



Job Number: MD-130312
 Company: Devon Energy Corporation
 Lease/Well: Burton Flat Deep Unit 49H
 Location: Eddy Co., NM
 Rig Name: Cactus 126
 RKB: 25
 G.L. or M.S.L.: 3217

State/Country: NM
 Declination: 7.69
 Grid: 7.60
 File name: C:\USERS\LEAM\DESKTOP\BFDU49-1\SURVEYS\1303
 Date/Time: 04-Apr-13 / 15:38
 Curve Name: As Drilled

LEAM Drilling Systems

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 90.00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
The following are VES Gyro surveys									
100.00	.17	148.73	100.00	-.13	.08	.08	.15	148.72	.17
200.00	.16	145.81	200.00	-.37	.23	.23	.44	147.79	.01
300.00	.33	143.38	300.00	-.72	.48	.48	.86	146.00	.17
400.00	.25	144.82	400.00	-1.13	.78	.78	1.37	145.26	.08
500.00	.30	146.29	500.00	-1.52	1.05	1.05	1.85	145.36	.05
600.00	.28	147.29	599.99	-1.94	1.33	1.33	2.36	145.66	.02
700.00	.39	145.19	699.99	-2.43	1.65	1.65	2.94	145.74	.11
800.00	.11	146.76	799.99	-2.79	1.90	1.90	3.38	145.71	.28
900.00	.66	148.86	899.99	-3.36	2.25	2.25	4.05	146.19	.55
1000.00	.65	145.56	999.98	-4.32	2.87	2.87	5.19	146.41	.04
1100.00	1.48	117.19	1099.97	-5.38	4.34	4.34	6.91	141.11	.96
1200.00	1.98	109.12	1199.92	-6.54	7.12	7.12	9.67	132.55	.55
1300.00	1.94	114.27	1299.86	-7.80	10.30	10.30	12.92	127.14	.18
1400.00	1.91	110.62	1399.80	-9.08	13.40	13.40	16.19	124.13	.13
1500.00	1.60	112.86	1499.76	-10.21	16.25	16.25	19.19	122.15	.32
1600.00	1.65	111.09	1599.72	-11.27	18.88	18.88	21.98	120.84	.07
1700.00	1.60	113.05	1699.68	-12.34	21.50	21.50	24.79	119.84	.07
1800.00	1.39	116.15	1799.64	-13.42	23.88	23.88	27.39	119.33	.22
1900.00	1.48	118.95	1899.61	-14.58	26.10	26.10	29.89	119.19	.11
2000.00	1.37	119.44	1999.58	-15.79	28.27	28.27	32.38	119.19	.11
2100.00	1.34	115.72	2099.55	-16.88	30.36	30.36	34.74	119.08	.09
2200.00	1.30	113.30	2199.53	-17.84	32.46	32.46	37.04	118.80	.07
2300.00	1.18	112.15	2299.50	-18.68	34.45	34.45	39.19	118.46	.12
2400.00	1.03	118.18	2399.48	-19.49	36.20	36.20	41.11	118.30	.19

