

EOG Resources

Lea County, NM (Nad27)
Red Hills West 16 State
Red Hills West 16 State 5H
Wellbore #1

Plan: Plan #1 122111

EOG Resources

21 December, 2011



30-025 40414

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Red Hills West 16 State 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3230.70usft (Original Well Elev)
Site:	Red Hills West 16 State	MD Reference:	WELL @ 3230.70usft (Original Well Elev)
Well:	Red Hills West 16 State 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	Database:	GCR DB v5000

Project	Lea County, NM (Nad27)		
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		Red Hills West 16 State			
Site Position:		Northing:	382,382.50 usft	Latitude:	32° 2' 58.675 N
From:	Map	Easting:	700,544.80 usft	Longitude:	103° 41' 9.818 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.34 °

Well	Red Hills West 16 State 5H					
Well Position	+N/-S	0.00 usft	Northing:	382,382.90 usft	Latitude:	32° 2' 58.676 N
	+E/-W	0.00 usft	Easting:	700,594.80 usft	Longitude:	103° 41' 9.237 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,200.70 usft	

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	12/21/11	7.56	59.99	48,448

Design	Plan # 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	176.66

Survey Tool Program	Date	12/21/11			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
0.00	13,732.97	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	-3,230.70	0.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
100.00	0.00	0.00	-3,130.70	100.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
200.00	0.00	0.00	-3,030.70	200.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
300.00	0.00	0.00	-2,930.70	300.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
400.00	0.00	0.00	-2,830.70	400.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
500.00	0.00	0.00	-2,730.70	500.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
600.00	0.00	0.00	-2,630.70	600.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
700.00	0.00	0.00	-2,530.70	700.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
800.00	0.00	0.00	-2,430.70	800.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
900.00	0.00	0.00	-2,330.70	900.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,000.00	0.00	0.00	-2,230.70	1,000.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,100.00	0.00	0.00	-2,130.70	1,100.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,200.00	0.00	0.00	-2,030.70	1,200.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,300.00	0.00	0.00	-1,930.70	1,300.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,400.00	0.00	0.00	-1,830.70	1,400.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,500.00	0.00	0.00	-1,730.70	1,500.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,600.00	0.00	0.00	-1,630.70	1,600.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,700.00	0.00	0.00	-1,530.70	1,700.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,800.00	0.00	0.00	-1,430.70	1,800.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
1,900.00	0.00	0.00	-1,330.70	1,900.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
2,000.00	0.00	0.00	-1,230.70	2,000.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
2,100.00	0.00	0.00	-1,130.70	2,100.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
2,200.00	0.00	0.00	-1,030.70	2,200.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
2,300.00	0.00	0.00	-930.70	2,300.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
2,400.00	0.00	0.00	-830.70	2,400.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
2,500.00	0.00	0.00	-730.70	2,500.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		
2,600.00	0.00	0.00	-630.70	2,600.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80		

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Well:	Red Hills West 16 State 5H	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)	
2,700.00	0.00	0.00	-530.70	2,700.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
2,800.00	0.00	0.00	-430.70	2,800.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
2,900.00	0.00	0.00	-330.70	2,900.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,000.00	0.00	0.00	-230.70	3,000.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,100.00	0.00	0.00	-130.70	3,100.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,200.00	0.00	0.00	-30.70	3,200.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,300.00	0.00	0.00	69.30	3,300.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,400.00	0.00	0.00	169.30	3,400.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,500.00	0.00	0.00	269.30	3,500.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,600.00	0.00	0.00	369.30	3,600.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,700.00	0.00	0.00	469.30	3,700.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,800.00	0.00	0.00	569.30	3,800.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
3,900.00	0.00	0.00	669.30	3,900.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,000.00	0.00	0.00	769.30	4,000.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,100.00	0.00	0.00	869.30	4,100.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,200.00	0.00	0.00	969.30	4,200.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,300.00	0.00	0.00	1,069.30	4,300.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,400.00	0.00	0.00	1,169.30	4,400.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,500.00	0.00	0.00	1,269.30	4,500.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,600.00	0.00	0.00	1,369.30	4,600.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,700.00	0.00	0.00	1,469.30	4,700.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,800.00	0.00	0.00	1,569.30	4,800.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
4,900.00	0.00	0.00	1,669.30	4,900.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
5,000.00	0.00	0.00	1,769.30	5,000.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
5,100.00	0.00	0.00	1,869.30	5,100.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
5,200.00	0.00	0.00	1,969.30	5,200.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
5,300.00	0.00	0.00	2,069.30	5,300.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	

