



HOBBS OCD
JUL 12 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#101H

OH

Plan: Plan #0.1

Standard Planning Report

11 July, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #101H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3538.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3538.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#101H	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:	424,489.00 usft
From:	Map	Easting:	751,845.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 54.412 N
		Longitude:	103° 39' 10.929 W
		Grid Convergence:	0.36 °

Well	#101H		
Well Position	+N/-S	0.0 usft	Northing: 424,489.00 usft
	+E/-W	0.0 usft	Easting: 751,845.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 9' 54.412 N
			Longitude: 103° 39' 10.929 W
			Ground Level: 3,513.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	7/11/2018	(°)
			6.87
			59.98
			47,784.41175771

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			179.89

Plan Survey Tool Program	Date 7/11/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	14,189.3 Plan #0.1 (OH)	MWD
			OWSG MWD - Standard

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
3,296.7	5.93	357.12	3,296.1	15.3	-0.8	2.00	2.00	0.00	357.12	
8,484.7	5.93	357.12	8,458.4	551.0	-27.7	0.00	0.00	0.00	0.00	
8,781.4	0.00	0.00	8,752.5	566.3	-28.5	2.00	-2.00	0.00	180.00	KOP(Savage 2 SC #1
9,531.4	90.00	179.58	9,230.0	88.8	-25.0	12.00	12.00	23.94	179.58	
14,189.3	90.00	179.58	9,230.0	-4,569.0	9.0	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:	#101H	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	357.12	3,100.0	1.7	-0.1	-1.7	2.00	2.00	0.00
3,200.0	4.00	357.12	3,199.8	7.0	-0.4	-7.0	2.00	2.00	0.00
3,298.7	5.93	357.12	3,298.1	15.3	-0.8	-15.3	2.00	2.00	0.00
3,300.0	5.93	357.12	3,299.5	15.7	-0.8	-15.7	0.00	0.00	0.00
3,400.0	5.93	357.12	3,398.9	26.0	-1.3	-26.0	0.00	0.00	0.00
3,500.0	5.93	357.12	3,498.4	36.3	-1.8	-36.3	0.00	0.00	0.00
3,600.0	5.93	357.12	3,597.8	46.6	-2.3	-46.6	0.00	0.00	0.00
3,700.0	5.93	357.12	3,697.3	57.0	-2.9	-57.0	0.00	0.00	0.00
3,800.0	5.93	357.12	3,796.8	67.3	-3.4	-67.3	0.00	0.00	0.00
3,900.0	5.93	357.12	3,896.2	77.6	-3.9	-77.6	0.00	0.00	0.00
4,000.0	5.93	357.12	3,995.7	87.9	-4.4	-88.0	0.00	0.00	0.00
4,100.0	5.93	357.12	4,095.2	98.3	-4.9	-98.3	0.00	0.00	0.00
4,200.0	5.93	357.12	4,194.6	108.6	-5.5	-108.6	0.00	0.00	0.00
4,300.0	5.93	357.12	4,294.1	118.9	-6.0	-118.9	0.00	0.00	0.00
4,400.0	5.93	357.12	4,393.6	129.2	-6.5	-129.3	0.00	0.00	0.00
4,500.0	5.93	357.12	4,493.0	139.6	-7.0	-139.6	0.00	0.00	0.00
4,600.0	5.93	357.12	4,592.5	149.9	-7.5	-149.9	0.00	0.00	0.00
4,700.0	5.93	357.12	4,692.0	160.2	-8.1	-160.2	0.00	0.00	0.00
4,800.0	5.93	357.12	4,791.4	170.5	-8.6	-170.6	0.00	0.00	0.00
4,900.0	5.93	357.12	4,890.9	180.9	-9.1	-180.9	0.00	0.00	0.00
5,000.0	5.93	357.12	4,990.3	191.2	-9.6	-191.2	0.00	0.00	0.00
5,100.0	5.93	357.12	5,089.8	201.5	-10.1	-201.5	0.00	0.00	0.00
5,200.0	5.93	357.12	5,189.3	211.8	-10.6	-211.9	0.00	0.00	0.00



