

HOBBS OCD
SEP 25 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Savage 2 State Com
#505Y
OH

Design: OH

Midland PVA

29 April, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505Y
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3555.0usft
Site:	Savage 2 State Corn	ND Reference:	KB = 25' @ 3555.0usft
Well:	#505Y	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Savage 2 State Corn		
Site Position:		Northing:	424,469.00 usft
From:	Map	Easting:	751,845.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 54.412 N
		Longitude:	103° 39' 10.929 W
		Grid Convergence:	0.36 °

Well	#505Y		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/8/2019	6.79	59.97	47,709.24702521

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	186.47	

Survey Program	Date	4/29/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
148.0	15,506.0	Intrepid MWD (OH)	MWD	OWSG MWD - Standard



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ND (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Bulld ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
148.0	1.10	149.51	148.0	-1.2	0.7	0.74	0.74	0.00	-1.4	0.0
237.0	1.36	197.49	237.0	-3.0	0.8	1.15	0.29	53.91	-2.6	1.7
324.0	1.32	204.00	323.9	-4.9	0.1	0.18	-0.05	7.48	-4.4	2.1
499.0	0.70	235.64	498.9	-7.3	-1.6	0.46	-0.35	18.08	-5.4	5.1
584.0	0.68	230.72	583.9	-8.0	-2.5	0.23	0.21	-5.79	-7.0	4.6
770.0	0.57	315.87	769.9	-8.3	-4.3	0.54	-0.17	45.83	3.0	8.8
861.0	0.70	290.57	860.9	-7.7	-5.1	0.34	0.14	-27.91	-2.1	9.0
953.0	1.19	318.28	952.9	-6.8	-6.3	0.71	0.53	30.10	0.9	9.2
1,036.0	1.14	306.74	1,035.9	-5.7	-7.5	0.29	-0.06	-13.88	-2.6	9.0
1,133.0	1.01	300.50	1,132.9	-4.7	-9.0	0.18	-0.13	-6.43	-5.4	8.6
1,225.0	1.67	292.24	1,224.8	-3.8	-10.9	0.75	0.72	-8.98	-8.7	7.6
1,316.0	3.65	299.45	1,315.7	-1.8	-14.7	2.20	2.18	7.92	-11.8	8.8
1,408.0	3.38	304.90	1,407.8	1.2	-19.5	0.47	-0.29	5.92	-14.6	10.0
1,500.0	3.52	306.83	1,499.4	4.4	-24.0	0.20	0.15	2.10	-14.9	9.9
1,593.0	4.92	309.20	1,592.1	8.6	-29.3	1.52	1.51	2.55	-13.4	9.2
1,687.0	7.38	304.72	1,685.6	14.6	-37.4	2.66	2.62	-4.77	-13.0	6.7
1,782.0	9.80	302.44	1,779.5	22.4	-49.3	2.57	2.55	-2.40	-13.4	5.1
1,877.0	9.45	303.23	1,873.2	31.0	-62.6	0.39	-0.37	0.83	-14.6	4.3
1,971.0	8.88	302.96	1,966.0	39.2	-75.1	0.61	-0.61	-0.29	-15.1	3.2
2,066.0	8.70	302.44	2,059.9	47.1	-87.4	0.21	-0.19	-0.55	-15.0	2.1
2,161.0	9.67	302.70	2,153.6	55.2	-100.1	1.02	1.02	0.27	-15.5	1.3
2,256.0	9.32	303.23	2,247.3	63.8	-113.3	0.38	-0.37	0.56	-16.5	0.4
2,351.0	8.75	302.00	2,341.2	71.8	-125.9	0.63	-0.60	-1.29	-16.8	-0.9
2,446.0	8.40	299.97	2,435.1	79.1	-138.0	0.49	-0.37	-2.14	-16.3	-2.0
2,541.0	10.11	298.74	2,528.9	86.6	-151.3	1.81	1.80	-1.29	-16.8	-2.4
2,636.0	9.58	300.41	2,622.5	94.6	-165.4	0.63	-0.56	1.76	-18.5	-2.0



