



DIRECTIONAL, INC.

MARKSMEN DIRECTIONAL, INC.

OPERATOR: **ENDURING RESORUCES, LLC**
 WELL: **University 09 #0905 ST**
 LOCATION: **Reagan County, Texas**
 Rig: **Ensign 765**

START: _____
 FINISH: _____
 DIR. DRILLER: _____
 CO. REP.: _____

1ST TARGET TVD **8270.34**Vertical Sect. Az. **181.16**DIP DEG **-0.04**

2ND TARGET TVD _____

DIP AZ _____

DIP DEG _____

TIE-IN SURVEY PROVIDED BY: _____

Comments: **Directional by Marksmen Directional**DECLINATION (+E / -W): **6.4****Grid Conv.****MINIMUM CURVATURE CALCULATIONS(SPE-3362)**

*****Survey Input*****

PROPOSED DIR.: **181.16**

1ST TARGET TVD _____
 TVD TO TARGET _____
 525.00 RIGHT (+)
 LEFT (-)

Survey	No.	Measured Depth	INC	TRUE AZM	TVD	North + - South	East + - West	Vertical Section	DLS/ 100	1ST TARGET TVD	TVD TO TARGET	525.00 RIGHT (+) LEFT (-)
Tie in		0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8270.3	8270.3	0.00
GYRO		100.0	0.91	80.69	100.00	0.13	0.78	-0.14	0.91	8270.3	8170.3	-0.78
GYRO		200.0	0.87	71.35	199.98	0.50	2.29	-0.55	0.15	8270.3	8070.4	-2.28
GYRO		300.0	0.74	65.86	299.97	1.01	3.60	-1.08	0.15	8270.3	7970.4	-3.57
GYRO		400.0	0.52	42.69	399.97	1.60	4.49	-1.69	0.33	8270.3	7870.4	-4.46
GYRO		500.0	0.87	53.24	499.96	2.39	5.41	-2.50	0.37	8270.3	7770.4	-5.36
GYRO		560.0	1.02	71.39	559.95	2.84	6.28	-2.96	0.55	8270.3	7710.4	-6.22
1		592.0	1.00	81.50	591.95	2.97	6.83	-3.10	0.56	8270.3	7678.4	-6.76
2		682.0	1.90	10.80	681.92	4.55	7.88	-4.71	2.03	8270.3	7588.4	-7.79
3		772.0	3.70	357.00	771.81	8.92	8.01	-9.08	2.12	8270.3	7498.5	-7.83
4		863.0	4.90	339.00	862.56	15.48	6.46	-15.60	1.97	8270.3	7407.8	-6.15
5		953.0	5.30	316.40	952.21	22.08	2.22	-22.12	2.26	8270.3	7318.1	-1.77
6		1043.0	5.10	289.80	1041.85	26.44	-4.41	-26.35	2.66	8270.3	7228.5	4.95
7		1133.0	4.70	286.00	1131.53	28.81	-11.72	-28.57	0.57	8270.3	7138.8	12.30
8		1224.0	4.60	288.50	1222.23	31.00	-18.77	-30.61	0.25	8270.3	7048.1	19.39
9		1314.0	5.00	283.50	1311.91	33.06	-26.00	-32.53	0.64	8270.3	6958.4	26.67
10		1404.0	5.40	275.90	1401.54	34.41	-34.03	-33.71	0.88	8270.3	6868.8	34.72
11		1495.0	4.40	270.20	1492.21	34.86	-41.78	-34.01	1.22	8270.3	6778.1	42.48
