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HOEES OCD
JUL 12 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#501H

OH

Plan: Plan #0.1

Standard Planning Report

11 July, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #501H
Company:	EOG Resources - Midland	TVD Reference:	KB = 22 @ 3541.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 22 @ 3541.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#501H	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
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	#501H		
Well Position	+N/-S	300.0 usft	Northing:
	+E/-W	-2.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 9' 57.381 N
		Longitude:	103° 39' 10.930 W
		Ground Level:	3,516.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	7/11/2018	6.87
			Dip Angle
			(°)
			59.98
			Field Strength
			(nT)
			47,784.87892862

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
			(°)
			179.87

Plan Survey Tool Program	Date 7/11/2018		
Depth From	Depth To		
(usft)	(usft)	Survey (Wellbore)	Tool Name
1	0.0	15,615.5 Plan #0.1 (OH)	MWD
			OWSG MWD - Standard
			Remarks

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	
3,108.0	2.16	354.33	3,108.0	2.0	-0.2	2.00	2.00	0.00	354.33	
10,099.5	2.16	354.33	10,094.5	264.3	-26.3	0.00	0.00	0.00	0.00	
10,207.5	0.00	0.00	10,202.5	266.3	-26.5	2.00	-2.00	0.00	180.00	KOP(Savage 2 SC #5
10,857.5	90.00	179.58	10,680.0	-211.2	-23.0	12.00	12.00	23.94	179.58	
15,615.5	90.00	179.58	10,680.0	-4,869.0	11.0	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:	#501H	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
3,108.0	2.16	354.33	3,108.0	2.0	-0.2	-2.0	2.00	2.00	0.00
3,200.0	2.16	354.33	3,199.9	5.5	-0.5	-5.5	0.00	0.00	0.00
3,300.0	2.16	354.33	3,299.8	9.2	-0.9	-9.2	0.00	0.00	0.00
3,400.0	2.16	354.33	3,399.8	13.0	-1.3	-13.0	0.00	0.00	0.00
3,500.0	2.16	354.33	3,499.7	16.7	-1.7	-16.7	0.00	0.00	0.00
3,600.0	2.16	354.33	3,599.6	20.5	-2.0	-20.5	0.00	0.00	0.00
3,700.0	2.16	354.33	3,699.6	24.2	-2.4	-24.2	0.00	0.00	0.00
3,800.0	2.16	354.33	3,799.5	28.0	-2.8	-28.0	0.00	0.00	0.00
3,900.0	2.16	354.33	3,899.4	31.7	-3.2	-31.7	0.00	0.00	0.00
4,000.0	2.16	354.33	3,999.3	35.5	-3.5	-35.5	0.00	0.00	0.00
4,100.0	2.16	354.33	4,099.3	39.2	-3.9	-39.2	0.00	0.00	0.00
4,200.0	2.16	354.33	4,199.2	43.0	-4.3	-43.0	0.00	0.00	0.00
4,300.0	2.16	354.33	4,299.1	46.7	-4.6	-46.7	0.00	0.00	0.00
4,400.0	2.16	354.33	4,399.1	50.5	-5.0	-50.5	0.00	0.00	0.00
4,500.0	2.16	354.33	4,499.0	54.2	-5.4	-54.2	0.00	0.00	0.00
4,600.0	2.16	354.33	4,598.9	58.0	-5.8	-58.0	0.00	0.00	0.00
4,700.0	2.16	354.33	4,698.8	61.7	-6.1	-61.8	0.00	0.00	0.00
4,800.0	2.16	354.33	4,798.8	65.5	-6.5	-65.5	0.00	0.00	0.00
4,900.0	2.16	354.33	4,898.7	69.2	-6.9	-69.3	0.00	0.00	0.00
5,000.0	2.16	354.33	4,998.6	73.0	-7.3	-73.0	0.00	0.00	0.00
5,100.0	2.16	354.33	5,098.6	76.7	-7.6	-76.8	0.00	0.00	0.00
5,200.0	2.16	354.33	5,198.5	80.5	-8.0	-80.5	0.00	0.00	0.00
5,300.0	2.16	354.33	5,298.4	84.2	-8.4	-84.3	0.00	0.00	0.00

