

30-025-4473



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JUL 12 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#301H

OH

Plan: Plan #0.1

Standard Planning Report

11 July, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #301H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3539.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3539.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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

Well	#301H					
Well Position	+N/-S	1.0 usft	Northing:	424,470.00 usft	Latitude:	32° 8' 54.418 N
	+E/-W	65.0 usft	Easting:	751,910.00 usft	Longitude:	103° 39' 10.172 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,514.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/11/2018	6.87	59.98	47,784.42750546

Design	Plan #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.70

Plan Survey Tool Program	Date 7/11/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	15,021.0 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,258.7	5.17	350.61	3,258.3	11.5	-1.9	2.00	2.00	0.00	350.61	
9,354.4	5.17	350.61	9,329.2	553.8	-91.6	0.00	0.00	0.00	0.00	
9,613.0	0.00	0.00	9,587.5	565.3	-93.5	2.00	-2.00	0.00	180.00	KOP(Savage 2 SC #3
10,363.0	90.00	179.58	10,065.0	87.8	-90.0	12.00	12.00	23.94	179.58	
15,021.0	90.00	179.58	10,065.0	-4,570.0	-56.0	0.00	0.00	0.00	0.00	PBHL(Savage 2 SC #



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Site:	Savage 2 State Com	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	350.61	3,100.0	1.7	-0.3	-1.7	2.00	2.00	0.00
3,200.0	4.00	350.61	3,199.8	6.9	-1.1	-8.9	2.00	2.00	0.00
3,258.7	6.17	350.61	3,258.3	11.5	-1.9	-11.5	2.00	2.00	0.00
3,300.0	5.17	350.61	3,299.5	15.2	-2.5	-15.2	0.00	0.00	0.00
3,400.0	5.17	350.61	3,399.1	24.1	-4.0	-24.0	0.00	0.00	0.00
3,500.0	5.17	350.61	3,498.7	33.0	-5.5	-32.9	0.00	0.00	0.00
3,600.0	5.17	350.61	3,598.3	41.9	-6.9	-41.8	0.00	0.00	0.00
3,700.0	5.17	350.61	3,697.9	50.8	-8.4	-50.7	0.00	0.00	0.00
3,800.0	5.17	350.61	3,797.4	59.7	-9.9	-59.5	0.00	0.00	0.00
3,900.0	5.17	350.61	3,897.0	68.6	-11.3	-68.4	0.00	0.00	0.00
4,000.0	5.17	350.61	3,996.6	77.5	-12.8	-77.3	0.00	0.00	0.00
4,100.0	5.17	350.61	4,096.2	86.4	-14.3	-86.2	0.00	0.00	0.00
4,200.0	5.17	350.61	4,195.8	95.3	-15.7	-95.1	0.00	0.00	0.00
4,300.0	5.17	350.61	4,295.4	104.1	-17.2	-103.9	0.00	0.00	0.00
4,400.0	5.17	350.61	4,395.0	113.0	-18.7	-112.8	0.00	0.00	0.00
4,500.0	5.17	350.61	4,494.6	121.9	-20.2	-121.7	0.00	0.00	0.00
4,600.0	5.17	350.61	4,594.2	130.8	-21.6	-130.6	0.00	0.00	0.00
4,700.0	5.17	350.61	4,693.8	139.7	-23.1	-139.4	0.00	0.00	0.00
4,800.0	5.17	350.61	4,793.4	148.6	-24.6	-148.3	0.00	0.00	0.00
4,900.0	5.17	350.61	4,893.0	157.5	-26.0	-157.2	0.00	0.00	0.00
5,000.0	5.17	350.61	4,992.6	166.4	-27.5	-166.1	0.00	0.00	0.00
5,100.0	5.17	350.61	5,092.1	175.3	-29.0	-174.9	0.00	0.00	0.00
5,200.0	5.17	350.61	5,191.7	184.2	-30.5	-183.8	0.00	0.00	0.00



