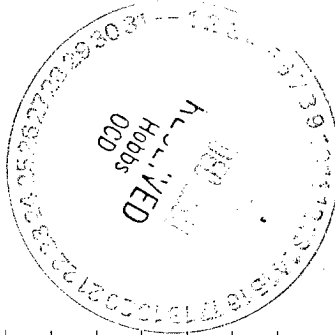


Edge Petroleum Operating Company, Inc.

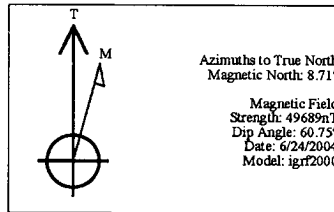
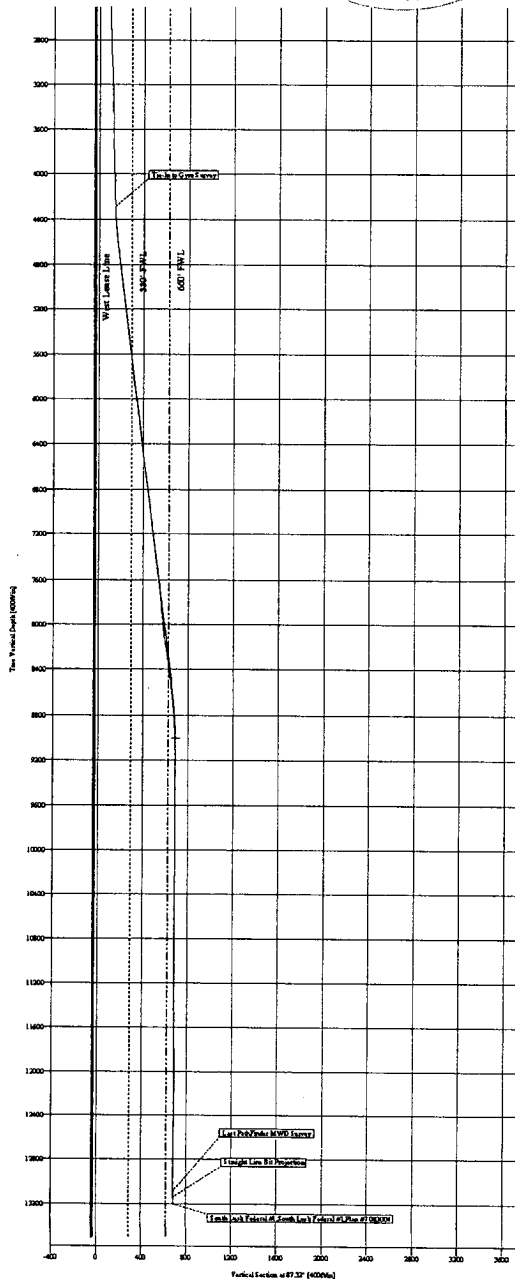


