



Company: Devon Energy Production Co., LP
Lease/Well: Agasti 27 Federal / No. 001H

Rig Name: H P 300
State/County: New Mexico / Eddy
Latitude: 32.64, Longitude: -103.87
GRID North is 0.25 Degrees East of True North
VS-Azi: 0.00 Degrees



30-015-40999

Depth Reference : 26'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: survey.ut
Minimum Curvature Method
Report Date/Time: 2/27/2013 / 11:56

Vaughn Energy Services
Gardendale, Texas
432-563-5444

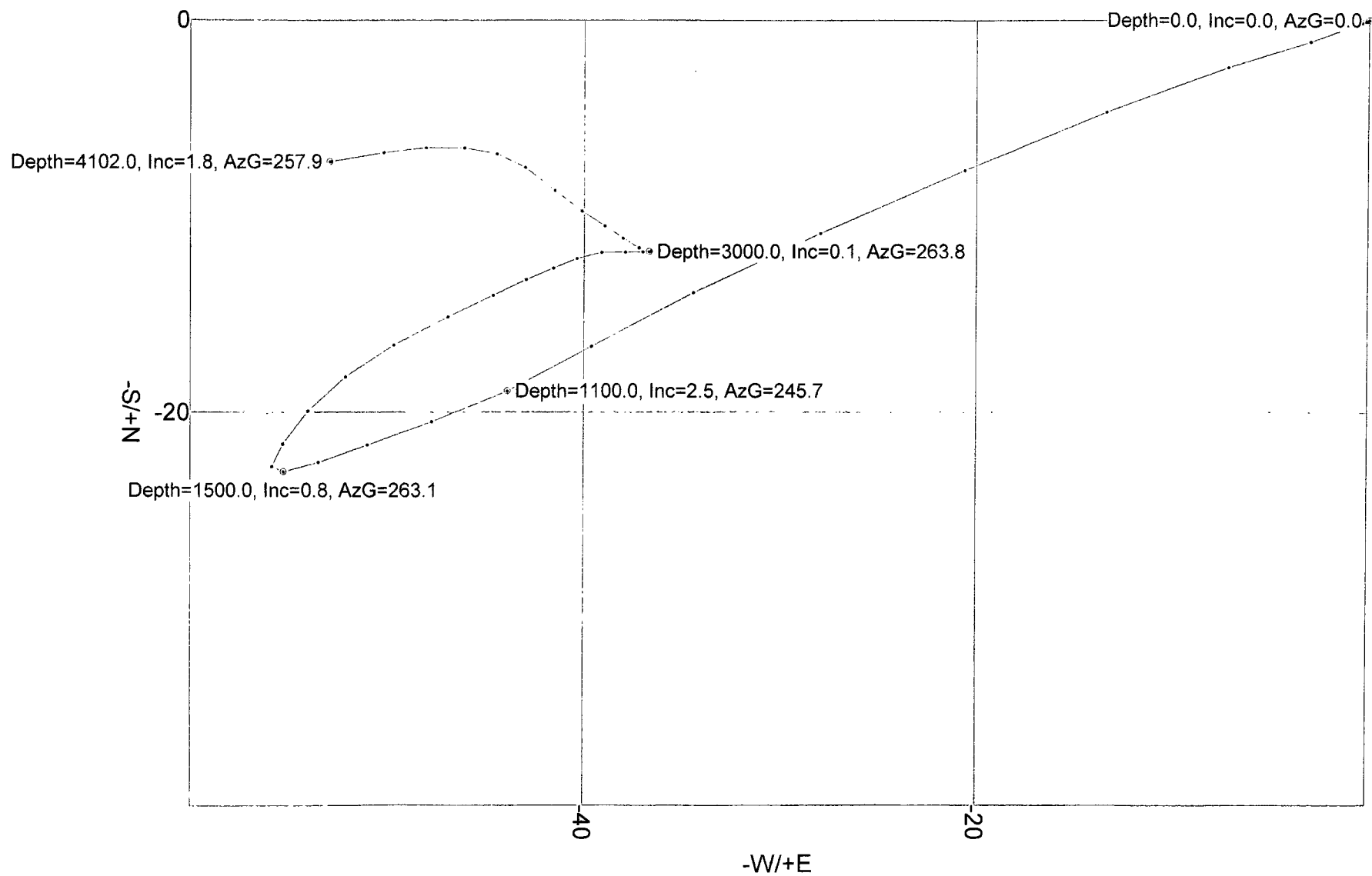
Survey Engineer: Kyle Willis
Agasti 27 Federal No. 001H / API 30-015-40999

