



Lea County, NM (NAD 83 NME)

Savage 2 State Com #505Y

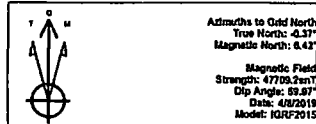
Plan #1

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

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

WELL DETAILS: #505Y

KB = 25' @ 3555 Depth 3530.0
Northing 424640.00 Easting 754576.00 Latitude 32° 5' 53.932 N Longitude 102° 38' 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

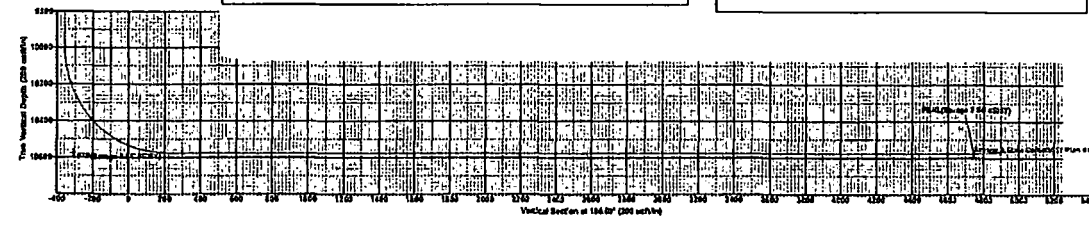
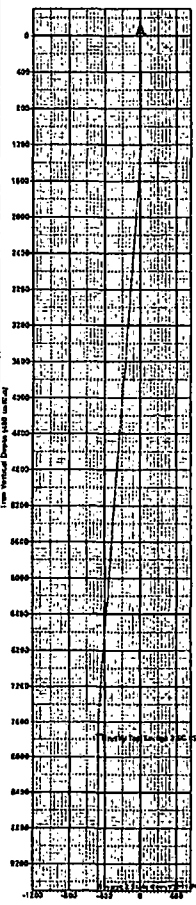
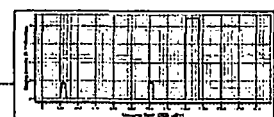
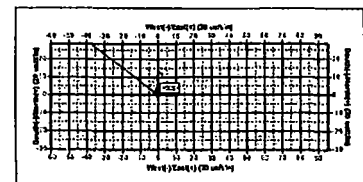
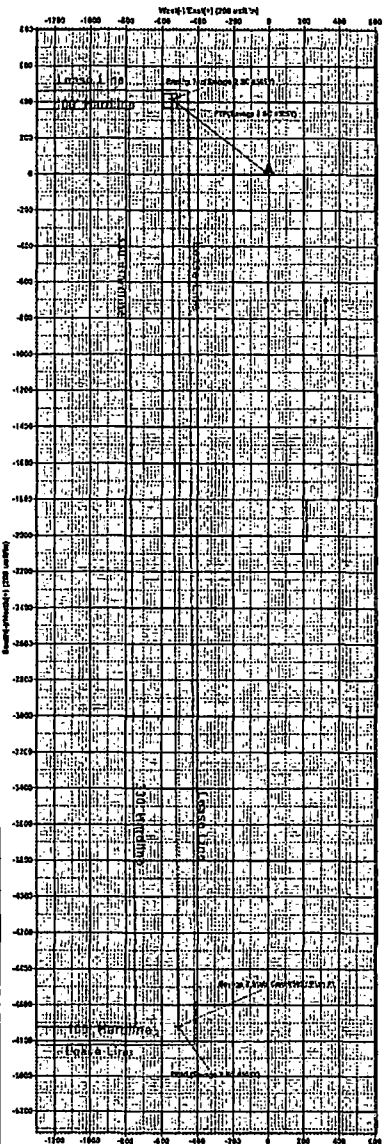
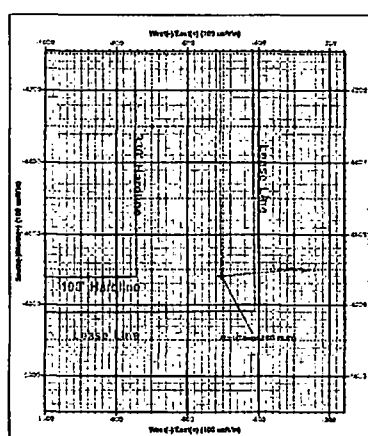
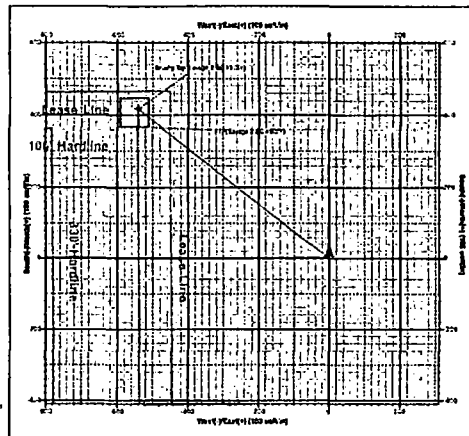
Sec	MD	Inc	Art	TVD	+N-S	+E-W	Dlog	TFace	VBact	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	1300.0	0.00	0.00	1300.0	0.0	0.00	0.00	0.00	0.0	
3	1618.3	6.37	307.57	1617.6	10.8	-14.0	2.00	307.57	-9.2	
4	7486.1	6.37	307.57	7431.4	408.2	-528.0	0.00	0.00	-347.9	
5	7786.4	0.00	0.00	7749.0	417.0	-542.0	2.00	180.00	-357.1	Brushy Top(Savage 2 SC #505Y)
6	10040.4	0.00	0.00	10003.0	417.0	-542.0	0.00	0.00	-357.1	
7	10940.4	00.00	179.58	10376.0	-155.9	-537.8	10.00	179.58	212.2	
8	15504.6	90.00	179.58	10376.0	-4720.0	-504.0	0.00	0.00	4746.0	PBHL(Savage 2 SC #505Y)