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2500.00	1.05	117.62	2499.47	-20.34	37.80	37.80	42.93	118.28	.02
2600.00	1.10	128.18	2599.45	-21.36	39.37	39.37	44.79	118.48	.20
2700.00	1.09	131.19	2699.43	-22.58	40.84	40.84	46.66	118.94	.06
2748.00	1.01	132.93	2747.42	-23.17	41.49	41.49	47.52	119.18	.18
The following are LEAM MWD surveys									
2833.00	1.58	105.69	2832.40	-23.99	43.17	43.17	49.39	119.07	.97
2927.00	1.93	30.45	2926.37	-22.98	45.22	45.22	50.72	116.94	2.30
3023.00	3.87	7.95	3022.24	-18.38	46.49	46.49	49.99	111.57	2.31
3118.00	5.89	3.21	3116.90	-10.33	47.20	47.20	48.32	102.35	2.17
3213.00	7.47	1.62	3211.25	.71	47.65	47.65	47.66	89.15	1.67
3308.00	9.23	2.15	3305.24	14.49	48.11	48.11	50.25	73.23	1.85
3404.00	9.76	3.03	3399.92	30.31	48.83	48.83	57.47	58.17	.57
3498.00	10.02	2.85	3492.52	46.44	49.66	49.66	67.99	46.92	.28
3593.00	10.11	3.38	3586.06	63.02	50.56	50.56	80.79	38.74	.14
3688.00	10.02	3.73	3679.60	79.59	51.59	51.59	94.84	32.95	.11
3783.00	10.11	4.79	3773.14	96.14	52.82	52.82	109.70	28.79	.22
3878.00	10.29	357.58	3866.64	112.93	53.16	53.16	124.82	25.21	1.36
3973.00	10.46	357.05	3960.09	130.02	52.36	52.36	140.17	21.93	.21
4068.00	10.55	359.16	4053.50	147.33	51.79	51.79	156.16	19.37	.42
4163.00	10.46	359.69	4146.90	164.65	51.61	51.61	172.55	17.41	.14
4258.00	10.82	.57	4240.27	182.19	51.66	51.66	189.37	15.83	.42
4353.00	10.82	1.10	4333.58	200.02	51.92	51.92	206.65	14.55	.10
4447.00	10.99	2.50	4425.88	217.79	52.48	52.48	224.02	13.55	.33
4542.00	9.50	.57	4519.37	234.68	52.95	52.95	240.58	12.71	1.61
4637.00	9.41	.39	4613.08	250.28	53.08	53.08	255.85	11.97	.10
4733.00	9.50	2.15	4707.77	266.05	53.43	53.43	271.36	11.36	.32
4828.00	9.23	3.38	4801.51	281.49	54.17	54.17	286.65	10.89	.35
4923.00	9.23	356.53	4895.28	296.70	54.16	54.16	301.60	10.35	1.16
5017.00	9.15	355.82	4988.07	311.68	53.16	53.16	316.18	9.68	.15
5112.00	8.62	357.23	5081.93	326.32	52.27	52.27	330.48	9.10	.60
5207.00	8.27	356.88	5175.90	340.26	51.55	51.55	344.14	8.61	.37
5302.00	9.50	357.40	5269.76	354.91	50.82	50.82	358.53	8.15	1.30
5397.00	8.27	356.17	5363.62	369.56	50.01	50.01	372.93	7.71	1.31
5492.00	10.02	358.28	5457.41	384.64	49.31	49.31	387.79	7.30	1.88
5586.00	9.50	358.64	5550.05	400.57	48.88	48.88	403.54	6.96	.56
5681.00	10.29	359.69	5643.63	416.89	48.64	48.64	419.72	6.66	.85
5776.00	11.34	1.80	5736.94	434.71	48.89	48.89	437.45	6.42	1.18
5870.00	10.29	2.85	5829.27	452.33	49.60	49.60	455.05	6.26	1.14
5965.00	9.58	4.79	5922.85	468.69	50.68	50.68	471.42	6.17	.83
6020.00	9.50	5.67	5977.09	477.76	51.51	51.51	480.53	6.15	.30
6086.00	11.61	10.24	6041.97	489.72	53.23	53.23	492.61	6.20	3.44
6117.00	15.65	14.46	6072.09	496.84	54.83	54.83	499.86	6.30	13.41
6149.00	18.99	17.44	6102.64	505.99	57.47	57.47	509.24	6.48	10.80
6180.00	22.16	22.19	6131.66	516.22	61.19	61.19	519.83	6.76	11.55
6212.00	24.36	29.05	6161.06	527.58	66.68	66.68	531.78	7.20	10.90
6244.00	25.94	32.39	6190.03	539.26	73.63	73.63	544.27	7.78	6.64

