



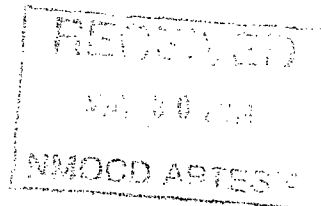
A GYRO TECHNOLOGIES INC. COMPANY

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

30-015-41548

March 6, 2014

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



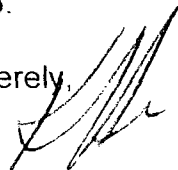
Attn: David Cook

Re: **Big Sinks Draw 25 Federal Com No 001H**

Please find enclosed a copy of the survey from 0' to 10,388' ran on the above referenced well.

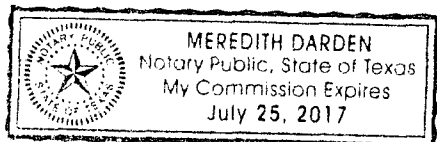
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

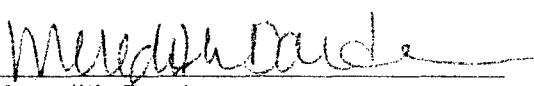
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
§
COUNTY OF NUECES §

This instrument was acknowledged before me on the 6th day of March, A.D., 2014, by Keith Havelka.




Meredith Darden
Notary Public, State of Texas

devon

Company: Devon Energy
Lease/Well: Big Sinks Draw 25 Federal Com/No 001H



Rig Name: Cactus 105
State/County: New Mexico/Eddy
Latitude: 32.10, Longitude: -103.74
GRID North is 0.32 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB= 28 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: ... 25 fed com 1h_gyro survey.ut
Minimum Curvature Method
Report Date/Time: 3/6/2014 / 14:03

