

30025-41001

HOBBS OCD

FEB 14 2013

RECEIVED

Permian District

**NM - Bone Spring Sand Project
McCloy Ranch 29-24-33 ST 4H
Well #1**

Wellbore #1

Plan: Plat 08Feb13

Standard Planning Report

11 February, 2013

FEB 19 2013

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 29-24-33 ST 4H
Company:	Permian District	TVD Reference:	RKB @ 3548.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3548.0usft
Site:	McCloy Ranch 29-24-33 ST 4H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat.08Feb13		

Project	NM - Bone Spring Sand Project		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		McCloy Ranch 29-24-33 ST 4H			
Site Position:		Northing:	435,643.00 ft	Latitude:	32° 11' 43.77277655 N
From:	Map	Easting:	730,996.00 ft	Longitude:	103° 35' 11.75065421 W
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in	Grid Convergence:	0.40 °

Well:	Well #1					
Well Position	+N/-S	0.0 usft	Northing:	435,643.00 ft	Latitude:	32° 11' 43.77277655 N
	+E/-W	0.0 usft	Easting:	730,996.00 ft	Longitude:	103° 35' 11.75065421 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,531.0 usft	Ground Level:	3,531.0 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/11/2013	7.39	60.12	48,431

Design	Plat.08Feb13			
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	179.59

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	
10,575.9	0.00	0.00	10,575.9	0.0	0.0	0.00	0.00	0.00	0.00	
11,327.6	90.20	179.59	11,053.4	-479.1	3.5	12.00	12.00	0.00	179.59	
15,701.6	90.20	179.59	11,038.1	-4,853.0	35.0	0.00	0.00	0.00	0.00	McCloy Ranch 29-2

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 29-24-33 ST 4H
Company:	Permian District	TVD Reference:	RKB @ 3548.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3548.0usft
Site:	McCloy Ranch 29-24-33 ST 4H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 08Feb13		

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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 29-24-33 ST 4H
Company:	Permian District	TVD Reference:	RKB @ 3548.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3548.0usft
Site:	McCloy Ranch 29-24-33 ST 4H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 08Feb13		

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	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,575.9	0.00	0.00	10,575.9	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	2.89	179.59	10,600.0	-0.6	0.0	0.6	12.00	12.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 29-24-33 ST 4H
Company:	Permian District	TVD Reference:	RKB @ 3548.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3548.0usft
Site:	McCloy Ranch 29-24-33 ST 4H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 08Feb13		

