

Results of Directional Survey

API number:	30-025-41448			
OGRID:		Operator:	ENDURANCE RESOURCES LLC	
		Property:	NOCASTER 19 FEDERAL	# 3H

surface	ULSTR:	O	19	T 23S	R 34E
				330 FSL	1980 FEL

BH Loc	ULSTR:	B	19	T 23S	R 34E
14814	MD	10549.7	TVD	403 FNL	2355 FEL
				4877 FSL	

Top Perf/OH	ULSTR:	O	19	T 23S	R 34E
10953	MD	10569.9	TVD	1033 FSL	2008 FEL

Bot Perf/OH	ULSTR:	B	19	T 23S	R 34E
14714	MD	10551.4	TVD	503 FNL	2347 FEL
				4777 FSL	

	MD	N/S	E/W	VD
	10899.00	649.28	-26.02	10571.11
TOP PERFS/OH	10953.00	703.21	-28.42	10569.90
	10963.00	713.20	-28.87	10569.68
	14678.00	4411.52	-363.48	10552.18
BOT PERFS/OH	14714.00	4447.36	-366.78	10551.43
	14740.00	4473.24	-369.17	10550.89

NEXT TO LAST	14761.00	4494.17	-370.86	10550.51
LAST READING	14814.00	4547.02	-374.80	10549.69
TD	14814.00	4547.02	-374.80	10549.69

Surface Location	330	FS	1980	FE
Projected BHL	4877	FS	2355	FE
Location of				
Top Perfs/OH	1033	FS	2008	FE
Bottom Perfs/OH	4777	FS	2347	FE

SUMMARY of Subsurface Locations

Surface Location	O-19-23S-34E	330	FS	1980	FE	Vert. Depth
Top Perfs/OH	O-19-23S-34E	1033	FS	2008	FE	10569.90
Bottom Perfs/OH	B-19-23S-34E	4777	FS	2347	FE	10551.43
Projected TD	B-19-23S-34E	4877	FS	2355	FE	10549.69

DEC 22 2014

HOBBS OCD

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Endurance Resources

Nocaster 19 Federal 3H ST01

Lea County, NM

Patriot Rig 4

API# 30-025-41448-0100

August 29, 2014 – September 27, 2014

HD-MJ-0901570636

Sperry Drilling

Survey Report

Submitted by Andrew MacMillan

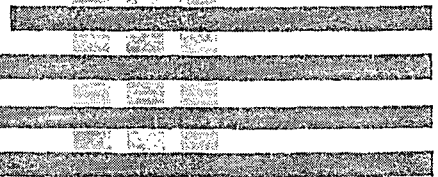
3950 Interwood South Parkway

Houston, TX 77032

Ph: 281.986.4400

HALLIBURTON

**Drilling and Formation
Evaluation**



Survey Report for Endurance Resources, LLC

Rig	:	Patriot 4
Well Name	:	Nocaster 19 Federal 3H
Field Name	:	Bell Lake (Bone Springs)
Country	:	USA
Job Number	:	HD-XX-0901570636
Job Start Date	:	29-Aug-14
API Number	:	30-025-41448-0100

