

Results of Directional Survey

API number:	30-025-41329		
OGRID:		Operator:	ENDURANCE RESOURCES LLC
		Property:	JAZZMASTER 17 STATE # 4H

surface	ULSTR:	A	17	T	23S	R	33E
				330	FNL	660	FEL

BH Loc	ULSTR:	P	17	T	23S	R	33E
15315	MD	11081.4	TVD	338	FSL	639	FEL
				4942	FNL		

Top Perf/OH	ULSTR:	A	17	T	23S	R	33E
12950	MD	11082.8	TVD	2578	FNL	663	FEL

Bot Perf/OH	ULSTR:	P	17	T	23S	R	33E
15252	MD	11082.3	TVD	401	FSL	641	FEL
				4879	FNL		

	MD	N/S	E/W	VD
	12926	-2223.95	-2.40	11082.89
TOP PERFS/OH	12950	-2247.95	-2.81	11082.82
	13022	-2319.93	-4.05	11082.61
	15217	-4514.07	18.55	11082.69
BOT PERFS/OH	15252	-4549.05	19.43	11082.32
	15259	-4556.05	19.61	11082.25

NEXT TO LAST	15259	-4556.05	19.61	11082.25
LAST READING	15315	-4612.02	21.12	11081.37
TD	15315	-4612.02	21.12	11081.37

Surface Location	330	FN	660	FE
Projected BHL	4942	FN	639	FE
Location of				
Top Perfs/OH	2578	FN	663	FE
Bottom Perfs/OH	4879	FN	641	FE

SUMMARY of Subsurface Locations

Surface Location	A-17-23S-33E	330	FN	660	FE	Vert. Depth
Top Perfs/OH	A-17-23S-33E	2578	FN	663	FE	11082.82
Bottom Perfs/OH	P-17-23S-33E	4879	FN	641	FE	11082.32
Projected TD	P-17-23S-33E	4942	FN	639	FE	11081.37

FEB 10 2014

HALLIBURTON

3950 Interwood South Parkway • Houston, TX 77032

PHONE 281.986.4400 • FAX 281.986.4499

HOBBS OCD

JAN 21 2014

State of New Mexico, Lea County

RECEIVED

I, Kenneth Marshall, certify that I am employed by Halliburton Energy Services, Inc. (AKA Sperry Drilling) and that on the dates of September 30, 2013 through October 12, 2013 I did conduct or supervise the taking of a MWD Directional surveys for the well Jazzmaster 17 State 4H from 10498' MD to 15259' 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 Inc. for the Jazzmaster 17 State 4H well, API No. 30-025-41329 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).

A handwritten signature in black ink, appearing to read 'K Marshall', is written over a horizontal line.

Kenneth Marshall
MWD Field Engineer

Endurance Resources LLC
Jazzmaster 17 State-4H
Lea County, NM
McVay 6
API# 30-025-41329

HOBBS OCD

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September 30, 2012 – October 12, 2012

HD-MJ-00900727267

Sperry Drilling MWD Survey Report

Submitted by Kenneth Marshall
3950 Interwood South Parkway
Houston, TX 77032
Ph: 281.986.4400

HALLIBURTON

**Drilling and Formation
Evaluation**

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



Survey Report for Endurance Resources

Rig : McVay 6
Well Name : Jazzmaster State 17-4H
Field Name : (Cruz)Bone Springs
Country : USA
Job Number : HD-XX-0900727267
Job Start Date : 30-Sep-13
API Number : 30-025-41329-000