Vaughn Energy Services
Midland, Texas
432-563-5444

Surveyor: Gene Heiss

Big Sinks Draw 25 Federal Com No 001H / API 30-015-41548

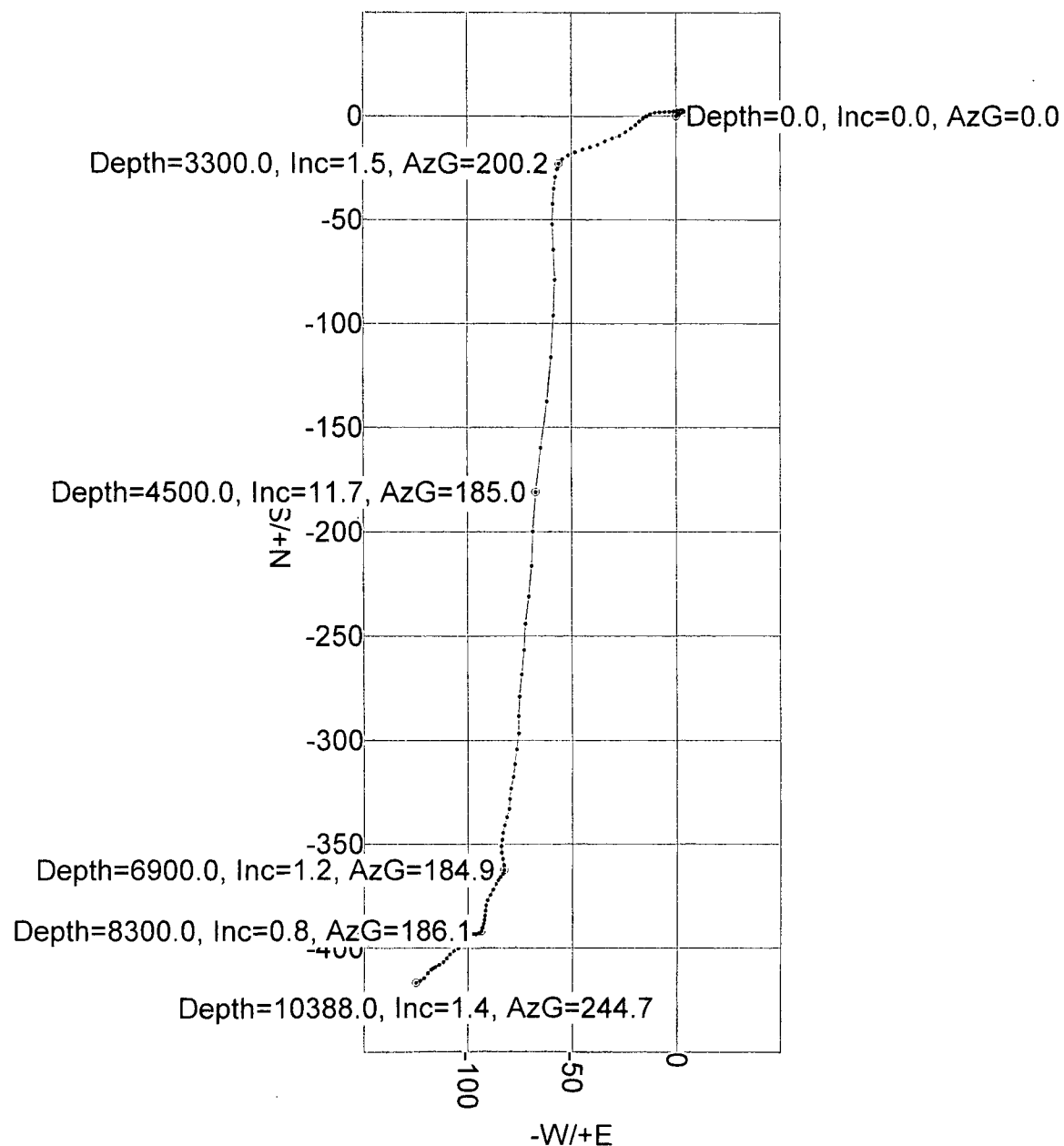
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.40	38.35	100.00	0.28	0.22	0.28	0.35	38.35	0.40
200.00	0.27	76.38	200.00	0.61	0.67	0.61	0.90	47.65	0.25
300.00	0.73	56.16	299.99	1.02	1.42	1.02	1.75	54.47	0.48
400.00	0.36	44.75	399.99	1.60	2.17	1.60	2.70	53.73	0.38
500.00	0.45	96.75	499.99	1.77	2.79	1.77	3.31	57.56	0.37
600.00	0.43	52.61	599.98	1.95	3.48	1.95	3.99	60.69	0.33
700.00	0.20	345.59	699.98	2.35	3.74	2.35	4.41	57.86	0.40
800.00	0.21	271.62	799.98	2.52	3.51	2.52	4.32	54.32	0.25
900.00	0.47	326.15	899.98	2.86	3.09	2.86	4.21	47.19	0.39
1000.00	0.89	259.14	999.97	3.06	2.10	3.06	3.71	34.50	0.83
1100.00	0.86	257.08	1099.96	2.74	0.61	2.74	2.81	12.54	0.04
1200.00	1.27	261.87	1199.95	2.42	-1.22	2.42	2.71	333.32	0.42
1300.00	1.07	264.45	1299.92	2.17	-3.24	2.17	3.90	303.86	0.21
1400.00	1.48	266.19	1399.90	2.00	-5.46	2.00	5.81	290.10	0.42
1500.00	1.26	269.66	1499.87	1.90	-7.85	1.90	8.08	283.64	0.24
1600.00	1.37	259.07	1599.84	1.67	-10.12	1.67	10.26	279.37	0.27
1700.00	1.22	245.13	1699.82	1.00	-12.27	1.00	12.31	274.64	0.35
1800.00	1.09	240.32	1799.80	0.08	-14.06	0.08	14.06	270.32	0.16