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,731.0	8.84	299.71	2,718.2	102.2	-178.6	0.79	-0.78	-0.74	-19.0	-2.5
2,826.0	8.26	300.33	2,810.2	109.3	-190.8	0.62	-0.61	0.65	-18.5	-2.6
2,921.0	8.68	300.06	2,904.1	116.3	-202.9	0.42	0.42	-0.28	-17.8	-3.0
3,016.0	9.63	297.69	2,997.9	123.6	-216.1	1.10	1.02	-2.49	-18.1	-3.7
3,111.0	9.05	298.74	3,091.7	130.9	-229.7	0.64	-0.61	1.11	-18.9	-3.1
3,206.0	8.44	296.63	3,185.6	137.6	-242.5	0.73	-0.64	-2.22	-18.6	-3.5
3,300.0	7.98	297.07	3,278.6	143.6	-254.5	0.51	-0.51	0.47	-17.5	-2.8
3,395.0	6.46	301.91	3,372.9	149.4	-264.9	1.70	-1.58	5.09	-14.9	-1.5
3,490.0	6.68	301.21	3,467.2	155.1	-274.1	0.25	0.23	-0.74	-11.1	-2.3
3,585.0	8.35	299.45	3,561.4	161.4	-284.9	1.77	1.76	-1.85	-8.7	-2.9
3,681.0	6.73	307.01	3,656.6	168.2	-295.4	1.98	-1.69	7.87	-6.9	-2.9
3,775.0	7.16	311.49	3,749.9	175.4	-304.2	0.74	0.46	4.77	-4.2	-5.1
3,870.0	9.01	312.81	3,843.9	184.4	-314.1	1.96	1.95	1.39	-3.4	-8.3
3,965.0	7.87	312.98	3,937.9	193.9	-324.3	1.20	-1.20	0.18	-3.2	-11.9
4,060.0	8.22	306.04	4,032.0	202.3	-334.6	1.09	0.37	-7.31	-0.4	-14.7
4,155.0	8.88	303.40	4,125.9	210.3	-346.2	0.81	0.69	-2.78	0.8	-16.2
4,250.0	6.77	307.09	4,220.0	217.7	-358.8	2.28	-2.22	3.88	1.4	-17.8
4,345.0	6.65	302.17	4,314.4	224.2	-366.1	0.65	0.19	-5.18	6.2	-18.9
4,440.0	8.84	296.81	4,408.4	230.5	-377.5	2.13	1.99	-5.64	9.6	-18.2
4,534.0	8.81	293.65	4,501.6	236.0	-389.0	2.21	-2.16	-3.36	12.3	-16.7
4,629.0	4.84	293.80	4,596.1	239.2	-398.1	2.32	-2.07	-10.37	19.6	-11.5
4,743.0	8.62	295.23	4,709.3	244.0	-410.5	3.50	3.32	10.03	21.3	-13.0
4,804.0	8.79	295.84	4,868.4	254.5	-432.5	0.12	0.11	0.38	21.6	-11.7
4,999.0	10.46	293.82	4,982.1	261.2	-448.9	1.79	1.78	-2.13	20.7	-9.9
5,094.0	12.62	295.14	5,055.2	269.1	-464.2	2.29	2.27	1.39	16.0	-9.2
5,189.0	13.14	302.61	5,147.8	279.3	-482.7	1.83	0.55	7.86	8.1	-10.7
5,283.0	11.78	313.25	5,239.6	291.6	-498.7	2.83	-1.45	11.32	-0.1	-13.6