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Site:	Savage 2 State Com	North Reference:	Grid
Well:	#101H	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)	
5,300.0	5.93	357.12	5,288.7	222.2	-11.2	-222.2	0.00	0.00	0.00	
5,400.0	5.93	357.12	5,388.2	232.5	-11.7	-232.5	0.00	0.00	0.00	
5,500.0	5.93	357.12	5,487.7	242.8	-12.2	-242.8	0.00	0.00	0.00	
5,600.0	5.93	357.12	5,587.1	253.1	-12.7	-253.2	0.00	0.00	0.00	
5,700.0	5.93	357.12	5,686.6	263.5	-13.2	-263.5	0.00	0.00	0.00	
5,800.0	5.93	357.12	5,786.1	273.8	-13.8	-273.8	0.00	0.00	0.00	
5,900.0	5.93	357.12	5,885.5	284.1	-14.3	-284.1	0.00	0.00	0.00	
6,000.0	5.93	357.12	5,985.0	294.4	-14.8	-294.5	0.00	0.00	0.00	
6,100.0	5.93	357.12	6,084.5	304.8	-15.3	-304.8	0.00	0.00	0.00	
6,200.0	5.93	357.12	6,183.9	315.1	-15.8	-315.1	0.00	0.00	0.00	
6,300.0	5.93	357.12	6,283.4	325.4	-16.4	-325.4	0.00	0.00	0.00	
6,400.0	5.93	357.12	6,382.8	335.7	-16.9	-335.8	0.00	0.00	0.00	
6,500.0	5.93	357.12	6,482.3	346.1	-17.4	-346.1	0.00	0.00	0.00	
6,600.0	5.93	357.12	6,581.8	356.4	-17.9	-356.4	0.00	0.00	0.00	
6,700.0	5.93	357.12	6,681.2	366.7	-18.4	-366.7	0.00	0.00	0.00	
6,800.0	5.93	357.12	6,780.7	377.0	-18.9	-377.1	0.00	0.00	0.00	
6,900.0	5.93	357.12	6,880.2	387.3	-19.5	-387.4	0.00	0.00	0.00	
7,000.0	5.93	357.12	6,979.6	397.7	-20.0	-397.7	0.00	0.00	0.00	
7,100.0	5.93	357.12	7,079.1	408.0	-20.5	-408.0	0.00	0.00	0.00	
7,200.0	5.93	357.12	7,178.6	418.3	-21.0	-418.4	0.00	0.00	0.00	
7,300.0	5.93	357.12	7,278.0	428.8	-21.5	-428.7	0.00	0.00	0.00	
7,400.0	5.93	357.12	7,377.5	439.0	-22.1	-439.0	0.00	0.00	0.00	
7,500.0	5.93	357.12	7,477.0	449.3	-22.6	-449.3	0.00	0.00	0.00	
7,600.0	5.93	357.12	7,576.4	459.8	-23.1	-459.7	0.00	0.00	0.00	
7,700.0	5.93	357.12	7,675.9	469.9	-23.6	-470.0	0.00	0.00	0.00	
7,800.0	5.93	357.12	7,775.3	480.3	-24.1	-480.3	0.00	0.00	0.00	
7,900.0	5.93	357.12	7,874.8	490.6	-24.7	-490.6	0.00	0.00	0.00	
8,000.0	5.93	357.12	7,974.3	500.9	-25.2	-501.0	0.00	0.00	0.00	
8,100.0	5.93	357.12	8,073.7	511.2	-25.7	-511.3	0.00	0.00	0.00	
8,200.0	5.93	357.12	8,173.2	521.6	-26.2	-521.6	0.00	0.00	0.00	
8,300.0	5.93	357.12	8,272.7	531.9	-26.7	-531.9	0.00	0.00	0.00	
8,400.0	5.93	357.12	8,372.1	542.2	-27.2	-542.3	0.00	0.00	0.00	
8,484.7	5.93	357.12	8,456.4	551.0	-27.7	-551.0	0.00	0.00	0.00	
8,500.0	5.63	357.12	8,471.6	552.5	-27.8	-552.5	2.00	-2.00	0.00	
8,600.0	3.63	357.12	8,571.3	560.6	-28.2	-560.6	2.00	-2.00	0.00	
8,700.0	1.63	357.12	8,671.2	565.1	-28.4	-565.2	2.00	-2.00	0.00	
8,781.4	0.00	0.00	8,752.5	566.3	-28.5	-566.3	2.00	-2.00	0.00	
KOP(Savage 2 SC #101H)										
8,800.0	2.24	179.58	8,771.1	565.9	-28.5	-566.0	12.00	12.00	0.00	
8,825.0	5.24	179.58	8,796.1	564.3	-28.4	-564.3	12.00	12.00	0.00	
8,850.0	8.24	179.58	8,820.9	561.4	-28.4	-561.4	12.00	12.00	0.00	
8,875.0	11.24	179.58	8,845.5	557.1	-28.4	-557.2	12.00	12.00	0.00	
8,900.0	14.24	179.58	8,869.9	551.6	-28.3	-551.7	12.00	12.00	0.00	
8,925.0	17.24	179.58	8,894.0	544.8	-28.3	-544.9	12.00	12.00	0.00	
8,950.0	20.24	179.58	8,917.7	536.8	-28.2	-536.9	12.00	12.00	0.00	
8,975.0	23.24	179.58	8,940.9	527.6	-28.2	-527.6	12.00	12.00	0.00	
9,000.0	26.24	179.58	8,963.6	517.1	-28.1	-517.1	12.00	12.00	0.00	
9,025.0	29.24	179.58	8,985.7	505.5	-28.0	-505.5	12.00	12.00	0.00	
9,050.0	32.24	179.58	9,007.2	492.7	-27.9	-492.7	12.00	12.00	0.00	
9,075.0	35.24	179.58	9,028.0	478.8	-27.8	-478.9	12.00	12.00	0.00	
9,100.0	38.24	179.58	9,048.0	463.8	-27.7	-463.9	12.00	12.00	0.00	
9,125.0	41.24	179.58	9,067.2	447.9	-27.6	-447.9	12.00	12.00	0.00	
9,150.0	44.24	179.58	9,085.6	430.9	-27.5	-431.0	12.00	12.00	0.00	