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	1.30	230.92	1899.78	-1.11	-15.77	-1.11	15.81	265.97	0.29
2000.00	1.22	228.17	1999.75	-2.54	-17.44	-2.54	17.63	261.72	0.10
2100.00	1.64	227.84	2099.72	-4.21	-19.30	-4.21	19.75	257.70	0.42
2200.00	1.51	239.04	2199.68	-5.85	-21.49	-5.85	22.27	254.78	0.33
2300.00	1.96	234.00	2299.64	-7.53	-24.00	-7.53	25.16	252.58	0.47
2400.00	1.96	246.31	2399.58	-9.22	-26.95	-9.22	28.49	251.11	0.42
2500.00	2.15	253.38	2499.52	-10.45	-30.32	-10.45	32.07	250.99	0.32
2600.00	2.23	244.80	2599.44	-11.81	-33.88	-11.81	35.88	250.78	0.34
2700.00	2.22	245.41	2699.37	-13.45	-37.40	-13.45	39.74	250.22	0.03
2800.00	2.16	256.20	2799.29	-14.70	-40.99	-14.70	43.54	250.27	0.42
2900.00	2.22	249.33	2899.22	-15.84	-44.63	-15.84	47.36	250.47	0.27
3000.00	2.18	251.40	2999.15	-17.13	-48.25	-17.13	51.20	250.46	0.09
3100.00	2.09	238.54	3099.08	-18.68	-51.60	-18.68	54.88	250.10	0.49
3200.00	1.79	232.58	3199.02	-20.58	-54.40	-20.58	58.16	249.28	0.36
3300.00	1.48	200.20	3298.98	-22.74	-56.08	-22.74	60.52	247.93	0.96
3400.00	1.77	193.26	3398.94	-25.45	-56.88	-25.45	62.32	245.89	0.35
3500.00	2.77	190.91	3498.86	-29.33	-57.69	-29.33	64.72	243.05	1.01
3600.00	3.65	185.17	3598.71	-34.87	-58.44	-34.87	68.05	239.18	0.93
3700.00	4.92	183.16	3698.43	-42.31	-58.96	-42.31	72.57	234.33	1.28
3800.00	6.37	180.03	3797.94	-52.14	-59.20	-52.14	78.89	228.62	1.48
3900.00	7.74	174.80	3897.18	-64.40	-58.59	-64.40	87.06	222.29	1.51
4000.00	8.92	180.24	3996.12	-78.87	-58.01	-78.87	97.91	216.34	1.42
4100.00	10.97	183.52	4094.62	-96.12	-58.63	-96.12	112.59	211.38	2.12
4200.00	12.18	182.77	4192.58	-116.15	-59.72	-116.15	130.60	207.21	1.22
4300.00	12.77	187.78	4290.22	-137.63	-61.73	-137.63	150.84	204.16	1.23
4400.00	13.06	187.90	4387.70	-159.77	-64.78	-159.77	172.40	202.07	0.29
4500.00	11.65	185.00	4485.38	-181.02	-67.21	-181.02	193.09	200.37	1.53
4600.00	10.14	183.05	4583.57	-199.87	-68.56	-199.87	211.31	198.93	1.55
4700.00	9.05	181.13	4682.17	-216.53	-69.18	-216.53	227.31	197.72	1.14
4800.00	7.85	191.13	4781.09	-231.09	-70.66	-231.09	241.65	197.00	1.89
4900.00	7.29	182.29	4880.22	-244.13	-72.23	-244.13	254.59	196.48	1.29
5000.00	7.02	184.38	4979.44	-256.57	-72.95	-256.57	266.73	195.87	0.38
5100.00	6.49	186.72	5078.75	-268.27	-74.07	-268.27	278.31	195.44	0.60
5200.00	5.78	185.23	5178.18	-278.89	-75.19	-278.89	288.85	195.09	0.72
5300.00	5.00	178.73	5277.73	-288.26	-75.56	-288.26	298.00	194.69	0.99
5400.00	4.62	182.25	5377.38	-296.64	-75.62	-296.64	306.13	194.30	0.48
5500.00	4.24	191.95	5477.08	-304.29	-76.54	-304.29	313.77	194.12	0.84
5600.00	3.82	183.66	5576.84	-311.22	-77.52	-311.22	320.73	193.99	0.72
5700.00	3.46	188.78	5676.64	-317.53	-78.19	-317.53	327.01	193.83	0.48