CASTING DETAILS

No casting data to be displayed

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(Savage 2 SC #505Y)	7749.0	417.0	-542.0	424640.00	754576.00
PTPL(Savage 2 SC #505Y)	10376.0	387.0	-647.0	425007.00	754038.00
PBHL(Savage 2 SC #505Y)	10376.0	-4720.0	-504.0	419920.00	754074.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#505Y

OH

Plan: Plan #1

Standard Planning Report

08 April, 2019



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #505Y
Wellbore: OH
Design: Plan #1

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

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° 9' 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	#505Y					
Well Position	+N/-S	171.0 usft	Northing:	424,640.00 usft	Latitude:	32° 9' 55.932 N
	+E/-W	2,733.0 usft	Easting:	754,578.00 usft	Longitude:	103° 38' 39.122 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,530.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/8/2019	6.79	59.97	47,709.24702522

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	186.09

Plan Survey Tool Program		Date	4/8/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	15,504.6	Plan #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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,618.3	6.37	307.57	1,617.6	10.8	-14.0	2.00	2.00	0.00	307.57	
7,468.1	6.37	307.57	7,431.4	406.2	-528.0	0.00	0.00	0.00	0.00	
7,786.4	0.00	0.00	7,749.0	417.0	-542.0	2.00	-2.00	0.00	180.00	Brushy Top(Savage 2
10,040.4	0.00	0.00	10,003.0	417.0	-542.0	0.00	0.00	0.00	0.00	
10,940.4	90.00	179.58	10,576.0	-155.9	-537.8	10.00	10.00	19.95	179.58	
15,504.6	90.00	179.58	10,576.0	-4,720.0	-504.0	0.00	0.00	0.00	0.00	PBHL(Savage 2 SC #



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Savage 2 State Corn
 Well: #505Y
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well #505Y
 KB = 25' @ 3555.0usft
 KB = 25' @ 3555.0usft
 Grid
 Minimum Curvature