HOBBS OGD

JAN 21 2014

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GENERAL INFORMATION

Company	: Endurance Resources
Rig	: McVay 6
Well	: Jazzmaster State 17-4H
Field	: (Cruz)Bone Springs
State	: New Mexico
County	: Lea County
Country	: USA
API Number	: 30-025-41329-000
Sperry Drilling Job Number	: HD-XX-0900727267
Job Start Date	: 30-Sep-13
Job End Date	: 12-Oct-13
North Reference	: Grid
Total Correction (deg)	: 7.028
Dip Angle (deg)	: 60.196
Total Magnetic Field (nT)	: 48451
Date of Magnetic Data	: 30 September, 2013
Well Head coordinates N	: 32 deg. 18 min 40.36 sec North
Well Head coordinates E	: 103 deg. 35 min 16.93 sec West
Vertical section direction (deg)	: 179.60
Unit Number	: 11674752
MWD Engineers	: Kenneth Marshall, Paul White, Kinney Webb
Company Representatives	: Wayne Helms
Company Geologist:	:



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)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100')
107.30	0.08	43.35	107.30	0.05 N	0.05 E	-0.05	0.07
202.40	0.22	59.01	202.40	0.20 N	0.25 E	-0.19	0.15
297.50	0.13	99.38	297.50	0.27 N	0.52 E	-0.27	0.15
392.60	0.27	101.74	392.60	0.21 N	0.84 E	-0.20	0.15
487.70	0.38	108.06	487.70	0.07 N	1.36 E	-0.06	0.12
582.80	0.38	114.75	582.80	0.16 S	1.95 E	0.18	0.05
677.90	0.33	119.98	677.89	0.43 S	2.47 E	0.45	0.06
773.00	0.29	124.66	772.99	0.71 S	2.91 E	0.73	0.05
868.10	0.92	128.35	868.09	1.32 S	3.70 E	1.34	0.66
963.20	0.62	133.94	963.18	2.15 S	4.67 E	2.18	0.32
1058.30	0.70	145.16	1,058.27	2.98 S	5.37 E	3.02	0.16
1153.40	0.80	162.70	1,153.36	4.09 S	5.90 E	4.13	0.26
1248.50	0.84	172.99	1,248.45	5.42 S	6.19 E	5.46	0.16
1343.60	0.56	172.88	1,343.55	6.57 S	6.33 E	6.61	0.29
1438.70	0.66	196.22	1,438.64	7.56 S	6.23 E	7.60	0.28
1533.80	0.49	224.95	1,533.74	8.37 S	5.79 E	8.41	0.35
1628.90	0.23	233.57	1,628.83	8.77 S	5.35 E	8.81	0.28
1724.00	0.16	243.17	1,723.93	8.95 S	5.08 E	8.98	0.08
1819.10	0.15	269.19	1,819.03	9.01 S	4.84 E	9.04	0.07
1914.20	0.06	289.97	1,914.13	8.99 S	4.67 E	9.02	0.10
2009.30	0.14	294.73	2,009.23	8.93 S	4.51 E	8.96	0.08
2104.40	0.11	310.09	2,104.33	8.82 S	4.34 E	8.85	0.05
2199.50	0.22	311.35	2,199.43	8.64 S	4.13 E	8.67	0.12
2294.60	0.23	301.66	2,294.53	8.42 S	3.83 E	8.45	0.04
2389.70	0.11	293.89	2,389.63	8.28 S	3.59 E	8.31	0.13
2484.80	0.27	294.26	2,484.73	8.15 S	3.30 E	8.18	0.17
2579.90	0.25	291.09	2,579.83	7.99 S	2.90 E	8.01	0.03
2675.00	0.56	291.72	2,674.93	7.74 S	2.28 E	7.75	0.33
2770.10	0.21	290.30	2,770.03	7.51 S	1.68 E	7.52	0.37
2865.20	0.06	288.08	2,865.13	7.43 S	1.47 E	7.44	0.16
2960.30	0.10	290.47	2,960.23	7.39 S	1.34 E	7.40	0.04
3055.40	0.10	272.30	3,055.32	7.35 S	1.18 E	7.36	0.03
3150.50	0.20	259.49	3,150.42	7.38 S	0.94 E	7.39	0.11
3245.60	0.21	235.00	3,245.52	7.51 S	0.63 E	7.52	0.09
3340.70	0.28	203.91	3,340.62	7.82 S	0.39 E	7.83	0.16
3435.80	0.21	179.07	3,435.72	8.21 S	0.30 E	8.21	0.13
3530.90	0.23	149.82	3,530.82	8.55 S	0.40 E	8.55	0.12
3626.00	0.24	124.67	3,625.92	8.83 S	0.66 E	8.83	0.11
3721.10	0.26	90.41	3,721.02	8.94 S	1.04 E	8.95	0.16
3816.20	0.67	86.09	3,816.12	8.91 S	1.81 E	8.92	0.43
3911.30	0.51	84.25	3,911.21	8.83 S	2.79 E	8.85	0.17