DIRECTIONAL SURVEY DATA

Tie-in

0.00 0.00 0.00 0.00 0.00 N 0.00 E

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Longitude (ft)	Vertical Section (ft)	Depth (ft)
178.70	1.12	144.70	178.69	1.43 S	1.01 E	-1.50	0.63
273.55	1.07	133.95	273.52	2.80 S	2.18 E	-2.96	0.22
368.40	0.78	142.58	368.36	3.92 S	3.21 E	-4.17	0.34
463.25	0.94	98.90	463.20	4.56 S	4.37 E	-4.90	0.69
558.10	1.02	99.32	558.04	4.81 S	5.98 E	-5.28	0.08
652.95	1.11	91.37	652.87	4.97 S	7.73 E	-5.58	0.18
747.80	1.06	77.54	747.70	4.81 S	9.50 E	-5.56	0.28
842.65	1.32	62.88	842.53	4.12 S	11.33 E	-5.02	0.42
937.50	1.09	39.79	937.36	2.93 S	12.88 E	-3.96	0.56
1032.35	1.05	58.76	1,032.20	1.78 S	14.20 E	-2.92	0.37
1127.20	0.93	70.79	1,127.03	1.08 S	15.67 E	-2.34	0.25
1222.05	1.00	120.69	1,221.87	1.25 S	17.11 E	-2.63	0.86
1316.90	0.90	159.43	1,316.71	2.37 S	18.08 E	-3.82	0.67
1411.75	1.16	172.12	1,411.54	4.02 S	18.48 E	-5.49	0.36
1506.60	1.48	205.99	1,506.37	6.07 S	18.07 E	-7.51	0.87
1601.45	1.57	225.67	1,601.19	8.08 S	16.61 E	-9.39	0.56
1696.30	1.59	258.52	1,696.00	9.25 S	14.39 E	-10.38	0.94
1791.15	1.65	286.71	1,790.81	9.12 S	11.79 E	-10.04	0.83
1886.00	1.99	283.78	1,885.62	8.33 S	8.88 E	-9.02	0.37
1980.85	1.98	258.17	1,980.41	8.28 S	5.68 E	-8.71	0.93
2075.70	2.07	232.56	2,075.20	9.65 S	2.71 E	-9.84	0.95
2170.55	1.83	207.89	2,170.00	12.03 S	0.65 E	-12.05	0.91
2265.40	1.37	180.16	2,264.82	14.51 S	0.07 W	-14.45	0.94
2360.25	1.56	147.97	2,359.64	16.73 S	0.62 E	-16.73	0.88
2455.10	1.51	115.76	2,454.45	18.37 S	2.43 E	-18.51	0.90
2549.95	1.66	81.65	2,549.27	18.72 S	4.91 E	-19.05	0.99
2644.80	1.78	46.27	2,644.08	17.50 S	7.33 E	-18.03	1.11
2739.65	1.90	21.42	2,738.88	15.02 S	8.97 E	-15.69	0.84
2834.50	1.90	355.40	2,833.68	11.98 S	9.42 E	-12.71	0.90
2929.35	1.89	337.12	2,928.48	8.98 S	8.69 E	-9.65	0.63
3024.20	1.89	322.53	3,023.28	6.29 S	7.13 E	-6.85	0.51
3119.05	1.96	313.36	3,118.08	3.94 S	5.00 E	-4.33	0.33
3213.90	1.23	326.57	3,212.89	1.97 S	3.26 E	-2.23	0.86
3308.75	1.70	342.90	3,307.71	0.22 N	2.28 E	0.03	0.66
3403.60	1.78	336.68	3,402.51	2.92 N	1.28 E	2.80	0.22
3498.45	2.29	350.49	3,497.30	6.14 N	0.39 E	6.09	0.74
3593.30	2.28	12.62	3,592.08	9.85 N	0.49 E	9.78	0.92
3688.15	1.75	31.05	3,686.87	12.93 N	1.65 E	12.76	0.88
3783.00	1.85	59.19	3,781.68	14.96 N	3.71 E	14.61	0.93
3877.85	1.77	70.11	3,876.48	16.24 N	6.40 E	15.67	0.37
3972.70	2.18	86.55	3,971.28	16.85 N	9.58 E	16.02	0.73