South Lusk '34' #1
 Lea County, New Mexico
 Update: 09-22-04
 Rig: Patterson #46

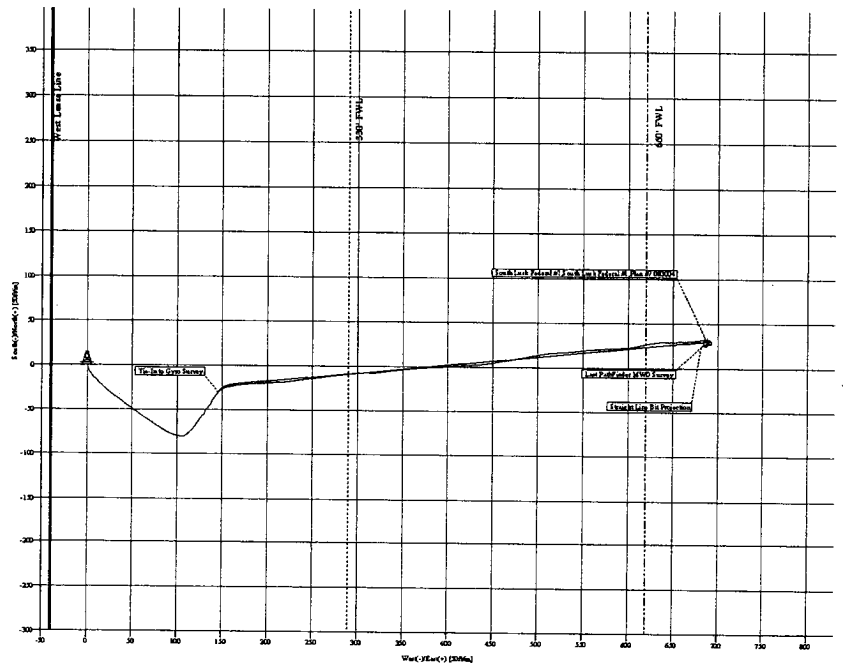


Survey: PathFinder MWD Surveys (South Lusk Federal #1/South Lusk Federal #1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
80	11487.00	1.06	31.91	11448.78	31.57	685.53	0.53	-70.87	686.25
81	11548.00	1.06	10.82	11509.77	32.60	685.93	0.64	-100.54	686.71
82	11641.00	1.49	106.97	11602.75	33.09	687.25	2.06	129.46	688.05
83	11734.00	1.23	105.74	11695.73	32.47	689.37	0.28	-174.21	690.13
84	11829.00	1.14	122.00	11790.71	31.69	691.15	0.37	113.02	691.88
85	11921.00	0.79	136.33	11882.69	30.75	692.37	0.46	152.44	693.05
86	12016.00	0.88	169.90	11977.68	29.55	692.95	0.52	96.65	693.57
87	12109.00	0.88	210.00	12070.67	28.23	692.71	0.65	110.05	693.28
88	12201.00	1.06	219.12	12162.66	26.96	691.82	0.26	45.24	692.33
89	12299.00	0.70	330.21	12260.65	26.78	690.95	1.50	153.53	691.45
90	12392.00	1.06	304.55	12353.64	27.76	689.96	0.56	-60.90	690.51
91	12485.00	0.70	292.16	12446.63	28.46	688.73	0.44	-158.24	689.31
92	12546.00	1.06	286.01	12507.62	28.76	687.84	0.61	-17.79	688.43
93	12638.00	1.06	179.57	12599.62	28.14	687.03	1.85	-143.22	687.59
94	12700.00	1.23	196.53	12661.60	26.93	686.84	0.61	72.01	687.35
95	12793.00	0.53	312.55	12754.60	26.26	686.24	1.65	161.96	686.72
96	12887.00	0.62	265.26	12848.59	26.51	685.42	0.50	-103.51	685.91
97	12979.00	0.62	256.12	12940.59	26.35	684.44	0.11	-94.57	684.92
98	13072.00	1.06	241.62	13033.58	25.82	683.19	0.52	-33.16	683.65
99	13130.00	1.58	218.68	13091.56	24.95	682.22	1.26	-57.32	682.64
100	13180.00	1.58	218.68	13141.54	23.87	681.36	0.00	0.00	681.73



SITE DETAILS
 South Lusk 34 Federal #1
 Section 34, TWP 19S, RGE 32E
 Site Centre Latitude: 32°35'11.000N
 Longitude: 103°45'00.000W
 Ground Level: 3357.00
 Positional Uncertainty: 0.00
 Convergence: 0.31



PathFinder
Survey Report

Company: Edge Petroleum Operating Compa	Date: 9/22/2004	Time: 10:25:14	Page: 1
Field: South Lusk 34 Federal #1	Co-ordinate(NE) Reference: Site: South Lusk 34 Federal #1		
Site: South Lusk 34 Federal #1	Vertical (TVD) Reference: SITE 0.0		
Well: South Lusk Federal #1	Section (VS) Reference: Well (0.00N,0.00E,87.32Azi)		
Wellpath: South Lusk Federal #1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: South Lusk 34 Federal #1 Lea County, New Mexico		
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone	
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre	
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2000	

Site: South Lusk 34 Federal #1

Section 34, TWP 19S, RGE 32E

Site Position:	Northing:	577532.60 ft	Latitude:	32 35 11.000 N
From: Geographic	Easting:	679671.28 ft	Longitude:	103 45 0.000 W
Position Uncertainty: 0.00 ft			North Reference:	True
Ground Level: 3357.00 ft			Grid Convergence:	0.31 deg

Well: South Lusk Federal #1	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 577532.60 ft	Latitude: 32 35 11.000 N
+E/-W 0.00 ft	Easting: 679671.28 ft	Longitude: 103 44 59.999 W
Position Uncertainty: 0.00 ft		