12		1585.0	4.70	267.30	1581.92	34.70	-48.91	-33.70	0.42	8270.3	6688.4	49.61
13		1676.0	4.40	266.20	1672.64	34.29	-56.12	-33.15	0.34	8270.3	6597.7	56.80
14		1766.0	4.40	263.00	1762.37	33.64	-62.99	-32.36	0.27	8270.3	6507.9	63.66
15		1856.0	4.70	263.80	1852.09	32.82	-70.08	-31.40	0.34	8270.3	6418.2	70.73
16		1946.0	4.70	261.70	1941.79	31.89	-77.40	-30.32	0.19	8270.3	6328.5	78.03
17		2036.0	4.50	256.90	2031.50	30.56	-84.49	-28.85	0.48	8270.3	6238.8	85.09
18		2127.0	4.60	268.70	2122.21	29.67	-91.61	-27.81	1.03	8270.3	6148.1	92.19
19		2217.0	4.40	268.90	2211.93	29.52	-98.67	-27.52	0.22	8270.3	6058.4	99.25
20		2307.0	4.60	272.30	2301.66	29.60	-105.73	-27.45	0.37	8270.3	5968.7	106.31
21		2398.0	4.60	270.20	2392.36	29.76	-113.02	-27.47	0.19	8270.3	5878.0	113.60
22		2488.0	4.70	271.50	2482.07	29.87	-120.32	-27.43	0.16	8270.3	5788.3	120.90
23		2579.0	4.50	268.10	2572.77	29.85	-127.61	-27.26	0.37	8270.3	5697.5	128.19
24		2669.0	4.30	268.80	2662.51	29.66	-134.52	-26.93	0.23	8270.3	5607.8	135.09
25		2760.0	4.20	269.90	2753.26	29.58	-141.26	-26.72	0.14	8270.3	5517.1	141.83
26		2850.0	4.00	266.60	2843.03	29.39	-147.69	-26.40	0.34	8270.3	5427.3	148.25
27		2940.0	4.10	268.40	2932.80	29.12	-154.04	-25.99	0.18	8270.3	5337.5	154.60
28		3031.0	4.00	269.20	3023.58	28.98	-160.46	-25.73	0.13	8270.3	5246.7	161.02
29		3121.0	4.40	266.50	3113.34	28.73	-167.05	-25.34	0.50	8270.3	5157.0	167.60
30		3212.0	4.20	269.20	3204.08	28.47	-173.86	-24.94	0.31	8270.3	5066.2	174.40
31		3302.0	4.30	272.30	3293.83	28.56	-180.53	-24.89	0.28	8270.3	4976.5	181.07
32		3393.0	4.00	273.20	3384.59	28.87	-187.11	-25.08	0.34	8270.3	4885.7	187.65
33		3483.0	4.50	274.10	3474.35	29.30	-193.76	-25.37	0.56	8270.3	4796.0	194.32
34		3573.0	4.50	272.00	3564.07	29.67	-200.81	-25.60	0.18	8270.3	4706.3	201.37
35		3664.0	4.70	271.70	3654.77	29.91	-208.11	-25.69	0.22	8270.3	4615.5	208.67
36		3754.0	4.80	273.20	3744.47	30.23	-215.55	-25.86	0.18	8270.3	4525.9	216.12
37		3844.0	4.50	273.50	3834.17	30.65	-222.84	-26.14	0.33	8270.3	4436.2	223.41
38		3934.0	4.40	273.90	3923.90	31.10	-229.81	-26.44	0.12	8270.3	4346.4	230.39