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Site:	Savage 2 State Corn	North Reference:	Grid
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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)
9,175.0	47.24	179.58	9,103.0	413.0	-27.3	-413.1	12.00	12.00	0.00
9,181.3	47.99	179.58	9,107.3	408.3	-27.3	-408.4	12.00	12.00	0.00
FTP(Savage 2 SC #101H)									
9,200.0	50.24	179.58	9,119.5	394.2	-27.2	-394.3	12.00	12.00	0.00
9,225.0	53.24	179.58	9,135.0	374.6	-27.1	-374.6	12.00	12.00	0.00
9,250.0	56.24	179.58	9,149.4	354.2	-26.9	-354.2	12.00	12.00	0.00
9,275.0	59.24	179.58	9,162.8	333.0	-26.8	-333.1	12.00	12.00	0.00
9,300.0	62.24	179.58	9,175.0	311.2	-26.6	-311.3	12.00	12.00	0.00
9,325.0	65.24	179.58	9,186.1	288.8	-26.4	-288.9	12.00	12.00	0.00
9,350.0	68.24	179.58	9,195.9	265.9	-26.3	-265.9	12.00	12.00	0.00
9,375.0	71.24	179.58	9,204.6	242.4	-26.1	-242.5	12.00	12.00	0.00
9,400.0	74.24	179.58	9,212.0	218.5	-25.9	-218.6	12.00	12.00	0.00
9,425.0	77.24	179.58	9,218.2	194.3	-25.7	-194.4	12.00	12.00	0.00
9,450.0	80.24	179.58	9,223.1	169.8	-25.6	-169.8	12.00	12.00	0.00
9,475.0	83.24	179.58	9,226.6	145.1	-25.4	-145.1	12.00	12.00	0.00
9,500.0	86.24	179.58	9,228.9	120.2	-25.2	-120.2	12.00	12.00	0.00
9,525.0	89.24	179.58	9,229.9	95.2	-25.0	-95.2	12.00	12.00	0.00
9,531.4	90.00	179.58	9,230.0	88.8	-25.0	-88.9	12.00	12.00	0.00
9,600.0	90.00	179.58	9,230.0	20.2	-24.5	-20.2	0.00	0.00	0.00
9,700.0	90.00	179.58	9,230.0	-79.8	-23.7	79.8	0.00	0.00	0.00
9,800.0	90.00	179.58	9,230.0	-179.8	-23.0	179.8	0.00	0.00	0.00
9,900.0	90.00	179.58	9,230.0	-279.8	-22.3	279.8	0.00	0.00	0.00
10,000.0	90.00	179.58	9,230.0	-379.8	-21.6	379.8	0.00	0.00	0.00
10,100.0	90.00	179.58	9,230.0	-479.8	-20.8	479.8	0.00	0.00	0.00
10,200.0	90.00	179.58	9,230.0	-579.8	-20.1	579.8	0.00	0.00	0.00
10,300.0	90.00	179.58	9,230.0	-679.8	-19.4	679.8	0.00	0.00	0.00
10,400.0	90.00	179.58	9,230.0	-779.8	-18.6	779.8	0.00	0.00	0.00
10,500.0	90.00	179.58	9,230.0	-879.8	-17.9	879.8	0.00	0.00	0.00
10,600.0	90.00	179.58	9,230.0	-979.8	-17.2	979.8	0.00	0.00	0.00
10,700.0	90.00	179.58	9,230.0	-1,079.8	-16.4	1,079.7	0.00	0.00	0.00
10,800.0	90.00	179.58	9,230.0	-1,179.8	-15.7	1,179.7	0.00	0.00	0.00
10,900.0	90.00	179.58	9,230.0	-1,279.8	-15.0	1,279.7	0.00	0.00	0.00
11,000.0	90.00	179.58	9,230.0	-1,379.8	-14.3	1,379.7	0.00	0.00	0.00
11,100.0	90.00	179.58	9,230.0	-1,479.8	-13.5	1,479.7	0.00	0.00	0.00
