



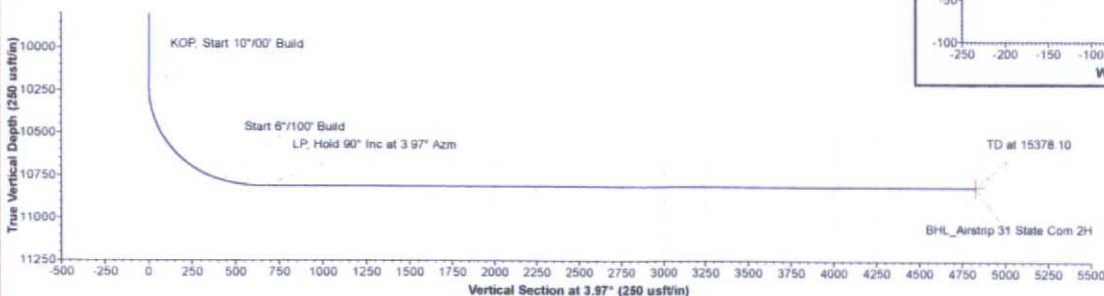
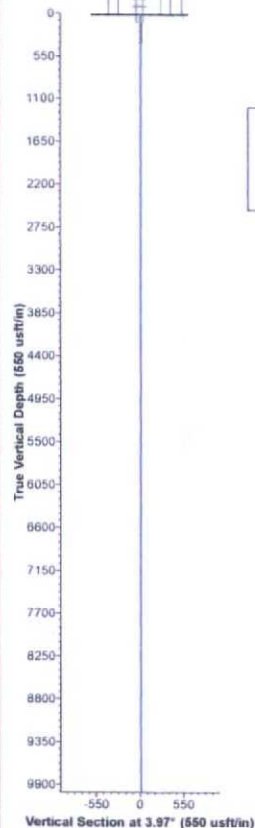
Project: Lea County, NM
Site: Airstrip State Com 2H-35E RN
Well: 201H
Wellbore: OH / Job 1514302
Design: Plan 1 08-31-15
Rig: Patterson 297



Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.40°
Magnetic Field
Strength: 48488.9nT
Dip Angle: 60.75°
Date: 8/31/2015
Model: HDGM



RKB @ 3975.50usft (Patterson 297)
Ground Level: 3948.00



WELL DETAILS									
Ground Level: 3948.00									
+N-S	+E-W	North	East	Latitude	Longitude				
0.00	0.00	618375.60	755233.10	32° 41' 50.16653 N	103° 30' 13.17215 W				

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	10224.03	0.00	0.00	10224.03	0.00	0.00	0.00	0.00	0.00
3	10974.63	75.00	3.97	10777.46	423.65	29.40	10.50	3.97	424.67
4	11224.63	90.00	3.97	10810.00	670.21	46.52	6.00	0.00	671.82
5	15378.10	90.00	3.97	10810.00	4814.30	334.20	0.00	0.00	4825.89