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5,378.0	11.25	321.60	5,332.7	305.5	-511.5	1.84	-0.56	8.79	-7.4	-17.7
5,473.0	10.42	321.16	5,426.0	319.5	-522.6	0.88	-0.87	-0.46	-11.8	-23.3
5,568.0	10.02	305.07	5,519.5	330.9	-534.8	3.02	-0.42	-16.94	-8.7	-28.5
5,663.0	11.08	297.25	5,612.9	339.9	-549.7	1.87	1.12	-8.23	-5.4	-30.8
5,758.0	10.15	295.58	5,708.2	347.7	-565.3	1.03	-0.98	-1.76	-7.4	-30.4
5,854.0	9.54	294.26	5,800.8	354.6	-580.2	0.68	-0.64	-1.37	-8.4	-29.5
5,949.0	9.54	296.20	5,894.5	361.3	-594.5	0.34	0.00	2.04	-10.4	-28.2
6,044.0	9.36	296.63	5,988.2	368.2	-608.4	0.20	-0.19	0.45	-11.6	-27.5
6,139.0	9.05	294.35	6,082.0	374.8	-622.1	0.50	-0.33	-2.40	-11.1	-27.0
6,234.0	9.19	295.14	6,175.8	381.1	-635.8	0.20	0.15	0.83	-11.9	-25.8
6,329.0	9.36	294.17	6,269.6	387.5	-649.7	0.24	0.16	-1.02	-12.2	-24.9
6,424.0	9.27	294.00	6,363.3	393.7	-663.8	0.10	-0.09	-0.18	-12.9	-23.6
6,519.0	9.14	295.67	6,457.1	400.1	-677.6	0.31	-0.14	1.76	-14.1	-22.2
6,614.0	9.01	294.79	6,550.9	406.5	-691.1	0.20	-0.14	-0.93	-14.1	-21.4
6,709.0	8.57	293.91	6,644.8	412.5	-704.3	0.48	-0.46	-0.93	-13.7	-20.5
6,804.0	6.90	282.31	6,738.9	416.6	-716.4	2.40	-1.76	-12.21	-7.9	-20.0
6,899.0	5.93	269.21	6,833.3	417.7	-726.9	1.84	-1.02	-13.79	-1.0	-15.3
6,995.0	6.07	288.16	6,928.8	417.5	-738.9	0.19	0.15	-1.09	-0.2	-9.2
7,090.0	2.90	273.70	7,023.5	417.5	-744.3	3.36	-3.34	5.83	-0.3	-4.8
7,185.0	2.20	272.03	7,118.4	417.7	-748.5	0.74	-0.74	-1.76	0.8	-2.2
7,280.0	2.46	279.32	7,213.3	418.1	-752.4	0.41	0.27	7.67	-0.8	-1.1
7,375.0	1.05	47.64	7,308.3	419.0	-753.8	3.39	-1.46	135.07	-0.1	2.7
7,470.0	1.85	62.14	7,403.3	420.3	-751.8	0.92	0.84	15.26	-1.8	2.8
7,565.0	1.85	56.69	7,498.2	421.9	-749.1	0.19	0.00	-5.74	-5.1	2.5
7,661.0	1.58	59.88	7,594.2	423.4	-746.7	0.30	-0.28	3.30	-7.8	2.9
7,756.0	1.54	63.99	7,689.1	424.6	-744.4	0.13	-0.04	4.35	-10.2	3.5
7,851.0	1.36	74.97	7,784.1	425.5	-742.2	0.35	-0.19	11.56	-11.7	5.6