11,200.0	90.00	179.58	9,230.0	-1,579.8	-12.8	1,579.7	0.00	0.00	0.00
11,300.0	90.00	179.58	9,230.0	-1,679.8	-12.1	1,679.7	0.00	0.00	0.00
11,400.0	90.00	179.58	9,230.0	-1,779.8	-11.3	1,779.7	0.00	0.00	0.00
11,500.0	90.00	179.58	9,230.0	-1,879.8	-10.6	1,879.7	0.00	0.00	0.00
11,600.0	90.00	179.58	9,230.0	-1,979.8	-9.9	1,979.7	0.00	0.00	0.00
11,700.0	90.00	179.58	9,230.0	-2,079.8	-9.2	2,079.7	0.00	0.00	0.00
11,800.0	90.00	179.58	9,230.0	-2,179.8	-8.4	2,179.7	0.00	0.00	0.00
11,900.0	90.00	179.58	9,230.0	-2,279.8	-7.7	2,279.7	0.00	0.00	0.00
12,000.0	90.00	179.58	9,230.0	-2,379.7	-7.0	2,379.7	0.00	0.00	0.00
12,100.0	90.00	179.58	9,230.0	-2,479.7	-6.2	2,479.7	0.00	0.00	0.00
12,200.0	90.00	179.58	9,230.0	-2,579.7	-5.5	2,579.7	0.00	0.00	0.00
12,300.0	90.00	179.58	9,230.0	-2,679.7	-4.8	2,679.7	0.00	0.00	0.00
12,400.0	90.00	179.58	9,230.0	-2,779.7	-4.1	2,779.7	0.00	0.00	0.00
12,500.0	90.00	179.58	9,230.0	-2,879.7	-3.3	2,879.7	0.00	0.00	0.00
12,600.0	90.00	179.58	9,230.0	-2,979.7	-2.6	2,979.7	0.00	0.00	0.00
12,700.0	90.00	179.58	9,230.0	-3,079.7	-1.9	3,079.7	0.00	0.00	0.00
12,800.0	90.00	179.58	9,230.0	-3,179.7	-1.1	3,179.7	0.00	0.00	0.00
12,900.0	90.00	179.58	9,230.0	-3,279.7	-0.4	3,279.7	0.00	0.00	0.00
13,000.0	90.00	179.58	9,230.0	-3,379.7	0.3	3,379.7	0.00	0.00	0.00
13,100.0	90.00	179.58	9,230.0	-3,479.7	1.1	3,479.7	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #101H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3538.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3538.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#101H	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)
13,200.0	90.00	179.58	9,230.0	-3,579.7	1.8	3,579.7	0.00	0.00	0.00
13,300.0	90.00	179.58	9,230.0	-3,679.7	2.5	3,679.7	0.00	0.00	0.00
13,400.0	90.00	179.58	9,230.0	-3,779.7	3.2	3,779.7	0.00	0.00	0.00
13,500.0	90.00	179.58	9,230.0	-3,879.7	4.0	3,879.7	0.00	0.00	0.00
13,600.0	90.00	179.58	9,230.0	-3,979.7	4.7	3,979.7	0.00	0.00	0.00
13,700.0	90.00	179.58	9,230.0	-4,079.7	5.4	4,079.7	0.00	0.00	0.00
13,800.0	90.00	179.58	9,230.0	-4,179.7	6.2	4,179.7	0.00	0.00	0.00
13,900.0	90.00	179.58	9,230.0	-4,279.7	6.9	4,279.7	0.00	0.00	0.00
14,000.0	90.00	179.58	9,230.0	-4,379.7	7.6	4,379.7	0.00	0.00	0.00
14,100.0	90.00	179.58	9,230.0	-4,479.7	8.3	4,479.7	0.00	0.00	0.00
14,189.3	90.00	179.58	9,230.0	-4,569.0	9.0	4,569.0	0.00	0.00	0.00
PBHL(Savage 2 SC #101H)									