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (N)	Departure (E)	Vertical Section (ft)	Dip角 (°/100')
4067.55	1.95	66.24	4,066.07	17.60 N	12.86 E	16.51	0.80
4162.40	1.68	56.07	4,160.87	19.03 N	15.49 E	17.72	0.44
4257.25	1.89	28.32	4,255.67	21.18 N	17.38 E	19.71	0.93
4352.10	1.24	25.24	4,350.49	23.49 N	18.56 E	21.91	0.69
4446.95	1.63	15.72	4,445.31	25.72 N	19.37 E	24.07	0.48
4541.80	2.32	29.89	4,540.10	28.68 N	20.69 E	26.91	0.89
4636.65	2.32	20.39	4,634.87	32.14 N	22.31 E	30.24	0.40
4731.50	2.37	29.26	4,729.65	35.65 N	23.94 E	33.60	0.39
4826.35	1.88	32.41	4,824.43	38.68 N	25.73 E	36.47	0.53
4921.20	1.90	25.01	4,919.23	41.42 N	27.23 E	39.08	0.26
5016.05	1.98	357.71	5,014.03	44.48 N	27.83 E	42.09	0.97
5110.90	1.63	335.02	5,108.83	47.34 N	27.20 E	44.99	0.83
5205.75	1.90	305.75	5,203.64	49.48 N	25.35 E	47.27	0.98
5300.60	2.00	281.32	5,298.43	50.72 N	22.45 E	48.75	0.88
5395.45	2.59	290.87	5,393.21	51.81 N	18.83 E	50.12	0.74
5490.30	2.30	269.89	5,487.97	52.57 N	14.92 E	51.20	0.99
5585.15	2.42	253.27	5,582.74	51.99 N	11.10 E	50.93	0.73
5680.00	1.87	235.05	5,677.53	50.53 N	7.91 E	49.72	0.92
5774.85	1.76	259.56	5,772.33	49.38 N	5.21 E	48.80	0.82
5869.70	1.96	265.45	5,867.13	48.99 N	2.16 E	48.65	0.29
5964.55	1.45	257.90	5,961.94	48.60 N	0.63 W	48.50	0.59
6059.40	1.47	267.04	6,056.76	48.29 N	3.02 W	48.38	0.25
6154.25	1.39	261.10	6,151.58	48.05 N	5.37 W	48.33	0.18
6249.10	1.06	255.75	6,246.41	47.66 N	7.35 W	48.09	0.37
6343.95	0.97	258.80	6,341.24	47.28 N	8.99 W	47.86	0.11
6438.80	1.23	257.35	6,436.07	46.90 N	10.77 W	47.62	0.28
6533.65	1.06	263.54	6,530.91	46.58 N	12.64 W	47.45	0.22
6628.50	0.97	241.10	6,625.74	46.10 N	14.21 W	47.09	0.43
6723.35	0.75	249.04	6,720.58	45.49 N	15.50 W	46.59	0.26
6818.20	0.69	262.89	6,815.42	45.19 N	16.64 W	46.39	0.19
6913.05	0.85	249.59	6,910.26	44.88 N	17.87 W	46.17	0.25
7007.90	0.64	272.43	7,005.11	44.65 N	19.06 W	46.05	0.38
7102.75	0.82	258.54	7,099.95	44.54 N	20.25 W	46.03	0.26
7197.60	0.60	240.63	7,194.79	44.16 N	21.35 W	45.74	0.33
7292.45	0.81	220.99	7,289.63	43.41 N	22.22 W	45.07	0.33
7387.30	0.73	168.18	7,384.48	42.32 N	22.54 W	44.00	0.73
7482.15	0.53	118.49	7,479.32	41.52 N	22.03 W	43.16	0.59
7577.00	0.38	223.67	7,574.17	41.08 N	21.86 W	42.71	0.77
7671.85	0.35	173.74	7,669.02	40.56 N	22.05 W	42.21	0.33
7766.70	0.46	193.55	7,763.87	39.91 N	22.10 W	41.56	0.19
7861.55	0.73	196.61	7,858.71	38.96 N	22.36 W	40.63	0.29
7956.40	0.55	181.37	7,953.56	37.92 N	22.55 W	39.62	0.26
8051.25	0.66	168.94	8,048.40	36.93 N	22.45 W	38.62	0.18
8146.10	0.53	184.48	8,143.24	35.96 N	22.38 W	37.65	0.22
8240.95	0.29	195.22	8,238.09	35.29 N	22.48 W	36.99	0.26