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Planned Survey

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5,400.00	0.00	0.00	2,169.30	5,400.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
5,500.00	0.00	0.00	2,269.30	5,500.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
5,600.00	0.00	0.00	2,369.30	5,600.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
5,700.00	0.00	0.00	2,469.30	5,700.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
5,800.00	0.00	0.00	2,569.30	5,800.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
5,900.00	0.00	0.00	2,669.30	5,900.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,000.00	0.00	0.00	2,769.30	6,000.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,100.00	0.00	0.00	2,869.30	6,100.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,200.00	0.00	0.00	2,969.30	6,200.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,300.00	0.00	0.00	3,069.30	6,300.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,400.00	0.00	0.00	3,169.30	6,400.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,500.00	0.00	0.00	3,269.30	6,500.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,600.00	0.00	0.00	3,369.30	6,600.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,700.00	0.00	0.00	3,469.30	6,700.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,800.00	0.00	0.00	3,569.30	6,800.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
6,900.00	0.00	0.00	3,669.30	6,900.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,000.00	0.00	0.00	3,769.30	7,000.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,100.00	0.00	0.00	3,869.30	7,100.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,200.00	0.00	0.00	3,969.30	7,200.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,300.00	0.00	0.00	4,069.30	7,300.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,400.00	0.00	0.00	4,169.30	7,400.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,500.00	0.00	0.00	4,269.30	7,500.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,600.00	0.00	0.00	4,369.30	7,600.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,700.00	0.00	0.00	4,469.30	7,700.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,800.00	0.00	0.00	4,569.30	7,800.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
7,900.00	0.00	0.00	4,669.30	7,900.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80
8,000.00	0.00	0.00	4,769.30	8,000.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80

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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)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
8,100.00	0.00	0.00	4,869.30	8,100.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
8,200.00	0.00	0.00	4,969.30	8,200.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
8,300.00	0.00	0.00	5,069.30	8,300.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
8,400.00	0.00	0.00	5,169.30	8,400.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
8,500.00	0.00	0.00	5,269.30	8,500.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
8,600.00	0.00	0.00	5,369.30	8,600.00	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
8,622.54	0.00	0.00	5,391.84	8,622.54	0.00	0.00	0.00	0.00	382,382.90	700,594.80	
Start Build 12.00											
8,700.00	9.30	176.66	5,468.96	8,699.66	-6.26	0.36	6.27	12.00	382,376.64	700,595.16	
8,800.00	21.30	176.66	5,565.24	8,795.94	-32.55	1.90	32.60	12.00	382,350.35	700,596.70	
8,900.00	33.30	176.66	5,653.94	8,884.64	-78.24	4.56	78.38	12.00	382,304.66	700,599.36	
9,000.00	45.30	176.66	5,731.19	8,961.89	-141.35	8.24	141.59	12.00	382,241.55	700,603.04	
9,100.00	57.30	176.66	5,793.61	9,024.31	-219.12	12.77	219.49	12.00	382,163.78	700,607.57	
9,200.00	69.30	176.66	5,838.46	9,069.16	-308.14	17.96	308.66	12.00	382,074.76	700,612.76	
9,300.00	81.30	176.66	5,863.80	9,094.50	-404.52	23.58	405.21	12.00	381,978.38	700,618.38	
9,372.54	90.00	176.66	5,869.30	9,100.00	-476.66	27.78	477.46	12.00	381,906.24	700,622.58	
Start 4360.43 hold at 9372.54 MD											
9,400.00	90.00	176.66	5,869.30	9,100.00	-504.07	29.38	504.93	0.00	381,878.83	700,624.18	
9,500.00	90.00	176.66	5,869.30	9,100.00	-603.90	35.20	604.93	0.00	381,779.00	700,630.00	
9,600.00	90.00	176.66	5,869.30	9,100.00	-703.74	41.02	704.93	0.00	381,679.16	700,635.82	
9,700.00	90.00	176.66	5,869.30	9,100.00	-803.57	46.84	804.93	0.00	381,579.33	700,641.64	
9,800.00	90.00	176.66	5,869.30	9,100.00	-903.40	52.65	904.93	0.00	381,479.50	700,647.45	
9,900.00	90.00	176.66	5,869.30	9,100.00	-1,003.23	58.47	1,004.93	0.00	381,379.67	700,653.27	
10,000.00	90.00	176.66	5,869.30	9,100.00	-1,103.06	64.29	1,104.93	0.00	381,279.84	700,659.09	
10,100.00	90.00	176.66	5,869.30	9,100.00	-1,202.89	70.11	1,204.93	0.00	381,180.01	700,664.91	
10,200.00	90.00	176.66	5,869.30	9,100.00	-1,302.72	75.93	1,304.93	0.00	381,080.18	700,670.73	
10,300.00	90.00	176.66	5,869.30	9,100.00	-1,402.55	81.75	1,404.93	0.00	380,980.35	700,676.55	