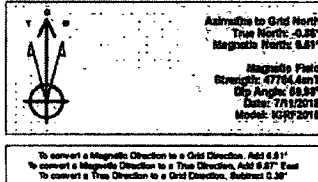
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Savage 2 SC #101 - hit/miss target - Shape - Point	0.00	0.00	8,752.5	566.3	-28.5	425,035.28	751,816.54	32° 10' 0.017 N	103° 39' 11.218 W
FTP(Savage 2 SC #101H - plan misses target center by 163.2usft at 9181.3usft MD (9107.3 TVD, 408.3 N, -27.3 E) - Point	0.00	0.00	9,230.0	516.0	-28.0	424,985.00	751,817.00	32° 9' 59.520 N	103° 39' 11.216 W
PBHL(Savage 2 SC #10 - plan hits target center - Polygon	0.00	0.00	9,230.0	-4,569.0	9.0	419,900.00	751,854.00	32° 9' 9.199 N	103° 39' 11.160 W
Point 1			9,230.0	5,160.1	-87.5	425,060.10	751,766.50		
Point 2			9,230.0	5,161.2	37.3	425,061.20	751,891.30		
Point 3			9,230.0	5,085.7	38.0	424,985.70	751,892.00		
Point 4			9,230.0	5,085.2	-7.0	424,985.20	751,847.00		
Point 5			9,230.0	0.4	30.0	419,900.40	751,884.00		
Point 6			9,230.0	-0.2	-30.0	419,899.80	751,824.00		
Point 7			9,230.0	5,160.1	-87.5	425,060.10	751,766.50		