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	0.17	243.64	100.00	-0.07	-0.13	-0.07	0.15	243.64	0.17
200.00	0.10	257.25	200.00	-0.15	-0.35	-0.15	0.38	246.73	0.08
300.00	0.67	248.86	300.00	-0.38	-0.98	-0.38	1.05	248.78	0.57
400.00	1.70	250.19	399.97	-1.09	-2.92	-1.09	3.12	249.47	1.04
500.00	3.29	253.73	499.88	-2.40	-7.08	-2.40	7.47	251.25	1.60
600.00	4.36	247.05	599.65	-4.69	-13.33	-4.69	14.13	250.62	1.15
700.00	4.64	248.14	699.34	-7.68	-20.59	-7.68	21.97	249.55	0.30
800.00	4.56	244.86	799.02	-10.88	-27.94	-10.88	29.99	248.74	0.27
900.00	3.62	244.86	898.77	-13.91	-34.41	-13.91	37.11	247.99	0.94
1000.00	3.12	239.35	998.59	-16.64	-39.61	-16.64	42.96	247.21	0.60
1100.00	2.46	245.70	1098.47	-18.91	-43.90	-18.91	47.80	246.70	0.73
1200.00	2.28	249.84	1198.39	-20.48	-47.73	-20.48	51.93	246.78	0.25
1300.00	1.69	250.30	1298.33	-21.66	-50.98	-21.66	55.39	246.98	0.59
1400.00	1.35	250.48	1398.29	-22.55	-53.47	-22.55	58.03	247.14	0.34
1500.00	0.77	263.11	1498.27	-23.02	-55.25	-23.02	59.85	247.38	0.61
1600.00	0.40	11.81	1598.27	-22.76	-55.85	-22.76	60.31	247.83	0.98
1700.00	1.08	31.04	1698.26	-21.61	-55.29	-21.61	59.36	248.65	0.72
1800.00	1.36	42.68	1798.24	-19.92	-54.00	-19.92	57.55	249.75	0.37

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	1.59	51.15	1898.21	-18.18	-52.11	-18.18	55.19	250.77	0.31
2000.00	1.81	61.81	1998.16	-16.57	-49.64	-16.57	52.34	251.54	0.38
2100.00	1.72	63.22	2098.12	-15.15	-46.92	-15.15	49.30	252.10	0.10
2200.00	1.19	65.39	2198.08	-14.04	-44.63	-14.04	46.79	252.54	0.53
2300.00	0.96	63.85	2298.07	-13.24	-42.94	-13.24	44.93	252.86	0.23
2400.00	0.77	70.07	2398.05	-12.64	-41.56	-12.64	43.44	253.08	0.21
2500.00	0.71	65.77	2498.05	-12.16	-40.36	-12.16	42.15	253.23	0.08
2600.00	0.80	84.74	2598.04	-11.84	-39.11	-11.84	40.86	253.15	0.26
2700.00	0.60	96.01	2698.03	-11.84	-37.89	-11.84	39.69	252.65	0.24
2800.00	0.43	79.98	2798.03	-11.83	-37.00	-11.83	38.84	252.27	0.23
2900.00	0.04	133.44	2898.03	-11.78	-36.60	-11.78	38.45	252.16	0.41
3000.00	0.10	263.81	2998.03	-11.82	-36.67	-11.82	38.53	252.14	0.13
3100.00	0.55	294.00	3098.02	-11.63	-37.20	-11.63	38.97	252.64	0.46
3200.00	0.55	309.67	3198.02	-11.13	-38.01	-11.13	39.60	253.68	0.15
3300.00	0.76	299.73	3298.01	-10.49	-38.95	-10.49	40.34	254.92	0.23
3400.00	0.84	305.45	3398.00	-9.74	-40.12	-9.74	41.29	256.35	0.12
3500.00	1.14	308.66	3497.99	-8.69	-41.50	-8.69	42.40	258.17	0.31
3600.00	1.05	306.46	3597.97	-7.53	-43.01	-7.53	43.66	260.08	0.10
3700.00	0.84	281.87	3697.96	-6.83	-44.46	-6.83	44.99	261.27	0.45
3800.00	1.07	278.27	3797.94	-6.54	-46.11	-6.54	46.57	261.92	0.24
3900.00	1.15	263.41	3897.92	-6.53	-48.03	-6.53	48.47	262.26	0.30
4000.00	1.32	263.38	3997.90	-6.77	-50.17	-6.77	50.62	262.31	0.17
4100.00	1.80	257.75	4097.86	-7.24	-52.85	-7.24	53.34	262.20	0.51
4102.00	1.81	257.87	4099.86	-7.25	-52.91	-7.25	53.40	262.19	0.23