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100)
4006.40	0.55	77.30	4,006.31	8.68 S	3.65 E	8.71	0.08
4101.50	0.54	93.90	4,101.40	8.61 S	4.55 E	8.64	0.17
4196.60	0.61	102.83	4,196.50	8.76 S	5.49 E	8.79	0.12
4291.70	1.20	117.91	4,291.59	9.33 S	6.86 E	9.38	0.66
4386.80	2.98	121.00	4,386.62	11.07 S	9.86 E	11.14	1.87
4481.90	3.17	126.46	4,481.58	13.91 S	14.09 E	14.01	0.37
4577.00	3.22	126.45	4,576.53	17.06 S	18.36 E	17.19	0.05
4672.10	3.76	125.03	4,671.46	20.44 S	23.06 E	20.60	0.58
4767.20	4.15	136.01	4,766.33	24.70 S	28.00 E	24.90	0.89
4862.30	4.42	145.63	4,861.17	30.20 S	32.46 E	30.43	0.81
4957.40	3.06	152.48	4,956.06	35.48 S	35.70 E	35.73	1.50
5052.50	2.63	159.42	5,051.05	39.77 S	37.64 E	40.03	0.58
5147.60	2.16	174.00	5,146.06	43.60 S	38.60 E	43.87	0.81
5242.70	2.14	151.11	5,241.10	46.93 S	39.64 E	47.21	0.90
5337.80	1.79	147.63	5,336.14	49.74 S	41.30 E	50.03	0.39
5432.90	1.55	129.65	5,431.20	51.82 S	43.08 E	52.12	0.60
5528.00	1.55	130.05	5,526.27	53.47 S	45.06 E	53.78	0.01
5623.10	1.35	144.43	5,621.34	55.21 S	46.69 E	55.53	0.43
5718.20	1.04	140.40	5,716.42	56.78 S	47.89 E	57.12	0.34
5813.30	1.21	134.97	5,811.50	58.16 S	49.15 E	58.50	0.21
5908.40	1.06	124.80	5,906.58	59.37 S	50.59 E	59.72	0.26
6003.50	0.99	122.77	6,001.67	60.32 S	52.00 E	60.68	0.08
6098.60	0.90	125.62	6,096.75	61.19 S	53.30 E	61.57	0.11
6193.70	0.61	127.97	6,191.84	61.94 S	54.30 E	62.32	0.31
6288.80	0.64	142.26	6,286.94	62.67 S	55.03 E	63.06	0.17
6383.90	0.64	157.27	6,382.03	63.58 S	55.56 E	63.97	0.18
6479.00	0.47	177.10	6,477.13	64.46 S	55.78 E	64.85	0.27
6574.10	0.42	176.17	6,572.23	65.20 S	55.83 E	65.59	0.05
6669.20	0.33	174.02	6,667.32	65.82 S	55.88 E	66.21	0.10
6764.30	0.55	172.05	6,762.42	66.54 S	55.97 E	66.93	0.23
6859.40	0.42	183.92	6,857.52	67.34 S	56.01 E	67.73	0.17
6954.50	0.55	190.32	6,952.61	68.14 S	55.90 E	68.53	0.15
7049.60	0.31	197.63	7,047.71	68.83 S	55.74 E	69.22	0.26
7144.70	0.36	201.86	7,142.81	69.36 S	55.55 E	69.74	0.06
7239.80	0.38	216.73	7,237.91	69.89 S	55.25 E	70.27	0.10
7334.90	0.52	219.21	7,333.00	70.47 S	54.79 E	70.86	0.15
7430.00	0.35	224.23	7,428.10	71.02 S	54.32 E	71.39	0.18
7525.10	0.43	228.86	7,523.20	71.46 S	53.85 E	71.83	0.09
7620.20	0.62	217.40	7,618.29	72.10 S	53.27 E	72.47	0.23
7715.30	1.09	201.32	7,713.38	73.35 S	52.62 E	73.72	0.55
7810.40	1.05	186.51	7,808.47	75.06 S	52.20 E	75.43	0.29
7905.50	1.19	174.51	7,903.55	76.91 S	52.19 E	77.27	0.29
8000.60	1.49	179.15	7,998.62	79.13 S	52.30 E	79.49	0.34
8095.70	1.35	169.61	8,093.69	81.47 S	52.53 E	81.83	0.29
8190.80	1.44	167.11	8,188.77	83.74 S	52.99 E	84.10	0.11