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7,946.0	1.27	69.96	7,879.1	426.1	-740.1	0.15	-0.09	-5.27	-14.3	4.5
8,042.0	1.27	71.72	7,975.1	426.8	-738.1	0.04	0.00	1.83	-16.3	5.0
8,137.0	1.14	74.01	8,070.0	427.4	-736.2	0.15	-0.14	2.41	-18.1	5.7
8,233.0	1.14	78.14	8,166.0	427.9	-734.3	0.09	0.00	4.30	-19.5	7.0
8,328.0	1.05	82.73	8,261.0	428.0	-732.5	0.31	-0.09	15.36	-18.9	12.0
8,423.0	1.10	111.01	8,356.0	427.7	-730.8	0.36	0.05	19.24	-18.0	17.6
8,518.0	0.70	120.15	8,451.0	427.0	-729.4	0.45	-0.42	9.62	-14.5	20.0
8,614.0	0.66	118.22	8,547.0	426.5	-728.4	0.05	-0.04	-2.01	-16.3	19.5
8,709.0	0.84	140.63	8,642.0	425.7	-727.5	0.36	0.19	23.59	-8.8	24.4
8,805.0	1.05	164.62	8,738.0	424.3	-726.8	0.46	0.22	24.99	0.4	26.2
8,900.0	1.01	165.59	8,832.9	422.7	-726.4	0.05	-0.04	1.02	-0.9	26.2
8,996.0	1.10	175.17	8,928.9	420.9	-726.1	0.21	0.09	9.88	1.7	26.1
9,091.0	1.01	194.15	9,023.9	419.2	-726.2	0.38	-0.09	19.98	8.4	24.4
9,186.0	0.84	202.24	9,118.9	417.7	-726.7	0.23	-0.18	6.52	10.3	23.1
9,282.0	0.57	196.88	9,214.9	416.6	-727.1	0.29	-0.28	-5.58	6.9	23.9
9,377.0	0.35	148.98	9,309.9	415.9	-727.1	0.45	-0.23	-50.42	-13.7	20.8
9,473.0	0.48	197.67	9,405.9	415.3	-727.1	0.38	0.14	50.72	5.9	24.3
9,568.0	0.92	167.70	9,500.9	414.2	-727.0	0.59	0.46	-31.55	-8.1	23.8
9,663.0	0.70	163.66	9,595.9	412.9	-726.7	0.24	-0.23	-4.25	-11.1	23.1
9,759.0	0.62	193.98	9,691.9	411.8	-726.7	0.37	-0.08	31.66	1.1	25.8
9,854.0	0.84	198.37	9,786.9	410.6	-727.0	0.24	0.23	4.62	1.8	25.7
9,949.0	0.82	184.40	9,881.9	409.3	-727.3	0.21	-0.02	-14.71	-5.8	25.2
9,992.0	0.70	168.58	9,924.8	408.7	-727.3	0.56	-0.28	-36.79	-13.0	22.6
10,087.0	6.02	158.65	10,019.6	403.5	-725.3	5.61	5.60	-10.45	-22.2	20.0
10,182.0	17.36	163.92	10,112.5	385.2	-719.6	11.98	11.94	5.55	-33.9	22.8
10,277.0	27.38	164.89	10,200.3	350.4	-709.9	10.55	10.55	1.02	-48.6	24.3
10,372.0	34.33	158.30	10,281.8	304.4	-694.3	6.13	7.32	-6.94	-63.2	22.1



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10,466.0	39.82	167.44	10,356.8	250.3	-677.9	8.26	5.84	9.72	-64.5	33.9
10,561.0	46.90	170.51	10,425.8	186.3	-665.6	7.77	7.45	3.23	-61.4	32.9
10,656.0	51.21	175.08	10,488.1	115.1	-656.7	5.81	4.54	4.81	-50.4	26.2
10,751.0	61.23	173.41	10,540.9	36.7	-648.7	10.65	10.55	-1.76	-36.3	13.1
10,846.0	69.49	169.28	10,580.5	-48.6	-635.6	9.55	8.69	-4.35	-20.1	4.5
10,941.0	80.70	166.29	10,604.9	-138.1	-618.2	12.18	11.80	-3.15	-3.6	2.2
11,002.0	86.99	166.56	10,611.4	-197.1	-601.9	10.32	10.31	0.44	3.1	3.1
11,033.0	87.60	166.56	10,612.9	-227.2	-594.7	1.97	1.97	0.00	4.7	4.2
11,128.0	87.91	169.37	10,616.6	-320.0	-575.0	2.97	0.33	2.86	8.7	8.5
11,223.0	88.70	173.59	10,619.4	-413.9	-560.9	4.52	0.83	4.44	11.7	11.6
11,318.0	88.84	180.36	10,621.4	-508.7	-555.9	7.13	0.15	7.13	14.1	10.3
11,413.0	88.44	181.41	10,623.7	-603.6	-557.4	1.18	-0.42	1.11	16.6	7.0
11,508.0	88.53	181.06	10,626.2	-698.6	-559.4	0.38	0.09	-0.37	19.4	4.3
11,603.0	88.70	180.44	10,628.5	-793.5	-560.6	0.68	0.18	-0.65	22.0	2.3
11,698.0	89.10	180.09	10,630.3	-888.5	-561.1	0.56	0.42	-0.37	24.1	1.2
11,793.0	88.31	179.21	10,632.5	-983.5	-560.5	1.24	-0.83	-0.93	26.5	1.1
11,887.0	90.42	180.00	10,633.5	-1,077.5	-559.9	2.40	2.24	0.84	27.8	1.0
11,982.0	90.86	179.13	10,632.4	-1,172.5	-559.1	1.03	0.46	-0.92	27.0	1.1
12,077.0	91.34	179.30	10,630.6	-1,267.4	-557.8	0.54	0.51	0.18	25.5	1.7
12,172.0	92.00	178.95	10,627.9	-1,362.4	-556.4	0.79	0.69	-0.37	23.0	2.4
12,267.0	91.52	180.44	10,624.9	-1,457.3	-555.9	1.65	-0.51	1.57	20.3	2.2
12,362.0	92.00	180.62	10,622.0	-1,552.3	-556.8	0.54	0.51	0.19	17.7	0.6
12,457.0	91.08	181.06	10,619.5	-1,647.3	-558.1	1.07	-0.97	0.46	15.4	-1.5
12,552.0	91.16	181.23	10,617.6	-1,742.2	-560.0	0.20	0.08	0.18	13.8	-4.0
12,647.0	91.82	181.06	10,615.1	-1,837.2	-561.9	0.72	0.69	-0.18	11.6	-6.6
12,742.0	90.02	181.23	10,613.6	-1,932.1	-563.8	1.90	-1.89	0.18	10.4	-9.2
12,837.0	90.29	181.50	10,613.4	-2,027.1	-566.1	0.40	0.28	0.28	10.5	-12.2