Vaughn Energy Services
Gardendale, Texas
432-563-5444
Survey Engineer: Kyle Willis
Agasti 27 Federal No. 001H / API 30-015-40999



PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY PRODUCTION COMPANY

AGASTI 27 FED #1H / API #: 30-015-40999

EDDY COUNTY COUNTY, NEW MEXICO

Rig:H&P300

PathFinder Office Supervisor: MARCUS MITCHAM

PathFinder Field Engineers: MAGSUD ALIYEV

TODD DENNIS

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.38.23.6049 N LON:103.51.55.2494 W

GRID Reference:NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 685391.7900 Y: 596840.2800

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.29° EAST TO GRID

Vertical Section Plane: 105.93

Survey Vert. Reference: 26.00' Kelly Bushing To Ground

Altitude:3519.70' Ground To MSL

Survey Calculations by RX5 V6.04D using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular (ft)	Offsets (ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)	TEMP (F)
THE FOLLOWING ARE VAUGHN ENERGY SERVICES GYRO SURVEYS.											
100.00	0.17	243.64	100.00	0.00	-0.14	0.07 S	0.16 W	0.18@	246.88	0.00	0.00
200.00	0.10	257.25	200.00	100.00	-0.33	0.16 S	0.38 W	0.41@	247.90	0.08	0.00
300.00	0.67	248.86	299.99	100.00	-0.87	0.39 S	1.01 W	1.08@	249.16	0.57	0.00
400.00	1.70	250.19	399.97	100.00	-2.54	1.10 S	2.95 W	3.15@	249.59	1.03	0.00
500.00	3.29	253.73	499.87	100.00	-6.17	2.41 S	7.10 W	7.50@	251.29	1.60	0.00
600.00	4.36	247.05	599.65	100.00	-11.56	4.69 S	13.36 W	14.16@	250.65	1.16	0.00
700.00	4.64	248.14	699.34	100.00	-17.71	7.68 S	20.61 W	22.00@	249.57	0.29	0.00
800.00	4.56	244.86	799.02	100.00	-23.91	10.88 S	27.97 W	30.01@	248.75	0.27	0.00
900.00	3.62	244.86	898.76	100.00	-29.28	13.91 S	34.42 W	37.13@	248.00	0.94	0.00
1000.00	3.12	239.35	998.59	100.00	-33.54	16.63 S	39.62 W	42.97@	247.23	0.60	0.00
1100.00	2.46	245.70	1098.47	100.00	-37.04	18.90 S	43.92 W	47.82@	246.71	0.73	0.00
1200.00	2.28	249.84	1198.39	100.00	-40.29	20.47 S	47.74 W	51.95@	246.79	0.25	0.00
1300.00	1.69	250.30	1298.33	100.00	-43.10	21.66 S	51.00 W	55.41@	246.99	0.59	0.00
1400.00	1.35	250.48	1398.29	100.00	-45.25	22.55 S	53.50 W	58.05@	247.15	0.34	0.00
1500.00	0.77	263.11	1498.27	100.00	-46.83	23.02 S	55.27 W	59.88@	247.39	0.62	0.00
1600.00	0.40	11.81	1598.27	100.00	-47.48	22.76 S	55.87 W	60.33@	247.84	0.97	0.00
1700.00	1.08	31.04	1698.26	100.00	-47.26	21.61 S	55.31 W	59.38@	248.66	0.71	0.00
1800.00	1.36	42.68	1798.24	100.00	-46.48	19.93 S	54.02 W	57.58@	249.75	0.37	0.00
1900.00	1.59	51.15	1898.21	100.00	-45.14	18.19 S	52.14 W	55.22@	250.77	0.32	0.00
2000.00	1.81	61.81	1998.16	100.00	-43.21	16.57 S	49.66 W	52.36@	251.55	0.38	0.00
2100.00	1.72	63.22	2098.11	100.00	-40.97	15.15 S	46.93 W	49.32@	252.11	0.10	0.00
2200.00	1.19	65.39	2198.08	100.00	-39.08	14.04 S	44.65 W	46.80@	252.54	0.53	0.00
2300.00	0.96	63.85	2298.06	100.00	-37.67	13.24 S	42.95 W	44.95@	252.87	0.23	0.00
2400.00	0.77	70.07	2398.05	100.00	-36.50	12.64 S	41.57 W	43.45@	253.09	0.21	0.00
2500.00	0.71	65.77	2498.04	100.00	-35.49	12.16 S	40.37 W	42.16@	253.24	0.08	0.00

