



Running Horse Production Co., LLC

Maljamar AGI 2

Lea County, NM

Rig : CanElson 432

HOBBS OCD

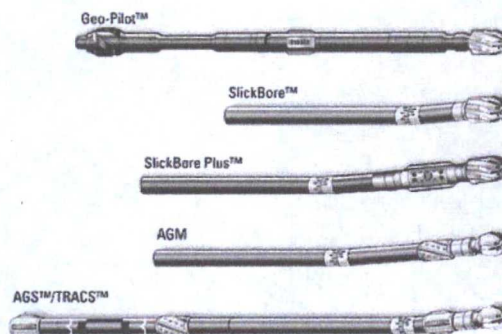
OCT 27 2016

RECEIVED

Sperry Drilling

End of Well Report

Prepared For: Running Horse Production



March 8, 2016

Submitted by:
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HALLIBURTON

Running Horse Production Co., LLC

**Maljamar AGI 2
Lea County, NM**

End of Well Report

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HALLIBURTON

Sperry Drilling Services

HOBBS OCD

OCT 27 2016

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Final Surveys and Plot

Design Report for Maljamar AGI 2 - Surveys

Measured Depth (usft)	Inclination (°)	Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
0.00	0.00	0.00	-4,036.50	0.00	0.00 N	0.00 E	660,255.80	673,327.90	0.00	0.00	
100.00	0.19	177.82	-3,936.50	100.00	0.17 S	0.01 E	660,255.63	673,327.91	0.19	0.00	
200.00	0.16	189.80	-3,836.50	200.00	0.47 S	0.01 W	660,255.33	673,327.89	0.05	0.02	
300.00	0.11	355.28	-3,736.50	300.00	0.51 S	0.04 W	660,255.29	673,327.86	0.27	0.05	
400.00	0.88	29.40	-3,636.51	399.99	0.25 N	0.33 E	660,256.05	673,328.23	0.79	-0.33	
500.00	1.22	17.66	-3,536.52	499.98	1.94 N	1.03 E	660,257.74	673,328.93	0.40	-1.07	
600.00	1.13	359.33	-3,436.54	599.96	3.94 N	1.34 E	660,259.74	673,329.24	0.38	-1.42	
700.00	1.10	349.85	-3,336.56	699.94	5.87 N	1.16 E	660,261.67	673,329.06	0.19	-1.29	
800.00	1.06	348.82	-3,236.58	799.92	7.72 N	0.81 E	660,263.52	673,328.71	0.04	-0.98	
900.00	1.11	347.29	-3,136.60	899.90	9.57 N	0.42 E	660,265.37	673,328.32	0.06	-0.63	
1,000.00	0.99	348.23	-3,036.61	999.89	11.36 N	0.03 E	660,267.16	673,327.93	0.12	-0.28	
1,100.00	0.81	359.58	-2,936.63	1,099.87	12.92 N	0.15 W	660,268.72	673,327.75	0.25	-0.13	
1,200.00	0.64	15.40	-2,836.63	1,199.87	14.16 N	0.01 W	660,269.96	673,327.89	0.26	-0.30	
1,300.00	0.72	24.00	-2,736.64	1,299.86	15.27 N	0.39 E	660,271.07	673,328.29	0.13	-0.73	
1,400.00	0.66	28.15	-2,636.65	1,399.85	16.36 N	0.92 E	660,272.16	673,328.82	0.08	-1.28	
1,500.00	0.79	32.11	-2,536.66	1,499.84	17.45 N	1.56 E	660,273.25	673,329.46	0.14	-1.94	
1,600.00	0.71	28.74	-2,436.67	1,599.83	18.57 N	2.22 E	660,274.37	673,330.12	0.09	-2.63	
1,700.00	1.03	43.12	-2,336.68	1,699.82	19.77 N	3.13 E	660,275.57	673,331.03	0.38	-3.57	
1,800.00	1.39	38.30	-2,236.70	1,799.80	21.38 N	4.50 E	660,277.18	673,332.40	0.37	-4.97	
1,900.00	1.60	45.49	-2,136.73	1,899.77	23.31 N	6.25 E	660,279.11	673,334.15	0.28	-6.76	
2,000.00	1.75	45.54	-2,036.78	1,999.72	25.36 N	8.33 E	660,281.16	673,336.23	0.15	-8.89	
2,100.00	1.81	43.51	-1,936.82	2,099.68	27.58 N	10.51 E	660,283.38	673,338.41	0.09	-11.12	
2,200.00	1.28	40.01	-1,836.86	2,199.64	29.58 N	12.32 E	660,285.38	673,340.22	0.54	-12.97	
2,300.00	0.85	39.71	-1,736.88	2,299.62	31.00 N	13.51 E	660,286.80	673,341.41	0.43	-14.19	
2,400.00	0.72	36.49	-1,636.89	2,399.61	32.08 N	14.36 E	660,287.88	673,342.26	0.14	-15.06	
2,500.00	0.67	53.95	-1,536.89	2,499.61	32.93 N	15.20 E	660,288.73	673,343.10	0.22	-15.93	
2,584.00	0.61	43.91	-1,452.90	2,583.60	33.54 N	15.91 E	660,289.34	673,343.81	0.15	-16.65	
2,608.00	0.62	50.66	-1,428.90	2,607.60	33.71 N	16.10 E	660,289.51	673,344.00	0.30	-16.84	
2,703.00	0.34	54.90	-1,333.90	2,702.60	34.20 N	16.73 E	660,290.00	673,344.63	0.30	-17.48	
2,798.00	0.25	45.85	-1,238.91	2,797.59	34.51 N	17.11 E	660,290.31	673,345.01	0.11	-17.87	
2,894.00	0.11	280.66	-1,142.91	2,893.59	34.67 N	17.16 E	660,290.47	673,345.06	0.34	-17.93	
2,989.00	0.22	254.08	-1,047.91	2,988.59	34.64 N	16.90 E	660,290.44	673,344.80	0.14	-17.66	
3,084.00	0.22	243.42	-952.91	3,083.59	34.51 N	16.56 E	660,290.31	673,344.46	0.04	-17.32	
3,179.00	0.43	223.46	-857.91	3,178.59	34.16 N	16.15 E	660,289.96	673,344.05	0.25	-16.91	
3,274.00	0.50	239.26	-762.91	3,273.59	33.69 N	15.55 E	660,289.49	673,343.45	0.15	-16.29	
3,370.00	0.61	248.27	-666.92	3,369.58	33.29 N	14.72 E	660,289.09	673,342.62	0.15	-15.45	
3,465.00	1.05	239.88	-571.93	3,464.57	32.67 N	13.49 E	660,288.47	673,341.39	0.48	-14.21	
3,560.00	0.61	243.85	-476.94	3,559.56	32.01 N	12.29 E	660,287.81	673,340.19	0.47	-12.99	
3,656.00	0.49	308.88	-380.94	3,655.56	32.04 N	11.51 E	660,287.84	673,339.41	0.62	-12.22	
3,751.00	0.59	243.13	-285.94	3,750.56	32.07 N	10.76 E	660,287.87	673,338.66	0.62	-11.46	