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (N)	Longitude (W)	Vertical Section (ft)	Angle (deg)
8335.80	0.41	195.19	8,332.94	34.73 N	22.63 W	36.44	0.13
8430.65	0.35	175.09	8,427.79	34.11 N	22.70 W	35.83	0.15
8525.50	0.36	232.61	8,522.64	33.64 N	22.91 W	35.38	0.36
8620.35	0.20	181.24	8,617.49	33.30 N	23.15 W	35.06	0.30
8715.20	0.31	188.71	8,712.34	32.88 N	23.19 W	34.64	0.12
8810.05	0.29	218.92	8,807.18	32.44 N	23.38 W	34.22	0.17
8904.90	0.19	215.65	8,902.03	32.12 N	23.62 W	33.93	0.11
8999.75	0.44	203.65	8,996.88	31.66 N	23.86 W	33.48	0.27
9094.60	0.26	180.06	9,091.73	31.11 N	24.01 W	32.95	0.24
9189.45	0.64	162.53	9,186.58	30.39 N	23.85 W	32.22	0.42
9284.30	0.30	231.80	9,281.42	29.73 N	23.89 W	31.56	0.64
9379.15	0.13	323.44	9,376.27	29.67 N	24.14 W	31.52	0.35
9474.00	0.22	323.22	9,471.12	29.90 N	24.32 W	31.76	0.09
9509.00	0.31	289.05	9,506.12	29.98 N	24.45 W	31.86	0.50
9605.00	0.22	34.53	9,602.12	30.22 N	24.58 W	32.11	0.44
9700.00	0.44	244.83	9,697.12	30.22 N	24.81 W	32.12	0.68
9797.00	1.09	27.52	9,794.12	30.88 N	24.72 W	32.77	1.51
9828.00	3.97	11.38	9,825.08	32.19 N	24.37 W	34.05	9.48
9860.00	5.98	9.86	9,856.96	34.92 N	23.87 W	36.73	6.30
9892.00	7.49	8.42	9,888.74	38.63 N	23.28 W	40.38	4.74
9924.00	8.42	2.35	9,920.43	43.03 N	22.88 W	44.74	3.91
9956.00	8.59	1.99	9,952.08	47.76 N	22.70 W	49.43	0.55
9987.00	8.46	2.63	9,982.74	52.35 N	22.51 W	53.99	0.52
10019.00	8.15	4.39	10,014.40	56.96 N	22.23 W	58.57	1.24
10051.00	9.41	359.72	10,046.03	61.84 N	22.07 W	63.42	4.53
10083.00	12.34	355.86	10,077.45	67.86 N	22.33 W	69.44	9.41
10114.00	15.32	355.92	10,107.55	75.25 N	22.86 W	76.85	9.64
10146.00	18.13	355.99	10,138.19	84.44 N	23.51 W	86.06	8.77
10177.00	22.48	356.46	10,167.26	95.17 N	24.21 W	96.82	14.05
10209.00	26.64	356.05	10,196.35	108.44 N	25.08 W	110.11	12.99
10241.00	29.84	356.52	10,224.54	123.55 N	26.06 W	125.25	10.05
10273.00	33.11	357.71	10,251.83	140.23 N	26.90 W	141.95	10.38
10305.00	36.01	358.60	10,278.18	158.37 N	27.47 W	160.08	9.22
10336.00	39.28	0.28	10,302.72	177.30 N	27.65 W	178.96	11.04
10359.00	41.07	0.86	10,320.30	192.14 N	27.50 W	193.73	7.94
10390.00	43.13	1.23	10,343.30	212.92 N	27.12 W	214.41	6.69
10422.00	43.83	1.12	10,366.52	234.93 N	26.67 W	236.32	2.21
10454.00	44.99	0.70	10,389.38	257.32 N	26.31 W	258.60	3.74
10486.00	46.79	0.15	10,411.65	280.29 N	26.15 W	281.49	5.76
10518.00	49.61	359.58	10,432.98	304.15 N	26.20 W	305.27	8.93
10550.00	52.47	359.93	10,453.10	329.03 N	26.31 W	330.08	8.97
10582.00	54.49	0.21	10,472.14	354.74 N	26.28 W	355.71	6.35
10608.00	56.75	0.73	10,486.82	376.20 N	26.10 W	377.08	8.85
10645.00	59.68	1.08	10,506.31	407.64 N	25.60 W	408.38	7.95
10677.00	61.95	1.29	10,521.91	435.57 N	25.02 W	436.17	7.12