MD feet	INC deg	AZI deg	TVD feet	CL feet	SECT feet	RCN feet	RCE feet	CLDIST feet
100	0.17	243.64	100	0	-0.14	-0.07	-0.16	0.18
200	0.1	257.25	200	100	-0.33	-0.16	-0.38	0.41
300	0.67	248.86	299.99	100	-0.87	-0.39	-1.01	1.08
400	1.7	250.19	399.97	100	-2.54	-1.1	-2.95	3.15
500	3.29	253.73	499.87	100	-6.17	-2.41	-7.1	7.5
600	4.36	247.05	599.65	100	-11.56	-4.69	-13.36	14.16
700	4.64	248.14	699.34	100	-17.71	-7.68	-20.61	22
800	4.56	244.86	799.02	100	-23.91	-10.88	-27.97	30.01
900	3.62	244.86	898.76	100	-29.28	-13.91	-34.42	37.13
1000	3.12	239.35	998.59	100	-33.54	-16.63	-39.62	42.97
1100	2.46	245.7	1098.47	100	-37.04	-18.9	-43.92	47.82
1200	2.28	249.84	1198.39	100	-40.29	-20.47	-47.74	51.95
1300	1.69	250.3	1298.33	100	-43.1	-21.66	-51	55.41
1400	1.35	250.48	1398.29	100	-45.25	-22.55	-53.5	58.05
1500	0.77	263.11	1498.27	100	-46.83	-23.02	-55.27	59.88
1600	0.4	11.81	1598.27	100	-47.48	-22.76	-55.87	60.33
1700	1.08	31.04	1698.26	100	-47.26	-21.61	-55.31	59.38
1800	1.36	42.68	1798.24	100	-46.48	-19.93	-54.02	57.58
1900	1.59	51.15	1898.21	100	-45.14	-18.19	-52.14	55.22
2000	1.81	61.81	1998.16	100	-43.21	-16.57	-49.66	52.36
2100	1.72	63.22	2098.11	100	-40.97	-15.15	-46.93	49.32
2200	1.19	65.39	2198.08	100	-39.08	-14.04	-44.65	46.8
2300	0.96	63.85	2298.06	100	-37.67	-13.24	-42.95	44.95
2400	0.77	70.07	2398.05	100	-36.5	-12.64	-41.57	43.45
2500	0.71	65.77	2498.04	100	-35.49	-12.16	-40.37	42.16
2600	0.8	84.74	2598.04	100	-34.36	-11.84	-39.11	40.87
2700	0.6	96.01	2698.03	100	-33.19	-11.83	-37.9	39.7
2800	0.43	79.98	2798.02	100	-32.34	-11.82	-37.01	38.85
2900	0.04	133.44	2898.02	100	-31.97	-11.78	-36.61	38.46
3000	0.1	263.81	2998.02	100	-32.02	-11.81	-36.67	38.53
3100	0.55	294	3098.02	100	-32.58	-11.63	-37.2	38.97
3200	0.55	309.67	3198.02	100	-33.49	-11.12	-38.01	39.6
3300	0.76	299.73	3298.01	100	-34.58	-10.49	-38.95	40.34
3400	0.84	305.45	3398	100	-35.91	-9.73	-40.12	41.29
3500	1.14	308.66	3497.99	100	-37.52	-8.69	-41.5	42.4
3600	1.05	306.46	3597.97	100	-39.3	-7.52	-43.01	43.66
3700	0.84	281.87	3697.95	100	-40.89	-6.83	-44.47	44.99
3800	1.07	278.27	3797.94	100	-42.54	-6.54	-46.11	46.57
3900	1.15	263.41	3897.92	100	-44.39	-6.52	-48.03	48.47
4000	1.32	263.38	3997.9	100	-46.38	-6.77	-50.17	50.62
4100	1.8	257.75	4097.86	100	-48.83	-7.24	-52.85	53.34
4102	1.81	257.87	4099.86	2	-48.89	-7.25	-52.91	53.4