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Site:	Savage 2 State Com	North Reference:	Grid
Well:	#501H	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)
5,400.0	2.16	354.33	5,398.3	88.0	-8.7	-88.0	0.00	0.00	0.00
5,500.0	2.16	354.33	5,498.3	91.7	-9.1	-91.8	0.00	0.00	0.00
5,600.0	2.16	354.33	5,598.2	95.5	-9.5	-95.5	0.00	0.00	0.00
5,700.0	2.16	354.33	5,698.1	99.2	-9.9	-99.3	0.00	0.00	0.00
5,800.0	2.16	354.33	5,798.1	103.0	-10.2	-103.0	0.00	0.00	0.00
5,900.0	2.16	354.33	5,898.0	106.7	-10.6	-106.8	0.00	0.00	0.00
6,000.0	2.16	354.33	5,997.9	110.5	-11.0	-110.5	0.00	0.00	0.00
6,100.0	2.16	354.33	6,097.8	114.2	-11.4	-114.3	0.00	0.00	0.00
6,200.0	2.16	354.33	6,197.8	118.0	-11.7	-118.0	0.00	0.00	0.00
6,300.0	2.16	354.33	6,297.7	121.7	-12.1	-121.8	0.00	0.00	0.00
6,400.0	2.16	354.33	6,397.6	125.5	-12.5	-125.5	0.00	0.00	0.00
6,500.0	2.16	354.33	6,497.6	129.3	-12.8	-129.3	0.00	0.00	0.00
6,600.0	2.16	354.33	6,597.5	133.0	-13.2	-133.0	0.00	0.00	0.00
6,700.0	2.16	354.33	6,697.4	136.8	-13.6	-136.8	0.00	0.00	0.00
6,800.0	2.16	354.33	6,797.4	140.5	-14.0	-140.5	0.00	0.00	0.00
6,900.0	2.16	354.33	6,897.3	144.3	-14.3	-144.3	0.00	0.00	0.00
7,000.0	2.16	354.33	6,997.2	148.0	-14.7	-148.0	0.00	0.00	0.00
7,100.0	2.16	354.33	7,097.1	151.8	-15.1	-151.8	0.00	0.00	0.00
7,200.0	2.16	354.33	7,197.1	155.5	-15.4	-155.5	0.00	0.00	0.00
7,300.0	2.16	354.33	7,297.0	159.3	-15.8	-159.3	0.00	0.00	0.00
7,400.0	2.16	354.33	7,396.9	163.0	-16.2	-163.0	0.00	0.00	0.00
7,500.0	2.16	354.33	7,496.9	166.8	-16.6	-166.8	0.00	0.00	0.00
7,600.0	2.16	354.33	7,596.8	170.5	-16.9	-170.5	0.00	0.00	0.00
7,700.0	2.16	354.33	7,696.7	174.3	-17.3	-174.3	0.00	0.00	0.00
7,800.0	2.16	354.33	7,796.6	178.0	-17.7	-178.0	0.00	0.00	0.00
7,900.0	2.16	354.33	7,896.6	181.8	-18.1	-181.8	0.00	0.00	0.00
8,000.0	2.16	354.33	7,996.5	185.5	-18.4	-185.6	0.00	0.00	0.00
8,100.0	2.16	354.33	8,096.4	189.3	-18.8	-189.3	0.00	0.00	0.00
8,200.0	2.16	354.33	8,196.4	193.0	-19.2	-193.1	0.00	0.00	0.00
8,300.0	2.16	354.33	8,296.3	196.8	-19.5	-196.8	0.00	0.00	0.00
8,400.0	2.16	354.33	8,396.2	200.5	-19.9	-200.6	0.00	0.00	0.00
8,500.0	2.16	354.33	8,496.1	204.3	-20.3	-204.3	0.00	0.00	0.00
8,600.0	2.16	354.33	8,596.1	208.0	-20.7	-208.1	0.00	0.00	0.00
8,700.0	2.16	354.33	8,696.0	211.8	-21.0	-211.8	0.00	0.00	0.00
8,800.0	2.16	354.33	8,795.9	215.5	-21.4	-215.6	0.00	0.00	0.00
8,900.0	2.16	354.33	8,895.9	219.3	-21.8	-219.3	0.00	0.00	0.00
9,000.0	2.16	354.33	8,995.8	223.0	-22.2	-223.1	0.00	0.00	0.00
9,100.0	2.16	354.33	9,095.7	226.8	-22.5	-226.8	0.00	0.00	0.00
9,200.0	2.16	354.33	9,195.6	230.5	-22.9	-230.6	0.00	0.00	0.00
9,300.0	2.16	354.33	9,295.6	234.3	-23.3	-234.3	0.00	0.00	0.00
9,400.0	2.16	354.33	9,395.5	238.0	-23.6	-238.1	0.00	0.00	0.00
9,500.0	2.16	354.33	9,495.4	241.8	-24.0	-241.8	0.00	0.00	0.00
9,600.0	2.16	354.33	9,595.4	245.5	-24.4	-245.6	0.00	0.00	0.00
9,700.0	2.16	354.33	9,695.3	249.3	-24.8	-249.3	0.00	0.00	0.00
9,800.0	2.16	354.33	9,795.2	253.0	-25.1	-253.1	0.00	0.00	0.00
9,900.0	2.16	354.33	9,895.1	256.8	-25.5	-256.8	0.00	0.00	0.00
10,000.0	2.16	354.33	9,995.1	260.5	-25.9	-260.6	0.00	0.00	0.00
10,099.5	2.16	354.33	10,094.5	264.3	-26.3	-264.3	0.00	0.00	0.00
10,207.5	0.00	0.00	10,202.5	268.3	-26.5	-268.3	2.00	-2.00	0.00
KOP(Savage 2 SC #501H)									
10,225.0	2.10	179.58	10,220.0	268.0	-26.5	-266.0	12.00	12.00	0.00
10,250.0	5.10	179.58	10,244.9	264.4	-26.4	-264.5	12.00	12.00	0.00
10,275.0	8.10	179.58	10,269.8	261.5	-26.4	-261.6	12.00	12.00	0.00