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	2.00	307.57	1,400.0	1.1	-1.4	-0.9	2.00	2.00	0.00
1,500.0	4.00	307.57	1,499.8	4.3	-5.5	-3.6	2.00	2.00	0.00
1,600.0	6.00	307.57	1,599.5	9.6	-12.4	-8.2	2.00	2.00	0.00
1,618.3	6.37	307.57	1,617.6	10.8	-14.0	-9.2	2.00	2.00	0.00
1,700.0	6.37	307.57	1,698.8	16.3	-21.2	-14.0	0.00	0.00	0.00
1,800.0	6.37	307.57	1,798.2	23.1	-30.0	-19.7	0.00	0.00	0.00
1,900.0	6.37	307.57	1,897.6	29.8	-38.8	-25.5	0.00	0.00	0.00
2,000.0	6.37	307.57	1,997.0	36.6	-47.5	-31.3	0.00	0.00	0.00
2,100.0	6.37	307.57	2,096.4	43.3	-56.3	-37.1	0.00	0.00	0.00
2,200.0	6.37	307.57	2,195.8	50.1	-65.1	-42.9	0.00	0.00	0.00
2,300.0	6.37	307.57	2,295.1	56.9	-73.9	-48.7	0.00	0.00	0.00
2,400.0	6.37	307.57	2,394.5	63.6	-82.7	-54.5	0.00	0.00	0.00
2,500.0	6.37	307.57	2,493.9	70.4	-91.5	-60.3	0.00	0.00	0.00
2,600.0	6.37	307.57	2,593.3	77.1	-100.3	-66.1	0.00	0.00	0.00
2,700.0	6.37	307.57	2,692.7	83.9	-109.0	-71.8	0.00	0.00	0.00
2,800.0	6.37	307.57	2,792.1	90.7	-117.8	-77.6	0.00	0.00	0.00
2,900.0	6.37	307.57	2,891.4	97.4	-126.6	-83.4	0.00	0.00	0.00
3,000.0	6.37	307.57	2,990.8	104.2	-135.4	-89.2	0.00	0.00	0.00
3,100.0	6.37	307.57	3,090.2	110.9	-144.2	-95.0	0.00	0.00	0.00
3,200.0	6.37	307.57	3,189.6	117.7	-153.0	-100.8	0.00	0.00	0.00
3,300.0	6.37	307.57	3,289.0	124.5	-161.8	-106.6	0.00	0.00	0.00
3,400.0	6.37	307.57	3,388.4	131.2	-170.6	-112.4	0.00	0.00	0.00
3,500.0	6.37	307.57	3,487.7	138.0	-179.3	-118.2	0.00	0.00	0.00
3,600.0	6.37	307.57	3,587.1	144.7	-188.1	-123.9	0.00	0.00	0.00
3,700.0	6.37	307.57	3,686.5	151.5	-196.9	-129.7	0.00	0.00	0.00
3,800.0	6.37	307.57	3,785.9	158.3	-205.7	-135.5	0.00	0.00	0.00
3,900.0	6.37	307.57	3,885.3	165.0	-214.5	-141.3	0.00	0.00	0.00
4,000.0	6.37	307.57	3,984.7	171.8	-223.3	-147.1	0.00	0.00	0.00
4,100.0	6.37	307.57	4,084.0	178.5	-232.1	-152.9	0.00	0.00	0.00
4,200.0	6.37	307.57	4,183.4	185.3	-240.8	-158.7	0.00	0.00	0.00
4,300.0	6.37	307.57	4,282.8	192.1	-249.6	-164.5	0.00	0.00	0.00
4,400.0	6.37	307.57	4,382.2	198.8	-258.4	-170.3	0.00	0.00	0.00
4,500.0	6.37	307.57	4,481.6	205.6	-267.2	-176.0	0.00	0.00	0.00
4,600.0	6.37	307.57	4,581.0	212.3	-276.0	-181.8	0.00	0.00	0.00
4,700.0	6.37	307.57	4,680.3	219.1	-284.8	-187.6	0.00	0.00	0.00
4,800.0	6.37	307.57	4,779.7	225.9	-293.6	-193.4	0.00	0.00	0.00
4,900.0	6.37	307.57	4,879.1	232.6	-302.4	-199.2	0.00	0.00	0.00
5,000.0	6.37	307.57	4,978.5	239.4	-311.1	-205.0	0.00	0.00	0.00
5,100.0	6.37	307.57	5,077.9	246.1	-319.9	-210.8	0.00	0.00	0.00
5,200.0	6.37	307.57	5,177.3	252.9	-328.7	-216.6	0.00	0.00	0.00



Planning Report

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 Wellbore: OH
 Design: Plan #1

