

EOG Resources

Lea County, NM (Nad27)
Red Hills West 16 State
Red Hills West 16 State 6H
Wellbore #1

Plan: Plan #1 122111

EOG Resources

21 December, 2011



JAN 26 2012

30-025-40415

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Red Hills West 16 State 6H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3232.10usft (Original Well Elev)
Site:	Red Hills West 16 State	MD Reference:	WELL @ 3232.10usft (Original Well Elev)
Well:	Red Hills West 16 State 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	Database:	GCR DB v5000

Project:	Lea County, NM (Nad27)	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Red Hills West 16 State		
Site Position:		Northing:	382,382.50 usft
From:	Map	Easting:	700,544.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 58.675 N
		Longitude:	103° 41' 9.818 W
		Grid Convergence:	0.34 °

Well		Red Hills West 16 State 6H				
Well Position	+N/-S	0.00 usft	Northing:	382,393.90 usft	Latitude:	32° 2' 58.706 N
	+E/-W	0.00 usft	Easting:	701,914.70 usft	Longitude:	103° 40' 53.901 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,202.10 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	12/21/11	7.56	59.99	48,449

Design:	Plan #1 122111			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	176.67

Survey Tool Program	Date	12/21/11		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	13,787.46	Plan #1 122111 (Wellbore #1)	MWD	MWD - Standard

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	Database:	GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	-3,232.10	0.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
100.00	0.00	0.00	-3,132.10	100.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
200.00	0.00	0.00	-3,032.10	200.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
300.00	0.00	0.00	-2,932.10	300.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
400.00	0.00	0.00	-2,832.10	400.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
500.00	0.00	0.00	-2,732.10	500.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
600.00	0.00	0.00	-2,632.10	600.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
700.00	0.00	0.00	-2,532.10	700.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
800.00	0.00	0.00	-2,432.10	800.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
900.00	0.00	0.00	-2,332.10	900.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,000.00	0.00	0.00	-2,232.10	1,000.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,100.00	0.00	0.00	-2,132.10	1,100.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,200.00	0.00	0.00	-2,032.10	1,200.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,300.00	0.00	0.00	-1,932.10	1,300.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,400.00	0.00	0.00	-1,832.10	1,400.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,500.00	0.00	0.00	-1,732.10	1,500.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,600.00	0.00	0.00	-1,632.10	1,600.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,700.00	0.00	0.00	-1,532.10	1,700.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,800.00	0.00	0.00	-1,432.10	1,800.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
1,900.00	0.00	0.00	-1,332.10	1,900.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
2,000.00	0.00	0.00	-1,232.10	2,000.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
2,100.00	0.00	0.00	-1,132.10	2,100.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
2,200.00	0.00	0.00	-1,032.10	2,200.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
2,300.00	0.00	0.00	-932.10	2,300.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
2,400.00	0.00	0.00	-832.10	2,400.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
2,500.00	0.00	0.00	-732.10	2,500.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
2,600.00	0.00	0.00	-632.10	2,600.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70

Phoenix Technology Services
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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.00	0.00	0.00	-532.10	2,700.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
2,800.00	0.00	0.00	-432.10	2,800.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
2,900.00	0.00	0.00	-332.10	2,900.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,000.00	0.00	0.00	-232.10	3,000.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,100.00	0.00	0.00	-132.10	3,100.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,200.00	0.00	0.00	-32.10	3,200.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,300.00	0.00	0.00	67.90	3,300.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,400.00	0.00	0.00	167.90	3,400.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,500.00	0.00	0.00	267.90	3,500.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,600.00	0.00	0.00	367.90	3,600.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,700.00	0.00	0.00	467.90	3,700.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,800.00	0.00	0.00	567.90	3,800.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
3,900.00	0.00	0.00	667.90	3,900.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,000.00	0.00	0.00	767.90	4,000.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,100.00	0.00	0.00	867.90	4,100.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,200.00	0.00	0.00	967.90	4,200.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,300.00	0.00	0.00	1,067.90	4,300.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,400.00	0.00	0.00	1,167.90	4,400.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,500.00	0.00	0.00	1,267.90	4,500.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,600.00	0.00	0.00	1,367.90	4,600.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,700.00	0.00	0.00	1,467.90	4,700.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,800.00	0.00	0.00	1,567.90	4,800.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
4,900.00	0.00	0.00	1,667.90	4,900.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
5,000.00	0.00	0.00	1,767.90	5,000.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
5,100.00	0.00	0.00	1,867.90	5,100.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
5,200.00	0.00	0.00	1,967.90	5,200.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
5,300.00	0.00	0.00	2,067.90	5,300.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	