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
5800.00	3.04	193.56	5776.48	-323.09	-79.28	-323.09	332.67	193.79	0.50
5900.00	2.83	178.62	5876.35	-328.13	-79.84	-328.13	337.70	193.68	0.79
6000.00	2.65	190.22	5976.23	-332.88	-80.19	-332.88	342.40	193.54	0.58
6100.00	2.28	200.13	6076.14	-337.02	-81.28	-337.02	346.68	193.56	0.57
6200.00	2.27	191.03	6176.06	-340.83	-82.35	-340.83	350.63	193.58	0.36
6300.00	2.10	191.95	6275.99	-344.56	-83.10	-344.56	354.44	193.56	0.17
6400.00	1.69	185.75	6375.93	-347.82	-83.63	-347.82	357.73	193.52	0.45
6500.00	1.90	183.63	6475.89	-350.93	-83.88	-350.93	360.82	193.44	0.21
6600.00	1.74	173.67	6575.84	-354.09	-83.82	-354.09	363.88	193.32	0.35
6700.00	1.71	164.13	6675.79	-357.04	-83.25	-357.04	366.61	193.12	0.29
6800.00	1.71	172.65	6775.75	-359.94	-82.65	-359.94	369.31	192.93	0.25
6900.00	1.19	184.93	6875.71	-362.46	-82.55	-362.46	371.74	192.83	0.60
7000.00	1.07	216.23	6975.70	-364.25	-83.19	-364.25	373.63	192.86	0.62
7100.00	1.15	216.92	7075.68	-365.81	-84.35	-365.81	375.41	192.98	0.08
7200.00	1.07	215.25	7175.66	-367.38	-85.49	-367.38	377.19	193.10	0.09
7300.00	1.51	207.79	7275.63	-369.31	-86.65	-369.31	379.33	193.20	0.47
7400.00	1.66	206.42	7375.59	-371.77	-87.91	-371.77	382.02	193.30	0.16
7500.00	1.68	207.89	7475.55	-374.37	-89.24	-374.37	384.85	193.41	0.04
7600.00	1.63	208.17	7575.51	-376.91	-90.59	-376.91	387.65	193.51	0.05
7700.00	1.51	181.44	7675.47	-379.48	-91.30	-379.48	390.31	193.53	0.74
7800.00	1.33	189.57	7775.44	-381.94	-91.52	-381.94	392.75	193.48	0.27
7900.00	1.40	186.94	7875.41	-384.29	-91.86	-384.29	395.12	193.44	0.09
8000.00	1.08	188.41	7975.39	-386.44	-92.15	-386.44	397.27	193.41	0.31
8100.00	1.08	196.44	8075.37	-388.28	-92.55	-388.28	399.16	193.41	0.15
8200.00	1.13	199.91	8175.35	-390.11	-93.16	-390.11	401.08	193.43	0.08
8300.00	0.84	186.06	8275.34	-391.77	-93.57	-391.77	402.78	193.43	0.38
8400.00	0.96	248.23	8375.33	-392.80	-94.43	-392.80	403.99	193.52	0.93
8500.00	1.02	264.12	8475.31	-393.20	-96.09	-393.20	404.77	193.73	0.28
8600.00	0.52	311.91	8575.31	-392.99	-97.31	-392.99	404.86	193.91	0.77
8700.00	1.03	241.91	8675.30	-393.11	-98.44	-393.11	405.25	194.06	0.98
8800.00	0.75	200.44	8775.29	-394.14	-99.46	-394.14	406.49	194.16	0.68
8900.00	0.55	205.84	8875.28	-395.18	-99.90	-395.18	407.61	194.19	0.20
9000.00	1.25	208.64	8975.27	-396.57	-100.63	-396.57	409.14	194.24	0.70
9100.00	1.84	229.85	9075.23	-398.56	-102.38	-398.56	411.50	194.41	0.81
9200.00	1.37	246.00	9175.19	-400.08	-104.70	-400.08	413.55	194.66	0.65
9300.00	1.47	236.49	9275.16	-401.27	-106.86	-401.27	415.26	194.91	0.25
9400.00	1.41	219.87	9375.13	-402.93	-108.71	-402.93	417.34	195.10	0.42
9500.00	1.43	217.40	9475.10	-404.86	-110.26	-404.86	419.61	195.23	0.06
9600.00	1.34	225.56	9575.07	-406.67	-111.85	-406.67	421.77	195.38	0.22