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)	
10,625.0	5.89	179.59	10,624.9	-2.5	0.0	2.5	12.00	12.00	0.00	
10,650.0	8.89	179.59	10,649.7	-5.7	0.0	5.7	12.00	12.00	0.00	
10,675.0	11.89	179.59	10,674.3	-10.2	0.1	10.2	12.00	12.00	0.00	
10,700.0	14.89	179.59	10,698.6	-16.0	0.1	16.0	12.00	12.00	0.00	
10,725.0	17.89	179.59	10,722.6	-23.1	0.2	23.1	12.00	12.00	0.00	
10,750.0	20.89	179.59	10,746.2	-31.4	0.2	31.4	12.00	12.00	0.00	
10,775.0	23.89	179.59	10,769.3	-40.9	0.3	40.9	12.00	12.00	0.00	
10,800.0	26.89	179.59	10,791.9	-51.6	0.4	51.6	12.00	12.00	0.00	
10,825.0	29.89	179.59	10,813.9	-63.5	0.5	63.5	12.00	12.00	0.00	
10,850.0	32.89	179.59	10,835.2	-76.5	0.6	76.5	12.00	12.00	0.00	
10,875.0	35.89	179.59	10,855.8	-90.7	0.7	90.7	12.00	12.00	0.00	
10,900.0	38.89	179.59	10,875.7	-105.8	0.8	105.8	12.00	12.00	0.00	
10,925.0	41.89	179.59	10,894.7	-122.0	0.9	122.0	12.00	12.00	0.00	
10,950.0	44.89	179.59	10,912.9	-139.2	1.0	139.2	12.00	12.00	0.00	
10,975.0	47.89	179.59	10,930.1	-157.3	1.1	157.3	12.00	12.00	0.00	
11,000.0	50.89	179.59	10,946.4	-176.3	1.3	176.3	12.00	12.00	0.00	
11,025.0	53.89	179.59	10,961.6	-196.1	1.4	196.1	12.00	12.00	0.00	
11,050.0	56.89	179.59	10,975.8	-216.7	1.6	216.7	12.00	12.00	0.00	
11,075.0	59.89	179.59	10,988.9	-237.9	1.7	237.9	12.00	12.00	0.00	
11,100.0	62.89	179.59	11,000.9	-259.9	1.9	259.9	12.00	12.00	0.00	
11,125.0	65.89	179.59	11,011.7	-282.4	2.0	282.4	12.00	12.00	0.00	
11,150.0	68.89	179.59	11,021.3	-305.5	2.2	305.5	12.00	12.00	0.00	
11,175.0	71.89	179.59	11,029.7	-329.0	2.4	329.1	12.00	12.00	0.00	
11,200.0	74.89	179.59	11,036.9	-353.0	2.5	353.0	12.00	12.00	0.00	
11,225.0	77.89	179.59	11,042.7	-377.3	2.7	377.3	12.00	12.00	0.00	
11,250.0	80.89	179.59	11,047.3	-401.9	2.9	401.9	12.00	12.00	0.00	
11,275.0	83.89	179.59	11,050.7	-426.6	3.1	426.7	12.00	12.00	0.00	
11,300.0	86.89	179.59	11,052.7	-451.6	3.3	451.6	12.00	12.00	0.00	
11,325.0	89.89	179.59	11,053.4	-476.5	3.4	476.6	12.00	12.00	0.00	
11,327.6	90.20	179.59	11,053.4	-479.1	3.5	479.1	12.00	12.00	0.00	
11,400.0	90.20	179.59	11,053.1	-551.5	4.0	551.6	0.00	0.00	0.00	
11,500.0	90.20	179.59	11,052.8	-651.5	4.7	651.6	0.00	0.00	0.00	
11,600.0	90.20	179.59	11,052.4	-751.5	5.4	751.6	0.00	0.00	0.00	
11,700.0	90.20	179.59	11,052.1	-851.5	6.1	851.6	0.00	0.00	0.00	
11,800.0	90.20	179.59	11,051.7	-951.5	6.9	951.6	0.00	0.00	0.00	
11,900.0	90.20	179.59	11,051.4	-1,051.5	7.6	1,051.6	0.00	0.00	0.00	
12,000.0	90.20	179.59	11,051.0	-1,151.5	8.3	1,151.6	0.00	0.00	0.00	
12,100.0	90.20	179.59	11,050.7	-1,251.5	9.0	1,251.6	0.00	0.00	0.00	
12,200.0	90.20	179.59	11,050.3	-1,351.5	9.7	1,351.6	0.00	0.00	0.00	
12,300.0	90.20	179.59	11,050.0	-1,451.5	10.5	1,451.6	0.00	0.00	0.00	
12,400.0	90.20	179.59	11,049.6	-1,551.5	11.2	1,551.6	0.00	0.00	0.00	
12,500.0	90.20	179.59	11,049.3	-1,651.5	11.9	1,651.6	0.00	0.00	0.00	
12,600.0	90.20	179.59	11,048.9	-1,751.5	12.6	1,751.6	0.00	0.00	0.00	
12,700.0	90.20	179.59	11,048.6	-1,851.5	13.4	1,851.6	0.00	0.00	0.00	
12,800.0	90.20	179.59	11,048.2	-1,951.5	14.1	1,951.5	0.00	0.00	0.00	
12,900.0	90.20	179.59	11,047.9	-2,051.5	14.8	2,051.5	0.00	0.00	0.00	
13,000.0	90.20	179.59	11,047.5	-2,151.5	15.5	2,151.5	0.00	0.00	0.00	
13,100.0	90.20	179.59	11,047.2	-2,251.5	16.2	2,251.5	0.00	0.00	0.00	
13,200.0	90.20	179.59	11,046.8	-2,351.5	17.0	2,351.5	0.00	0.00	0.00	
13,300.0	90.20	179.59	11,046.5	-2,451.5	17.7	2,451.5	0.00	0.00	0.00	
13,400.0	90.20	179.59	11,046.1	-2,551.5	18.4	2,551.5	0.00	0.00	0.00	
13,500.0	90.20	179.59	11,045.8	-2,651.5	19.1	2,651.5	0.00	0.00	0.00	
13,600.0	90.20	179.59	11,045.4	-2,751.5	19.8	2,751.5	0.00	0.00	0.00	
13,700.0	90.20	179.59	11,045.1	-2,851.5	20.6	2,851.5	0.00	0.00	0.00	