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Savage 2 State Com
 Well: #505Y
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #505Y
 TVD Reference: KB = 25' @ 3555.0usft
 ND Reference: KB = 25' @ 3555.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	Hgh to Plan (usft)	Right to Plan (usft)
12,932.0	89.71	178.33	10,613.4	-2,122.1	-566.0	3.39	-0.61	-3.34	11.3	-12.8
13,027.0	90.33	178.16	10,613.3	-2,217.0	-563.1	0.68	0.65	-0.18	12.0	-10.6
13,121.0	89.89	177.46	10,613.1	-2,311.0	-559.5	0.88	-0.47	-0.74	12.6	-7.7
13,217.0	89.71	178.75	10,613.5	-2,406.9	-554.6	0.76	-0.19	-0.74	13.7	-3.5
13,313.0	90.64	178.86	10,613.2	-2,502.8	-550.9	2.40	0.97	2.20	14.2	-0.6
13,408.0	90.64	179.04	10,612.1	-2,597.8	-549.2	0.19	0.00	0.19	14.0	0.5
13,503.0	91.38	178.69	10,610.4	-2,692.7	-547.3	0.88	0.78	-0.37	13.1	1.6
13,599.0	89.80	180.09	10,609.5	-2,788.7	-546.3	2.20	-1.65	1.46	12.9	2.0
13,694.0	89.58	179.58	10,610.0	-2,883.7	-546.0	0.60	-0.23	-0.56	14.2	1.5
13,789.0	89.98	179.30	10,610.3	-2,978.7	-545.1	0.50	0.42	-0.27	15.3	1.8
13,884.0	91.08	179.39	10,609.5	-3,073.7	-544.0	1.16	1.16	0.09	15.3	2.2
13,979.0	89.05	178.77	10,609.3	-3,168.7	-542.4	2.23	-2.14	-0.65	15.9	3.0
14,074.0	89.32	178.60	10,610.7	-3,263.6	-540.3	0.34	0.28	-0.18	18.2	4.5
14,168.0	88.40	178.95	10,612.6	-3,357.6	-538.3	1.05	-0.98	0.37	21.0	5.8
14,263.0	89.56	180.44	10,614.2	-3,452.6	-537.8	2.00	1.24	1.57	23.7	5.6
14,358.0	90.68	180.53	10,614.0	-3,547.6	-536.6	1.16	1.16	0.09	24.5	4.1
14,453.0	91.52	180.62	10,612.2	-3,642.5	-539.5	0.89	0.88	0.09	23.7	2.4
14,548.0	92.31	180.71	10,609.0	-3,737.5	-540.6	0.84	0.83	0.09	21.5	0.6
14,643.0	90.37	180.53	10,606.8	-3,832.4	-541.6	2.05	-2.04	-0.19	20.3	-1.1
14,738.0	90.20	180.62	10,606.3	-3,927.4	-542.6	0.20	-0.18	0.09	20.8	-2.8
14,833.0	90.88	180.62	10,605.5	-4,022.4	-543.6	0.69	0.69	0.00	20.9	-4.5
14,928.0	89.54	180.71	10,605.1	-4,117.4	-544.7	1.39	-1.39	0.09	21.6	-8.3
15,024.0	89.19	180.71	10,606.2	-4,213.4	-545.9	0.36	-0.36	0.00	23.7	-8.2
15,119.0	91.12	180.62	10,605.9	-4,308.4	-547.0	2.03	2.03	-0.09	24.7	-10.0
15,214.0	92.35	180.88	10,603.1	-4,403.3	-548.3	1.32	1.29	0.27	23.1	-12.0
15,309.0	91.08	180.09	10,600.2	-4,498.3	-549.1	1.57	-1.34	-0.83	21.5	-13.5
15,404.0	91.69	179.56	10,597.9	-4,593.3	-548.8	0.85	0.64	-0.56	20.4	-13.9