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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLog (7/100usft)	Northing (usft)	Easting (usft)
5,400.00	0.00	0.00	2,167.90	5,400.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
5,500.00	0.00	0.00	2,267.90	5,500.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
5,600.00	0.00	0.00	2,367.90	5,600.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
5,700.00	0.00	0.00	2,467.90	5,700.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
5,800.00	0.00	0.00	2,567.90	5,800.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
5,900.00	0.00	0.00	2,667.90	5,900.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,000.00	0.00	0.00	2,767.90	6,000.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,100.00	0.00	0.00	2,867.90	6,100.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,200.00	0.00	0.00	2,967.90	6,200.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,300.00	0.00	0.00	3,067.90	6,300.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,400.00	0.00	0.00	3,167.90	6,400.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,500.00	0.00	0.00	3,267.90	6,500.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,600.00	0.00	0.00	3,367.90	6,600.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,700.00	0.00	0.00	3,467.90	6,700.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,800.00	0.00	0.00	3,567.90	6,800.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
6,900.00	0.00	0.00	3,667.90	6,900.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,000.00	0.00	0.00	3,767.90	7,000.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,100.00	0.00	0.00	3,867.90	7,100.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,200.00	0.00	0.00	3,967.90	7,200.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,300.00	0.00	0.00	4,067.90	7,300.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,400.00	0.00	0.00	4,167.90	7,400.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,500.00	0.00	0.00	4,267.90	7,500.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,600.00	0.00	0.00	4,367.90	7,600.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,700.00	0.00	0.00	4,467.90	7,700.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,800.00	0.00	0.00	4,567.90	7,800.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
7,900.00	0.00	0.00	4,667.90	7,900.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70
8,000.00	-0.00	0.00	4,767.90	8,000.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70

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Design:	Plan #1 122111	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,100.00	0.00	0.00	4,867.90	8,100.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
8,200.00	0.00	0.00	4,967.90	8,200.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
8,300.00	0.00	0.00	5,067.90	8,300.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
8,400.00	0.00	0.00	5,167.90	8,400.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
8,500.00	0.00	0.00	5,267.90	8,500.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
8,600.00	0.00	0.00	5,367.90	8,600.00	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
8,672.54	0.00	0.00	5,440.44	8,672.54	0.00	0.00	0.00	0.00	382,393.90	701,914.70	
Start Build 12.00											
8,700.00	3.30	176.67	5,467.88	8,699.98	-0.79	0.05	0.79	12.00	382,393.11	701,914.75	
8,800.00	15.30	176.67	5,566.39	8,798.49	-16.88	0.98	16.91	12.00	382,377.02	701,915.68	
8,900.00	27.30	176.67	5,659.39	8,891.49	-53.08	3.09	53.17	12.00	382,340.82	701,917.79	
9,000.00	39.30	176.67	5,742.83	8,974.93	-107.78	6.28	107.96	12.00	382,286.12	701,920.98	
9,100.00	51.30	176.67	5,813.04	9,045.14	-178.60	10.40	178.91	12.00	382,215.30	701,925.10	
9,200.00	63.30	176.67	5,866.97	9,099.07	-262.45	15.28	262.90	12.00	382,131.45	701,929.98	
9,300.00	75.30	176.67	5,902.26	9,134.36	-355.67	20.71	356.27	12.00	382,038.23	701,935.41	
9,400.00	87.30	176.67	5,917.37	9,149.47	-454.17	26.45	454.94	12.00	381,939.73	701,941.15	
9,422.54	90.00	176.67	5,917.90	9,150.00	-476.66	27.76	477.46	12.00	381,917.24	701,942.46	
Start 4364.92 hold at 9422.54 MD											
9,500.00	90.00	176.67	5,917.90	9,150.00	-553.99	32.26	554.93	0.00	381,839.91	701,946.96	
9,600.00	90.00	176.67	5,917.90	9,150.00	-653.82	38.07	654.93	0.00	381,740.08	701,952.77	
9,700.00	90.00	176.67	5,917.90	9,150.00	-753.65	43.89	754.93	0.00	381,640.25	701,958.59	
9,800.00	90.00	176.67	5,917.90	9,150.00	-853.48	49.70	854.93	0.00	381,540.42	701,964.40	
9,900.00	90.00	176.67	5,917.90	9,150.00	-953.31	55.51	954.93	0.00	381,440.59	701,970.21	
10,000.00	90.00	176.67	5,917.90	9,150.00	-1,053.15	61.33	1,054.93	0.00	381,340.75	701,976.03	
10,100.00	90.00	176.67	5,917.90	9,150.00	-1,152.98	67.14	1,154.93	0.00	381,240.92	701,981.84	
10,200.00	90.00	176.67	5,917.90	9,150.00	-1,252.81	72.95	1,254.93	0.00	381,141.09	701,987.65	
10,300.00	90.00	176.67	5,917.90	9,150.00	-1,352.64	78.77	1,354.93	0.00	381,041.26	701,993.47	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,400.00	90.00	176.67	5,917.90	9,150.00	-1,452.47	84.58	1,454.93	0.00	380,941.43	701,999.28
10,500.00	90.00	176.67	5,917.90	9,150.00	-1,552.30	90.39	1,554.93	0.00	380,841.60	702,005.09
10,600.00	90.00	176.67	5,917.90	9,150.00	-1,652.13	96.21	1,654.93	0.00	380,741.77	702,010.91
10,700.00	90.00	176.67	5,917.90	9,150.00	-1,751.96	102.02	1,754.93	0.00	380,641.94	702,016.72
10,800.00	90.00	176.67	5,917.90	9,150.00	-1,851.79	107.83	1,854.93	0.00	380,542.11	702,022.53
10,900.00	90.00	176.67	5,917.90	9,150.00	-1,951.62	113.64	1,954.93	0.00	380,442.28	702,028.34
11,000.00	90.00	176.67	5,917.90	9,150.00	-2,051.45	119.46	2,054.93	0.00	380,342.45	702,034.16
11,100.00	90.00	176.67	5,917.90	9,150.00	-2,151.29	125.27	2,154.93	0.00	380,242.61	702,039.97
11,200.00	90.00	176.67	5,917.90	9,150.00	-2,251.12	131.08	2,254.93	0.00	380,142.78	702,045.78
11,300.00	90.00	176.67	5,917.90	9,150.00	-2,350.95	136.90	2,354.93	0.00	380,042.95	702,051.60
11,400.00	90.00	176.67	5,917.90	9,150.00	-2,450.78	142.71	2,454.93	0.00	379,943.12	702,057.41
11,500.00	90.00	176.67	5,917.90	9,150.00	-2,550.61	148.52	2,554.93	0.00	379,843.29	702,063.22
11,600.00	90.00	176.67	5,917.90	9,150.00	-2,650.44	154.34	2,654.93	0.00	379,743.46	702,069.04
11,700.00	90.00	176.67	5,917.90	9,150.00	-2,750.27	160.15	2,754.93	0.00	379,643.63	702,074.85
11,800.00	90.00	176.67	5,917.90	9,150.00	-2,850.10	165.96	2,854.93	0.00	379,543.80	702,080.66
11,900.00	90.00	176.67	5,917.90	9,150.00	-2,949.93	171.78	2,954.93	0.00	379,443.97	702,086.48
12,000.00	90.00	176.67	5,917.90	9,150.00	-3,049.76	177.59	3,054.93	0.00	379,344.14	702,092.29
12,100.00	90.00	176.67	5,917.90	9,150.00	-3,149.59	183.40	3,154.93	0.00	379,244.31	702,098.10
12,200.00	90.00	176.67	5,917.90	9,150.00	-3,249.43	189.22	3,254.93	0.00	379,144.47	702,103.92
12,300.00	90.00	176.67	5,917.90	9,150.00	-3,349.26	195.03	3,354.93	0.00	379,044.64	702,109.73
12,400.00	90.00	176.67	5,917.90	9,150.00	-3,449.09	200.84	3,454.93	0.00	378,944.81	702,115.54
12,500.00	90.00	176.67	5,917.90	9,150.00	-3,548.92	206.66	3,554.93	0.00	378,844.98	702,121.36
12,600.00	90.00	176.67	5,917.90	9,150.00	-3,648.75	212.47	3,654.93	0.00	378,745.15	702,127.17
12,700.00	90.00	176.67	5,917.90	9,150.00	-3,748.58	218.28	3,754.93	0.00	378,645.32	702,132.98
12,800.00	90.00	176.67	5,917.90	9,150.00	-3,848.41	224.10	3,854.93	0.00	378,545.49	702,138.80
12,900.00	90.00	176.67	5,917.90	9,150.00	-3,948.24	229.91	3,954.93	0.00	378,445.66	702,144.61
13,000.00	90.00	176.67	5,917.90	9,150.00	-4,048.07	235.72	4,054.93	0.00	378,345.83	702,150.42