Wellpath: South Lusk Federal #1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 6/24/2004	Above System Datum: Mean Sea Level		
Field Strength: 49689 nT	Declination: 8.71 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.75 deg		
ft	+N/-S	+E/-W	Direction
	ft	ft	deg
0.00	0.00	0.00	87.32

Survey: Pathfinder MWD Surveys	Start Date: 8/26/2004
Company: Pathfinder Energy Services	Engineer: Ron McIntyre
Tool:	Tied-to: From: Definitive Path

Survey: Pathfinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4290.00	2.94	32.91	4284.12	-30.31	145.38	143.80	0.00	0.00	0.00	
4385.00	3.43	56.52	4378.98	-26.70	149.07	147.66	1.46	0.52	24.85	
4478.00	5.10	76.56	4471.72	-24.20	155.41	154.11	2.38	1.80	21.55	
4571.00	5.36	79.81	4564.34	-22.48	163.71	162.48	0.42	0.28	3.49	
4663.00	6.07	83.86	4655.88	-21.19	172.77	171.59	0.89	0.77	4.40	
4756.00	6.07	85.35	4748.36	-20.27	182.56	181.42	0.17	0.00	1.60	
4849.00	7.03	86.32	4840.75	-19.51	193.14	192.02	1.04	1.03	1.04	
4942.00	7.03	86.05	4933.05	-18.75	204.50	203.40	0.04	0.00	-0.29	
5034.00	7.47	86.93	5024.31	-18.04	216.09	215.01	0.49	0.48	0.96	
5127.00	6.51	80.78	5116.62	-16.87	227.33	226.29	1.31	-1.03	-6.61	
5219.00	6.33	81.75	5208.05	-15.31	237.50	236.52	0.23	-0.20	1.05	
5312.00	6.07	81.66	5300.50	-13.86	247.44	246.52	0.28	-0.28	-0.10	
5405.00	7.12	82.27	5392.88	-12.37	258.01	257.15	1.13	1.13	0.66	
5498.00	7.12	82.98	5485.17	-10.89	269.44	268.64	0.09	0.00	0.76	
5591.00	7.03	84.30	5577.46	-9.62	280.83	280.07	0.20	-0.10	1.42	
5683.00	7.12	84.21	5668.76	-8.49	292.10	291.39	0.10	0.10	-0.10	
5777.00	6.95	85.26	5762.05	-7.43	303.57	302.89	0.23	-0.18	1.12	
5870.00	7.12	88.43	5854.35	-6.81	314.94	314.27	0.46	0.18	3.41	
5964.00	7.39	81.75	5947.60	-5.78	326.74	326.11	0.94	0.29	-7.11	
6057.00	7.21	83.24	6039.85	-4.24	338.46	337.89	0.28	-0.19	1.60	
6150.00	7.30	84.38	6132.10	-2.97	350.13	349.61	0.18	0.10	1.23	
6243.00	7.30	84.91	6224.35	-1.87	361.90	361.41	0.07	0.00	0.57	
6336.00	6.86	86.76	6316.64	-1.03	373.33	372.87	0.53	-0.47	1.99	
6429.00	6.95	86.14	6408.96	-0.34	384.49	384.05	0.13	0.10	-0.67	