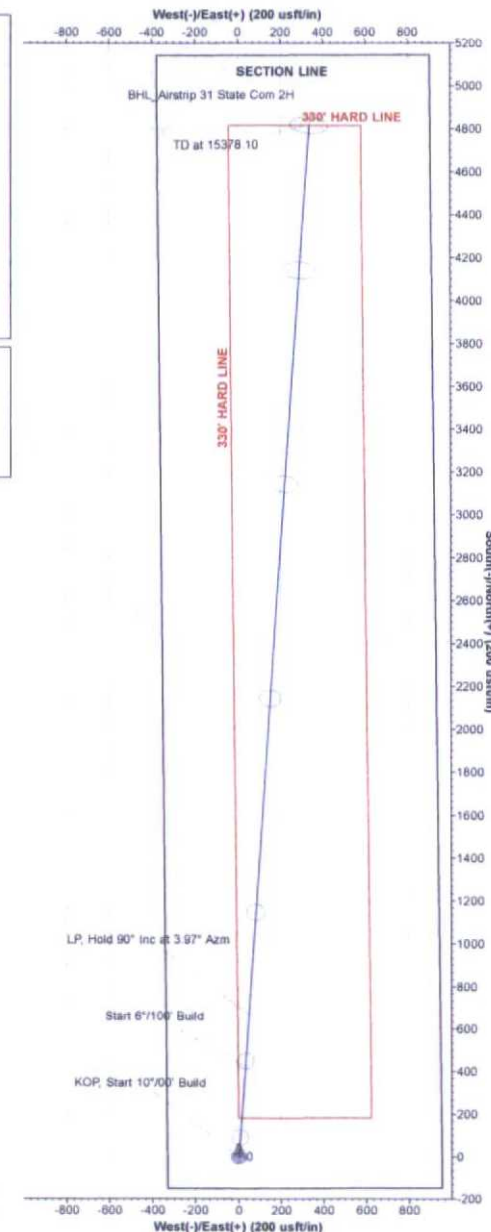
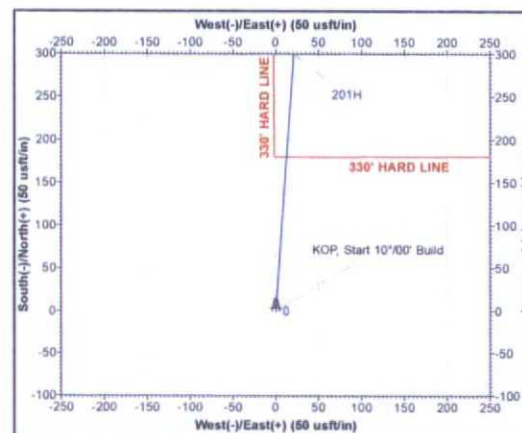
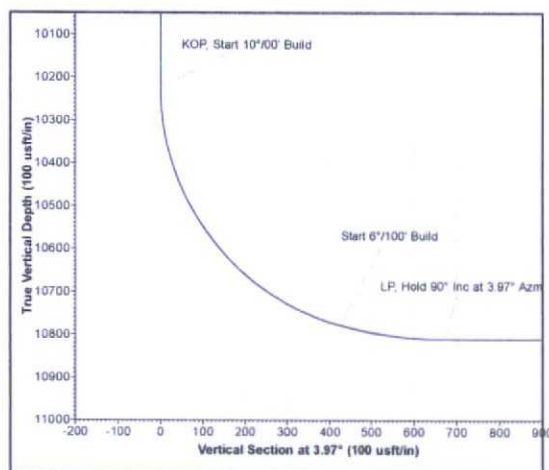
DESIGN TARGET DETAILS							
Name	TVD	+N-S	+E-W	North	East	Latitude	Longitude
BHL_Airstrip 31 State Com 2H	10810.00	4814.30	334.20	625189.90	755567.30	32° 42' 37.77610 N	103° 30' 8.82016 W

CASING DETAILS	
No casing data is available	

LEGEND	
Plan 1 08-31-15	

Map System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone Name:	New Mexico East 3001
Local Origin:	Well 201H, Grid North
Latitude:	32° 41' 50.16653 N
Longitude:	103° 30' 13.17215 W
Grid East:	755233.10
Grid North:	618375.60
Scale Factor:	1.000
Geomagnetic Model:	HDGM
Sample Date:	31-Aug-15
Magnetic Declination:	6.85°
Dip Angle from Horizontal:	60.75°
Magnetic Field Strength:	48489
To convert a Magnetic Direction to a Grid Direction, Add 6.40°	
To convert a Magnetic Direction to a True Direction, Add 6.85° East	
To convert a True Direction to a Grid Direction, Subtract 0.45°	

FORMATION TOP DETAILS	
No formation data is available	





Matador Resources

Lea County, NM (NAD 27)

Airstrip State Com 31-28S-35E RN
201H

OH / Job 1514302

Plan: Plan 1 08-31-15

Standard Planning Report

14 September, 2015





Phoenix Technology Services LP
Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 201H
Company:	Matador Resources	TVD Reference:	RKB @ 3975.50usft (Patterson 297)
Project:	Lea County, NM (NAD 27)	MD Reference:	RKB @ 3975.50usft (Patterson 297)
Site:	Airstrip State Com 31-28S-35E RN	North Reference:	Grid
Well:	201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / Job 1514302		
Design:	Plan 1 08-31-15		