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WELL: University 09 #0905 ST
LOCATION: Reagan County, Texas
Rig: Ensign 765

START:
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DIR. DRILLER:
CO. REP.:

1ST TARGET TVD 8270.34
Vertical Sect. Az. 181.16
DIP DEG -0.04
2ND TARGET TVD
DIP AZ
DIP DEG

TIE-IN SURVEY PROVIDED BY:

Comments: Directional by Marksmen Directional

DECLINATION (+E / -W): 6.4
Grid Conv.

MINIMUM CURVATURE CALCULATIONS(SPE-3362)

*****Survey Input*****

PROPOSED DIR.: 181.16

1ST TARGET TVD 8270.3 TVD TO TARGET 4255.7 525.00 RIGHT (+) LEFT (-)

Survey	Measured	INC	TRUE	TVD	North +	East +	Vertical	DLS/			
	No.		Depth		AZM	- South	- West	Section			
39	4025.0	4.10	275.80	4014.65	31.67	-236.53	-26.87	0.36	8270.3	4255.7	237.12
40	4115.0	3.90	274.50	4104.43	32.23	-242.78	-27.31	0.24	8270.3	4165.9	243.38
41	4206.0	3.90	272.40	4195.22	32.61	-248.95	-27.56	0.16	8270.3	4075.1	249.56
42	4296.0	3.50	268.80	4285.03	32.68	-254.76	-27.51	0.51	8270.3	3985.3	255.37
43	4386.0	4.10	270.90	4374.83	32.67	-260.72	-27.39	0.68	8270.3	3895.5	261.33
44	4476.0	4.30	275.80	4464.59	33.06	-267.30	-27.64	0.46	8270.3	3805.7	267.91
45	4567.0	4.00	276.70	4555.35	33.78	-273.84	-28.23	0.34	8270.3	3715.0	274.47
46	4657.0	4.20	279.60	4645.12	34.69	-280.21	-29.01	0.32	8270.3	3625.2	280.86
47	4747.0	4.20	281.10	4734.88	35.88	-286.69	-30.07	0.12	8270.3	3535.4	287.36
48	4928.0	4.00	275.20	4915.42	37.73	-299.49	-31.65	0.26	8270.3	3354.9	300.19
49	5018.0	4.00	279.00	5005.20	38.50	-305.71	-32.30	0.29	8270.3	3265.1	306.43
50	5199.0	3.60	287.00	5185.80	41.15	-317.38	-34.72	0.37	8270.3	3084.5	318.15
51	5380.0	3.10	294.00	5366.49	44.80	-327.29	-38.17	0.36	8270.3	2903.8	328.13
52	5561.0	2.20	292.10	5547.30	48.10	-334.98	-41.31	0.50	8270.3	2723.0	335.88
53 Tie In	5742.0	1.80	265.20	5728.19	49.17	-341.03	-42.26	0.56	8270.3	2542.1	341.95
54 ST surveys	5777.0	1.70	270.00	5763.17	49.12	-342.10	-42.19	0.51	8270.3	2507.1	343.02
55	5852.0	0.90	280.00	5838.15	49.23	-343.79	-42.26	1.10	8270.3	2432.2	344.71
56	5883.0	1.00	286.00	5869.15	49.34	-344.29	-42.36	0.45	8270.3	2401.2	345.22