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Longitude (ft)	Vertical Section (ft)	Angle (°/100)
10709.00	65.48	1.08	10,536.08	464.25 N	24.43 W	464.71	11.05
10740.00	70.33	1.19	10,547.74	492.96 N	23.86 W	493.28	15.66
10772.00	75.10	0.37	10,557.24	523.50 N	23.45 W	523.69	15.11
10803.00	79.57	358.81	10,564.04	553.74 N	23.67 W	553.84	15.22
10835.00	83.99	359.05	10,568.61	585.40 N	24.26 W	585.45	13.85
10867.00	88.15	358.61	10,570.80	617.31 N	24.91 W	617.31	13.07
10899.00	90.74	357.41	10,571.11	649.28 N	26.02 W	649.27	8.91
10963.00	91.82	357.49	10,569.68	713.20 N	28.87 W	713.21	1.69
11057.00	90.31	356.92	10,567.94	807.07 N	33.45 W	807.14	1.72
11152.00	90.46	357.18	10,567.30	901.94 N	38.35 W	902.10	0.32
11248.00	91.94	357.25	10,565.28	997.81 N	43.01 W	998.02	1.55
11310.00	91.60	357.12	10,563.37	1,059.70 N	46.05 W	1059.96	0.59
11342.00	90.46	356.91	10,562.79	1,091.65 N	47.72 W	1091.94	3.63
11374.00	90.62	356.71	10,562.49	1,123.60 N	49.50 W	1123.93	0.78
11437.00	89.44	357.41	10,562.45	1,186.52 N	52.73 W	1186.90	2.17
11533.00	88.95	356.49	10,563.80	1,282.37 N	57.84 W	1282.86	1.09
11628.00	88.46	356.57	10,565.95	1,377.17 N	63.59 W	1377.81	0.53
11724.00	88.28	356.10	10,568.68	1,472.94 N	69.72 W	1473.76	0.53
11756.00	90.00	356.44	10,569.16	1,504.86 N	71.80 W	1505.75	5.49
11819.00	91.32	356.47	10,568.44	1,567.74 N	75.70 W	1568.73	2.10
11883.00	88.58	355.30	10,568.49	1,631.57 N	80.29 W	1632.72	4.66
11915.00	88.46	355.41	10,569.32	1,663.45 N	82.87 W	1664.71	0.50
11979.00	89.07	354.38	10,570.69	1,727.18 N	88.57 W	1728.69	1.88
12010.00	89.51	354.64	10,571.08	1,758.04 N	91.53 W	1759.69	1.63
12074.00	89.78	354.32	10,571.47	1,821.74 N	97.69 W	1823.68	0.67
12106.00	89.85	354.20	10,571.58	1,853.58 N	100.89 W	1855.67	0.40
12202.00	90.83	353.81	10,571.01	1,949.05 N	110.91 W	1951.64	1.11
12297.00	88.00	353.51	10,571.98	2,043.45 N	121.41 W	2046.59	3.00
12393.00	89.66	353.21	10,573.94	2,138.79 N	132.50 W	2142.50	1.76
12488.00	91.38	352.53	10,573.08	2,233.04 N	144.29 W	2237.41	1.95
12583.00	91.11	353.70	10,571.01	2,327.34 N	155.67 W	2332.31	1.27
12646.00	91.45	353.75	10,569.60	2,389.94 N	162.55 W	2395.27	0.54
12678.00	91.82	354.50	10,568.69	2,421.76 N	165.82 W	2427.25	2.60
12742.00	89.38	355.38	10,568.02	2,485.50 N	171.47 W	2491.23	4.05
12774.00	89.29	355.73	10,568.39	2,517.41 N	173.95 W	2523.23	1.11
12869.00	89.57	355.79	10,569.34	2,612.14 N	180.97 W	2618.23	0.30
12963.00	91.63	356.03	10,568.35	2,705.89 N	187.67 W	2712.21	2.21
13058.00	90.12	354.99	10,566.89	2,800.59 N	195.09 W	2807.20	1.93
13153.00	91.32	355.11	10,565.70	2,895.22 N	203.29 W	2902.18	1.26
13216.00	90.74	354.69	10,564.57	2,957.96 N	208.89 W	2965.17	1.13
13248.00	90.86	354.91	10,564.12	2,989.83 N	211.79 W	2997.17	0.78
13280.00	89.72	354.97	10,563.96	3,021.70 N	214.61 W	3029.17	3.57
13344.00	89.12	354.23	10,564.60	3,085.41 N	220.63 W	3093.16	1.50
13407.00	89.51	353.82	10,565.36	3,148.07 N	227.19 W	3156.13	0.90
13439.00	89.69	354.15	10,565.58	3,179.89 N	230.54 W	3188.12	1.17