PathFinder
Survey Report

Company: Edge Petroleum Operating Compa	Date: 9/22/2004	Time: 10:25:14	Page: 2
Field: South Lusk 34 Federal #1	Co-ordinate(NE) Reference:	Site: South Lusk 34 Federal #1	
Site: South Lusk 34 Federal #1	Vertical (TVD) Reference:	SITE 0.0	
Well: South Lusk Federal #1	Section (VS) Reference:	Well (0.00N,0.00E,87.32Azi)	
Wellpath: South Lusk Federal #1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: PathFinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6521.00	7.03	85.09	6500.28	0.52	395.65	395.24	0.16	0.09	-1.14	
6615.00	7.30	85.88	6593.55	1.44	407.34	406.96	0.31	0.29	0.84	
6708.00	7.47	86.84	6685.78	2.20	419.27	418.91	0.23	0.18	1.03	
6801.00	7.12	86.84	6778.02	2.85	431.06	430.72	0.38	-0.38	0.00	
6893.00	7.21	82.54	6869.30	3.91	442.48	442.17	0.59	0.10	-4.67	
6988.00	7.30	79.55	6963.54	5.78	454.32	454.10	0.41	0.09	-3.15	
7081.00	7.56	79.29	7055.76	7.99	466.14	466.01	0.28	0.28	-0.28	
7174.00	8.18	79.81	7147.89	10.30	478.67	478.62	0.67	0.67	0.56	
7268.00	6.68	79.11	7241.10	12.52	490.62	490.67	1.60	-1.60	-0.74	
7360.00	6.51	80.08	7332.49	14.42	501.01	501.14	0.22	-0.18	1.05	
7454.00	6.60	82.89	7425.87	16.01	511.62	511.81	0.35	0.10	2.99	
7547.00	6.16	87.28	7518.30	16.91	521.91	522.13	0.71	-0.47	4.72	
7641.00	6.68	86.41	7611.71	17.49	532.40	532.64	0.56	0.55	-0.93	
7733.00	6.77	82.98	7703.07	18.49	543.12	543.39	0.45	0.10	-3.73	
7825.00	4.84	83.50	7794.60	19.59	552.36	552.67	2.10	-2.10	0.57	
7918.00	5.28	86.23	7887.24	20.32	560.53	560.87	0.54	0.47	2.94	
7980.00	5.54	87.28	7948.96	20.65	566.37	566.71	0.45	0.42	1.69	
8042.00	5.80	83.77	8010.66	21.13	572.47	572.83	0.70	0.42	-5.66	
8104.00	6.24	85.79	8072.31	21.72	578.95	579.33	0.79	0.71	3.26	
8227.00	8.00	87.72	8194.36	22.55	594.17	594.57	1.44	1.43	1.57	
8289.00	8.00	83.94	8255.76	23.17	602.77	603.19	0.85	0.00	-6.10	
8350.00	7.21	76.30	8316.22	24.53	610.71	611.19	2.10	-1.30	-12.52	
8476.00	8.62	80.78	8441.02	27.91	627.71	628.33	1.22	1.12	3.56	
8599.00	7.39	90.27	8562.82	29.35	644.72	645.39	1.46	-1.00	7.72	
8662.00	6.68	88.16	8625.35	29.45	652.43	653.10	1.20	-1.13	-3.35	
8754.00	6.33	85.44	8716.76	30.03	662.84	663.52	0.51	-0.38	-2.96	
8848.00	4.57	85.88	8810.33	30.71	671.74	672.44	1.87	-1.87	0.47	
8941.00	2.90	82.45	8903.13	31.28	677.77	678.49	1.81	-1.80	-3.69	
9002.00	2.73	82.36	8964.05	31.68	680.74	681.47	0.28	-0.28	-0.15	
9097.00	1.67	77.09	9058.98	32.29	684.33	685.09	1.13	-1.12	-5.55	
9189.00	1.32	91.42	9150.95	32.56	686.70	687.47	0.55	-0.38	15.58	
9283.00	0.97	109.08	9244.93	32.28	688.53	689.29	0.52	-0.37	18.79	
9375.00	0.79	119.36	9336.92	31.71	689.82	690.55	0.26	-0.20	11.17	
9467.00	0.79	179.13	9428.92	30.77	690.38	691.06	0.86	0.00	64.97	
9560.00	1.23	189.41	9521.90	29.14	690.23	690.83	0.51	0.47	11.05	
9652.00	0.35	187.22	9613.89	27.89	690.03	690.58	0.96	-0.96	-2.38	
9746.00	0.62	241.01	9707.89	27.36	689.55	690.07	0.53	0.29	57.22	
9839.00	1.06	250.85	9800.88	26.83	688.30	688.80	0.50	0.47	10.58	
9933.00	0.62	205.41	9894.87	26.09	687.26	687.73	0.81	-0.47	-48.34	
10025.00	0.35	111.19	9986.87	25.53	687.31	687.75	0.80	-0.29	-102.41	
10120.00	0.18	174.03	10081.87	25.28	687.59	688.02	0.33	-0.18	66.15	
10213.00	0.70	260.25	10174.86	25.04	687.05	687.47	0.76	0.56	92.71	
10306.00	0.97	265.88	10267.85	24.89	685.70	686.12	0.30	0.29	6.05	
10399.00	0.70	27.17	10360.85	25.34	685.18	685.61	1.57	-0.29	130.42	
10493.00	0.79	344.63	10454.84	26.47	685.27	685.75	0.58	0.10	-45.26	
10555.00	0.62	325.38	10516.84	27.16	684.96	685.48	0.47	-0.27	-31.05	
10648.00	0.88	312.46	10609.83	28.06	684.15	684.71	0.33	0.28	-13.89	
10743.00	0.62	2.82	10704.82	29.06	683.64	684.25	0.72	-0.27	53.01	
10805.00	0.79	341.82	10766.82	29.80	683.52	684.17	0.49	0.27	-33.87	
10898.00	1.06	93.88	10859.81	30.35	684.18	684.85	1.66	0.29	120.49	
10990.00	0.26	78.41	10951.80	30.34	685.23	685.90	0.88	-0.87	-16.82	
11083.00	0.26	197.24	11044.80	30.18	685.38	686.04	0.48	0.00	127.77	
11178.00	0.88	253.93	11139.80	29.77	684.61	685.25	0.81	0.65	59.67	