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Site:	Savage 2 State Corn	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buidl Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	5.17	350.61	5,291.3	193.1	-31.9	-192.7	0.00	0.00	0.00
5,400.0	5.17	350.61	5,390.9	202.0	-33.4	-201.6	0.00	0.00	0.00
5,500.0	5.17	350.61	5,490.5	210.9	-34.9	-210.5	0.00	0.00	0.00
5,600.0	5.17	350.61	5,590.1	219.8	-36.3	-219.3	0.00	0.00	0.00
5,700.0	5.17	350.61	5,689.7	228.7	-37.8	-228.2	0.00	0.00	0.00
5,800.0	5.17	350.61	5,789.3	237.6	-39.3	-237.1	0.00	0.00	0.00
5,900.0	5.17	350.61	5,888.9	246.5	-40.7	-246.0	0.00	0.00	0.00
6,000.0	5.17	350.61	5,988.5	255.4	-42.2	-254.8	0.00	0.00	0.00
6,100.0	5.17	350.61	6,088.1	264.3	-43.7	-263.7	0.00	0.00	0.00
6,200.0	5.17	350.61	6,187.7	273.2	-45.2	-272.6	0.00	0.00	0.00
6,300.0	5.17	350.61	6,287.3	282.1	-46.6	-281.5	0.00	0.00	0.00
6,400.0	5.17	350.61	6,386.9	291.0	-48.1	-290.3	0.00	0.00	0.00
6,500.0	5.17	350.61	6,486.4	299.9	-49.6	-299.2	0.00	0.00	0.00
6,600.0	5.17	350.61	6,586.0	308.7	-51.0	-308.1	0.00	0.00	0.00
6,700.0	5.17	350.61	6,685.6	317.6	-52.5	-317.0	0.00	0.00	0.00
6,800.0	5.17	350.61	6,785.2	326.5	-54.0	-325.9	0.00	0.00	0.00
6,900.0	5.17	350.61	6,884.8	335.4	-55.5	-334.7	0.00	0.00	0.00
7,000.0	5.17	350.61	6,984.4	344.3	-56.9	-343.6	0.00	0.00	0.00
7,100.0	5.17	350.61	7,084.0	353.2	-58.4	-352.5	0.00	0.00	0.00
7,200.0	5.17	350.61	7,183.6	362.1	-59.9	-361.4	0.00	0.00	0.00
7,300.0	5.17	350.61	7,283.2	371.0	-61.3	-370.2	0.00	0.00	0.00
7,400.0	5.17	350.61	7,382.8	379.9	-62.8	-379.1	0.00	0.00	0.00
7,500.0	5.17	350.61	7,482.4	388.8	-64.3	-388.0	0.00	0.00	0.00
7,600.0	5.17	350.61	7,582.0	397.7	-65.8	-396.9	0.00	0.00	0.00
7,700.0	5.17	350.61	7,681.6	406.6	-67.2	-405.7	0.00	0.00	0.00
7,800.0	5.17	350.61	7,781.2	415.5	-68.7	-414.6	0.00	0.00	0.00
7,900.0	5.17	350.61	7,880.7	424.4	-70.2	-423.5	0.00	0.00	0.00
8,000.0	5.17	350.61	7,980.3	433.3	-71.6	-432.4	0.00	0.00	0.00
8,100.0	5.17	350.61	8,079.9	442.2	-73.1	-441.3	0.00	0.00	0.00
8,200.0	5.17	350.61	8,179.5	451.1	-74.6	-450.1	0.00	0.00	0.00
8,300.0	5.17	350.61	8,279.1	460.0	-76.0	-459.0	0.00	0.00	0.00
8,400.0	5.17	350.61	8,378.7	468.9	-77.5	-467.9	0.00	0.00	0.00
8,500.0	5.17	350.61	8,478.3	477.8	-79.0	-476.8	0.00	0.00	0.00
8,600.0	5.17	350.61	8,577.9	486.7	-80.5	-485.6	0.00	0.00	0.00
8,700.0	5.17	350.61	8,677.5	495.6	-81.9	-494.5	0.00	0.00	0.00
8,800.0	5.17	350.61	8,777.1	504.5	-83.4	-503.4	0.00	0.00	0.00
8,900.0	5.17	350.61	8,876.7	513.4	-84.9	-512.3	0.00	0.00	0.00
9,000.0	5.17	350.61	8,976.3	522.2	-86.3	-521.1	0.00	0.00	0.00
9,100.0	5.17	350.61	9,075.9	531.1	-87.8	-530.0	0.00	0.00	0.00
9,200.0	5.17	350.61	9,175.4	540.0	-89.3	-538.9	0.00	0.00	0.00
9,300.0	5.17	350.61	9,275.0	548.9	-90.8	-547.8	0.00	0.00	0.00
9,354.4	5.17	350.61	9,329.2	553.8	-91.6	-552.6	0.00	0.00	0.00
9,400.0	4.26	350.61	9,374.7	557.5	-92.2	-556.3	2.00	-2.00	0.00
9,500.0	2.28	350.61	9,474.5	563.1	-93.1	-561.9	2.00	-2.00	0.00
9,600.0	0.26	350.61	9,574.5	565.3	-93.5	-564.1	2.00	-2.00	0.00
9,613.0	0.00	0.00	9,587.5	565.3	-93.5	-564.1	2.00	-2.00	0.00
KOP(Savage 2 SC #301H)									
9,625.0	1.44	179.58	9,599.5	565.1	-93.5	-563.9	12.00	12.00	0.00
9,650.0	4.44	179.58	9,624.4	563.9	-93.4	-562.7	12.00	12.00	0.00
9,675.0	7.44	179.58	9,649.3	561.3	-93.4	-560.1	12.00	12.00	0.00
9,700.0	10.44	179.58	9,674.0	557.4	-93.4	-556.2	12.00	12.00	0.00
9,725.0	13.44	179.58	9,698.4	552.2	-93.4	-551.0	12.00	12.00	0.00
9,750.0	16.44	179.58	9,722.6	545.8	-93.3	-544.6	12.00	12.00	0.00