57	5946.0	0.40	116.30	5932.15	49.40	-344.62	-42.41	2.21	8270.3	2338.2	345.55
58	5978.0	0.60	104.20	5964.15	49.31	-344.36	-42.32	0.70	8270.3	2306.2	345.28
60	6072.0	4.30	226.10	6058.06	46.74	-346.42	-39.72	4.94	8270.3	2212.2	347.29
61	6166.0	5.10	231.30	6151.75	41.68	-352.22	-34.55	0.96	8270.3	2118.6	352.99
62	6260.0	4.30	228.30	6245.43	36.73	-358.11	-29.47	0.89	8270.3	2024.9	358.78
63	6354.0	4.80	243.80	6339.14	32.65	-364.27	-25.27	1.41	8270.3	1931.2	364.86
64	6448.0	5.00	251.40	6432.79	29.60	-371.68	-22.07	0.72	8270.3	1837.5	372.21
65	6542.0	4.00	245.90	6526.50	26.96	-378.56	-19.29	1.16	8270.3	1743.8	379.03
66	6636.0	4.90	248.30	6620.22	24.14	-385.28	-16.33	0.98	8270.3	1650.1	385.69
67	6730.0	4.90	251.40	6713.88	21.37	-392.82	-13.41	0.28	8270.3	1556.5	393.17
68	6825.0	4.60	250.40	6808.55	18.80	-400.25	-10.69	0.33	8270.3	1461.8	400.55
69	6919.0	5.40	253.90	6902.19	16.31	-408.05	-8.04	0.91	8270.3	1368.1	408.30
70	7013.0	4.90	253.30	6995.81	13.93	-416.15	-5.50	0.53	8270.3	1274.5	416.34
71	7107.0	5.80	253.00	7089.40	11.38	-424.53	-2.79	0.96	8270.3	1180.9	424.68
72	7201.0	4.90	250.10	7182.99	8.63	-432.85	0.14	1.00	8270.3	1087.3	432.94
73	7296.0	5.00	254.60	7277.64	6.15	-440.66	2.77	0.42	8270.3	992.7	440.69
74	7390.0	5.10	257.00	7371.27	4.12	-448.68	4.96	0.25	8270.3	899.1	448.67
75	7484.0	3.80	257.00	7464.99	2.48	-455.78	6.75	1.38	8270.3	805.4	455.74
76	7579.0	5.50	263.30	7559.67	1.24	-463.37	8.14	1.87	8270.3	710.7	463.30
77	7673.0	7.20	261.10	7653.09	-0.20	-473.67	9.78	1.83	8270.3	617.3	473.57
78	7704.0	7.20	259.70	7683.85	-0.84	-477.50	10.51	0.57	8270.3	586.5	477.38
79	7736.0	9.00	248.30	7715.53	-2.13	-481.80	11.88	7.51	8270.3	554.8	481.66
80	7767.0	11.20	236.30	7746.05	-4.70	-486.56	14.54	9.78	8270.4	524.3	486.36
81	7798.0	12.70	223.70	7776.38	-8.83	-491.42	18.78	9.68	8270.4	494.0	491.14
82	7830.0	14.20	211.20	7807.51	-14.73	-495.88	24.77	10.20	8270.4	462.8	495.48
83	7861.0	16.40	205.30	7837.41	-21.94	-499.72	32.05	8.69	8270.4	433.0	499.17
84	7892.0	18.80	199.80	7866.96	-30.60	-503.28	40.78	9.41	8270.4	403.4	502.56