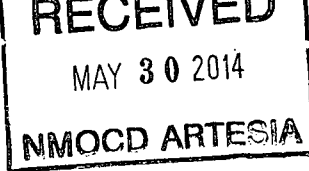


Vaughn Energy Services
Midland, Texas
432-563-5444
Surveyor: Gene Heiss
Big Sinks Draw 25 Federal Com No 001H / API 30-015-41548



VFS Survey Date: 02/15/2014

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
9700.00	1.47	241.75	9675.04	-408.09	-113.81	-408.09	423.67	195.58	0.42
9800.00	0.98	242.91	9775.02	-409.09	-115.70	-409.09	425.14	195.79	0.49
9900.00	0.53	242.74	9875.01	-409.69	-116.87	-409.69	426.03	195.92	0.45
10000.00	0.88	225.88	9975.00	-410.43	-117.83	-410.43	427.01	196.02	0.40
10100.00	1.80	218.04	10074.97	-412.20	-119.35	-412.20	429.13	196.15	0.94
10200.00	1.43	219.98	10174.93	-414.39	-121.11	-414.39	431.73	196.29	0.38
10300.00	1.37	249.55	10274.91	-415.76	-123.03	-415.76	433.59	196.48	0.72
10388.00	1.42	244.71	10362.88	-416.60	-125.00	-416.60	434.95	196.70	0.15



Leam Drilling Systems LLC Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 1H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3341' + KB 25' @ 3366.00usft (Permitting)
Site:	Big Sinks Draw 25 Fed Com	MD Reference:	GE 3341' + KB 25' @ 3366.00usft (Permitting)
Well:	1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Big Sinks Draw 25 Fed Com		
Site Position:		Northing:	401,287.32 usft
From:	Map	Easting:	725,501.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 6.558 N
		Longitude:	103° 44' 18.886 W
		Grid Convergence:	0.32 °

Well	1H		
Well Position	+N/-S	0.00 usft	Northing: 401,287.32 usft
	+E/-W	0.00 usft	Easting: 725,501.50 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 6.558 N
		Longitude:	103° 44' 18.886 W
		Ground Level:	3,341.00 usft

Wellbore	ST01		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	02/15/14	7.44	59.96	48,237

Design	ST01		
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Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	9,900.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.84

Survey Program	Date	03/17/14
From (usft)	To (usft)	Survey (Wellbore)
100.00	9,900.00	Survey #2 (OH)
9,997.00	18,027.00	Survey #1 (ST01)
Tool Name	Description	
NS-GYRO-MS	North sensing gyrocompassing m/s	
LEAM MWD-ADJ	MWD - Standard	

Survey	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	9,900.00	0.53	242.74	9,875.01	-409.76	-116.89	-409.44	0.00	0.00	0.00
SHL(BSD-25-FC 1H)										
	9,997.00	9.20	18.20	9,971.61	-402.58	-114.86	-402.26	9.88	8.94	139.65
	10,029.00	11.90	16.90	10,003.06	-396.99	-113.10	-396.68	8.47	8.44	-4.06
	10,060.00	14.60	16.50	10,033.23	-390.18	-111.06	-389.88	8.71	8.71	-1.29
	10,092.00	17.60	15.00	10,063.98	-381.64	-108.66	-381.34	9.46	9.38	-4.69
	10,124.00	21.40	13.50	10,094.13	-371.29	-106.05	-371.00	11.98	11.88	-4.69
	10,156.00	23.80	10.40	10,123.68	-359.26	-103.52	-358.98	8.37	7.50	-9.69
	10,187.00	27.90	8.20	10,151.57	-345.92	-101.36	-345.64	13.58	13.23	-7.10
	10,219.00	31.00	6.20	10,179.43	-330.31	-99.40	-330.04	10.16	9.69	-6.25