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Red Hills West 16 State 6H.
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3232.10usft (Original Well Elev)
Site:	Red Hills West 16 State	MD Reference:	WELL @ 3232.10usft (Original Well Elev)
Well:	Red Hills West 16 State 6H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	Database:	GCR DB v5000

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,100.00	90.00	176.67	5,917.90	9,150.00	-4,147.90	241.54	4,154.93	0.00	378,246.00	702,156.24
13,200.00	90.00	176.67	5,917.90	9,150.00	-4,247.73	247.35	4,254.93	0.00	378,146.17	702,162.05
13,300.00	90.00	176.67	5,917.90	9,150.00	-4,347.56	253.16	4,354.93	0.00	378,046.34	702,167.86
13,400.00	90.00	176.67	5,917.90	9,150.00	-4,447.40	258.98	4,454.93	0.00	377,946.50	702,173.68
13,500.00	90.00	176.67	5,917.90	9,150.00	-4,547.23	264.79	4,554.93	0.00	377,846.67	702,179.49
13,600.00	90.00	176.67	5,917.90	9,150.00	-4,647.06	270.60	4,654.93	0.00	377,746.84	702,185.30
13,700.00	90.00	176.67	5,917.90	9,150.00	-4,746.89	276.42	4,754.93	0.00	377,647.01	702,191.12
13,787.46	90.00	176.67	5,917.90	9,150.00	-4,834.20	281.50	4,842.39	0.00	377,559.70	702,196.20
TD at 13787.46										

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,672.54	8,672.54	0.00	0.00	Start Build 12.00
9,422.54	9,150.00	-476.66	27.76	Start 4364.92 hold at 9422.54 MD
13,787.46	9,150.00	-4,834.20	281.50	TD at 13787.46

Checked By: _____ Approved By: _____ Date: _____