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Well:	Red Hills West-16 State 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 122111	Database:	CCR 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)
10,400.00	90.00	176.66	5,869.30	9,100.00	-1,502.38	87.57	1,504.93	0.00	380,880.52	700,682.37
10,500.00	90.00	176.66	5,869.30	9,100.00	-1,602.21	93.39	1,604.93	0.00	380,780.69	700,688.19
10,600.00	90.00	176.66	5,869.30	9,100.00	-1,702.04	99.20	1,704.93	0.00	380,680.86	700,694.00
10,700.00	90.00	176.66	5,869.30	9,100.00	-1,801.87	105.02	1,804.93	0.00	380,581.03	700,699.82
10,800.00	90.00	176.66	5,869.30	9,100.00	-1,901.70	110.84	1,904.93	0.00	380,481.20	700,705.64
10,900.00	90.00	176.66	5,869.30	9,100.00	-2,001.53	116.66	2,004.93	0.00	380,381.37	700,711.46
11,000.00	90.00	176.66	5,869.30	9,100.00	-2,101.36	122.48	2,104.93	0.00	380,281.54	700,717.28
11,100.00	90.00	176.66	5,869.30	9,100.00	-2,201.19	128.30	2,204.93	0.00	380,181.71	700,723.10
11,200.00	90.00	176.66	5,869.30	9,100.00	-2,301.02	134.12	2,304.93	0.00	380,081.88	700,728.92
11,300.00	90.00	176.66	5,869.30	9,100.00	-2,400.86	139.93	2,404.93	0.00	379,982.04	700,734.73
11,400.00	90.00	176.66	5,869.30	9,100.00	-2,500.69	145.75	2,504.93	0.00	379,882.21	700,740.55
11,500.00	90.00	176.66	5,869.30	9,100.00	-2,600.52	151.57	2,604.93	0.00	379,782.38	700,746.37
11,600.00	90.00	176.66	5,869.30	9,100.00	-2,700.35	157.39	2,704.93	0.00	379,682.55	700,752.19
11,700.00	90.00	176.66	5,869.30	9,100.00	-2,800.18	163.21	2,804.93	0.00	379,582.72	700,758.01
11,800.00	90.00	176.66	5,869.30	9,100.00	-2,900.01	169.03	2,904.93	0.00	379,482.89	700,763.83
11,900.00	90.00	176.66	5,869.30	9,100.00	-2,999.84	174.85	3,004.93	0.00	379,383.06	700,769.65
12,000.00	90.00	176.66	5,869.30	9,100.00	-3,099.67	180.66	3,104.93	0.00	379,283.23	700,775.46
12,100.00	90.00	176.66	5,869.30	9,100.00	-3,199.50	186.48	3,204.93	0.00	379,183.40	700,781.28
12,200.00	90.00	176.66	5,869.30	9,100.00	-3,299.33	192.30	3,304.93	0.00	379,083.57	700,787.10
12,300.00	90.00	176.66	5,869.30	9,100.00	-3,399.16	198.12	3,404.93	0.00	378,983.74	700,792.92
12,400.00	90.00	176.66	5,869.30	9,100.00	-3,498.99	203.94	3,504.93	0.00	378,883.91	700,798.74
12,500.00	90.00	176.66	5,869.30	9,100.00	-3,598.82	209.76	3,604.93	0.00	378,784.08	700,804.56
12,600.00	90.00	176.66	5,869.30	9,100.00	-3,698.65	215.58	3,704.93	0.00	378,684.25	700,810.38
12,700.00	90.00	176.66	5,869.30	9,100.00	-3,798.48	221.40	3,804.93	0.00	378,584.42	700,816.20
12,800.00	90.00	176.66	5,869.30	9,100.00	-3,898.31	227.21	3,904.93	0.00	378,484.59	700,822.01
12,900.00	90.00	176.66	5,869.30	9,100.00	-3,998.14	233.03	4,004.93	0.00	378,384.76	700,827.83
13,000.00	90.00	176.66	5,869.30	9,100.00	-4,097.97	238.85	4,104.93	0.00	378,284.93	700,833.65

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Red Hills West 16 State 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3230.70usft (Original Well Elev)
Site:	Red Hills West 16 State	MD Reference:	WELL @ 3230.70usft (Original Well Elev)
Well:	Red Hills West 16 State 5H	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	176.66	5,869.30	9,100.00	-4,197.81	244.67	4,204.93	0.00	378,185.09	700,839.47
13,200.00	90.00	176.66	5,869.30	9,100.00	-4,297.64	250.49	4,304.93	0.00	378,085.26	700,845.29
13,300.00	90.00	176.66	5,869.30	9,100.00	-4,397.47	256.31	4,404.93	0.00	377,985.43	700,851.11
13,400.00	90.00	176.66	5,869.30	9,100.00	-4,497.30	262.13	4,504.93	0.00	377,885.60	700,856.93
13,500.00	90.00	176.66	5,869.30	9,100.00	-4,597.13	267.94	4,604.93	0.00	377,785.77	700,862.74
13,600.00	90.00	176.66	5,869.30	9,100.00	-4,696.96	273.76	4,704.93	0.00	377,685.94	700,868.56
13,700.00	90.00	176.66	5,869.30	9,100.00	-4,796.79	279.58	4,804.93	0.00	377,586.11	700,874.38
13,732.97	90.00	176.66	5,869.30	9,100.00	-4,829.70	281.50	4,837.90	0.00	377,553.20	700,876.30
TD at 13732.97										

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,622.54	8,622.54	0.00	0.00	Start Build 12.00
9,372.54	9,100.00	-476.66	27.78	Start 4360.43 hold at 9372.54 MD
13,732.97	9,100.00	-4,829.70	281.50	TD at 13732.97

Checked By: _____ Approved By: _____ Date: _____