4248	1.67	266.39	4245.79	146	-52.93	-7.87	-57.29	57.83
4311	1.85	268.79	4308.76	63	-54.76	-7.95	-59.22	59.75
4406	1.32	223.23	4403.73	95	-56.73	-8.78	-61.5	62.13
4501	2.11	182.41	4498.69	95	-56.83	-11.32	-62.33	63.35
4596	2.37	166.24	4593.62	95	-55.44	-14.98	-61.93	63.72
4690	2.81	169.44	4687.52	94	-53.45	-19.13	-61.05	63.97
4785	3.69	166.38	4782.37	95	-50.91	-24.39	-59.9	64.68
4879	5.01	164.95	4876.1	94	-47.3	-31.29	-58.12	66.01
4974	6.24	165.59	4970.64	95	-42.56	-40.3	-55.76	68.8
5068	7.83	165.48	5063.93	94	-36.73	-51.45	-52.88	73.78
5163	9.23	169.37	5157.87	95	-30.05	-65.2	-49.86	82.08
5258	10.55	170.62	5251.46	95	-22.92	-81.27	-47.03	93.9
5353	11.78	168.65	5344.66	95	-14.76	-99.36	-43.71	108.55
5447	13.72	169.44	5436.34	94	-5.39	-119.73	-39.78	126.16
5542	14.95	171.42	5528.38	95	4.72	-142.92	-35.88	147.36
5636	15.04	172.96	5619.18	94	14.51	-167.01	-32.58	170.16
5730	15.56	174.73	5709.85	94	23.83	-191.67	-29.93	194
5825	16.18	175.81	5801.23	95	32.99	-217.56	-27.79	219.33
5920	15.12	175.71	5892.7	95	41.83	-243.12	-25.89	244.49
6015	16.27	176.29	5984.16	95	50.58	-268.76	-24.11	269.83
6109	17.24	176.35	6074.17	94	59.68	-295.8	-22.37	296.64
6204	17.85	176.87	6164.75	95	69.15	-324.39	-20.68	325.04
6298	17.76	177.32	6254.25	94	78.43	-353.09	-19.22	353.61
6393	17.06	176.75	6344.89	95	87.63	-381.48	-17.75	381.89
6488	16.09	177.02	6435.94	95	96.48	-408.54	-16.28	408.86
6582	15.74	175.81	6526.34	94	105.08	-434.26	-14.67	434.51
6677	17.67	172.14	6617.33	95	115.33	-461.4	-11.76	461.55
6771	16	171.87	6707.3	94	126.37	-488.36	-7.97	488.42
6866	16.44	171.99	6798.52	95	137.16	-514.63	-4.25	514.65
6961	16.62	171.45	6889.59	95	148.25	-541.38	-0.35	541.38
7055	17.32	175.25	6979.5	94	158.76	-568.62	2.8	568.62
7150	15.21	175.34	7070.69	95	168.14	-595.13	4.99	595.15
7244	14.42	174.35	7161.57	94	176.78	-619.07	7.14	619.11
7339	14.07	174.91	7253.65	95	185.27	-642.34	9.33	642.41
7433	15.92	177.36	7344.44	94	193.48	-666.61	10.94	666.7
7528	15.3	173.25	7435.94	95	202.46	-692.07	13.01	692.19
7622	15.39	172	7526.59	94	212.3	-716.74	16.21	716.92
7717	15.74	178.77	7618.11	95	221.22	-742.11	18.24	742.33
7812	15.92	173.93	7709.51	95	229.9	-767.94	19.89	768.2
7906	16.09	173.77	7799.87	94	239.64	-793.71	22.67	794.04
8001	17.5	175.6	7890.82	95	249.57	-821.04	25.19	821.43
8095	17.5	176.35	7980.47	94	259.22	-849.24	27.18	849.67
8190	17.41	177.71	8071.09	95	268.45	-877.69	28.65	878.16
8285	16.62	176.07	8161.93	95	277.51	-905.45	30.15	905.95