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Savage 2 State Com
 Well: #505Y
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #505Y
 TVD Reference: KB = 25' @ 3555.0usft
 MD Reference: KB = 25' @ 3555.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
15,506.0	91.70	179.58	10,594.9	-4,695.2	-548.0	0.01	0.01	0.00	18.7	-13.9

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
10,048.0	9,980.8	406.6	-726.5	KOP, MD:10048.0', TVD:9980.8', N/S:406.6', E/W:-726.5', INC:3.83
10,236.7	10,163.8	367.0	-714.4	FTP Crossing, MD:10236.7', TVD:10163.8', N/S:367.0', E/W:-714.4', INC:23.13
15,404.0	10,597.9	-4,593.3	-548.8	Last MWD Survey (MD=15404.0')
15,506.0	10,594.9	-4,695.2	-548.0	Projection to Bit (MD=15506.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Savage 2 State Com #505Y

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #505Y

KB = 25' @ 3555.0
Northing 424640.00 Easting 754578.00 Longitude 103° 30' 39.122 W

To convert a Magnetic Direction to a Grid Direction, Add 8.42°
To convert a Magnetic Direction to a True Direction, Add 8.79° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1744.0	8.88	299.01	1742.3	18.7	-30.0	2.00	299.01	-13.2	
4	6858.9	8.88	299.01	6855.7	400.3	-722.0	0.00	0.00	-318.5	
5	7313.0	0.00	0.00	7248.0	417.0	-752.0	2.00	180.00	-329.6	Brushy Top(Savage 2 SC #505Y)
6	10100.5	0.00	0.00	10035.5	417.0	-752.0	0.00	0.00	-329.6	
7	11002.2	90.17	168.47	10608.5	-141.7	-617.8	10.00	168.47	210.4	
8	11439.1	90.17	179.58	10507.2	-574.4	-584.9	3.00	90.00	634.4	
9	12872.1	90.17	179.58	10603.0	-2007.4	-554.0	0.00	0.00	2057.0	TGT#1(Savage 2 SC #505Y)
10	12887.5	90.48	179.58	10602.9	-2022.8	-553.9	2.00	-0.40	2072.4	
11	14082.9	90.48	179.58	10593.0	-3218.1	-545.1	0.00	0.00	3259.0	TGT#2(Savage 2 SC #505Y)
12	14089.2	90.60	179.58	10592.9	-3224.4	-545.0	2.00	0.01	3285.3	
13	15035.8	90.60	179.58	10583.0	-4170.9	-538.0	0.00	0.00	4205.0	TGT#3(Savage 2 SC #505Y)
14	15042.9	90.74	179.58	10582.9	-4178.1	-537.9	2.00	0.05	4212.1	
15	15574.9	90.74	179.58	10576.0	-4710.0	-534.0	0.00	0.00	4740.2	PBHL(Savage 2 SC #505Y)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Eastng
Brushy Top(Savage 2 SC #505Y)	7348.0	417.0	-762.0	425067.00	753258.00
PBHL(Savage 2 SC #505Y)	10576.0	-4710.0	-534.0	419930.00	754044.00
TGT#1(Savage 2 SC #505Y)	10583.0	-4170.9	-538.0	420483.10	754040.00
TGT#2(Savage 2 SC #505Y)	10593.0	-3218.1	-545.1	421421.80	754032.84
TGT#3(Savage 2 SC #505Y)	10603.0	-2007.4	-554.0	422832.00	754022.98
FTT(Savage 2 SC #505Y)	10608.0	287.0	-872.0	425007.00	754008.00