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6275.00	26.82	33.79	6217.80	550.80	81.15	81.15	556.75	8.38	3.48
6307.00	30.16	35.55	6245.92	563.34	89.84	89.84	570.46	9.06	10.76
6338.00	33.59	37.48	6272.24	576.49	99.59	99.59	585.03	9.80	11.54
6370.00	36.23	37.83	6298.48	590.98	110.78	110.78	601.28	10.62	8.27
6402.00	38.25	39.06	6323.96	606.15	122.82	122.82	618.47	11.45	6.73
6434.00	41.42	40.65	6348.53	621.87	135.96	135.96	636.56	12.33	10.40
6466.00	44.32	43.64	6371.98	638.00	150.58	150.58	655.53	13.28	11.07
6497.00	46.60	44.51	6393.72	653.87	165.95	165.95	674.60	14.24	7.62
6529.00	49.33	45.04	6415.15	670.74	182.69	182.69	695.17	15.24	8.62
6561.00	53.38	45.39	6435.13	688.34	200.43	200.43	716.93	16.23	12.69
6592.00	57.24	45.39	6452.77	706.24	218.57	218.57	739.29	17.20	12.45
6624.00	60.09	45.57	6469.40	725.40	238.06	238.06	763.46	18.17	8.92
6655.00	64.72	46.10	6483.76	744.53	257.76	257.76	787.89	19.10	15.01
6687.00	68.85	46.27	6496.37	764.89	278.98	278.98	814.18	20.04	12.92
6718.00	72.19	45.92	6506.71	785.15	300.03	300.03	840.53	20.91	10.83
6750.00	75.10	45.39	6515.72	806.62	321.99	321.99	868.51	21.76	9.23
6781.00	78.44	45.04	6522.81	827.87	343.40	343.40	896.27	22.53	10.83
6813.00	82.22	45.57	6528.19	850.05	365.82	365.82	925.43	23.28	11.92
6874.00	88.20	47.85	6533.28	891.71	410.05	410.05	981.47	24.70	10.49
6966.00	88.64	48.56	6535.81	953.00	478.61	478.61	1066.43	26.67	.91
7057.00	88.72	50.67	6537.91	1011.94	547.90	547.90	1150.75	28.43	2.32
7149.00	88.81	52.78	6539.89	1068.91	620.11	620.11	1235.76	30.12	2.30
7244.00	88.20	55.59	6542.37	1124.48	697.11	697.11	1323.03	31.80	3.03
7339.00	88.11	58.40	6545.43	1176.20	776.73	776.73	1409.52	33.44	2.96
7433.00	88.37	61.74	6548.32	1223.07	858.14	858.14	1494.09	35.05	3.56
7528.00	88.55	64.55	6550.87	1265.96	942.86	942.86	1578.49	36.68	2.96
7622.00	88.20	66.66	6553.54	1304.77	1028.43	1028.43	1661.35	38.25	2.27
7717.00	88.99	69.12	6555.87	1340.51	1116.41	1116.41	1744.51	39.79	2.72
7812.00	88.20	71.76	6558.20	1372.30	1205.89	1205.89	1826.85	41.31	2.90
7907.00	88.55	74.57	6560.89	1399.80	1296.77	1296.77	1908.16	42.81	2.98
8001.00	87.93	77.91	6563.78	1422.15	1388.02	1388.02	1987.23	44.30	3.61
8096.00	87.76	80.20	6567.35	1440.17	1481.22	1481.22	2065.94	45.80	2.42
8190.00	88.02	83.01	6570.82	1453.88	1574.14	1574.14	2142.82	47.27	3.00
8285.00	87.49	85.82	6574.54	1463.12	1668.60	1668.60	2219.23	48.75	3.01
8380.00	88.72	87.93	6577.68	1468.30	1763.40	1763.40	2294.67	50.22	2.57
8474.00	88.81	88.64	6579.71	1471.11	1857.34	1857.34	2369.36	51.62	.76
8569.00	89.34	89.69	6581.24	1472.49	1952.31	1952.31	2445.36	52.98	1.24
8664.00	89.34	89.51	6582.33	1473.16	2047.31	2047.31	2522.23	54.26	.19
8759.00	89.25	89.34	6583.50	1474.11	2142.29	2142.29	2600.47	55.47	.20
8854.00	90.40	91.80	6583.79	1473.17	2237.28	2237.28	2678.74	56.64	2.86
8948.00	90.57	91.62	6583.00	1470.36	2331.23	2331.23	2756.20	57.76	.26
9041.00	91.01	91.97	6581.72	1467.45	2424.18	2424.18	2833.73	58.81	.60
9136.00	91.54	91.80	6579.60	1464.32	2519.10	2519.10	2913.78	59.83	.59
9230.00	90.22	91.45	6578.16	1461.66	2613.05	2613.05	2994.08	60.78	1.45
9324.00	87.76	90.74	6579.81	1459.86	2707.01	2707.01	3075.57	61.66	2.72