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (N)	Longitude (W)	Vertical Section (ft)	Displacement (ft)
13503.00	90.09	353.90	10,565.70	3,243.54 N	237.21 W	3252.10	0.73
13533.00	90.37	353.83	10,565.58	3,273.37 N	240.42 W	3282.09	0.95
13597.00	91.54	353.93	10,564.51	3,336.99 N	247.24 W	3346.06	1.84
13629.00	92.59	353.92	10,563.36	3,368.79 N	250.62 W	3378.03	3.28
13692.00	89.75	354.00	10,562.07	3,431.42 N	257.25 W	3440.99	4.51
13724.00	90.09	353.98	10,562.12	3,463.25 N	260.60 W	3472.98	1.06
13820.00	91.17	353.50	10,561.06	3,558.67 N	271.07 W	3568.94	1.23
13891.00	92.01	352.95	10,559.09	3,629.14 N	279.44 W	3639.86	1.41
13915.00	92.43	353.05	10,558.16	3,652.95 N	282.37 W	3663.82	1.83
14011.00	90.88	354.05	10,555.39	3,748.30 N	293.14 W	3759.73	1.93
14054.00	91.14	354.03	10,554.63	3,791.06 N	297.61 W	3802.71	0.61
14106.00	91.57	354.01	10,553.40	3,842.76 N	303.02 W	3854.68	0.83
14201.00	89.85	353.65	10,552.22	3,937.20 N	313.24 W	3949.63	1.85
14297.00	90.22	353.59	10,552.17	4,032.60 N	323.90 W	4045.59	0.39
14392.00	89.69	353.74	10,552.25	4,127.02 N	334.39 W	4140.55	0.57
14487.00	89.20	354.40	10,553.17	4,221.51 N	344.20 W	4235.52	0.87
14583.00	90.40	354.00	10,553.50	4,317.01 N	353.91 W	4331.50	1.32
14678.00	91.20	354.43	10,552.18	4,411.52 N	363.48 W	4426.47	0.96
14740.00	91.17	355.04	10,550.89	4,473.24 N	369.17 W	4488.45	0.98
14761.00	90.89	355.74	10,550.51	4,494.17 N	370.86 W	4509.44	3.59
14814.00	90.89	355.74	10,549.69	4,547.02 N	374.80 W	4562.44	0.01

SURVEY FOOTER

SURVEYS CALCULATED USING THE SHORT COLLAR METHOD
 TIE-ON SURVEY ASSUMED VERTICAL AT SURFACE
 SURVEYS FROM 0' MD TO 9474' MD PROVIDED BY VAUGHN ENERGY SERVICES
 SURVEYS FROM 9509' MD TO 14761' MD PROVIDED BY SPERRY DRILLING MWD
 SURVEY AT 14761' MD HAS BEEN PROJECTED TO TD AT 14814' MD
 SPERRY ENGINEERS: A. MACMILLAN, T. FEYINTOLA

DIRECTIONAL SURVEY DATA NOTES

- Calculation based on minimum curvature method.
- Survey coordinates relative to well system reference point.
- TVD values given relative to drilling measurement point.
- Vertical section relative to well head.
- Vertical section is computed along a direction of 355.37 degrees (Grid)
- A total correction of 6.89 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 14,814.00 feet is 4,562.44 feet along 355.29 degrees (Grid)

WARRANTY

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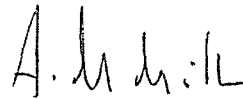
HALLIBURTON

3950 Interwood South Parkway • Houston, TX 77032

PHONE 281.986.4400 • FAX 281.986.4499

State of New Mexico, Lea County

I, Andrew MacMillan, certify that I am employed by Halliburton Energy Services, Inc. (aka Sperry Drilling) and that on the dates of 29-August-14 through 27-September-14. I did conduct or supervise the taking of a DWD directional survey for the well from a depth of 9509' MD to a depth of 14761' MD. This data is true, correct, complete and within the limitations of the tools as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling). I am authorized and qualified to make this report and this survey was conducted at the request of Endurance Resources, for the Nocaster 19 Federal 3H well, API No. 30-025-41448-0100 in Lea County, New Mexico. I have reviewed this report and find that it conforms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling).



Andrew MacMillan
Field Engineer