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Site:	Savage 2 State Com	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)
10,300.0	11.10	179.58	10,294.4	257.4	-26.4	-257.4	12.00	12.00	0.00
10,325.0	14.10	179.58	10,318.8	251.9	-26.4	-252.0	12.00	12.00	0.00
10,350.0	17.10	179.58	10,342.9	245.2	-26.3	-245.2	12.00	12.00	0.00
10,375.0	20.10	179.58	10,366.6	237.2	-26.2	-237.3	12.00	12.00	0.00
10,400.0	23.10	179.58	10,389.8	228.0	-26.2	-228.1	12.00	12.00	0.00
10,425.0	26.10	179.58	10,412.5	217.6	-26.1	-217.7	12.00	12.00	0.00
10,450.0	29.10	179.58	10,434.7	206.0	-26.0	-206.1	12.00	12.00	0.00
10,475.0	32.10	179.58	10,456.2	193.3	-25.9	-193.4	12.00	12.00	0.00
10,500.0	35.10	179.58	10,477.0	179.5	-25.8	-179.5	12.00	12.00	0.00
10,525.0	38.10	179.58	10,497.1	164.6	-25.7	-164.6	12.00	12.00	0.00
10,550.0	41.10	179.58	10,516.4	148.6	-25.6	-148.7	12.00	12.00	0.00
10,575.0	44.10	179.58	10,534.8	131.7	-25.5	-131.8	12.00	12.00	0.00
10,600.0	47.10	179.58	10,552.3	113.9	-25.3	-113.9	12.00	12.00	0.00
10,607.9	48.04	179.58	10,557.6	108.0	-25.3	-108.1	12.00	12.00	0.00
FTP(Savage 2 SC #501H)									
10,625.0	50.10	179.58	10,568.8	95.1	-25.2	-95.2	12.00	12.00	0.00
10,650.0	53.10	179.58	10,584.3	75.5	-25.1	-75.6	12.00	12.00	0.00
10,675.0	56.10	179.58	10,598.8	55.1	-24.9	-55.2	12.00	12.00	0.00
10,700.0	59.10	179.58	10,612.2	34.0	-24.8	-34.1	12.00	12.00	0.00
10,725.0	62.10	179.58	10,624.5	12.3	-24.6	-12.3	12.00	12.00	0.00
10,750.0	65.10	179.58	10,635.6	-10.1	-24.4	10.1	12.00	12.00	0.00
10,775.0	68.10	179.58	10,645.5	-33.1	-24.3	33.0	12.00	12.00	0.00
10,800.0	71.10	179.58	10,654.2	-56.5	-24.1	56.4	12.00	12.00	0.00
10,825.0	74.10	179.58	10,661.7	-80.3	-23.9	80.3	12.00	12.00	0.00
10,850.0	77.10	179.58	10,667.9	-104.6	-23.8	104.5	12.00	12.00	0.00
10,875.0	80.10	179.58	10,672.9	-129.1	-23.6	129.0	12.00	12.00	0.00
10,900.0	83.10	179.58	10,676.5	-153.8	-23.4	153.7	12.00	12.00	0.00
10,925.0	86.10	179.58	10,678.9	-178.7	-23.2	178.6	12.00	12.00	0.00
10,950.0	89.10	179.58	10,679.9	-203.6	-23.0	203.6	12.00	12.00	0.00
10,957.5	90.00	179.58	10,680.0	-211.2	-23.0	211.1	12.00	12.00	0.00
11,000.0	90.00	179.58	10,680.0	-253.6	-22.7	253.6	0.00	0.00	0.00
11,100.0	90.00	179.58	10,680.0	-353.6	-21.9	353.6	0.00	0.00	0.00
11,200.0	90.00	179.58	10,680.0	-453.6	-21.2	453.6	0.00	0.00	0.00
11,300.0	90.00	179.58	10,680.0	-553.6	-20.5	553.6	0.00	0.00	0.00
11,400.0	90.00	179.58	10,680.0	-653.6	-19.7	653.6	0.00	0.00	0.00
11,500.0	90.00	179.58	10,680.0	-753.6	-19.0	753.6	0.00	0.00	0.00
11,600.0	90.00	179.58	10,680.0	-853.6	-18.3	853.6	0.00	0.00	0.00
11,700.0	90.00	179.58	10,680.0	-953.6	-17.6	953.6	0.00	0.00	0.00
11,800.0	90.00	179.58	10,680.0	-1,053.6	-16.8	1,053.6	0.00	0.00	0.00
11,900.0	90.00	179.58	10,680.0	-1,153.6	-16.1	1,153.6	0.00	0.00	0.00
12,000.0	90.00	179.58	10,680.0	-1,253.6	-15.4	1,253.6	0.00	0.00	0.00
12,100.0	90.00	179.58	10,680.0	-1,353.6	-14.6	1,353.6	0.00	0.00	0.00
12,200.0	90.00	179.58	10,680.0	-1,453.6	-13.9	1,453.6	0.00	0.00	0.00
12,300.0	90.00	179.58	10,680.0	-1,553.6	-13.2	1,553.6	0.00	0.00	0.00
12,400.0	90.00	179.58	10,680.0	-1,653.6	-12.5	1,653.6	0.00	0.00	0.00
12,500.0	90.00	179.58	10,680.0	-1,753.6	-11.7	1,753.6	0.00	0.00	0.00
12,600.0	90.00	179.58	10,680.0	-1,853.6	-11.0	1,853.6	0.00	0.00	0.00
12,700.0	90.00	179.58	10,680.0	-1,953.6	-10.3	1,953.6	0.00	0.00	0.00
12,800.0	90.00	179.58	10,680.0	-2,053.6	-9.5	2,053.6	0.00	0.00	0.00
12,900.0	90.00	179.58	10,680.0	-2,153.6	-8.8	2,153.6	0.00	0.00	0.00
13,000.0	90.00	179.58	10,680.0	-2,253.6	-8.1	2,253.6	0.00	0.00	0.00
13,100.0	90.00	179.58	10,680.0	-2,353.6	-7.3	2,353.6	0.00	0.00	0.00
13,200.0	90.00	179.58	10,680.0	-2,453.6	-6.6	2,453.6	0.00	0.00	0.00
13,300.0	90.00	179.58	10,680.0	-2,553.6	-5.9	2,553.6	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #501H
Company:	EOG Resources - Midland	TVD Reference:	KB = 22 @ 3541.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 22 @ 3541.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#501H	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)
13,400.0	90.00	179.58	10,680.0	-2,653.6	-5.2	2,653.6	0.00	0.00	0.00
13,500.0	90.00	179.58	10,680.0	-2,753.6	-4.4	2,753.6	0.00	0.00	0.00
13,600.0	90.00	179.58	10,680.0	-2,853.6	-3.7	2,853.6	0.00	0.00	0.00
13,700.0	90.00	179.58	10,680.0	-2,953.6	-3.0	2,953.6	0.00	0.00	0.00
13,800.0	90.00	179.58	10,680.0	-3,053.6	-2.2	3,053.6	0.00	0.00	0.00
13,900.0	90.00	179.58	10,680.0	-3,153.6	-1.5	3,153.6	0.00	0.00	0.00
14,000.0	90.00	179.58	10,680.0	-3,253.6	-0.8	3,253.6	0.00	0.00	0.00
14,100.0	90.00	179.58	10,680.0	-3,353.6	-0.1	3,353.6	0.00	0.00	0.00
14,200.0	90.00	179.58	10,680.0	-3,453.6	0.7	3,453.6	0.00	0.00	0.00
14,300.0	90.00	179.58	10,680.0	-3,553.6	1.4	3,553.6	0.00	0.00	0.00
14,400.0	90.00	179.58	10,680.0	-3,653.6	2.1	3,653.6	0.00	0.00	0.00
14,500.0	90.00	179.58	10,680.0	-3,753.6	2.9	3,753.6	0.00	0.00	0.00
14,600.0	90.00	179.58	10,680.0	-3,853.6	3.6	3,853.6	0.00	0.00	0.00
14,700.0	90.00	179.58	10,680.0	-3,953.5	4.3	3,953.5	0.00	0.00	0.00
14,800.0	90.00	179.58	10,680.0	-4,053.5	5.1	4,053.5	0.00	0.00	0.00
14,900.0	90.00	179.58	10,680.0	-4,153.5	5.8	4,153.5	0.00	0.00	0.00
15,000.0	90.00	179.58	10,680.0	-4,253.5	6.5	4,253.5	0.00	0.00	0.00
15,100.0	90.00	179.58	10,680.0	-4,353.5	7.2	4,353.5	0.00	0.00	0.00
15,200.0	90.00	179.58	10,680.0	-4,453.5	8.0	4,453.5	0.00	0.00	0.00
15,300.0	90.00	179.58	10,680.0	-4,553.5	8.7	4,553.5	0.00	0.00	0.00
15,400.0	90.00	179.58	10,680.0	-4,653.5	9.4	4,653.5	0.00	0.00	0.00
15,500.0	90.00	179.58	10,680.0	-4,753.5	10.2	4,753.5	0.00	0.00	0.00
15,600.0	90.00	179.58	10,680.0	-4,853.5	10.9	4,853.5	0.00	0.00	0.00
15,615.5	90.00	179.58	10,680.0	-4,869.0	11.0	4,869.0	0.00	0.00	0.00