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 TVD Reference: KB = 25' @ 3555.0usft
 MD Reference: KB = 25' @ 3555.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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	6.37	307.57	5,276.7	259.7	-337.5	-222.4	0.00	0.00	0.00
5,400.0	6.37	307.57	5,376.0	266.4	-346.3	-228.1	0.00	0.00	0.00
5,500.0	6.37	307.57	5,475.4	273.2	-355.1	-233.9	0.00	0.00	0.00
5,600.0	6.37	307.57	5,574.8	279.9	-363.9	-239.7	0.00	0.00	0.00
5,700.0	6.37	307.57	5,674.2	286.7	-372.8	-245.5	0.00	0.00	0.00
5,800.0	6.37	307.57	5,773.6	293.5	-381.4	-251.3	0.00	0.00	0.00
5,900.0	6.37	307.57	5,873.0	300.2	-390.2	-257.1	0.00	0.00	0.00
6,000.0	6.37	307.57	5,972.3	307.0	-399.0	-262.9	0.00	0.00	0.00
6,100.0	6.37	307.57	6,071.7	313.7	-407.8	-268.7	0.00	0.00	0.00
6,200.0	6.37	307.57	6,171.1	320.5	-416.6	-274.5	0.00	0.00	0.00
6,300.0	6.37	307.57	6,270.5	327.3	-425.4	-280.3	0.00	0.00	0.00
6,400.0	6.37	307.57	6,369.9	334.0	-434.2	-286.0	0.00	0.00	0.00
6,500.0	6.37	307.57	6,469.3	340.8	-442.9	-291.8	0.00	0.00	0.00
6,600.0	6.37	307.57	6,568.6	347.5	-451.7	-297.6	0.00	0.00	0.00
6,700.0	6.37	307.57	6,668.0	354.3	-460.5	-303.4	0.00	0.00	0.00
6,800.0	6.37	307.57	6,767.4	361.1	-469.3	-309.2	0.00	0.00	0.00
6,900.0	6.37	307.57	6,866.8	367.8	-478.1	-315.0	0.00	0.00	0.00
7,000.0	6.37	307.57	6,966.2	374.6	-486.9	-320.8	0.00	0.00	0.00
7,100.0	6.37	307.57	7,065.6	381.3	-495.7	-326.6	0.00	0.00	0.00
7,200.0	6.37	307.57	7,164.9	388.1	-504.4	-332.4	0.00	0.00	0.00
7,300.0	6.37	307.57	7,264.3	394.9	-513.2	-338.1	0.00	0.00	0.00
7,400.0	6.37	307.57	7,363.7	401.6	-522.0	-343.9	0.00	0.00	0.00
7,468.1	6.37	307.57	7,431.4	406.2	-528.0	-347.9	0.00	0.00	0.00
7,500.0	5.73	307.57	7,483.1	408.3	-530.7	-349.6	2.00	-2.00	0.00
7,600.0	3.73	307.57	7,562.8	413.3	-537.2	-353.9	2.00	-2.00	0.00
7,700.0	1.73	307.57	7,662.6	416.2	-541.0	-356.4	2.00	-2.00	0.00
7,786.4	0.00	0.00	7,749.0	417.0	-542.0	-357.1	2.00	-2.00	0.00
7,800.0	0.00	0.00	7,762.6	417.0	-542.0	-357.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,862.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,962.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,062.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,162.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,262.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,362.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,462.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,562.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,662.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,762.6	417.0	-542.0	-357.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,862.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,962.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,062.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,162.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,262.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,362.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,462.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,562.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,662.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,762.6	417.0	-542.0	-357.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,862.6	417.0	-542.0	-357.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,962.6	417.0	-542.0	-357.1	0.00	0.00	0.00
10,040.4	0.00	0.00	10,003.0	417.0	-542.0	-357.1	0.00	0.00	0.00
10,050.0	0.96	179.58	10,012.6	416.9	-542.0	-357.0	10.00	10.00	0.00
10,100.0	5.96	179.58	10,062.5	413.9	-542.0	-354.0	10.00	10.00	0.00
10,150.0	10.96	179.58	10,112.0	406.5	-541.9	-346.7	10.00	10.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Savage 2 State Com
 Well: #505Y
 Wellbore: OH
 Design: Plan #1