HALLIBURTON**Design Report for Maljamar AGI 2 - Surveys**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
3,846.00	0.47	234.18	-190.95	3,845.55	31.62 N	10.00 E	660,287.42	673,337.90	0.15	-10.70	
3,941.00	0.84	226.25	-95.95	3,940.55	30.91 N	9.19 E	660,286.71	673,337.09	0.40	-9.87	
4,036.00	0.77	218.70	-0.96	4,035.54	29.94 N	8.28 E	660,285.74	673,336.18	0.13	-8.94	
4,131.00	0.86	183.12	94.03	4,130.53	28.73 N	7.85 E	660,284.53	673,335.75	0.53	-8.48	
4,226.00	1.03	218.27	189.01	4,225.51	27.34 N	7.28 E	660,283.14	673,335.18	0.62	-7.88	
4,321.00	1.09	235.78	284.00	4,320.50	26.16 N	6.00 E	660,281.96	673,333.90	0.35	-6.58	
4,416.00	0.42	228.75	378.99	4,415.49	25.43 N	4.99 E	660,281.23	673,332.89	0.71	-5.55	
4,512.00	0.44	249.32	474.99	4,511.49	25.06 N	4.38 E	660,280.86	673,332.28	0.16	-4.94	
4,607.00	0.37	226.62	569.99	4,606.49	24.72 N	3.82 E	660,280.52	673,331.72	0.18	-4.37	
4,702.00	0.49	191.02	664.98	4,701.48	24.12 N	3.52 E	660,279.92	673,331.42	0.30	-4.05	
4,797.00	0.38	149.74	759.98	4,796.48	23.44 N	3.60 E	660,279.24	673,331.50	0.34	-4.12	
4,892.00	0.34	170.15	854.98	4,891.48	22.89 N	3.81 E	660,278.69	673,331.71	0.14	-4.31	
4,987.00	0.15	212.38	949.98	4,986.48	22.51 N	3.79 E	660,278.31	673,331.69	0.26	-4.29	
5,083.00	0.13	353.56	1,045.98	5,082.48	22.51 N	3.71 E	660,278.31	673,331.61	0.28	-4.21	
5,178.00	0.31	309.65	1,140.98	5,177.48	22.79 N	3.50 E	660,278.59	673,331.40	0.25	-4.00	
5,273.00	0.30	311.96	1,235.98	5,272.48	23.12 N	3.12 E	660,278.92	673,331.02	0.02	-3.63	
5,368.00	0.29	28.84	1,330.97	5,367.47	23.49 N	3.05 E	660,279.29	673,330.95	0.39	-3.57	
5,463.00	0.41	7.22	1,425.97	5,462.47	24.04 N	3.21 E	660,279.84	673,331.11	0.19	-3.74	
5,559.00	0.22	35.63	1,521.97	5,558.47	24.53 N	3.36 E	660,280.33	673,331.26	0.25	-3.90	
5,654.00	0.13	303.34	1,616.97	5,653.47	24.74 N	3.37 E	660,280.54	673,331.27	0.27	-3.92	
5,749.00	0.47	339.77	1,711.97	5,748.47	25.16 N	3.15 E	660,280.96	673,331.05	0.39	-3.70	
5,844.00	0.43	353.95	1,806.97	5,843.47	25.88 N	2.98 E	660,281.68	673,330.88	0.12	-3.55	
5,940.00	0.67	352.40	1,902.96	5,939.46	26.80 N	2.86 E	660,282.60	673,330.76	0.25	-3.46	
6,035.00	0.72	349.65	1,997.96	6,034.46	27.94 N	2.68 E	660,283.74	673,330.58	0.06	-3.30	
6,130.00	0.68	328.90	2,092.95	6,129.45	29.01 N	2.28 E	660,284.81	673,330.18	0.27	-2.93	
6,225.00	1.07	340.38	2,187.94	6,224.44	30.32 N	1.69 E	660,286.12	673,329.59	0.45	-2.37	
6,320.00	0.87	344.29	2,282.92	6,319.42	31.85 N	1.20 E	660,287.65	673,329.10	0.22	-1.91	
6,416.00	0.96	344.66	2,378.91	6,415.41	33.33 N	0.79 E	660,289.13	673,328.69	0.09	-1.53	
6,456.00	0.80	350.80	2,418.91	6,455.41	33.93 N	0.66 E	660,289.73	673,328.56	0.46	-1.41	
6,534.00	1.02	350.91	2,496.90	6,533.40	35.15 N	0.46 E	660,290.95	673,328.36	0.28	-1.24	
6,559.00	1.12	341.94	2,521.89	6,558.39	35.60 N	0.35 E	660,291.40	673,328.25	0.78	-1.14	
6,590.00	1.17	352.85	2,552.89	6,589.39	36.21 N	0.22 E	660,292.01	673,328.12	0.72	-1.02	
6,622.00	1.12	337.59	2,584.88	6,621.38	36.82 N	0.06 E	660,292.62	673,327.96	0.96	-0.87	
6,654.00	1.11	335.65	2,616.87	6,653.37	37.39 N	0.19 W	660,293.19	673,327.71	0.12	-0.64	
6,684.00	1.53	320.09	2,646.87	6,683.37	37.96 N	0.57 W	660,293.76	673,327.33	1.83	-0.28	
6,716.00	2.46	276.97	2,678.85	6,715.35	38.37 N	1.52 W	660,294.17	673,326.38	5.32	0.67	
6,798.00	8.21	255.21	2,760.46	6,796.96	37.09 N	8.94 W	660,292.89	673,318.96	7.31	8.11	
6,853.00	10.37	260.84	2,814.74	6,851.24	35.30 N	17.62 W	660,291.10	673,310.28	4.26	16.84	
6,948.00	14.92	275.62	2,907.44	6,943.94	35.14 N	38.25 W	660,290.94	673,289.65	5.84	37.46	