PBHL(Savage 2 SC #501H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Eastng (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KOP(Savage 2 SC #501	0.00	0.00	10,202.5	266.3	-26.5	425,035.28	751,816.54	32° 10' 0.017 N	103° 39' 11.218 W
- plan hits target center									
- Point									
FTP(Savage 2 SC #501I	0.00	0.00	10,680.0	216.0	-26.0	424,985.00	751,817.00	32° 9' 59.520 N	103° 39' 11.216 W
- plan misses target center by 163.2usft at 10607.9usft MD (10557.6 TVD, 108.0 N, -25.3 E)									
- Point									
PBHL(Savage 2 SC #50	0.00	0.00	10,680.0	-4,869.0	11.0	419,900.00	751,854.00	32° 9' 9.199 N	103° 39' 11.160 W
- plan hits target center									
- Polygon									
Point 1			10,680.0	5,160.1	-87.5	425,060.10	751,766.50		
Point 2			10,680.0	5,161.2	37.3	425,061.20	751,891.30		
Point 3			10,680.0	5,085.7	38.0	424,985.70	751,892.00		
Point 4			10,680.0	5,085.2	-7.0	424,985.20	751,847.00		
Point 5			10,680.0	0.4	30.0	419,900.40	751,884.00		
Point 6			10,680.0	-0.2	-30.0	419,899.80	751,824.00		
Point 7			10,680.0	5,160.1	-87.5	425,060.10	751,766.50		