8380	16.97	175.63	8252.88	95	286.93	-932.83	32.14	933.38
8474	16.88	177.49	8342.81	94	296.01	-960.14	33.78	960.74
8569	16.18	170.59	8433.89	95	306.04	-986.98	36.55	987.66
8652	14.95	169.68	8513.85	83	315.72	-1008.92	40.36	1009.73
8687	14.95	168.81	8547.66	35	319.78	-1017.79	42.05	1018.66
8719	17.32	164.87	8578.4	32	324.12	-1026.44	44.09	1027.39
8750	20.58	160.02	8607.72	31	329.69	-1036.02	47.16	1037.09
8782	23.39	154.07	8637.39	32	337.23	-1047.02	51.86	1048.31
8813	25.94	148.91	8665.56	31	346.3	-1058.37	58.05	1059.96
8845	27.96	142.47	8694.09	32	357.45	-1070.31	66.24	1072.36
8876	30.16	135.36	8721.2	31	370.08	-1081.62	76.14	1084.3
8908	32.27	131.51	8748.57	32	384.79	-1093.01	88.19	1096.56
8939	34.21	127.25	8774.5	31	400.38	-1103.77	101.33	1108.41
8971	35	122.16	8800.84	32	417.57	-1114.1	116.26	1120.15
9002	36.4	115.72	8826.02	31	435.18	-1122.83	132.08	1130.57
9034	39.31	110.2	8851.3	32	454.65	-1130.45	150.15	1140.38
9065	42.74	106.46	8874.68	31	474.97	-1136.83	169.47	1149.39
9097	46.6	105.53	8897.44	32	497.47	-1143.02	191.09	1158.88
9128	49.42	103.86	8918.17	31	520.5	-1148.85	213.38	1168.5
9160	51.44	103.25	8938.56	32	545.14	-1154.63	237.35	1178.78
9191	53.82	102.49	8957.37	31	569.74	-1160.12	261.37	1189.2
9223	54.96	101.65	8976	32	595.7	-1165.56	286.81	1200.33
9255	57.6	100.06	8993.77	32	622.21	-1170.56	312.95	1211.67
9286	60.15	98.72	9009.79	31	648.57	-1174.89	339.13	1222.85
9318	64.19	98.36	9024.73	32	676.62	-1179.09	367.11	1234.92
9349	67.71	98.31	9037.36	31	704.68	-1183.19	395.11	1247.42
9381	70.35	97.24	9048.81	32	734.26	-1187.23	424.72	1260.91
9412	70.79	95.42	9059.12	31	763.08	-1190.45	453.77	1274
9444	73.86	93.28	9068.84	32	792.94	-1192.76	484.17	1287.28
9476	78.35	91.91	9076.52	32	823.16	-1194.16	515.19	1300.55
9549	87.32	91.25	9085.62	73	893.26	-1196.15	587.52	1332.65
9644	87.85	91.61	9089.62	95	985.15	-1198.52	682.4	1379.18
9738	89.16	91.66	9092.07	94	1076.2	-1201.2	776.33	1430.24
9833	88.46	91.73	9094.05	95	1168.27	-1204.01	871.27	1486.19
9928	88.2	91.84	9096.81	95	1260.35	-1206.97	966.18	1546.05
10022	87.58	91.65	9100.28	94	1351.42	-1209.83	1060.07	1608.55
10117	87.76	91.73	9104.14	95	1443.42	-1212.63	1154.95	1674.63
10212	88.11	92.08	9107.56	95	1535.53	-1215.79	1249.84	1743.63
10306	88.55	91.73	9110.3	94	1626.69	-1218.91	1343.75	1814.22
10401	89.87	91.69	9111.61	95	1718.77	-1221.74	1438.69	1887.46
10495	89.52	92.84	9112.11	94	1810.1	-1225.46	1532.62	1962.31
10590	88.02	93.64	9114.15	95	1902.76	-1230.83	1627.44	2040.46
10684	88.11	93.8	9117.32	94	1994.58	-1236.92	1721.19	2119.54
10779	88.72	94.22	9119.95	95	2087.5	-1243.56	1815.92	2200.91