Design Report for Maljamar AGI 2 - Surveys

Measured Depth (usft)	Inclination (°)	Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
7,043.00	19.00	278.44	2,998.29	7,034.79	38.61 N	65.73 W	660,294.41	673,262.17	4.38	64.86	
7,138.00	21.96	277.46	3,087.27	7,123.77	43.18 N	98.65 W	660,298.98	673,229.25	3.14	97.67	
7,234.00	25.18	275.52	3,175.25	7,211.75	47.48 N	136.78 W	660,303.28	673,191.12	3.45	135.70	
7,329.00	29.74	271.44	3,259.53	7,296.03	50.02 N	180.48 W	660,305.82	673,147.42	5.19	179.33	
7,424.00	34.63	268.19	3,339.92	7,376.42	49.76 N	231.05 W	660,305.56	673,096.85	5.46	229.89	
7,519.00	39.48	265.92	3,415.71	7,452.21	46.75 N	288.19 W	660,302.55	673,039.71	5.30	287.09	
7,614.00	38.06	266.75	3,489.78	7,526.28	42.94 N	347.56 W	660,298.74	672,980.34	1.59	346.52	
7,709.00	37.29	269.22	3,564.98	7,601.48	40.89 N	405.57 W	660,296.69	672,922.33	1.78	404.57	
7,805.00	37.70	272.14	3,641.15	7,677.65	41.59 N	463.99 W	660,297.39	672,863.91	1.90	462.95	
7,900.00	38.91	271.70	3,715.70	7,752.20	43.56 N	522.84 W	660,299.36	672,805.06	1.31	521.74	
7,995.00	38.79	266.39	3,789.70	7,826.20	42.57 N	582.38 W	660,298.37	672,745.52	3.51	581.29	
8,091.00	37.63	261.06	3,865.15	7,901.65	36.12 N	641.36 W	660,291.92	672,686.54	3.64	640.40	
8,186.00	36.08	265.02	3,941.18	7,977.68	29.19 N	697.88 W	660,284.99	672,630.02	2.98	697.07	
8,281.00	39.36	267.80	4,016.32	8,052.82	25.60 N	755.87 W	660,281.40	672,572.03	3.89	755.12	
8,376.00	41.30	264.81	4,088.74	8,125.24	21.61 N	817.21 W	660,277.41	672,510.69	2.88	816.53	
8,471.00	39.66	261.76	4,161.01	8,197.51	14.43 N	878.44 W	660,270.23	672,449.46	2.71	877.91	
8,566.00	37.20	260.07	4,235.42	8,271.92	5.13 N	936.75 W	660,260.93	672,391.15	2.82	936.40	
8,645.00	35.57	261.59	4,299.02	8,335.52	2.35 S	983.00 W	660,253.45	672,344.90	2.36	982.81	
8,740.00	35.99	267.56	4,376.12	8,412.62	7.58 S	1,038.24 W	660,248.22	672,289.66	3.70	1,038.15	
8,835.00	38.75	271.18	4,451.62	8,488.12	8.16 S	1,095.87 W	660,247.64	672,232.03	3.71	1,095.78	
8,930.00	40.29	270.93	4,524.90	8,561.40	7.05 S	1,156.31 W	660,248.75	672,171.59	1.63	1,156.19	
9,026.00	39.22	269.37	4,598.70	8,635.20	6.88 S	1,217.70 W	660,248.92	672,110.20	1.52	1,217.55	
9,121.00	38.68	271.11	4,672.59	8,709.09	6.63 S	1,277.42 W	660,249.17	672,050.48	1.28	1,277.25	
9,218.00	36.52	271.52	4,749.43	8,785.93	5.28 S	1,336.58 W	660,250.52	671,991.32	2.24	1,336.37	