Project	Lea County, NM (NAD 27)		
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		Airstrip State Com 31-28S-35E RN			
Site Position:		Northing:	618,375.60 usft	Latitude:	32° 41' 50.16653 N
From:	Map	Easting:	755,233.10 usft	Longitude:	103° 30' 13.17215 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well	201H					
Well Position	+N/-S	0.00 usft	Northing:	618,375.60 usft	Latitude:	32° 41' 50.16653 N
	+E/-W	0.00 usft	Easting:	755,233.10 usft	Longitude:	103° 30' 13.17215 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,948.00 usft

Wellbore		OH / Job 1514302			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/31/2015	6.85	50.75	48,489

Design		Plan 1 08-31-15		
Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	3.97

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,224.03	0.00	0.00	10,224.03	0.00	0.00	0.00	0.00	0.00	0.00	
10,974.03	75.00	3.97	10,777.46	423.65	29.40	10.00	10.00	0.00	3.97	
11,224.03	90.00	3.97	10,810.00	670.21	46.52	6.00	6.00	0.00	0.00	
15,378.10	90.00	3.97	10,810.00	4,814.30	334.20	0.00	0.00	0.00	0.00	BHL_Airstrip 31 State



Phoenix Technology Services LP
Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 201H
Company:	Matador Resources	TVD Reference:	RKB @ 3975.50usft (Patterson 297)
Project:	Lea County, NM (NAD 27)	MD Reference:	RKB @ 3975.50usft (Patterson 297)
Site:	Airstrip State Com 31-28S-35E RN	North Reference:	Grid
Well:	201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / Job 1514302		
Design:	Plan 1 08-31-15		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Phoenix Technology Services LP

Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 201H
Company:	Matador Resources	TVD Reference:	RKB @ 3975.50usft (Patterson 297)
Project:	Lea County, NM (NAD 27)	MD Reference:	RKB @ 3975.50usft (Patterson 297)
Site:	Airstrip State Com 31-28S-35E RN	North Reference:	Grid
Well:	201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / Job 1514302		
Design:	Plan 1 08-31-15		

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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,224.03	0.00	0.00	10,224.03	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Start 10°/00' Build									
10,250.00	2.60	3.97	10,249.99	0.59	0.04	0.59	10.00	10.00	0.00
10,300.00	7.60	3.97	10,299.78	5.02	0.35	5.03	10.00	10.00	0.00



Phoenix Technology Services LP

Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 201H
Company:	Matador Resources	TVD Reference:	RKB @ 3975.50usft (Patterson 297)
Project:	Lea County, NM (NAD 27)	MD Reference:	RKB @ 3975.50usft (Patterson 297)
Site:	Airstrip State Com 31-28S-35E RN	North Reference:	Grid
Well:	201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / Job 1514302		
Design:	Plan 1 08-31-15		