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 29-24-33 ST 4H
Company:	Permian District	TVD Reference:	RKB @ 3548.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3548.0usft
Site:	McCloy Ranch 29-24-33 ST 4H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat.08Feb13		

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)
13,800.0	90.20	179.59	11,044.7	-2,951.5	21.3	2,951.5	0.00	0.00	0.00
13,900.0	90.20	179.59	11,044.4	-3,051.5	22.0	3,051.5	0.00	0.00	0.00
14,000.0	90.20	179.59	11,044.0	-3,151.5	22.7	3,151.5	0.00	0.00	0.00
14,100.0	90.20	179.59	11,043.7	-3,251.5	23.4	3,251.5	0.00	0.00	0.00
14,200.0	90.20	179.59	11,043.3	-3,351.5	24.2	3,351.5	0.00	0.00	0.00
14,300.0	90.20	179.59	11,043.0	-3,451.5	24.9	3,451.5	0.00	0.00	0.00
14,400.0	90.20	179.59	11,042.6	-3,551.4	25.6	3,551.5	0.00	0.00	0.00
14,500.0	90.20	179.59	11,042.3	-3,651.4	26.3	3,651.5	0.00	0.00	0.00
14,600.0	90.20	179.59	11,041.9	-3,751.4	27.1	3,751.5	0.00	0.00	0.00
14,700.0	90.20	179.59	11,041.6	-3,851.4	27.8	3,851.5	0.00	0.00	0.00
14,800.0	90.20	179.59	11,041.2	-3,951.4	28.5	3,951.5	0.00	0.00	0.00
14,900.0	90.20	179.59	11,040.9	-4,051.4	29.2	4,051.5	0.00	0.00	0.00
15,000.0	90.20	179.59	11,040.5	-4,151.4	29.9	4,151.5	0.00	0.00	0.00
15,100.0	90.20	179.59	11,040.2	-4,251.4	30.7	4,251.5	0.00	0.00	0.00
15,200.0	90.20	179.59	11,039.9	-4,351.4	31.4	4,351.5	0.00	0.00	0.00
15,300.0	90.20	179.59	11,039.5	-4,451.4	32.1	4,451.5	0.00	0.00	0.00
15,400.0	90.20	179.59	11,039.2	-4,551.4	32.8	4,551.5	0.00	0.00	0.00
15,500.0	90.20	179.59	11,038.8	-4,651.4	33.5	4,651.5	0.00	0.00	0.00
15,600.0	90.20	179.59	11,038.5	-4,751.4	34.3	4,751.5	0.00	0.00	0.00
15,701.6	90.20	179.59	11,038.1	-4,853.0	35.0	4,853.1	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
McCloy Ranch 29-24-	0.00	0.00	0.0	0.0	0.0	435,643.00	730,996.00	11° 43.77277655 N	35° 11.75065421 W
- plan hits target center									
- Point									
McCloy Ranch 29-24-	0.00	0.00	11,038.1	-4,853.0	35.0	430,790.00	731,031.00	10° 55.74714180 N	35° 11.73547568 W
- plan hits target center									
- Point									

Project: NM - Bone Spring Sand Project
Site: McCloy Ranch 29-24-33 ST 4H
Well: Well #1
Wellbore: Wellbore #1
Design: Plat 08Feb13

PROJECT DETAILS: NM - Bone Spring Sand Project

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