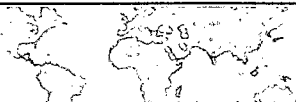
DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
8285.90	1.16	169.71	8,283.84	85.85 S	53.43 E	86.22	0.30
8381.00	1.23	174.60	8,378.92	87.81 S	53.70 E	88.18	0.13
8476.10	1.19	176.75	8,474.00	89.81 S	53.85 E	90.19	0.06
8571.20	1.29	174.38	8,569.08	91.86 S	54.01 E	92.24	0.12
8666.30	1.33	176.58	8,664.15	94.03 S	54.18 E	94.41	0.07
8761.40	1.31	189.24	8,759.23	96.21 S	54.08 E	96.58	0.31
8856.50	1.18	229.87	8,854.31	97.91 S	53.15 E	98.28	0.92
8951.60	1.30	243.62	8,949.39	99.02 S	51.44 E	99.38	0.34
9046.70	1.18	236.70	9,044.46	100.04 S	49.65 E	100.38	0.20
9141.80	1.48	227.49	9,139.54	101.41 S	47.93 E	101.74	0.39
9236.90	1.42	226.19	9,234.61	103.05 S	46.17 E	103.37	0.07
9332.00	0.57	238.15	9,329.69	104.12 S	44.92 E	104.43	0.92
9427.10	0.63	231.39	9,424.79	104.69 S	44.11 E	105.00	0.10
9522.20	0.59	236.28	9,519.88	105.29 S	43.29 E	105.59	0.07
9617.30	1.93	229.12	9,614.96	106.61 S	41.68 E	106.90	1.42
9712.40	1.60	214.46	9,710.01	108.75 S	39.71 E	109.03	0.59
9807.50	1.63	225.51	9,805.07	110.80 S	38.00 E	111.06	0.33
9902.60	1.19	238.86	9,900.15	112.25 S	36.19 E	112.50	0.57
9997.70	0.91	264.16	9,995.23	112.84 S	34.59 E	113.08	0.56
10092.80	0.79	284.23	10,090.32	112.76 S	33.20 E	112.99	0.34
10187.90	1.22	276.55	10,185.40	112.48 S	31.56 E	112.70	0.47
10283.00	1.37	270.47	10,280.48	112.36 S	29.42 E	112.56	0.21
10378.10	1.35	266.68	10,375.55	112.41 S	27.17 E	112.60	0.10
10473.20	1.37	247.82	10,470.63	112.91 S	24.99 E	113.08	0.47
10498.00	1.83	214.46	10,495.42	113.34 S	24.50 E	113.51	4.11
10569.00	10.45	194.87	10,565.95	120.52 S	22.20 E	120.67	12.33
10600.00	12.56	197.89	10,596.32	126.45 S	20.44 E	126.58	7.05
10632.00	16.48	192.14	10,627.30	134.20 S	18.42 E	134.32	13.06
10664.00	19.90	195.02	10,657.69	143.90 S	16.05 E	144.00	11.03
10696.00	22.91	188.69	10,687.49	155.32 S	13.70 E	155.41	11.85
10728.00	25.57	189.85	10,716.66	168.28 S	11.57 E	168.35	8.44
10760.00	28.42	189.30	10,745.17	182.60 S	9.16 E	182.66	8.95
10791.00	31.80	189.46	10,771.99	197.94 S	6.63 E	197.98	10.91
10823.00	35.88	188.54	10,798.56	215.54 S	3.85 E	215.56	12.85
10855.00	39.17	190.24	10,823.94	234.76 S	0.65 E	234.76	10.77
10887.00	42.38	186.99	10,848.17	255.42 S	2.46 W	255.40	12.03
10919.00	45.00	184.54	10,871.31	277.41 S	4.67 W	277.37	9.73
10951.00	47.63	185.29	10,893.41	300.46 S	6.65 W	300.41	8.39
10982.00	50.04	184.18	10,913.81	323.72 S	8.57 W	323.65	8.22
11014.00	52.52	186.20	10,933.83	348.58 S	10.84 W	348.49	9.20
11046.00	54.78	186.89	10,952.80	374.18 S	13.78 W	374.07	7.27
11078.00	57.42	187.30	10,970.64	400.53 S	17.06 W	400.40	8.32
11110.00	59.44	187.46	10,987.39	427.57 S	20.56 W	427.42	6.32
11142.00	62.35	186.45	11,002.96	455.32 S	23.95 W	455.14	9.50
11173.00	64.95	187.00	11,016.72	482.90 S	27.20 W	482.70	8.53