9,313.00	39.48	273.18	4,824.29	8,860.79	2.85 S	1,395.01 W	660,252.95	671,932.89	3.30	1,394.73	
9,408.00	39.55	272.16	4,897.58	8,934.08	0.04 S	1,455.39 W	660,255.76	671,872.51	0.69	1,455.03	
9,504.00	38.57	265.71	4,972.15	9,008.65	1.13 S	1,515.80 W	660,254.67	671,812.10	4.35	1,515.45	
9,599.00	37.50	264.78	5,046.98	9,083.48	5.97 S	1,574.13 W	660,249.83	671,753.77	1.28	1,573.87	
9,694.00	37.88	268.82	5,122.16	9,158.66	9.20 S	1,632.09 W	660,246.60	671,695.81	2.63	1,631.90	
9,789.00	38.88	269.00	5,196.63	9,233.13	10.33 S	1,691.07 W	660,245.47	671,636.83	1.06	1,690.88	
9,884.00	37.17	269.52	5,271.47	9,307.97	11.09 S	1,749.58 W	660,244.71	671,578.32	1.83	1,749.39	
9,979.00	38.07	269.97	5,346.71	9,383.21	11.34 S	1,807.57 W	660,244.46	671,520.33	0.99	1,807.37	
10,046.00	37.69	270.53	5,399.60	9,436.10	11.16 S	1,848.70 W	660,244.64	671,479.20	0.76	1,848.50	
10,143.00	38.03	271.55	5,476.18	9,512.68	10.08 S	1,908.23 W	660,245.72	671,419.67	0.73	1,907.98	
10,239.00	39.64	267.98	5,550.97	9,587.47	10.36 S	1,968.40 W	660,245.44	671,359.50	2.87	1,968.15	
10,334.00	42.19	268.08	5,622.75	9,659.25	12.50 S	2,030.58 W	660,243.30	671,297.32	2.69	2,030.36	
10,429.00	41.90	266.68	5,693.30	9,729.80	15.40 S	2,094.13 W	660,240.40	671,233.77	1.03	2,093.96	
10,524.00	40.92	266.44	5,764.55	9,801.05	19.17 S	2,156.85 W	660,236.63	671,171.05	1.05	2,156.75	
10,621.00	39.54	267.18	5,838.60	9,875.10	22.66 S	2,219.40 W	660,233.14	671,108.50	1.51	2,219.36	

HALLIBURTON**Design Report for Maljamar AGI 2 - Surveys**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
10,716.00	37.05	266.69	5,913.16	9,949.66	25.81 S	2,278.19 W	660,229.99	671,049.71	2.64	2,278.20	
10,811.00	33.82	263.79	5,990.56	10,027.06	30.32 S	2,333.06 W	660,225.48	670,994.84	3.83	2,333.16	
10,907.00	35.71	264.10	6,069.42	10,105.92	36.09 S	2,387.49 W	660,219.71	670,940.41	1.98	2,387.70	
10,938.00	35.72	264.02	6,094.59	10,131.09	37.96 S	2,405.49 W	660,217.84	670,922.41	0.15	2,405.74	
10,970.00	34.91	263.83	6,120.70	10,157.20	39.92 S	2,423.88 W	660,215.88	670,904.02	2.55	2,424.17	
11,002.00	33.49	263.82	6,147.16	10,183.66	41.85 S	2,441.77 W	660,213.95	670,886.13	4.44	2,442.09	Last MWD Survey @ 11002.00' MD
11,065.00	33.49	263.82	6,199.70	10,236.20	45.60 S	2,476.33 W	660,210.20	670,851.57	0.00	2,476.73	Projected to TD @ 11065.00' MD