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
9419.00	86.79	89.51	6584.33	1459.66	2801.90	2801.90	3159.31	62.48	1.65
9514.00	87.23	90.74	6589.29	1459.45	2896.77	2896.77	3243.65	63.26	1.37
9608.00	87.05	90.92	6593.98	1458.09	2990.64	2990.64	3327.16	64.01	.27
9703.00	87.85	91.97	6598.20	1455.69	3085.52	3085.52	3411.67	64.74	1.39
9797.00	87.23	91.80	6602.24	1452.61	3179.38	3179.38	3495.50	65.45	.68
9892.00	87.49	91.97	6606.61	1449.48	3274.23	3274.23	3580.72	66.12	.33
9986.00	87.05	91.27	6611.09	1446.83	3368.08	3368.08	3665.69	66.75	.88
10081.00	86.17	90.22	6616.71	1445.60	3462.91	3462.91	3752.53	67.34	1.44
10175.00	86.35	89.51	6622.84	1445.82	3556.71	3556.71	3839.34	67.88	.78
10271.00	86.97	89.69	6628.43	1446.49	3652.54	3652.54	3928.53	68.40	.67
10365.00	87.32	90.04	6633.12	1446.71	3746.42	3746.42	4016.05	68.89	.53
10460.00	87.67	90.04	6637.27	1446.64	3841.33	3841.33	4104.70	69.36	.37
10555.00	86.53	89.87	6642.07	1446.72	3936.21	3936.21	4193.65	69.82	1.21
10649.00	86.88	90.74	6647.48	1446.22	4030.05	4030.05	4281.69	70.26	1.00
10744.00	87.23	90.57	6652.36	1445.13	4124.92	4124.92	4370.74	70.69	.41
10839.00	86.70	90.74	6657.39	1444.05	4219.78	4219.78	4460.02	71.11	.59
10934.00	88.02	91.27	6661.76	1442.38	4314.66	4314.66	4549.37	71.52	1.50
11029.00	89.60	90.22	6663.74	1441.15	4409.63	4409.63	4639.15	71.90	2.00
11124.00	89.96	90.04	6664.10	1440.93	4504.63	4504.63	4729.48	72.26	.42
11217.00	90.13	89.69	6664.03	1441.15	4597.63	4597.63	4818.20	72.60	.42
11311.00	90.84	90.04	6663.23	1441.37	4691.62	4691.62	4908.04	72.92	.84
11406.00	89.60	90.39	6662.87	1441.02	4786.62	4786.62	4998.82	73.25	1.36
11501.00	88.55	89.34	6664.40	1441.24	4881.60	4881.60	5089.91	73.55	1.56
11595.00	89.16	89.87	6666.28	1441.89	4975.58	4975.58	5180.29	73.84	.86
11690.00	87.93	89.87	6668.69	1442.10	5070.55	5070.55	5271.63	74.12	1.29
11784.00	88.46	89.69	6671.65	1442.46	5164.50	5164.50	5362.16	74.39	.60
11878.00	88.81	89.51	6673.89	1443.12	5258.47	5258.47	5452.90	74.65	.42
11973.00	89.60	89.16	6675.21	1444.22	5353.46	5353.46	5544.84	74.90	.91
12059.00	89.96	89.34	6675.54	1445.35	5439.45	5439.45	5628.20	75.12	.47
Straight Line Projection to Bit									
12125.00	89.96	89.34	6675.59	1446.11	5505.44	5505.44	5692.20	75.28	.00