10873	87.93	93.75	9122.7	94	2179.42	-1250.09	1909.65	2282.43
10968	88.11	92.76	9125.98	95	2272.05	-1255.48	2004.44	2365.17
11063	87.58	91.53	9129.55	95	2364.24	-1259.04	2099.3	2447.91
11157	86.53	91.66	9134.38	94	2455.2	-1261.65	2193.14	2530.14
11252	86.88	91.19	9139.84	95	2547.02	-1264.01	2287.96	2613.9
11346	88.37	91.22	9143.74	94	2637.85	-1265.98	2381.85	2697.39
11441	88.72	90.48	9146.15	95	2729.55	-1267.39	2476.81	2782.24
11536	88.55	91.39	9148.41	95	2821.28	-1268.94	2571.77	2867.79
11630	88.46	92.94	9150.87	94	2912.55	-1272.49	2665.67	2953.81
11725	90.22	93.02	9151.96	95	3005.12	-1277.43	2760.53	3041.77
11819	91.19	93.35	9150.8	94	3096.8	-1282.65	2854.37	3129.32
11914	89.96	92.4	9149.85	95	3189.34	-1287.42	2949.25	3218
12008	90.04	92.09	9149.85	94	3280.67	-1291.1	3043.18	3305.73
12103	89.96	91.82	9149.85	95	3372.86	-1294.34	3138.12	3394.57
12197	90.13	91.72	9149.78	94	3464	-1297.24	3232.07	3482.69
12292	90.22	91.41	9149.49	95	3556.03	-1299.84	3327.04	3571.94
12388	89.52	92.7	9149.7	96	3649.23	-1303.28	3422.97	3662.69
12481	88.46	93.68	9151.34	93	3739.92	-1308.45	3515.81	3751.4
12575	88.72	93.66	9153.66	94	3831.75	-1314.47	3609.59	3841.48
12669	89.08	94.12	9155.46	94	3923.66	-1320.84	3703.36	3931.86
12763	87.85	93.96	9157.98	94	4015.61	-1327.46	3797.09	4022.44
12858	87.76	93.51	9161.62	95	4108.4	-1333.65	3891.82	4113.98
12953	87.67	92.66	9165.41	95	4200.95	-1338.76	3986.6	4205.39
13047	88.11	92.89	9168.87	94	4292.42	-1343.3	4080.43	4295.86
13142	88.46	92.97	9171.71	95	4384.94	-1348.16	4175.26	4387.52
13237	88.9	93	9173.9	95	4477.5	-1353.1	4270.11	4479.36
13331	89.08	93.28	9175.56	94	4569.16	-1358.25	4363.95	4570.44
13425	89.34	93.13	9176.85	94	4660.84	-1363.51	4457.8	4661.66
13520	89.6	93.57	9177.73	95	4753.55	-1369.06	4552.63	4754.03
13614	90.13	93.36	9177.95	94	4845.34	-1374.74	4646.46	4845.56
13708	90.22	93.85	9177.66	94	4937.17	-1380.65	4740.27	4937.24
13734	90.31	93.88	9177.54	26	4962.6	-1382.4	4766.21	4962.64
13813	90.31	93.88	9177.12	79	5039.85	-1387.75	4845.03	5039.85

CLDIR	DLS
deg	deg/100ft
246.88	-999.25
247.9	0.08
249.16	0.57
249.59	1.03
251.29	1.6
250.65	1.16
249.57	0.29
248.75	0.27
248	0.94
247.23	0.6
246.71	0.73
246.79	0.25
246.99	0.59
247.15	0.34
247.39	0.62
247.84	0.97
248.66	0.71
249.75	0.37
250.77	0.32
251.55	0.38
252.11	0.1
252.54	0.53
252.87	0.23
253.09	0.21
253.24	0.08
253.16	0.26
252.66	0.24
252.29	0.22
252.17	0.41
252.15	0.13
252.64	0.47
253.69	0.15
254.93	0.24
256.36	0.11
258.18	0.31
260.08	0.1
261.27	0.45
261.92	0.24
262.27	0.3
262.31	0.17
262.2	0.5
262.2	0.53