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
11205.00	67.99	186.68	11,029.49	512.03 S	30.69 W	511.80	9.53
11237.00	70.56	185.67	11,040.82	541.78 S	33.91 W	541.53	8.56
11269.00	73.07	185.51	11,050.81	572.04 S	36.87 W	571.77	7.85
11301.00	75.47	184.39	11,059.48	602.72 S	39.53 W	602.43	8.23
11333.00	78.49	184.35	11,066.69	633.80 S	41.90 W	633.50	9.46
11364.00	80.85	182.84	11,072.25	664.24 S	43.81 W	663.92	8.97
11396.00	82.02	183.00	11,077.02	695.84 S	45.42 W	695.51	3.69
11428.00	84.00	182.53	11,080.91	727.56 S	46.95 W	727.22	6.36
11460.00	86.70	181.26	11,083.51	759.44 S	48.00 W	759.08	9.31
11492.00	89.26	180.46	11,084.64	791.41 S	48.49 W	791.05	8.38
11524.00	90.93	180.58	11,084.58	823.41 S	48.78 W	823.05	5.23
11587.00	90.80	178.42	11,083.63	886.40 S	48.23 W	886.04	3.45
11683.00	89.01	177.00	11,083.79	982.31 S	44.38 W	981.98	2.38
11779.00	89.54	177.04	11,085.01	1,078.17 S	39.39 W	1077.87	0.55
11874.00	89.10	176.57	11,086.13	1,173.02 S	34.09 W	1172.75	0.67
11970.00	89.44	176.86	11,087.35	1,268.85 S	28.59 W	1268.62	0.47
12065.00	90.99	176.75	11,086.99	1,363.70 S	23.30 W	1363.51	1.63
12161.00	91.79	176.30	11,084.67	1,459.50 S	17.48 W	1459.34	0.96
12257.00	89.66	176.31	11,083.45	1,555.28 S	11.29 W	1555.17	2.22
12352.00	89.85	177.66	11,083.86	1,650.15 S	6.30 W	1650.07	1.43
12448.00	88.73	177.89	11,085.05	1,746.07 S	2.57 W	1746.01	1.19
12543.00	88.77	179.67	11,087.12	1,841.02 S	0.55 W	1840.97	1.87
12639.00	90.89	179.64	11,087.41	1,937.01 S	0.03 E	1936.97	2.22
12735.00	91.45	180.34	11,085.44	2,032.99 S	0.05 E	2032.94	0.93
12830.00	90.28	180.45	11,084.01	2,127.98 S	0.60 W	2127.92	1.24
12926.00	91.05	181.71	11,082.89	2,223.95 S	2.40 W	2223.88	1.54
13022.00	89.29	180.27	11,082.61	2,319.93 S	4.05 W	2319.84	2.37
13118.00	90.22	179.81	11,083.02	2,415.93 S	4.11 W	2415.84	1.08
13213.00	90.99	179.28	11,082.02	2,510.92 S	3.36 W	2510.83	0.98
13309.00	90.19	178.07	11,081.04	2,606.88 S	1.14 W	2606.81	1.51
13405.00	90.65	178.80	11,080.34	2,702.84 S	1.49 E	2702.79	0.90
13501.00	88.98	178.95	11,080.65	2,798.82 S	3.37 E	2798.78	1.74
13598.00	88.36	180.06	11,082.90	2,895.79 S	4.21 E	2895.75	1.31
13694.00	89.14	180.60	11,085.00	2,991.77 S	3.66 E	2991.72	0.98
13789.00	90.18	180.10	11,085.56	3,086.76 S	3.09 E	3086.71	1.22
13885.00	91.54	181.12	11,084.12	3,182.74 S	2.07 E	3182.68	1.77
13981.00	91.02	182.36	11,081.97	3,278.67 S	0.85 W	3278.58	1.40
14077.00	89.01	180.54	11,081.95	3,374.63 S	3.27 W	3374.53	2.82
14173.00	89.94	180.53	11,082.83	3,470.62 S	4.17 W	3470.51	0.96
14269.00	90.06	180.02	11,082.83	3,566.62 S	4.64 W	3566.50	0.55
14363.00	90.90	180.67	11,082.04	3,660.61 S	5.20 W	3660.49	1.13
14459.00	90.86	179.40	11,080.57	3,756.60 S	5.26 W	3756.47	1.32
14553.00	91.48	179.21	11,078.64	3,850.57 S	4.13 W	3850.45	0.69
14648.00	90.62	178.14	11,076.90	3,945.53 S	1.94 W	3945.42	1.45
14743.00	88.49	177.09	11,077.65	4,040.44 S	2.01 E	4040.35	2.50