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

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)
10,200.0	15.96	179.58	10,160.6	394.9	-541.8	-335.1	10.00	10.00	0.00
10,250.0	20.96	179.58	10,208.0	379.1	-541.7	-319.4	10.00	10.00	0.00
10,300.0	25.96	179.58	10,253.8	359.2	-541.6	-299.6	10.00	10.00	0.00
10,350.0	30.96	179.58	10,297.8	335.4	-541.4	-276.0	10.00	10.00	0.00
10,400.0	35.96	179.58	10,339.5	307.8	-541.2	-248.6	10.00	10.00	0.00
10,450.0	40.96	179.58	10,378.6	276.7	-541.0	-217.7	10.00	10.00	0.00
10,500.0	45.96	179.58	10,414.9	242.3	-540.7	-183.5	10.00	10.00	0.00
10,550.0	50.96	179.58	10,448.0	204.9	-540.4	-146.4	10.00	10.00	0.00
10,600.0	55.96	179.58	10,477.8	164.7	-540.1	-106.5	10.00	10.00	0.00
10,650.0	60.96	179.58	10,503.9	122.1	-539.8	-64.1	10.00	10.00	0.00
10,700.0	65.96	179.58	10,526.3	77.4	-539.5	-19.7	10.00	10.00	0.00
10,750.0	70.96	179.58	10,544.6	30.9	-539.1	26.5	10.00	10.00	0.00
10,800.0	75.96	179.58	10,558.8	-17.0	-538.8	74.1	10.00	10.00	0.00
10,850.0	80.96	179.58	10,568.8	-66.0	-538.4	122.7	10.00	10.00	0.00
10,900.0	85.96	179.58	10,574.5	-115.6	-538.1	172.1	10.00	10.00	0.00
10,940.4	90.00	179.58	10,576.0	-155.9	-537.8	212.2	10.00	10.00	0.00
11,000.0	90.00	179.58	10,576.0	-215.6	-537.3	271.4	0.00	0.00	0.00
11,100.0	90.00	179.58	10,576.0	-315.6	-536.6	370.8	0.00	0.00	0.00
11,200.0	90.00	179.58	10,576.0	-415.6	-535.8	470.1	0.00	0.00	0.00
11,300.0	90.00	179.58	10,576.0	-515.6	-535.1	569.5	0.00	0.00	0.00
11,400.0	90.00	179.58	10,576.0	-615.6	-534.4	668.8	0.00	0.00	0.00
11,500.0	90.00	179.58	10,576.0	-715.6	-533.6	768.2	0.00	0.00	0.00
11,600.0	90.00	179.58	10,576.0	-815.6	-532.9	867.5	0.00	0.00	0.00
11,700.0	90.00	179.58	10,576.0	-915.6	-532.1	966.9	0.00	0.00	0.00
11,800.0	90.00	179.58	10,576.0	-1,015.5	-531.4	1,066.2	0.00	0.00	0.00
11,900.0	90.00	179.58	10,576.0	-1,115.5	-530.7	1,165.6	0.00	0.00	0.00
12,000.0	90.00	179.58	10,576.0	-1,215.5	-529.9	1,264.9	0.00	0.00	0.00
12,100.0	90.00	179.58	10,576.0	-1,315.5	-529.2	1,364.3	0.00	0.00	0.00
12,200.0	90.00	179.58	10,576.0	-1,415.5	-528.4	1,463.6	0.00	0.00	0.00
12,300.0	90.00	179.58	10,576.0	-1,515.5	-527.7	1,563.0	0.00	0.00	0.00
12,400.0	90.00	179.58	10,576.0	-1,615.5	-527.0	1,662.4	0.00	0.00	0.00
12,500.0	90.00	179.58	10,576.0	-1,715.5	-526.2	1,761.7	0.00	0.00	0.00
12,600.0	90.00	179.58	10,576.0	-1,815.5	-525.5	1,861.1	0.00	0.00	0.00
12,700.0	90.00	179.58	10,576.0	-1,915.5	-524.7	1,960.4	0.00	0.00	0.00
12,800.0	90.00	179.58	10,576.0	-2,015.5	-524.0	2,059.8	0.00	0.00	0.00
12,900.0	90.00	179.58	10,576.0	-2,115.5	-523.3	2,159.1	0.00	0.00	0.00
13,000.0	90.00	179.58	10,576.0	-2,215.5	-522.5	2,258.5	0.00	0.00	0.00
13,100.0	90.00	179.58	10,576.0	-2,315.5	-521.8	2,357.8	0.00	0.00	0.00
13,200.0	90.00	179.58	10,576.0	-2,415.5	-521.0	2,457.2	0.00	0.00	0.00
13,300.0	90.00	179.58	10,576.0	-2,515.5	-520.3	2,556.5	0.00	0.00	0.00
13,400.0	90.00	179.58	10,576.0	-2,615.5	-519.6	2,655.9	0.00	0.00	0.00
13,500.0	90.00	179.58	10,576.0	-2,715.5	-518.8	2,755.2	0.00	0.00	0.00
13,600.0	90.00	179.58	10,576.0	-2,815.5	-518.1	2,854.6	0.00	0.00	0.00
13,700.0	90.00	179.58	10,576.0	-2,915.5	-517.3	2,953.9	0.00	0.00	0.00
13,800.0	90.00	179.58	10,576.0	-3,015.5	-516.6	3,053.3	0.00	0.00	0.00
13,900.0	90.00	179.58	10,576.0	-3,115.5	-515.9	3,152.7	0.00	0.00	0.00
14,000.0	90.00	179.58	10,576.0	-3,215.5	-515.1	3,252.0	0.00	0.00	0.00
14,100.0	90.00	179.58	10,576.0	-3,315.5	-514.4	3,351.4	0.00	0.00	0.00
14,200.0	90.00	179.58	10,576.0	-3,415.5	-513.6	3,450.7	0.00	0.00	0.00
14,300.0	90.00	179.58	10,576.0	-3,515.5	-512.9	3,550.1	0.00	0.00	0.00
14,400.0	90.00	179.58	10,576.0	-3,615.5	-512.2	3,649.4	0.00	0.00	0.00
14,500.0	90.00	179.58	10,576.0	-3,715.5	-511.4	3,748.8	0.00	0.00	0.00
14,600.0	90.00	179.58	10,576.0	-3,815.5	-510.7	3,848.1	0.00	0.00	0.00
14,700.0	90.00	179.58	10,576.0	-3,915.5	-510.0	3,947.5	0.00	0.00	0.00