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Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,775.0	19.44	179.58	9,746.4	538.1	-93.3	-538.9	12.00	12.00	0.00
9,800.0	22.44	179.58	9,769.7	529.1	-93.2	-528.0	12.00	12.00	0.00
9,825.0	25.44	179.58	9,792.6	519.0	-93.1	-517.8	12.00	12.00	0.00
9,850.0	28.44	179.58	9,814.9	507.7	-93.0	-506.5	12.00	12.00	0.00
9,875.0	31.44	179.58	9,836.5	495.2	-92.9	-494.0	12.00	12.00	0.00
9,900.0	34.44	179.58	9,857.5	481.6	-92.8	-480.4	12.00	12.00	0.00
9,925.0	37.44	179.58	9,877.7	466.9	-92.7	-465.8	12.00	12.00	0.00
9,950.0	40.44	179.58	9,897.2	451.2	-92.6	-450.1	12.00	12.00	0.00
9,975.0	43.44	179.58	9,915.8	434.5	-92.5	-433.4	12.00	12.00	0.00
10,000.0	46.44	179.58	9,933.5	416.9	-92.4	-415.7	12.00	12.00	0.00
10,015.3	48.27	179.58	9,943.8	405.6	-92.3	-404.5	12.00	12.00	0.00
FTP(Savage 2 SC #301H)									
10,025.0	49.44	179.58	9,950.2	398.3	-92.2	-397.2	12.00	12.00	0.00
10,050.0	52.44	179.58	9,966.0	378.9	-92.1	-377.8	12.00	12.00	0.00
10,075.0	55.44	179.58	9,980.7	358.7	-91.9	-357.5	12.00	12.00	0.00
10,100.0	58.44	179.58	9,994.3	337.8	-91.8	-336.8	12.00	12.00	0.00
10,125.0	61.44	179.58	10,006.9	316.1	-91.6	-315.0	12.00	12.00	0.00
10,150.0	64.44	179.58	10,018.2	293.9	-91.5	-292.7	12.00	12.00	0.00
10,175.0	67.44	179.58	10,028.4	271.0	-91.3	-269.9	12.00	12.00	0.00
10,200.0	70.44	179.58	10,037.4	247.7	-91.1	-246.6	12.00	12.00	0.00
10,225.0	73.44	179.58	10,045.2	223.9	-91.0	-222.8	12.00	12.00	0.00
10,250.0	76.44	179.58	10,051.6	199.8	-90.8	-198.7	12.00	12.00	0.00
10,275.0	79.44	179.58	10,056.9	175.4	-90.6	-174.2	12.00	12.00	0.00
10,300.0	82.44	179.58	10,060.8	150.7	-90.4	-149.6	12.00	12.00	0.00
10,325.0	85.44	179.58	10,063.5	125.8	-90.2	-124.7	12.00	12.00	0.00
10,350.0	88.44	179.58	10,064.8	100.9	-90.1	-99.7	12.00	12.00	0.00
10,363.0	90.00	179.58	10,065.0	87.8	-90.0	-86.7	12.00	12.00	0.00
10,400.0	90.00	179.58	10,065.0	50.9	-89.7	-49.8	0.00	0.00	0.00
10,500.0	90.00	179.58	10,065.0	-49.1	-89.0	50.2	0.00	0.00	0.00
10,600.0	90.00	179.58	10,065.0	-149.1	-88.2	150.2	0.00	0.00	0.00
10,700.0	90.00	179.58	10,065.0	-249.1	-87.5	250.2	0.00	0.00	0.00
10,800.0	90.00	179.58	10,065.0	-349.1	-86.8	350.2	0.00	0.00	0.00
10,900.0	90.00	179.58	10,065.0	-449.1	-86.1	450.1	0.00	0.00	0.00
11,000.0	90.00	179.58	10,065.0	-549.1	-85.3	550.1	0.00	0.00	0.00
11,100.0	90.00	179.58	10,065.0	-649.1	-84.6	650.1	0.00	0.00	0.00
11,200.0	90.00	179.58	10,065.0	-749.1	-83.9	750.1	0.00	0.00	0.00
11,300.0	90.00	179.58	10,065.0	-849.1	-83.1	850.1	0.00	0.00	0.00
11,400.0	90.00	179.58	10,065.0	-949.1	-82.4	950.0	0.00	0.00	0.00
11,500.0	90.00	179.58	10,065.0	-1,049.1	-81.7	1,050.0	0.00	0.00	0.00
11,600.0	90.00	179.58	10,065.0	-1,149.1	-81.0	1,150.0	0.00	0.00	0.00