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,002.00	10,183.66	-41.85	-2,441.77	Last MWD Survey @ 11002.00' MD
11,065.00	10,236.20	-45.60	-2,476.33	Projected to TD @ 11065.00' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (usft)
				+N/_S (usft)	+E/-W (usft)	
User	No Target (Freehand)	268.73	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
100.00	2,584.00	Scientific Gyro	NSG-GYC_Drop
2,608.00	6,456.00	Sperry MWD	MWD+SC
6,534.00	11,065.00	Sperry MWD (2)	MWD

HALLIBURTON**Design Report for Maljamar AGI 2 - Surveys****Targets**

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Maljamar AGI 2 BHL	0.00	359.93	10,300.00	-55.90	-2,530.90	660,199.90	670,797.00	32° 48' 49.476 N	3° 46' 38.654 W
- actual wellpath misses target center by 84.58usft at 11065.00usft MD (10236.20 TVD, -45.60 N, -2476.33 E)									
- Point									

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North Reference Sheet for Maljamar - Maljamar AGI 2 - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 4019.0' + 17.5' @ 4036.50usft (CanElsion 432). Northing and Easting are relative to Maljamar AGI 2

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is 104° 20' 0.000 W°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 0° 0' 0.000 N°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99994349

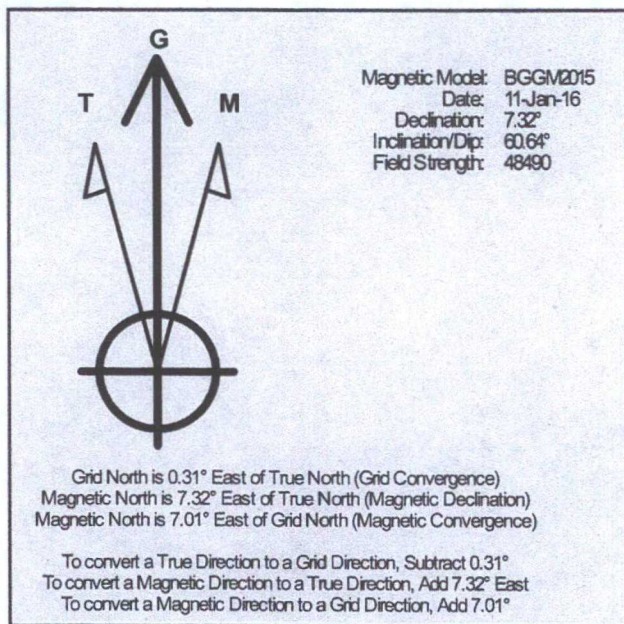
Grid Coordinates of Well: 660,255.80 usft N, 673,327.90 usft E