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 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
14,800.0	90.00	179.58	10,576.0	-4,015.5	-509.2	4,046.8	0.00	0.00	0.00
14,900.0	90.00	179.58	10,576.0	-4,115.5	-508.5	4,146.2	0.00	0.00	0.00
15,000.0	90.00	179.58	10,576.0	-4,215.5	-507.7	4,245.5	0.00	0.00	0.00
15,100.0	90.00	179.58	10,576.0	-4,315.5	-507.0	4,344.9	0.00	0.00	0.00
15,200.0	90.00	179.58	10,576.0	-4,415.5	-506.3	4,444.2	0.00	0.00	0.00
15,300.0	90.00	179.58	10,576.0	-4,515.5	-505.5	4,543.6	0.00	0.00	0.00
15,400.0	90.00	179.58	10,576.0	-4,615.5	-504.8	4,643.0	0.00	0.00	0.00
15,504.6	90.00	179.58	10,576.0	-4,720.0	-504.0	4,746.8	0.00	0.00	0.00

Design 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
Brushy Top(Savage 2 SC - plan hits target center - Polygon	0.00	0.00	7,749.0	417.0	-542.0	425,057.00	754,036.00	32° 10' 0.093 N	103° 38' 45.396 W
Point 1			7,749.0	30.0	-50.0	425,087.00	753,986.00		
Point 2			7,749.0	30.0	30.0	425,087.00	754,066.00		
Point 3			7,749.0	-50.0	30.0	425,007.00	754,066.00		
Point 4			7,749.0	-50.0	-50.0	425,007.00	753,986.00		
PBHL(Savage 2 SC #50 - plan hits target center - Point	0.00	0.00	10,576.0	-4,720.0	-504.0	419,920.00	754,074.00	32° 9' 9.257 N	103° 38' 45.336 W
FTP(Savage 2 SC #505' - plan misses target center by 202.8usft at 10513.5usft MD (10424.2 TVD, 232.5 N, -540.6 E) - Point	0.00	0.00	10,576.0	367.0	-542.0	425,007.00	754,036.00	32° 9' 59.598 N	103° 38' 45.400 W