PathFinder
Survey Report

Company: Edge Petroleum Operating Compa	Date: 9/22/2004	Time: 10:25:14	Page: 3
Field: South Lusk 34 Federal #1	Co-ordinate(NE) Reference:	Site: South Lusk 34 Federal #1	
Site: South Lusk 34 Federal #1	Vertical (TVD) Reference:	SITE 0.0	
Well: South Lusk Federal #1	Section (VS) Reference:	Well (0.00N,0.00E,87.32Azi)	
Wellpath: South Lusk Federal #1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: PathFinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
11272.00	0.26	348.14	11233.79	29.78	683.87	684.52	1.00	-0.66	100.22	
11394.00	0.79	58.02	11355.79	30.50	684.53	685.21	0.61	0.43	57.28	
11487.00	1.06	31.91	11448.78	31.57	685.53	686.25	0.53	0.29	-28.08	
11548.00	1.06	10.82	11509.77	32.60	685.93	686.71	0.64	0.00	-34.57	
11641.00	1.49	106.97	11602.75	33.09	687.25	688.05	2.06	0.46	103.39	
11734.00	1.23	105.74	11695.73	32.47	689.37	690.13	0.28	-0.28	-1.32	
11829.00	1.14	122.00	11790.71	31.69	691.15	691.88	0.37	-0.09	17.12	
11921.00	0.79	136.33	11882.69	30.75	692.37	693.05	0.46	-0.38	15.58	
12016.00	0.88	169.90	11977.68	29.55	692.95	693.57	0.52	0.09	35.34	
12109.00	0.88	210.00	12070.67	28.23	692.71	693.28	0.65	0.00	43.12	
12201.00	1.06	219.12	12162.66	26.96	691.82	692.33	0.26	0.20	9.91	
12299.00	0.70	330.21	12260.65	26.78	690.95	691.45	1.50	-0.37	113.36	
12392.00	1.06	304.55	12353.64	27.76	689.96	690.51	0.56	0.39	-27.59	
12485.00	0.70	292.16	12446.63	28.46	688.73	689.31	0.44	-0.39	-13.32	
12546.00	1.06	286.01	12507.62	28.76	687.84	688.43	0.61	0.59	-10.08	
12638.00	1.06	179.57	12599.62	28.14	687.03	687.59	1.85	0.00	-115.70	
12700.00	1.23	196.53	12661.60	26.93	686.84	687.35	0.61	0.27	27.35	
12793.00	0.53	312.55	12754.60	26.26	686.24	686.72	1.65	-0.75	124.75	
12887.00	0.62	265.26	12848.59	26.51	685.42	685.91	0.50	0.10	-50.31	
12979.00	0.62	256.12	12940.59	26.35	684.44	684.92	0.11	0.00	-9.93	
13072.00	1.06	241.62	13033.58	25.82	683.19	683.65	0.52	0.47	-15.59	
13130.00	1.58	218.68	13091.56	24.95	682.22	682.64	1.26	0.90	-39.55	
13180.00	1.58	218.68	13141.54	23.87	681.36	681.73	0.00	0.00	0.00	

$$\begin{array}{r} 1530 \\ - 24 \\ \hline 1506 \text{ FNL} \end{array}$$

$$\begin{array}{r} 40' \\ 681' \\ \hline 721' \text{ FWL} \end{array}$$