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 WELL: **University 09 #0905 ST**
 LOCATION: **Reagan County, Texas**
 Rig: **Ensign 765**

START: _____
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1ST TARGET TVD **8270.34**Vertical Sect. Az. **181.16**DIP DEG **-0.04**

2ND TARGET TVD _____

DIP AZ _____

DIP DEG _____

TIE-IN SURVEY PROVIDED BY: _____

Comments: **Directional by Marksmen Directional**DECLINATION (+E / -W): **6.4****Grid Conv.****MINIMUM CURVATURE CALCULATIONS(SPE-3362)**

*****Survey Input*****

PROPOSED DIR.: **181.16**

1ST TARGET TVD	TVD TO TARGET	525.00 RIGHT (+) LEFT (-)
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Survey	No.	Measured Depth	INC	TRUE AZM	TVD	North + - South	East + - West	Vertical Section	DLS/ 100	1ST TARGET TVD	TVD TO TARGET	525.00 RIGHT (+) LEFT (-)
85		7924.0	20.90	194.90	7897.06	-40.97	-506.50	51.22	8.37	8270.4	373.3	505.57
86		7955.0	23.20	192.10	7925.79	-52.29	-509.20	62.58	8.16	8270.4	344.6	508.04
87		7987.0	25.70	188.20	7954.92	-65.32	-511.51	75.66	9.30	8270.4	315.5	510.09
88		8018.0	28.00	184.90	7982.58	-79.23	-513.09	89.60	8.84	8270.4	287.8	511.38
89		8049.0	30.50	183.10	8009.62	-94.33	-514.14	104.72	8.55	8270.4	260.8	512.13
90		8081.0	34.10	181.70	8036.67	-111.41	-514.85	121.81	11.49	8270.4	233.8	512.49
91		8112.0	38.10	180.30	8061.71	-129.67	-515.15	140.07	13.17	8270.4	208.7	512.42
92		8143.0	42.00	179.10	8085.44	-149.61	-515.04	160.01	12.82	8270.5	185.0	511.91
93		8174.0	45.80	178.80	8107.77	-171.10	-514.65	181.49	12.28	8270.5	162.7	511.08
94		8206.0	49.10	179.30	8129.41	-194.67	-514.26	205.04	10.38	8270.5	141.1	510.21
95		8237.0	52.00	179.60	8149.10	-218.60	-514.03	228.96	9.38	8270.5	121.4	509.50
96		8268.0	55.30	179.80	8167.47	-243.57	-513.90	253.92	10.66	8270.5	103.0	508.86
97		8300.0	58.10	179.80	8185.04	-270.31	-513.81	280.66	8.75	8270.5	85.5	508.23
98		8331.0	60.70	180.70	8200.82	-296.99	-513.93	307.33	8.75	8270.6	69.7	507.81
99		8362.0	64.00	182.60	8215.20	-324.43	-514.72	334.79	11.95	8270.6	55.4	508.05
100		8394.0	67.90	183.50	8228.24	-353.61	-516.28	363.99	12.46	8270.6	42.4	509.02
101		8425.0	70.80	183.30	8239.18	-382.56	-518.00	392.97	9.37	8270.6	31.4	510.15
102		8457.0	75.10	182.40	8248.56	-413.11	-519.52	423.54	13.70	8270.6	22.1	511.05
103		8488.0	78.50	181.90	8255.63	-443.26	-520.65	453.71	11.08	8270.7	15.0	511.57
104		8519.0	81.80	182.00	8260.94	-473.79	-521.69	484.25	10.65	8270.7	9.7	511.99