262.18	0.2
262.36	0.31
261.88	1.39
259.7	1.48
256.4	0.72
252.6	0.49
247.84	0.94
241.7	1.41
234.14	1.3
225.79	1.69
217.4	1.59
210.06	1.41
203.74	1.36
198.38	2.07
194.09	1.39
191.04	0.43
188.87	0.74
187.28	0.72
186.08	1.12
185.13	1.22
184.32	1.03
183.65	0.66
183.12	0.17
182.66	0.76
182.28	1.03
181.93	0.51
181.46	2.31
180.94	1.78
180.47	0.46
180.04	0.25
179.72	1.4
179.52	2.22
179.34	0.88
179.17	0.4
179.06	2.08
178.92	1.33
178.7	0.36
178.59	1.95
178.52	1.4
178.36	0.19
178.24	1.59
178.17	0.24
178.13	0.44
178.09	0.97

178.03	0.39
177.98	0.58
177.88	2.19
177.71	1.51
177.63	0.64
177.54	8.15
177.39	11.67
177.16	11.2
176.86	10.76
176.46	11.08
175.97	13.2
175.39	9.07
174.75	9.79
174.04	9.36
173.29	12.93
172.43	13.95
171.52	13.6
170.51	12.23
169.48	9.94
168.38	6.48
167.3	7.92
166.18	4.15
165.03	9.23
163.9	9.02
162.71	12.66
161.53	11.36
160.32	8.82
159.13	5.72
157.91	11.52
156.66	14.63
153.84	12.32
150.34	0.67
147.13	1.4
144.11	0.74
141.32	0.3
138.77	0.69
136.4	0.21
134.21	0.52
132.21	0.6
130.34	1.39
128.65	1.28
127.1	1.79
125.7	0.2
124.4	0.78

123.21	0.98
122.06	1.06
120.95	1.41
119.91	1.12
118.92	0.62
117.99	1.59
117.1	0.86
116.26	0.97
115.52	1.65
114.83	1.85
114.2	1.09
113.58	1.64
112.99	0.34
112.41	0.3
111.87	0.21
111.34	0.34
110.84	1.53
110.41	1.55
110.01	0.28
109.63	0.62
109.27	1.32
108.92	0.48
108.56	0.9
108.22	0.53
107.89	0.38
107.58	0.46
107.29	0.35
107.01	0.32
106.74	0.54
106.48	0.61
106.24	0.53
106.17	0.36
105.98	-999.25



A GYRO TECHNOLOGIES INC. COMPANY

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

February 27, 2013

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

Attn: Patti Riechers

Re: **Agasti 27 Federal 1H**

Please find enclosed a copy of the survey from 0.00' to 4102.00' ran on the
above referenced well.

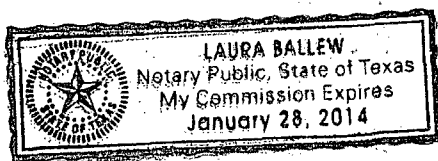
If I can be of any further service please do not hesitate to call me at 800-606-
4976.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 4th day of March,
A.D., 2013, by Keith Havelka.



Laura Balley
Notary Public, State of Texas

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40999	² Pool Code 96746	³ Pool Name Hackberry; Bone Spring East
⁴ Property Code 39649	⁵ Property Name AGASTI "27" FED	⁶ Well Number 1H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3485.6

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	19 S	31 E		1340	NORTH	305	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	19 S	31 E		340	NORTH	345	EAST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

W Q CORNER SEC. 27
LAT. = 32.6314261°N
LONG. = 103.8656464°W
NMSP EAST (FT)
N = 593760.53
E = 685313.21

SE CORNER SEC. 27
LAT. = 32.6241892°N
LONG. = 103.8484790°W
NMSP EAST (FT)
N = 591151.39
E = 690610.13

PP: 713 FNL & 330 FWL
Project Area:
Production Area:

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Judy A. Barnett* Date: *4/4/13*
Printed Name: Judy A. Barnett, Regulatory Specialist

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 23, 2013
Date of Survey

Signature and Seal of Professional Surveyor: *FILIPON P. JARAMILLO*
Certificate Number: *PLS 12797*
Survey No. 1049