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 1H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3341' + KB 25' @ 3366.00usft (Permitting)
Site:	Big Sinks Draw 25 Fed Com	MD Reference:	GE 3341' + KB 25' @ 3366.00usft (Permitting)
Well:	1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,249.00	33.10	5.30	10,204.86	-314.48	-97.81	-314.21	7.18	7.00	-3.00	
10,281.00	36.10	4.00	10,231.20	-296.37	-96.34	-296.10	9.65	9.38	-4.06	
10,313.00	39.90	3.20	10,256.41	-276.71	-95.11	-276.45	11.97	11.88	-2.50	
10,344.00	44.50	2.70	10,279.37	-255.92	-94.04	-255.66	14.88	14.84	-1.61	
10,375.00	48.60	2.20	10,300.68	-233.44	-93.08	-233.18	13.28	13.23	-1.61	
10,407.00	53.10	1.60	10,320.88	-208.64	-92.27	-208.39	14.14	14.06	-1.88	
10,439.00	57.70	1.30	10,339.05	-182.32	-91.60	-182.07	14.40	14.38	-0.94	
10,470.00	62.40	1.90	10,354.52	-155.48	-90.85	-155.23	15.25	15.16	1.94	
10,502.00	66.10	1.70	10,368.42	-126.67	-89.94	-126.43	11.58	11.56	-0.63	
10,533.00	69.50	1.50	10,380.13	-97.99	-89.14	-97.74	10.98	10.97	-0.65	
10,565.00	72.70	1.10	10,390.49	-67.72	-88.46	-67.48	10.07	10.00	-1.25	
10,596.00	76.10	1.20	10,398.83	-37.88	-87.86	-37.64	10.97	10.97	0.32	
10,628.00	79.10	1.80	10,405.70	-6.64	-87.04	-6.40	9.55	9.38	1.88	
10,660.00	81.80	2.00	10,411.01	24.90	-85.99	25.13	8.46	8.44	0.63	
10,687.00	84.90	2.60	10,414.13	51.69	-84.92	51.92	11.69	11.48	2.22	
10,719.00	88.50	2.00	10,415.98	83.61	-83.63	83.84	11.40	11.25	-1.88	
10,750.00	89.50	1.00	10,416.52	114.59	-82.82	114.82	4.56	3.23	-3.23	
10,845.00	90.90	1.30	10,416.19	209.57	-80.92	209.79	1.51	1.47	0.32	
10,940.00	91.40	0.60	10,414.28	304.54	-79.34	304.75	0.91	0.53	-0.74	
11,034.00	90.80	0.10	10,412.47	398.52	-78.77	398.73	0.83	-0.64	-0.53	
11,129.00	90.40	0.10	10,411.48	493.51	-78.60	493.72	0.42	-0.42	0.00	
11,135.76	90.34	0.11	10,411.44	500.28	-78.59	500.49	0.97	-0.95	0.21	
500' VS (BSD-25-FC 1H)										
11,224.00	89.50	0.30	10,411.56	588.51	-78.27	588.72	0.97	-0.95	0.21	
11,319.00	90.00	0.30	10,411.98	683.51	-77.77	683.72	0.53	0.53	0.00	
11,413.00	91.80	0.80	10,410.50	777.49	-76.87	777.69	1.99	1.91	0.53	
11,509.00	92.90	1.20	10,406.56	873.39	-75.20	873.59	1.22	1.15	0.42	
11,603.00	92.20	1.00	10,402.38	967.28	-73.39	967.48	0.77	-0.74	-0.21	
11,698.00	92.30	1.00	10,398.65	1,062.19	-71.74	1,062.38	0.11	0.11	0.00	
11,793.00	93.00	2.00	10,394.26	1,157.06	-69.25	1,157.24	1.28	0.74	1.05	
11,887.00	92.20	1.70	10,390.00	1,250.91	-66.22	1,251.09	0.91	-0.85	-0.32	
11,983.00	92.20	1.30	10,386.31	1,346.81	-63.71	1,346.97	0.42	0.00	-0.42	
12,077.00	91.20	0.50	10,383.52	1,440.75	-62.24	1,440.92	1.36	-1.06	-0.85	
12,172.00	90.70	0.60	10,381.95	1,535.73	-61.32	1,535.89	0.54	-0.53	0.11	
12,267.00	91.00	1.70	10,380.54	1,630.70	-59.42	1,630.86	1.20	0.32	1.16	
12,362.00	91.20	1.00	10,378.71	1,725.66	-57.18	1,725.81	0.77	0.21	-0.74	
12,457.00	90.60	0.80	10,377.22	1,820.63	-55.69	1,820.78	0.67	-0.63	-0.21	
12,551.00	90.10	1.50	10,376.65	1,914.61	-53.80	1,914.75	0.92	-0.53	0.74	
12,645.00	90.40	1.30	10,376.24	2,008.58	-51.50	2,008.72	0.38	0.32	-0.21	
12,740.00	89.70	0.80	10,376.15	2,103.57	-49.76	2,103.69	0.91	-0.74	-0.53	
12,835.00	88.80	0.10	10,377.40	2,198.55	-49.02	2,198.68	1.20	-0.95	-0.74	
12,930.00	89.00	359.90	10,379.22	2,293.54	-49.02	2,293.66	0.30	0.21	-0.21	
13,025.00	88.80	1.20	10,381.05	2,388.51	-48.11	2,388.63	1.38	-0.21	1.37	