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	Devon Energy
Well Name	Burton Flat Deep Unit #49H
Location	Eddy County, N.M.
Start Date	3/28/2013
End Date	4/4/2013
Direction	90.00°



SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
TIE IN	2748	1.01	132.93	2747.42	-23.17	41.49	41.49	0.18
1	2833	1.58	105.69	2832.40	-24.00	43.17	43.17	0.97
2	2927	1.93	30.45	2926.37	-22.98	45.22	45.22	2.30
3	3023	3.87	7.95	3022.24	-18.38	46.48	46.48	2.31
4	3118	5.89	3.21	3116.89	-10.34	47.20	47.20	2.17
5	3213	7.47	1.62	3211.24	0.70	47.65	47.65	1.67
6	3308	9.23	2.15	3305.23	14.49	48.11	48.11	1.85
7	3404	9.76	3.03	3399.92	30.31	48.83	48.83	0.57
8	3498	10.02	2.85	3492.52	46.43	49.66	49.66	0.28
9	3593	10.11	3.38	3586.06	63.01	50.56	50.56	0.14
10	3688	10.02	3.73	3679.60	79.58	51.59	51.59	0.11
11	3783	10.11	4.79	3773.13	96.14	52.82	52.82	0.22
12	3878	10.29	357.58	3866.64	112.93	53.16	53.16	1.36
13	3973	10.46	357.05	3960.08	130.02	52.36	52.36	0.21
14	4068	10.55	359.16	4053.49	147.32	51.79	51.79	0.42
15	4163	10.46	359.69	4146.90	164.64	51.61	51.61	0.14
16	4258	10.82	0.57	4240.27	182.18	51.65	51.65	0.42
17	4353	10.82	1.10	4333.58	200.01	51.91	51.91	0.10
18	4447	10.99	2.50	4425.88	217.79	52.47	52.47	0.33
19	4542	9.50	0.57	4519.36	234.67	52.95	52.95	1.61
20	4637	9.41	0.39	4613.07	250.28	53.08	53.08	0.10
21	4733	9.50	2.15	4707.77	266.04	53.43	53.43	0.32
22	4828	9.23	3.38	4801.50	281.48	54.17	54.17	0.35
23	4923	9.23	356.53	4895.27	296.70	54.16	54.16	1.16
24	5017	9.15	355.82	4988.07	311.67	53.16	53.16	0.15
25	5112	8.62	357.23	5081.93	326.32	52.26	52.26	0.60
26	5207	8.27	356.88	5175.90	340.25	51.55	51.55	0.37

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	Devon Energy
Well Name	Burton Flat Deep Unit #49H
Location	Eddy County, N.M.
Start Date	3/28/2013
End Date	4/4/2013
Direction	90.00°