Geographical Coordinates of Well: 32° 48' 49.90" N, 103° 46' 09.00" W

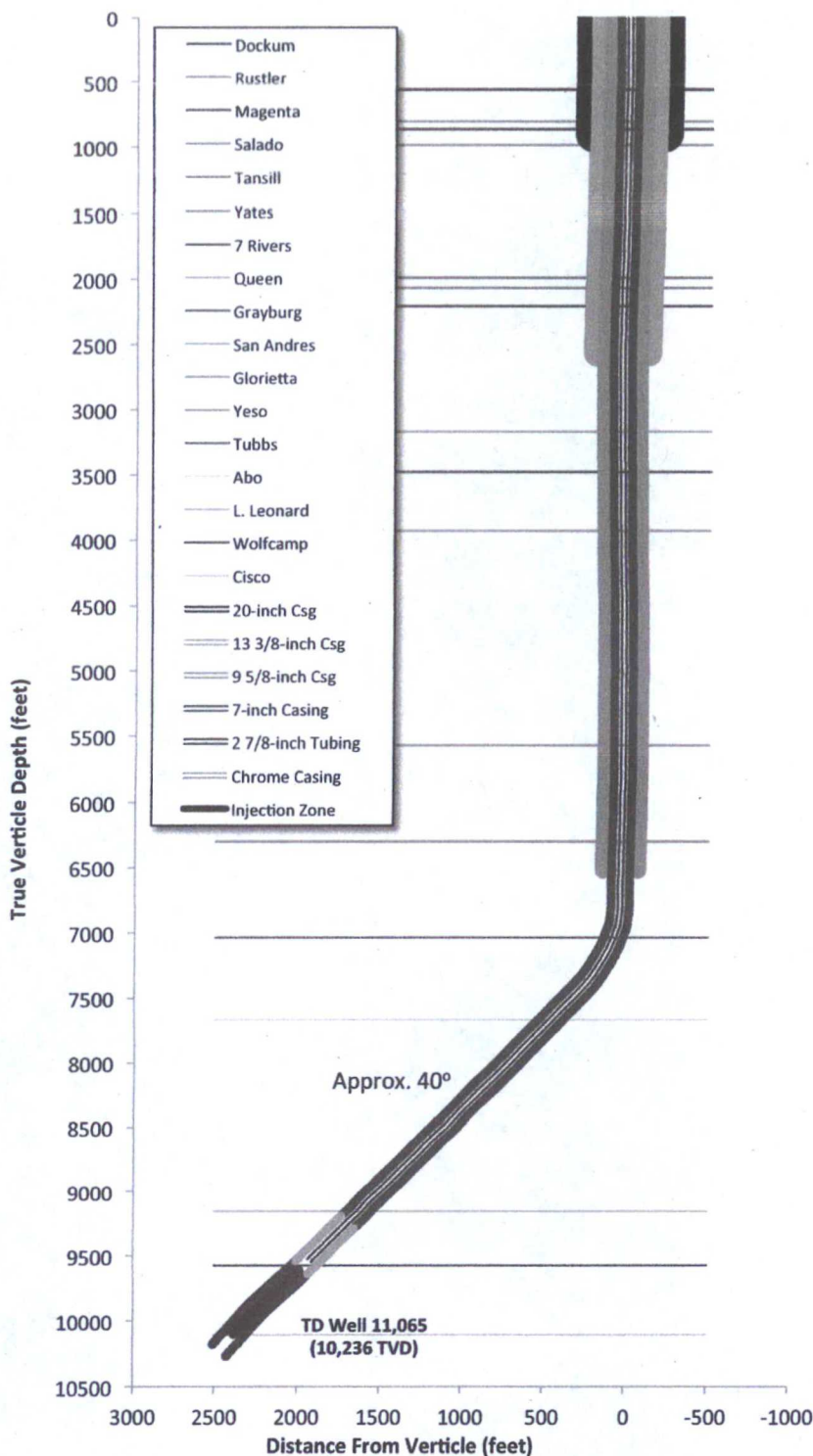
Grid Convergence at Surface is: 0.31°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,065.00usft
the Bottom Hole Displacement is 2,476.75usft in the Direction of 268.95° (Grid).

Magnetic Convergence at surface is: -7.01° (11 January 2016, , BGGM2015)



Well Name: Maljamar AGI #2 (API: 30-025-42628)
 Surface Location: Section 21(O), T17S-R32E, (400' FSL & 2100' FEL)
 Lea County, New Mexico



CONDUCTOR (30-in) to 82 ft

Subsurface Safety Valve at 333 ft MD

SURFACE CASING:

20", 94 lb/ft, J55, BTC at 900 ft in 26-in hole, cement to surface

1st INTERMEDIATE CASING:

13 3/8-inch, 61 lb/ft, J55, BTC at 2,567 ft in 17.5-in hole, cement to surface

DV Tool in 9 5/8-in casing at 5,278 ft

2nd INTERMEDIATE CASING:

9 5/8-inch, 40.0 lb/ft, HCL-80, LTC at 6,524' (6,523 ft TVD) in 12 1/4-inch hole, cement to surface (both stages)

PRODUCTION CASING:

7-inch, 29 lb/ft, HCL-80, LTC in 8 3/4-inch hole at 11,048 ft (10,222 ft TVD) with 16 joints of 7", 32 lb/ft, CRA G3-110 VAM Top HC from 9,794 to 10,239 ft (9,237 to 9,587 ft TVD) cement to surface (both stages)

DV Tool in 7-in casing at 9,323 ft (8,870 ft TVD)

TUBING & EQUIPMENT:

2 7/8", 6.4#, L-80 to 9,818 ft
 2 7/8", 6.4#, G3-125 from 9,818 - 10,162 ft
 P-T Gauges set 6" above Packer
 Inject. Packer @ 10,168 ft MD (9,532' TVD)
 Check valve (placed in nipple below packer)

PERFORATIONS:

Zone 1: 10,268 - 10,302 ft MD
 Zone 2: 10,538 - 10,552 ft MD
 Zone 3: 10,648 - 10,678 ft MD
 Zone 4: 10,750 - 10,900 ft MD (9,609 - 10,100 ft TVD)

BHL at TD: Section 21(M), T17S, R32E
 (355' FSL & 713' FWL), Lea Co., NM

GEOLEX
 INCORPORATED

Frontier Energy Services Maljamar AGI #2

Completion Information in Directional Hole

Final Schematic

May 2016

Project: Lea County, NM (NAD 27)
Site: Maljamar
Well: Maljamar AGI 2
Wellbore: Wellbore #1
Plan: Surveys
Rig: CanElsion 432