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 1H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3341' + KB 25' @ 3366.00usft (Permitting)
Site:	Big Sinks Draw 25 Fed Com	MD Reference:	GE 3341' + KB 25' @ 3366.00usft (Permitting)
Well:	1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,120.00	88.70	0.80	10,383.12	2,483.47	-46.45	2,483.59	0.43	-0.11	-0.42	
13,215.00	88.80	1.70	10,385.19	2,578.43	-44.38	2,578.54	0.95	0.11	0.95	
13,310.00	88.70	1.50	10,387.26	2,673.37	-41.72	2,673.47	0.24	-0.11	-0.21	
13,405.00	89.10	0.60	10,389.09	2,768.33	-39.98	2,768.43	1.04	0.42	-0.95	
13,500.00	90.10	1.30	10,389.75	2,863.32	-38.41	2,863.41	1.28	1.05	0.74	
13,595.00	91.10	2.40	10,388.75	2,958.26	-35.34	2,958.34	1.56	1.05	1.16	
13,690.00	90.80	1.30	10,387.18	3,053.20	-32.28	3,053.27	1.20	-0.32	-1.16	
13,785.00	91.30	359.90	10,385.44	3,148.17	-31.28	3,148.25	1.56	0.53	-1.47	
13,880.00	91.80	0.50	10,382.87	3,243.14	-30.95	3,243.21	0.82	0.53	0.63	
13,975.00	92.00	0.30	10,379.72	3,338.08	-30.29	3,338.15	0.30	0.21	-0.21	
14,069.00	92.90	0.60	10,375.70	3,431.99	-29.55	3,432.06	1.01	0.96	0.32	
14,164.00	91.70	0.10	10,371.89	3,526.91	-28.97	3,526.98	1.37	-1.26	-0.53	
14,259.00	90.70	0.60	10,369.90	3,621.89	-28.39	3,621.95	1.18	-1.05	0.53	
14,342.00	90.40	0.60	10,369.10	3,704.88	-27.52	3,704.94	0.36	-0.36	0.00	
14,437.00	89.60	0.60	10,369.10	3,799.87	-26.53	3,799.93	0.84	-0.84	0.00	
14,531.00	90.00	0.60	10,369.43	3,893.87	-25.54	3,893.92	0.43	0.43	0.00	
14,625.00	91.10	1.20	10,368.53	3,987.85	-24.06	3,987.90	1.33	1.17	0.64	
14,720.00	90.00	0.80	10,367.62	4,082.83	-22.41	4,082.87	1.23	-1.16	-0.42	
14,815.00	88.90	0.80	10,368.53	4,177.81	-21.08	4,177.85	1.16	-1.16	0.00	
14,910.00	88.00	359.90	10,371.10	4,272.77	-20.50	4,272.81	1.34	-0.95	-0.95	
15,005.00	89.10	359.70	10,373.50	4,367.74	-20.83	4,367.78	1.18	1.16	-0.21	
15,100.00	90.50	359.90	10,373.83	4,462.74	-21.16	4,462.78	1.49	1.47	0.21	
15,195.00	90.10	0.10	10,373.34	4,557.74	-21.16	4,557.78	0.47	-0.42	0.21	
15,290.00	90.90	0.10	10,372.51	4,652.73	-21.00	4,652.77	0.84	0.84	0.00	
15,385.00	89.50	0.10	10,372.18	4,747.73	-20.83	4,747.77	1.47	-1.47	0.00	
15,480.00	89.60	0.10	10,372.92	4,842.73	-20.67	4,842.76	0.11	0.11	0.00	
15,575.00	90.40	1.20	10,372.92	4,937.72	-19.59	4,937.75	1.43	0.84	1.16	
15,670.00	90.60	0.30	10,372.09	5,032.70	-18.34	5,032.74	0.97	0.21	-0.95	
15,765.00	92.60	1.30	10,369.44	5,127.65	-17.02	5,127.68	2.35	2.11	1.05	
15,860.00	92.00	0.80	10,365.63	5,222.56	-15.28	5,222.58	0.82	-0.63	-0.53	
15,955.00	91.60	0.60	10,362.64	5,317.51	-14.12	5,317.52	0.47	-0.42	-0.21	
16,049.00	90.70	1.50	10,360.76	5,411.47	-12.40	5,411.48	1.35	-0.96	0.96	
16,144.00	89.30	0.30	10,360.76	5,506.45	-10.91	5,506.46	1.94	-1.47	-1.26	
16,239.00	89.10	359.90	10,362.08	5,601.44	-10.74	5,601.45	0.47	-0.21	-0.42	
16,333.00	88.30	0.30	10,364.22	5,695.42	-10.58	5,695.43	0.95	-0.85	0.43	
16,428.00	88.60	0.30	10,366.79	5,790.38	-10.08	5,790.39	0.32	0.32	0.00	
16,522.00	89.00	0.10	10,368.75	5,884.36	-9.75	5,884.37	0.48	0.43	-0.21	
16,616.00	88.10	0.10	10,371.13	5,978.33	-9.59	5,978.33	0.96	-0.96	0.00	
16,712.00	88.00	0.10	10,374.40	6,074.27	-9.42	6,074.28	0.10	-0.10	0.00	
16,807.00	89.00	0.80	10,376.89	6,169.24	-8.67	6,169.24	1.28	1.05	0.74	
16,893.00	89.90	0.40	10,377.71	6,255.23	-7.77	6,255.22	1.15	1.05	-0.47	
16,987.00	90.80	0.90	10,377.14	6,349.22	-6.71	6,349.21	1.10	0.96	0.53	
17,081.00	90.90	0.40	10,375.74	6,443.20	-5.64	6,443.19	0.54	0.11	-0.53	
17,176.00	89.80	0.30	10,375.16	6,538.20	-5.06	6,538.19	1.16	-1.16	-0.11	