11,700.0	90.00	179.58	10,065.0	-1,249.1	-80.2	1,250.0	0.00	0.00	0.00
11,800.0	90.00	179.58	10,065.0	-1,349.1	-79.5	1,350.0	0.00	0.00	0.00
11,900.0	90.00	179.58	10,065.0	-1,449.1	-78.8	1,450.0	0.00	0.00	0.00
12,000.0	90.00	179.58	10,065.0	-1,549.1	-78.0	1,549.9	0.00	0.00	0.00
12,100.0	90.00	179.58	10,065.0	-1,649.1	-77.3	1,649.9	0.00	0.00	0.00
12,200.0	90.00	179.58	10,065.0	-1,749.1	-76.6	1,749.9	0.00	0.00	0.00
12,300.0	90.00	179.58	10,065.0	-1,849.1	-75.8	1,849.9	0.00	0.00	0.00
12,400.0	90.00	179.58	10,065.0	-1,949.1	-75.1	1,949.9	0.00	0.00	0.00
12,500.0	90.00	179.58	10,065.0	-2,049.1	-74.4	2,049.8	0.00	0.00	0.00
12,600.0	90.00	179.58	10,065.0	-2,149.1	-73.7	2,149.8	0.00	0.00	0.00
12,700.0	90.00	179.58	10,065.0	-2,249.1	-72.9	2,249.8	0.00	0.00	0.00
12,800.0	90.00	179.58	10,065.0	-2,349.1	-72.2	2,349.8	0.00	0.00	0.00
12,900.0	90.00	179.58	10,065.0	-2,449.1	-71.5	2,449.8	0.00	0.00	0.00
13,000.0	90.00	179.58	10,065.0	-2,549.1	-70.7	2,549.7	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #301H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3539.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3539.0usft
Site:	Savage 2 State Corn	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,100.0	90.00	179.58	10,065.0	-2,649.1	-70.0	2,649.7	0.00	0.00	0.00	
13,200.0	90.00	179.58	10,065.0	-2,749.1	-69.3	2,749.7	0.00	0.00	0.00	
13,300.0	90.00	179.58	10,065.0	-2,849.1	-68.6	2,849.7	0.00	0.00	0.00	
13,400.0	90.00	179.58	10,065.0	-2,949.1	-67.8	2,949.7	0.00	0.00	0.00	
13,500.0	90.00	179.58	10,065.0	-3,049.1	-67.1	3,049.6	0.00	0.00	0.00	
13,600.0	90.00	179.58	10,065.0	-3,149.1	-66.4	3,149.6	0.00	0.00	0.00	
13,700.0	90.00	179.58	10,065.0	-3,249.0	-65.6	3,249.6	0.00	0.00	0.00	
13,800.0	90.00	179.58	10,065.0	-3,349.0	-64.9	3,349.6	0.00	0.00	0.00	
13,900.0	90.00	179.58	10,065.0	-3,449.0	-64.2	3,449.6	0.00	0.00	0.00	
14,000.0	90.00	179.58	10,065.0	-3,549.0	-63.4	3,549.6	0.00	0.00	0.00	
14,100.0	90.00	179.58	10,065.0	-3,649.0	-62.7	3,649.5	0.00	0.00	0.00	
14,200.0	90.00	179.58	10,065.0	-3,749.0	-62.0	3,749.5	0.00	0.00	0.00	
14,300.0	90.00	179.58	10,065.0	-3,849.0	-61.3	3,849.5	0.00	0.00	0.00	
14,400.0	90.00	179.58	10,065.0	-3,949.0	-60.5	3,949.5	0.00	0.00	0.00	
14,500.0	90.00	179.58	10,065.0	-4,049.0	-59.8	4,049.5	0.00	0.00	0.00	
14,600.0	90.00	179.58	10,065.0	-4,149.0	-59.1	4,149.4	0.00	0.00	0.00	
14,700.0	90.00	179.58	10,065.0	-4,249.0	-58.3	4,249.4	0.00	0.00	0.00	
14,800.0	90.00	179.58	10,065.0	-4,349.0	-57.6	4,349.4	0.00	0.00	0.00	
14,900.0	90.00	179.58	10,065.0	-4,449.0	-56.9	4,449.4	0.00	0.00	0.00	
15,000.0	90.00	179.58	10,065.0	-4,549.0	-56.2	4,549.4	0.00	0.00	0.00	
15,021.0	90.00	179.58	10,065.0	-4,570.0	-56.0	4,570.3	0.00	0.00	0.00	
PBHL(Savage 2 SC #301H)										