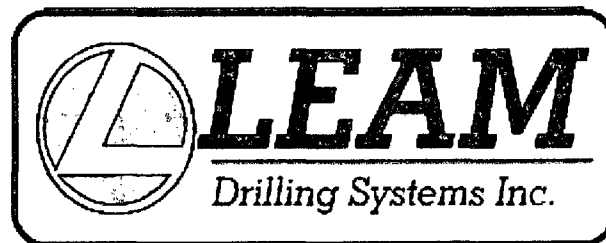


SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
27	5302	9.50	357.40	5269.76	354.91	50.82	50.82	1.30
28	5397	8.27	356.17	5363.61	369.56	50.01	50.01	1.31
29	5492	10.02	358.28	5457.40	384.63	49.30	49.30	1.88
30	5586	9.50	358.64	5550.04	400.56	48.87	48.87	0.56
31	5681	10.29	359.69	5643.63	416.89	48.64	48.64	0.85
32	5776	11.34	1.80	5736.94	434.71	48.89	48.89	1.18
33	5870	10.29	2.85	5829.27	452.33	49.60	49.60	1.14
34	5965	9.58	4.79	5922.84	468.68	50.68	50.68	0.83
35	6020	9.50	5.67	5977.08	477.76	51.51	51.51	0.30
36	6086	11.61	10.24	6041.97	489.72	53.23	53.23	3.44
37	6117	15.65	14.46	6072.09	496.84	54.83	54.83	13.41
38	6149	18.99	17.44	6102.63	505.99	57.47	57.47	10.80
39	6180	22.16	22.19	6131.65	516.22	61.19	61.19	11.55
40	6212	24.36	29.05	6161.06	527.58	66.67	66.67	10.90
41	6244	25.94	32.39	6190.02	539.26	73.63	73.63	6.64
42	6275	26.82	33.79	6217.79	550.80	81.15	81.15	3.48
43	6307	30.16	35.55	6245.92	563.34	89.84	89.84	10.76
44	6338	33.59	37.48	6272.24	576.48	99.59	99.59	11.54
45	6370	36.23	37.83	6298.48	590.98	110.78	110.78	8.27
46	6402	38.25	39.06	6323.95	606.14	122.82	122.82	6.73
47	6434	41.42	40.65	6348.52	621.87	135.96	135.96	10.40
48	6466	44.32	43.64	6371.97	638.00	150.58	150.58	11.07
49	6497	46.60	44.51	6393.72	653.87	165.95	165.95	7.62
50	6529	49.33	45.04	6415.14	670.74	182.69	182.69	8.62
51	6561	53.38	45.39	6435.12	688.34	200.42	200.42	12.69
52	6592	57.24	45.39	6452.76	706.23	218.57	218.57	12.45
53	6624	60.09	45.57	6469.40	725.40	238.05	238.05	8.92

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	Devon Energy
Well Name	Burton Flat Deep Unit #49H
Location	Eddy County, N.M.
Start Date	3/28/2013
End Date	4/4/2013
Direction	90.00°



SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
54	6655	64.72	46.10	6483.76	744.53	257.76	257.76	15.01
55	6687	68.85	46.27	6496.37	764.89	278.98	278.98	12.92
56	6718	72.19	45.92	6506.70	785.15	300.03	300.03	10.83
57	6750	75.10	45.39	6515.71	806.61	321.98	321.98	9.23
58	6781	78.44	45.04	6522.81	827.87	343.40	343.40	10.83
59	6813	82.22	45.57	6528.18	850.05	365.82	365.82	11.92
60	6874	88.20	47.85	6533.27	891.70	410.05	410.05	10.49
61	6966	88.64	48.56	6535.81	953.00	478.61	478.61	0.91
62	7057	88.72	50.67	6537.91	1011.94	547.90	547.90	2.32
63	7149	88.81	52.78	6539.89	1068.91	620.11	620.11	2.30
64	7244	88.20	55.59	6542.37	1124.48	697.11	697.11	3.03
65	7339	88.11	58.40	6545.43	1176.19	776.73	776.73	2.96
66	7433	88.37	61.74	6548.32	1223.06	858.14	858.14	3.56
67	7528	88.55	64.55	6550.87	1265.96	942.86	942.86	2.96
68	7622	88.20	66.66	6553.54	1304.76	1028.42	1028.42	2.27
69	7717	88.99	69.12	6555.87	1340.51	1116.40	1116.40	2.72
70	7812	88.20	71.76	6558.20	1372.30	1205.89	1205.89	2.90
71	7907	88.55	74.57	6560.89	1399.80	1296.77	1296.77	2.98
72	8001	87.93	77.91	6563.78	1422.14	1388.02	1388.02	3.61
73	8096	87.76	80.20	6567.35	1440.17	1481.21	1481.21	2.42
74	8190	88.02	83.01	6570.81	1453.88	1574.14	1574.14	3.00
75	8285	87.49	85.82	6574.53	1463.12	1668.60	1668.60	3.01
76	8380	88.72	87.93	6577.68	1468.29	1763.40	1763.40	2.57
77	8474	88.81	88.64	6579.70	1471.11	1857.34	1857.34	0.76
78	8569	89.34	89.69	6581.24	1472.49	1952.31	1952.31	1.24
79	8664	89.34	89.51	6582.33	1473.15	2047.30	2047.30	0.19
80	8759	89.25	89.34	6583.50	1474.11	2142.29	2142.29	0.20