SURFACE LOCATION

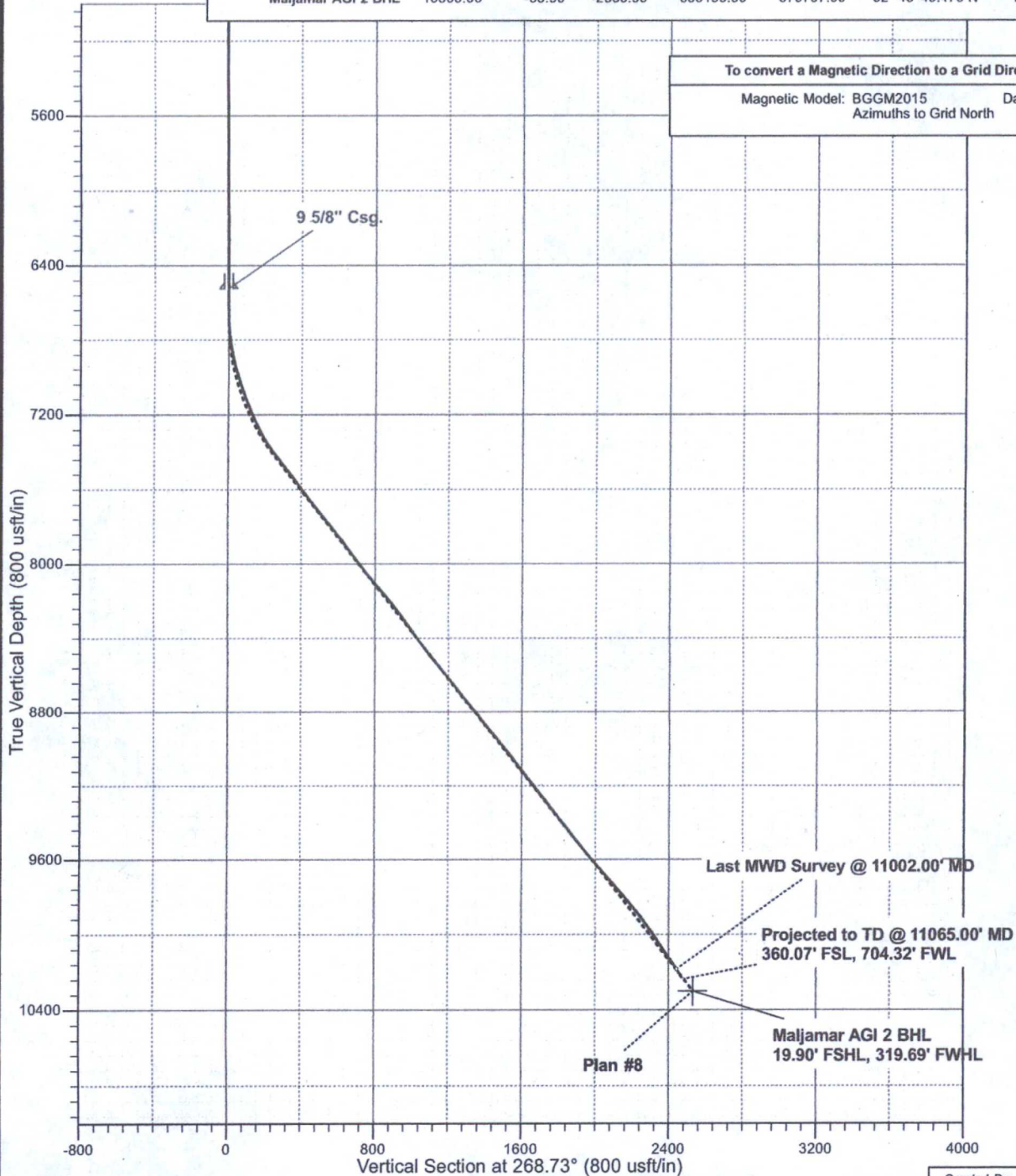
US State Plane 1927 (Exact solution)
 New Mexico East 3001
 Elevation: GL 4019.0' + 17.5' @ 4036.50usft (CanElsion 432)
 Northing: 660255.80 Easting: 673327.90 Latitude: 32° 48' 49.896 N Longitude: 103° 46' 8.995 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Maljamar AGI 2 BHL	10300.00	-55.90	-2530.90	660199.90	670797.00	32° 48' 49.476 N	103° 46' 38.654 W

To convert a Magnetic Direction to a Grid Direction, Add 7.01°

Magnetic Model: BGGM2015 Date: 11-Jan-16
 Azimuths to Grid North



Running Horse Production Co., LLC

HALLIBURTON

Sperry Drilling

Project: Lea County, NM (NAD 27)
Site: Maljamar
Well: Maljamar AGI 2
Wellbore: Wellbore #1
Design: Surveys
Rig: CanElson 432

