	91.63	179.83	6944.83	-2543.14	-358.47	2542.83	1.96
83	9363	91.63	180.00	6942.12	-2638.10	-358.33	2637.79	0.18
84	9457	89.96	180.18	6940.82	-2732.09	-358.47	2731.77	1.79
85	9551	89.78	179.83	6941.03	-2826.09	-358.48	2825.77	0.42
86	9646	90.13	180.88	6941.11	-2921.08	-359.07	2920.77	1.17
87	9740	90.13	181.23	6940.90	-3015.07	-360.80	3014.75	0.37
88	9835	89.87	181.06	6940.90	-3110.05	-362.70	3109.73	0.33
89	9929	90.84	181.58	6940.31	-3204.02	-364.87	3203.70	1.17
90	10024	90.66	181.76	6939.07	-3298.97	-367.63	3298.65	0.27
91	10118	90.92	181.76	6937.77	-3392.92	-370.52	3392.59	0.28
92	10212	90.40	181.06	6936.69	-3486.88	-372.83	3486.56	0.93
93	10307	89.60	181.41	6936.69	-3581.86	-374.88	3581.53	0.92
94	10401	88.37	180.53	6938.36	-3675.83	-376.47	3675.50	1.61
95	10495	89.52	180.88	6940.09	-3769.80	-377.63	3769.47	1.28
96	10590	91.19	179.65	6939.50	-3864.80	-378.07	3864.46	2.18
97	10684	92.15	180.88	6936.76	-3958.75	-378.50	3958.42	1.66
98	10778	89.52	180.53	6935.39	-4052.73	-379.66	4052.39	2.82
99	10873	89.16	181.06	6936.48	-4147.71	-380.98	4147.38	0.67
100	10967	88.81	180.88	6938.15	-4241.68	-382.57	4241.35	0.42
101	11062	88.81	181.23	6940.12	-4336.65	-384.32	4336.31	0.37
102	11156	88.64	181.23	6942.21	-4430.60	-386.33	4430.26	0.18
103	11250	88.55	181.58	6944.52	-4524.54	-388.64	4524.20	0.38
104	11281	88.64	181.76	6945.28	-4555.52	-389.54	4555.18	0.65
PTB	11334	88.64	181.76	6946.54	-4608.48	-391.17	4608.14	0.00