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
14838.00	88.67	177.49	11,080.00	4,135.30 S	6.50 E	4135.25	0.47
14933.00	89.26	177.42	11,081.71	4,230.19 S	10.72 E	4230.16	0.62
15028.00	89.41	178.34	11,082.81	4,325.12 S	14.24 E	4325.11	0.99
15123.00	90.22	178.90	11,083.12	4,420.09 S	16.53 E	4420.10	1.03
15217.00	90.31	178.64	11,082.69	4,514.07 S	18.55 E	4514.09	0.29
15259.00	90.90	178.46	11,082.25	4,556.05 S	19.61 E	4556.08	1.46
15315.00	90.90	178.46	11,081.37	4,612.02 S	21.12 E	4612.06	0.01

SURVEY FOOTER

SURVEYS ARE CALCULATED USING THE SHORT COLLAR METHOD.
WELL ASSUMED VERTICAL AT THE WELLHEAD.

SURVEYS FROM 107.30' MD TO 10473.20' MD PROVIDED BY VAUGHN ENERGY SERVICES.
SURVEYS FROM 10498' MD TO 15259' MD PROVIDED BY SPERRY DRILLING.

SURVEY AT 15259' MD HAS BEEN PROJECTED TO TD AT 15315' MD.
SPERRY DRILLING ENGINEERS: K. MARSHALL, P. WHITE AND K. WEBB

**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 179.60 degrees (Grid)
- A total correction of 7.03 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 15,315.00 feet is 4,612.07 feet along 179.74 degrees (Grid)

WARRANTY

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