Lea County, NM (NAD 83 NME)

Savage 2 State Com #501H

Plan #0.1

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

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

WELL DETAILS: #501H

KB = 21 @ 2641.0usl
Northing 426768.00 Easting 751843.00
Latitude 32° 0' 67.301" N Longitude 103° 29' 10.630" W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+NLS	+E/W	Dlog	TFace	VFace	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	3108.0	2.16	354.33	3108.0	2.0	-0.2	2.00	354.33	-2.0	
4	10089.5	2.16	354.33	10089.5	254.3	-26.3	0.00	0.00	-254.3	
5	10207.5	0.00	0.00	10202.5	258.3	-26.5	2.00	180.00	-258.3	KOP(Savage 2 SC #501H)
6	19957.5	90.00	179.58	10680.0	-211.2	-23.0	12.00	179.58	211.1	
7	19815.0	90.00	179.58	10680.0	-4869.0	11.0	0.00	0.00	4869.0	PBHL(Savage 2 SC #501H)

CASING DETAILS

No casing data is available

WELLBORE TYPING DETAILS (MAP CO-ORDINATES)

Name	TVD	+NLS	+E/W	Northing	Easting
KOP(Savage 2 SC #501H)	10302.5	258.3	-26.5	426768.23	751818.88
FTP(Savage 2 SC #501H)	10690.0	216.0	-25.0	426765.00	751817.80
PBHL(Savage 2 SC #501H)	10680.0	-4869.0	11.0	419005.00	751854.00