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	Devon Energy
Well Name	Burton Flat Deep Unit #49H
Location	Eddy County, N.M.
Start Date	3/28/2013
End Date	4/4/2013
Direction	90.00°



SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
81	8854	90.40	91.80	6583.79	1473.16	2237.28	2237.28	2.86
82	8948	90.57	91.62	6582.99	1470.36	2331.23	2331.23	0.26
83	9041	91.01	91.97	6581.71	1467.44	2424.18	2424.18	0.60
84	9136	91.54	91.80	6579.60	1464.32	2519.10	2519.10	0.59
85	9230	90.22	91.45	6578.15	1461.65	2613.05	2613.05	1.45
86	9324	87.76	90.74	6579.81	1459.86	2707.01	2707.01	2.72
87	9419	86.79	89.51	6584.33	1459.65	2801.90	2801.90	1.65
88	9514	87.23	90.74	6589.28	1459.44	2896.77	2896.77	1.37
89	9608	87.05	90.92	6593.97	1458.08	2990.64	2990.64	0.27
90	9703	87.85	91.97	6598.20	1455.69	3085.52	3085.52	1.39
91	9797	87.23	91.80	6602.23	1452.60	3179.38	3179.38	0.68
92	9892	87.49	91.97	6606.61	1449.48	3274.23	3274.23	0.33
93	9986	87.05	91.27	6611.09	1446.83	3368.08	3368.08	0.88
94	10081	86.17	90.22	6616.70	1445.59	3462.90	3462.90	1.44
95	10175	86.35	89.51	6622.84	1445.81	3556.70	3556.70	0.78
96	10271	86.97	89.69	6628.43	1446.48	3652.54	3652.54	0.67
97	10365	87.32	90.04	6633.11	1446.70	3746.42	3746.42	0.53
98	10460	87.67	90.04	6637.26	1446.64	3841.33	3841.33	0.37
99	10555	86.53	89.87	6642.07	1446.71	3936.21	3936.21	1.21
100	10649	86.88	90.74	6647.47	1446.21	4030.05	4030.05	1.00
101	10744	87.23	90.57	6652.35	1445.13	4124.92	4124.92	0.41
102	10839	86.70	90.74	6657.38	1444.04	4219.78	4219.78	0.59
103	10934	88.02	91.27	6661.76	1442.38	4314.66	4314.66	1.50
104	11029	89.60	90.22	6663.73	1441.14	4409.63	4409.63	2.00
105	11124	89.96	90.04	6664.10	1440.93	4504.62	4504.62	0.42
106	11217	90.13	89.69	6664.02	1441.15	4597.62	4597.62	0.42
107	11311	90.84	90.04	6663.23	1441.37	4691.62	4691.62	0.84

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

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	Devon Energy
Well Name	Burton Flat Deep Unit #49H
Location	Eddy County, N.M.
Start Date	3/28/2013
End Date	4/4/2013
Direction	90.00°



SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
108	11406	89.60	90.39	6662.86	1441.01	4786.62	4786.62	1.36
109	11501	88.55	89.34	6664.40	1441.24	4881.60	4881.60	1.56
110	11595	89.16	89.87	6666.28	1441.88	4975.58	4975.58	0.86
111	11690	87.93	89.87	6668.69	1442.10	5070.55	5070.55	1.29
112	11784	88.46	89.69	6671.65	1442.46	5164.50	5164.50	0.60
113	11878	88.81	89.51	6673.89	1443.12	5258.47	5258.47	0.42
114	11973	89.60	89.16	6675.21	1444.22	5353.45	5353.45	0.91
115	12059	89.96	89.34	6675.54	1445.34	5439.45	5439.45	0.47
PTB	12125	89.96	89.34	6675.58	1446.10	5505.44	5505.44	0.00
117								
118								