Lea County, NM (NAD 83 NME)

Savage 2 State Com #101H

Plan #0.1



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

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

WELL DETAILS: #101H

KB = 25 @ 3532.0 Aust
 Northing: 424488.00 Easting: 751648.00
 Latitude: 32° 0' 54.415 N Longitude: 103° 29' 10.825 W

SECTION DETAILS

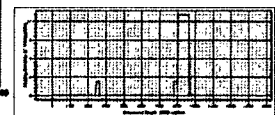
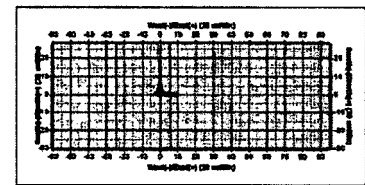
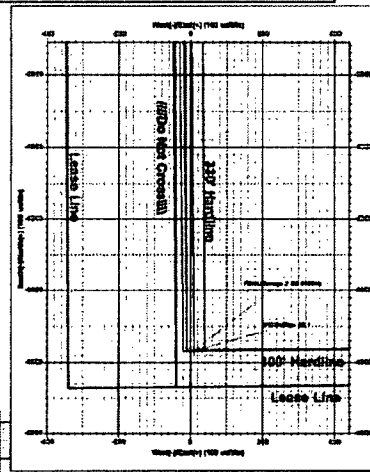
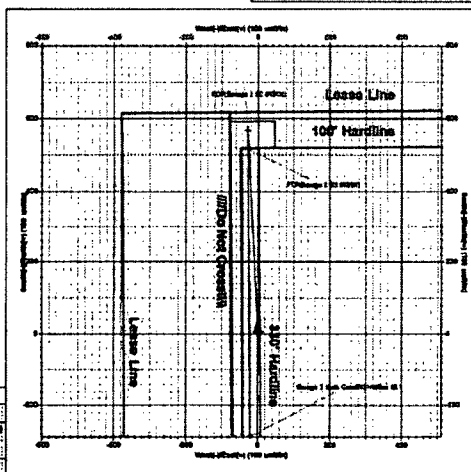
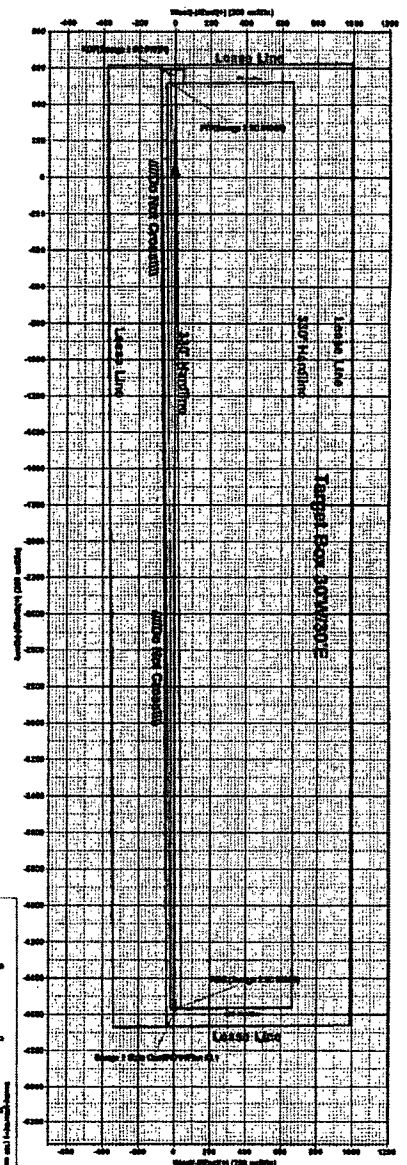
Sec	MD	Inc	Adz	TVD	+N/S	+E/W	Deg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3296.7	5.93	357.12	3296.1	15.3	-0.8	2.00	357.12	-15.3	
4	8484.7	5.93	357.12	8485.4	591.0	-27.7	0.00	0.00	-591.0	
5	8781.4	0.00	0.00	8781.5	888.3	-39.5	2.00	180.00	-888.3	KOP(Savage 2 SC #101H)
6	8531.4	90.00	179.58	8230.0	88.8	-35.0	12.00	179.58	-88.8	
7	14189.3	90.00	179.58	9230.0	-4993.0	9.8	0.00	0.00	4369.0	PBHL(Savage 2 SC #101H)

CASING DETAILS

No casing data is available

WELLSBORN TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
KOP(Savage 2 SC #101H)	8782.5	888.3	-25.5	425036.33	751516.26
PTP(Savage 2 SC #101H)	9230.9	818.5	-32.7	424882.09	751511.00
PBHL(Savage 2 SC #101H)	9230.9	-4883.0	9.0	419640.08	751554.00



Scale: 1 inch = 100 feet
 Date: 7/11/2018