105		8551.0	85.80	181.50	8264.39	-505.58	-522.66	516.05	12.60	8270.7	6.3	512.32
106		8582.0	90.10	182.00	8265.50	-536.54	-523.61	547.03	13.96	8270.7	5.2	512.64
107		8676.0	91.50	183.30	8264.19	-630.42	-527.95	640.98	2.03	8270.8	6.6	515.08
108		8770.0	90.80	182.00	8262.30	-724.30	-532.30	734.93	1.57	8270.9	8.6	517.52
109		8864.0	90.40	182.80	8261.32	-818.21	-536.23	828.90	0.95	8270.9	9.6	519.56
110		8959.0	88.20	182.70	8262.48	-913.09	-540.79	923.85	2.32	8271.0	8.5	522.19
111		9052.0	88.70	182.00	8264.99	-1005.98	-544.60	1016.79	0.92	8271.0	6.1	524.12
112		9146.0	89.10	183.40	8266.80	-1099.85	-549.03	1110.74	1.55	8271.1	4.3	526.65
113		9241.0	89.30	182.40	8268.12	-1194.72	-553.83	1205.69	1.07	8271.2	3.1	529.53
114		9335.0	90.90	185.30	8267.96	-1288.49	-560.14	1299.57	3.52	8271.2	3.3	533.95
115		9429.0	88.90	182.70	8268.12	-1382.25	-566.70	1393.44	3.49	8271.3	3.2	538.60
116		9523.0	88.50	180.80	8270.26	-1476.18	-569.57	1487.41	2.07	8271.4	1.1	539.57
117		9617.0	89.80	183.00	8271.65	-1570.11	-572.69	1581.38	2.72	8271.4	-0.2	540.78
118		9711.0	88.50	180.30	8273.05	-1664.05	-575.39	1675.36	3.19	8271.5	-1.5	541.59
119		9805.0	89.40	180.40	8274.77	-1758.03	-575.97	1769.33	0.96	8271.6	-3.2	540.26
120		9899.0	90.80	182.50	8274.60	-1851.99	-578.35	1863.32	2.68	8271.6	-3.0	540.73
121		9993.0	90.10	180.10	8273.87	-1945.96	-580.48	1957.31	2.66	8271.7	-2.2	540.96
122		10087.0	90.20	179.60	8273.62	-2039.96	-580.23	2051.29	0.54	8271.8	-1.8	538.82
123		10181.0	90.20	178.30	8273.29	-2133.94	-578.51	2145.21	1.38	8271.8	-1.5	535.19
124		10274.0	90.20	178.90	8272.97	-2226.91	-576.24	2238.12	0.65	8271.9	-1.1	531.04
125		10368.0	90.30	178.70	8272.56	-2320.89	-574.27	2332.04	0.24	8272.0	-0.6	527.17
126		10463.0	89.50	177.80	8272.72	-2415.84	-571.37	2426.91	1.27	8272.0	-0.7	522.34
127		10557.0	89.90	178.40	8273.21	-2509.79	-568.25	2520.78	0.77	8272.1	-1.1	517.33
128		10651.0	90.20	178.60	8273.13	-2603.76	-565.79	2614.68	0.38	8272.2	-1.0	512.96
129		10745.0	90.90	180.20	8272.23	-2697.74	-564.81	2708.63	1.86	8272.2	0.0	510.08



MARKSMEN DIRECTIONAL, INC.

OPERATOR: ENDURING RESORUCES, LLC
WELL: University 09 #0905 ST
LOCATION: Reagan County, Texas
Rig: Ensign 765

START:
FINISH:
DIR. DRILLER:
CO. REP.:

1ST TARGET TVD 8270.34
Vertical Sect. Az. 181.16
DIP DEG -0.04
2ND TARGET TVD
DIP AZ
DIP DEG

TIE-IN SURVEY PROVIDED BY:

Comments: Directional by Marksmen Directional

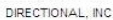
DECLINATION (+E / -W): 6.4
Grid Conv.