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 1H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3341' + KB 25' @ 3366.00usft (Permitting)
Site:	Big Sinks Draw 25 Fed Com	MD Reference:	GE 3341' + KB 25' @ 3366.00usft (Permitting)
Well:	1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,271.00	90.40	0.70	10,375.00	6,633.19	-4.23	6,633.18	0.76	0.63	0.42
17,367.00	89.30	0.20	10,375.25	6,729.19	-3.48	6,729.17	1.26	-1.15	-0.52
17,462.00	90.20	0.40	10,375.66	6,824.18	-2.98	6,824.17	0.97	0.95	0.21
17,557.00	91.60	0.80	10,374.17	6,919.16	-1.98	6,919.14	1.53	1.47	0.42
17,652.00	90.20	0.70	10,372.68	7,014.14	-0.74	7,014.12	1.48	-1.47	-0.11
17,747.00	90.20	1.00	10,372.35	7,109.13	0.67	7,109.10	0.32	0.00	0.32
17,841.00	92.00	1.20	10,370.54	7,203.09	2.47	7,203.06	1.93	1.91	0.21
LEAM MWD (9900)9997'-17841'MD									
18,027.00	92.00	1.20	10,364.05	7,388.94	6.36	7,388.89	0.00	0.00	0.00
Project to TD= 18027' MD - PBHL(BSD-25-FC 1H)									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,841.00	10,370.54	7,203.09	2.47	LEAM MWD (9900)9997'-17841'MD
18,027.00	10,364.05	7,388.94	6.36	Project to TD= 18027' MD

Checked By: _____ Approved By: _____ Date: _____