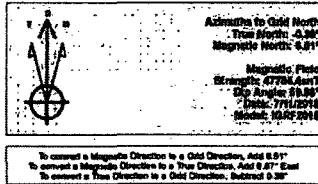
Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP(Savage 2 SC #301 - hits target center - Point	0.00	0.00	9,587.5	565.3	-93.5	425,035.28	751,816.54	32° 10' 0.017 N	103° 38' 11.218 W	
PBHL(Savage 2 SC #30 - plan hits target center - Polygon	0.00	0.00	10,065.0	-4,570.0	-56.0	419,900.00	751,854.00	32° 9' 9.199 N	103° 38' 11.160 W	
Point 1			10,065.0	5,160.1	-87.5	425,060.10	751,766.50			
Point 2			10,065.0	5,161.2	37.3	425,061.20	751,891.30			
Point 3			10,065.0	5,085.7	38.0	424,985.70	751,892.00			
Point 4			10,065.0	5,085.2	-7.0	424,985.20	751,847.00			
Point 5			10,065.0	0.4	30.0	419,900.40	751,884.00			
Point 6			10,065.0	-0.2	-30.0	419,899.80	751,824.00			
Point 7			10,065.0	5,160.1	-87.5	425,060.10	751,766.50			
FTP(Savage 2 SC #3011 - plan misses target center by 163.2usft at 10015.3usft MD (9943.8 TVD, 405.6 N, -92.3 E) - Point	0.00	0.00	10,065.0	515.0	-93.0	424,985.00	751,817.00	32° 9' 59.520 N	103° 38' 11.216 W	



Lea County, NM (NAD 83 NME)

Savage 2 State Com #301H

Plan #0.1



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

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

WELL DETAILS: #301H

KB = 25 @ 3636.8usft
Northings 434470.00
Eastings 751910.00
3014.0
Latitude 32° 5' 54.416 N
Longitude 102° 39' 10.172 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3258.7	5.17	350.61	3258.3	11.5	-1.9	2.00	350.61	-11.5	
4	6354.4	5.17	350.61	6329.2	553.8	-61.8	0.00	0.00	-552.8	
5	6813.0	0.00	0.00	6567.5	585.3	-93.5	2.00	180.00	-94.1	
6	10383.0	90.00	179.55	10065.0	57.8	-60.0	12.00	179.55	-58.7	KOP(Savage 2 SC #301H)
7	18021.0	90.00	179.55	10065.0	-4570.0	-58.0	0.00	0.00	4570.3	PBHL(Savage 2 SC #301H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northings	Eastings
KOP(Savage 2 SC #301H)	5837.5	668.3	-63.8	435038.21	751916.80
PTK(Savage 2 SC #301H)	10065.0	618.0	-63.0	435038.00	751917.00
PBHL(Savage 2 SC #301H)	10065.0	-4570.0	-58.0	418300.00	751864.00