MINIMUM CURVATURE CALCULATIONS(SPE-3362)

*****Survey Input*****

PROPOSED DIR.: 181.16

MINIMUM CURVATURE CALCULATIONS(SPE-3362)										1ST	TVD	525.00
*****Survey Input*****										TARGET	TO	RIGHT (+)
Survey	Measured		TRUE		North +	East +	Vertical	DLS/	TVD	TARGET	LEFT (-)	
	No.	Depth	INC	AZM	- South	- West	Section	100				
130		10840.0	90.90	178.70	8270.74	-2792.73	-563.89	2803.57	1.58	8272.3	1.6	507.24
131		10934.0	89.80	179.50	8270.16	-2886.71	-562.42	2897.50	1.45	8272.4	2.2	503.86
132		11028.0	89.50	181.00	8270.74	-2980.70	-562.83	2991.49	1.63	8272.4	1.7	502.37
133		11122.0	89.90	181.40	8271.23	-3074.68	-564.80	3085.49	0.60	8272.5	1.3	502.44
134		11216.0	90.80	182.20	8270.66	-3168.63	-567.75	3179.48	1.28	8272.6	1.9	503.49
135		11310.0	91.40	182.40	8268.85	-3262.54	-571.52	3273.44	0.67	8272.6	3.8	505.36
136		11404.0	89.70	181.30	8267.95	-3356.48	-574.56	3367.42	2.15	8272.7	4.7	506.49
137		11498.0	89.80	182.30	8268.36	-3450.43	-577.51	3461.42	1.07	8272.8	4.4	507.54
138		11592.0	90.40	183.40	8268.20	-3544.31	-582.18	3555.37	1.33	8272.8	4.6	510.31
139		11687.0	88.00	179.50	8269.52	-3639.25	-584.59	3650.34	4.82	8272.9	3.4	510.79
140		11781.0	87.50	179.50	8273.21	-3733.17	-583.77	3744.23	0.53	8273.0	-0.3	508.07
141		11875.0	88.50	179.70	8276.49	-3827.11	-583.11	3838.13	1.08	8273.0	-3.5	505.51
142		11969.0	88.70	179.70	8278.79	-3921.08	-582.62	3932.07	0.21	8273.1	-5.7	503.12
143		12063.0	90.00	180.80	8279.86	-4015.07	-583.03	4026.05	1.81	8273.2	-6.7	501.63
144		12157.0	90.60	181.70	8279.36	-4109.05	-585.08	4120.05	1.15	8273.2	-6.1	501.77
145		12251.0	91.20	182.30	8277.89	-4202.98	-588.36	4214.03	0.90	8273.3	-4.6	503.15
146		12346.0	91.50	181.90	8275.65	-4297.89	-591.84	4308.99	0.53	8273.3	-2.3	504.71
147		12440.0	92.20	182.30	8272.61	-4391.77	-595.28	4402.92	0.86	8273.4	0.8	506.25
148		12534.0	90.70	182.10	8270.24	-4485.67	-598.89	4496.88	1.61	8273.5	3.2	507.96
149		12628.0	89.50	179.70	8270.07	-4579.65	-600.37	4590.87	2.85	8273.5	3.5	507.53
150		12722.0	90.10	179.70	8270.40	-4673.65	-599.87	4684.84	0.64	8273.6	3.2	505.13
151		12816.0	90.10	180.60	8270.24	-4767.65	-600.12	4778.82	0.96	8273.7	3.4	503.48
152		12910.0	90.00	180.50	8270.15	-4861.64	-601.02	4872.81	0.15	8273.7	3.6	502.48
153		13005.0	90.00	179.70	8270.15	-4956.64	-601.19	4967.80	0.84	8273.8	3.7	500.72
154		13099.0	89.30	179.80	8270.73	-5050.64	-600.78	5061.77	0.75	8273.9	3.1	498.41
155		13193.0	90.30	182.40	8271.06	-5144.61	-602.58	5155.76	2.96	8273.9	2.9	498.31
156		13287.0	90.50	182.10	8270.40	-5238.54	-606.27	5249.74	0.38	8274.0	3.6	500.10
157		13381.0	90.30	182.00	8269.74	-5332.47	-609.63	5343.72	0.24	8274.1	4.3	501.56
158		13475.0	91.00	182.40	8268.68	-5426.40	-613.24	5437.70	0.86	8274.1	5.5	503.26
159		13570.0	90.20	183.80	8267.68	-5521.25	-618.38	5532.64	1.70	8274.2	6.5	506.48
160		13664.0	90.20	182.90	8267.35	-5615.09	-623.87	5626.57	0.96	8274.3	6.9	510.07
161		13758.0	89.80	183.20	8267.35	-5708.96	-628.87	5720.52	0.53	8274.3	7.0	513.17
162		13852.0	89.80	182.80	8267.68	-5802.83	-633.79	5814.47	0.43	8274.4	6.7	516.19
163		13946.0	90.60	184.10	8267.35	-5896.65	-639.45	5908.39	1.62	8274.5	7.1	519.94
164		14041.0	88.70	183.90	8267.93	-5991.41	-646.08	6003.27	2.01	8274.5	6.6	524.65
165		14135.0	88.40	183.30	8270.31	-6085.20	-651.98	6097.15	0.71	8274.6	4.3	528.65
165		14229.0	88.20	182.30	8273.10	-6179.04	-656.57	6191.07	1.08	8274.7	1.6	531.34
166		14324.0	88.60	182.60	8275.75	-6273.92	-660.63	6286.01	0.53	8274.7	-1.0	533.48
167		14418.0	89.10	181.30	8277.64	-6367.84	-663.82	6379.98	1.48	8274.8	-2.8	534.77
168		14512.0	89.70	181.30	8278.63	-6461.81	-665.96	6473.97	0.64	8274.9	-3.8	535.00
169		14606.0	90.20	181.60	8278.71	-6555.78	-668.33	6567.97	0.62	8274.9	-3.8	535.48
170		14700.0	90.90	181.70	8277.81	-6649.74	-671.04	6661.96	0.75	8275.0	-2.8	536.28
171		14795.0	91.80	182.20	8275.57	-6744.66	-674.27	6756.92	1.08	8275.1	-0.5	537.59
172		14889.0	90.50	181.80	8273.68	-6838.58	-677.55	6850.89	1.45	8275.1	1.4	538.97
173		14983.0	91.10	181.10	8272.37	-6932.54	-679.93	6944.88	0.98	8275.2	2.8	539.45