SURFACE LOCATION

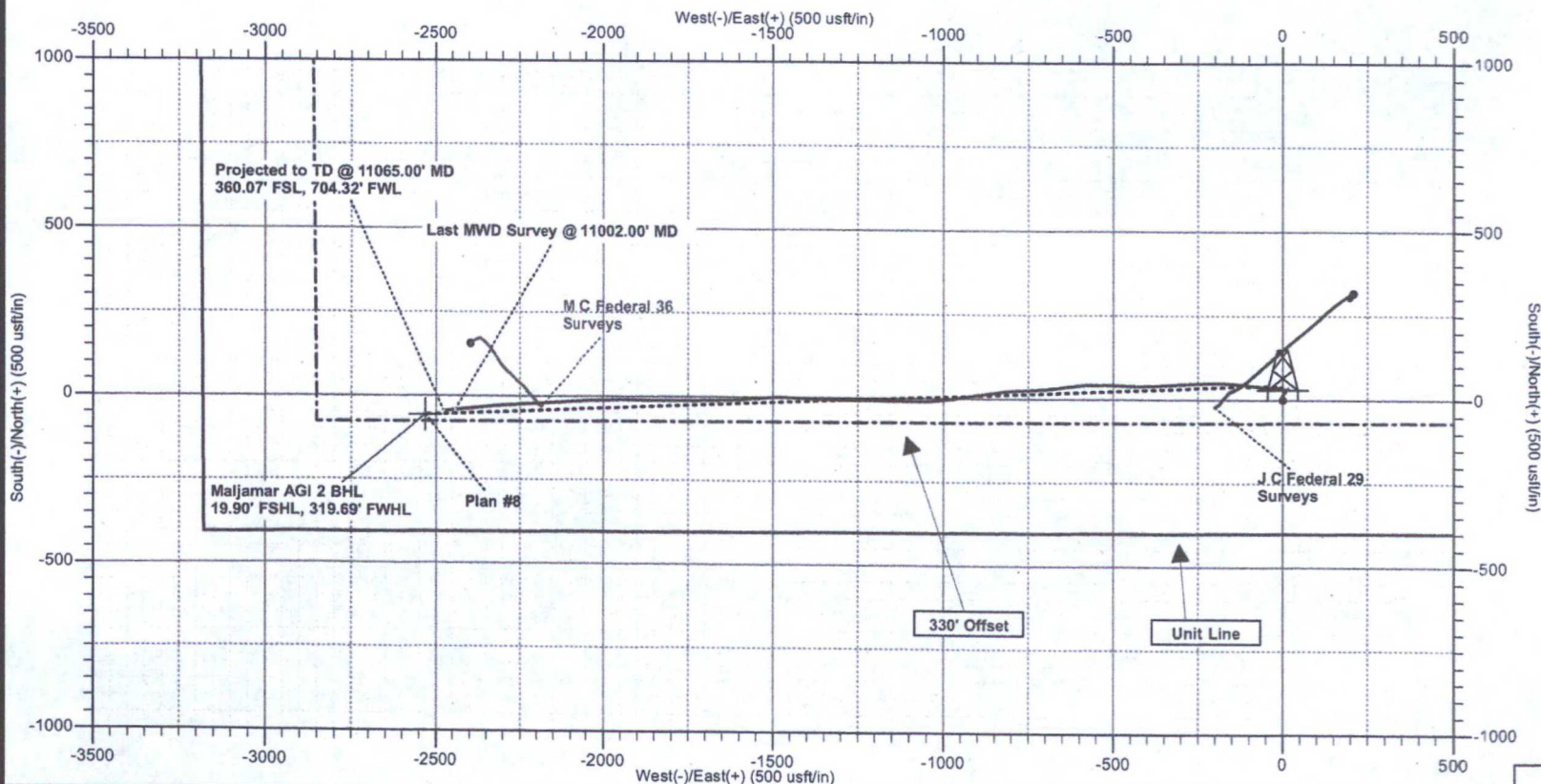
US State Plane 1927 (Exact solution)
 New Mexico East 3001
 Elevation: GL 4019.0' + 17.5' @ 4036.50usft (CanElson 432)
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Magnetic Model: BGGM2015 Date: 11-Jan-16
 Azimuths to Grid North

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Maljamar AGI 2 BHL	10300.00	-55.90	-2530.90	660199.90	670797.00	32° 48' 49.476 N	103° 46' 38.654 W



Created By: Clyde J. Geoffroy

Running Horse Production Co., LLC

Lea County, NM (NAD 27)

Maljamar

Maljamar AGI 2

Wellbore #1

Design: Surveys

Sperry Drilling Services Combo Report

08 March, 2016

Well Coordinates: 660,255.80 N, 673,327.90 E (32° 48' 49.90" N, 103° 46' 09.00" W)

Ground Level: 4,019.00 usft

Local Coordinate Origin:

Centered on Well Maljamar AGI 2

Viewing Datum:

GL 4019.0' + 17.5' @ 4036.50usft (CanElson 432)

TVDs to System:

N

North Reference:

Grid

Unit System:

API - US Survey Feet

Version: 5000.1 Build: 76

HOBBS OCD
OCT 27 2016
RECEIVED

HALLIBURTON