OPERATOR:	ENDURING RESORUCES, LLC
WELL:	University 09 #0905 ST
LOCATION:	Reagan County, Texas
Rig:	Ensign 765

START: _____
FINISH: _____
DIR. DRILLER _____
CO. REP. _____

Comments: Directional by Marksmen Directional

DECLINATION (+E / -W): 6.4
Grid Conv.

DIP DEG	
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PROPOSED DIR.: 181.16

*****Survey Input*****

Survey	Measured	TRUE			North +	East +	Vertical	DLS/			
	No.	Depth	INC	AZM	TVD	- South	- West	Section	100		
174	15076.0	89.40	181.10	8271.96	-7025.52	-681.72	7037.88	1.83	8275.3	3.3	539.35
175	15170.0	88.90	180.10	8273.36	-7119.50	-682.70	7131.86	1.19	8275.3	2.0	538.43
176	15264.0	90.30	181.90	8274.01	-7213.48	-684.34	7225.85	2.43	8275.4	1.4	538.17
177	15358.0	90.30	181.30	8273.52	-7307.44	-686.97	7319.85	0.64	8275.5	1.9	538.89
178	15452.0	89.50	179.40	8273.69	-7401.43	-687.54	7413.83	2.19	8275.5	1.8	537.56
179	15546.0	89.70	179.40	8274.34	-7495.42	-686.56	7507.79	0.21	8275.6	1.2	534.67
180	15640.0	90.50	179.40	8274.18	-7589.42	-685.57	7601.74	0.85	8275.6	1.5	531.79
181	15734.0	89.80	177.60	8273.93	-7683.38	-683.11	7695.64	2.05	8275.7	1.8	527.42
182	15828.0	89.60	176.40	8274.42	-7777.25	-678.19	7789.38	1.29	8275.8	1.4	520.61
183	15922.0	90.20	179.50	8274.59	-7871.18	-674.83	7883.23	3.36	8275.8	1.3	515.34
184	16016.0	90.20	177.70	8274.26	-7965.14	-672.53	7977.13	1.91	8275.9	1.6	511.15
185	16110.0	89.90	177.30	8274.18	-8059.05	-668.43	8070.94	0.53	8276.0	1.8	505.14
186	16204.0	89.70	178.10	8274.51	-8152.98	-664.66	8164.76	0.88	8276.0	1.5	499.47
187	16298.0	89.80	178.00	8274.92	-8246.92	-661.46	8258.62	0.15	8276.1	1.2	494.37
188	16392.0	90.00	178.60	8275.08	-8340.88	-658.67	8352.51	0.67	8276.2	1.1	489.68
189	16486.0	90.10	179.90	8275.00	-8434.87	-657.44	8446.45	1.39	8276.2	1.2	486.55
190	16580.0	90.50	182.40	8274.51	-8528.84	-659.33	8540.44	2.69	8276.3	1.8	486.53
191	16674.0	90.30	183.50	8273.85	-8622.71	-664.17	8634.39	1.19	8276.4	2.5	489.47
192	16768.0	90.10	184.80	8273.52	-8716.46	-670.97	8728.26	1.40	8276.4	2.9	494.37
193	16862.0	90.30	184.80	8273.19	-8810.13	-678.83	8822.07	0.21	8276.5	3.3	500.34
194	16956.0	91.20	185.40	8271.96	-8903.75	-687.19	8915.84	1.15	8276.6	4.6	506.80
195	17050.0	90.20	186.80	8270.81	-8997.21	-697.18	9009.48	1.83	8276.6	5.8	514.89
196	17144.0	89.20	186.90	8271.31	-9090.54	-708.39	9103.01	1.07	8276.7	5.4	524.21
197	17238.0	87.10	183.90	8274.34	-9184.05	-717.23	9196.69	3.89	8276.8	2.4	531.16
198	17332.0	89.00	183.60	8277.54	-9277.79	-723.37	9290.54	2.05	8276.8	-0.7	535.40
199	17426.0	89.00	184.00	8279.18	-9371.57	-729.60	9384.42	0.43	8276.9	-2.3	539.73
200	17520.0	89.30	184.00	8280.57	-9465.33	-736.16	9478.30	0.32	8277.0	-3.6	544.39
201	17613.0	90.30	185.30	8280.90	-9558.02	-743.70	9571.12	1.76	8277.0	-3.9	550.05
202	17708.0	91.00	185.20	8279.82	-9652.62	-752.39	9665.87	0.74	8277.1	-2.7	556.82
203	17802.0	90.00	184.20	8279.00	-9746.30	-760.09	9759.69	1.50	8277.2	-1.8	562.63
204	17895.0	90.10	184.00	8278.92	-9839.06	-766.74	9852.56	0.24	8277.2	-1.7	567.40
205	17958.0	89.70	183.50	8279.03	-9901.92	-770.86	9915.50	1.02	8277.3	-1.8	570.24
TDPJ	18150.0	89.70	183.50	8280.04	-10093.56	-782.58	10107.34	0.00	8277.4	-2.6	578.08
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
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									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
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									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22
									8269.4	8269.4	107.22



MARKSMEN DIRECTIONAL, INC.

START: _____
FINISH: _____
DIR. DRILLER _____
CO. REP. _____

1ST TARGET TVD	8270.34
Vertical Sect. Az.	181.16
DIP DEG	-0.04
2ND TARGET TVD	
DIP AZ	
DIP DEG	

Comments: Directional by Marksmen Directional

DECLINATION (+E / -W): 6.4
Grid Conv.

PROPOSED DIR.: 181.16

*****Survey Input*****

[illegible]



MARKSMEN DIRECTIONAL, INC.

START: _____
FINISH: _____
DIR. DRILLER _____
CO. REP. _____

DECLINATION (+E / -W): 6.4
Grid Conv.

PROPOSED DIR.: 181.16

*****Survey Input*****

1ST	TVD	525.00
TARGET	TO	RIGHT (+)
TVD	TARGET	LEFT (-)

[illegible]