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)
10,350.00	12.60	3.97	10,348.99	13.76	0.95	13.79	10.00	10.00	0.00
10,400.00	17.60	3.97	10,397.25	26.75	1.86	26.81	10.00	10.00	0.00
10,450.00	22.60	3.97	10,444.19	43.88	3.05	43.99	10.00	10.00	0.00
10,500.00	27.60	3.97	10,489.45	65.03	4.51	65.19	10.00	10.00	0.00
10,550.00	32.60	3.97	10,532.70	90.04	6.25	90.25	10.00	10.00	0.00
10,600.00	37.60	3.97	10,573.59	118.71	8.24	118.99	10.00	10.00	0.00
10,650.00	42.60	3.97	10,611.83	150.82	10.47	151.18	10.00	10.00	0.00
10,700.00	47.60	3.97	10,647.11	186.14	12.92	186.59	10.00	10.00	0.00
10,750.00	52.60	3.97	10,679.18	224.39	15.57	224.93	10.00	10.00	0.00
10,800.00	57.60	3.97	10,707.78	265.29	18.41	265.93	10.00	10.00	0.00
10,850.00	62.60	3.97	10,732.70	308.51	21.41	309.26	10.00	10.00	0.00
10,900.00	67.60	3.97	10,753.74	353.74	24.55	354.59	10.00	10.00	0.00
10,950.00	72.60	3.97	10,770.76	400.63	27.80	401.59	10.00	10.00	0.00
10,974.03	75.00	3.97	10,777.46	423.65	29.40	424.67	10.00	10.00	0.00
Start 6°/100' Build									
11,000.00	76.56	3.97	10,783.84	448.76	31.14	449.84	6.00	6.00	0.00
11,050.00	79.56	3.97	10,794.19	497.55	34.53	498.75	6.00	6.00	0.00
11,100.00	82.56	3.97	10,801.96	546.82	37.95	548.14	6.00	6.00	0.00
11,150.00	85.56	3.97	10,807.14	596.43	41.39	597.86	6.00	6.00	0.00
11,200.00	88.56	3.97	10,809.70	646.24	44.85	647.79	6.00	6.00	0.00
11,224.03	90.00	3.97	10,810.00	670.21	46.52	671.82	6.00	6.00	0.00
LP, Hold 90° Inc at 3.97° Azm									
11,300.00	90.00	3.97	10,810.00	745.99	51.78	747.79	0.00	0.00	0.00
11,400.00	90.00	3.97	10,810.00	845.75	58.70	847.79	0.00	0.00	0.00
11,500.00	90.00	3.97	10,810.00	945.51	65.63	947.79	0.00	0.00	0.00
11,600.00	90.00	3.97	10,810.00	1,045.27	72.55	1,047.79	0.00	0.00	0.00
11,700.00	90.00	3.97	10,810.00	1,145.03	79.48	1,147.79	0.00	0.00	0.00
11,800.00	90.00	3.97	10,810.00	1,244.79	86.40	1,247.79	0.00	0.00	0.00
11,900.00	90.00	3.97	10,810.00	1,344.55	93.33	1,347.79	0.00	0.00	0.00
12,000.00	90.00	3.97	10,810.00	1,444.31	100.25	1,447.79	0.00	0.00	0.00
12,100.00	90.00	3.97	10,810.00	1,544.07	107.18	1,547.79	0.00	0.00	0.00
12,200.00	90.00	3.97	10,810.00	1,643.83	114.10	1,647.79	0.00	0.00	0.00
12,300.00	90.00	3.97	10,810.00	1,743.59	121.03	1,747.79	0.00	0.00	0.00
12,400.00	90.00	3.97	10,810.00	1,843.35	127.96	1,847.79	0.00	0.00	0.00
12,500.00	90.00	3.97	10,810.00	1,943.11	134.88	1,947.79	0.00	0.00	0.00
12,600.00	90.00	3.97	10,810.00	2,042.87	141.81	2,047.79	0.00	0.00	0.00
12,700.00	90.00	3.97	10,810.00	2,142.63	148.73	2,147.79	0.00	0.00	0.00
12,800.00	90.00	3.97	10,810.00	2,242.39	155.66	2,247.79	0.00	0.00	0.00
12,900.00	90.00	3.97	10,810.00	2,342.15	162.58	2,347.79	0.00	0.00	0.00
13,000.00	90.00	3.97	10,810.00	2,441.91	169.51	2,447.79	0.00	0.00	0.00
13,100.00	90.00	3.97	10,810.00	2,541.67	176.43	2,547.79	0.00	0.00	0.00
13,200.00	90.00	3.97	10,810.00	2,641.43	183.36	2,647.79	0.00	0.00	0.00
13,300.00	90.00	3.97	10,810.00	2,741.19	190.28	2,747.79	0.00	0.00	0.00
13,400.00	90.00	3.97	10,810.00	2,840.95	197.21	2,847.79	0.00	0.00	0.00
13,500.00	90.00	3.97	10,810.00	2,940.71	204.13	2,947.79	0.00	0.00	0.00
13,600.00	90.00	3.97	10,810.00	3,040.47	211.06	3,047.79	0.00	0.00	0.00
13,700.00	90.00	3.97	10,810.00	3,140.23	217.99	3,147.79	0.00	0.00	0.00
13,800.00	90.00	3.97	10,810.00	3,239.99	224.91	3,247.79	0.00	0.00	0.00
13,900.00	90.00	3.97	10,810.00	3,339.75	231.84	3,347.79	0.00	0.00	0.00
14,000.00	90.00	3.97	10,810.00	3,439.51	238.76	3,447.79	0.00	0.00	0.00
14,100.00	90.00	3.97	10,810.00	3,539.27	245.69	3,547.79	0.00	0.00	0.00
14,200.00	90.00	3.97	10,810.00	3,639.03	252.61	3,647.79	0.00	0.00	0.00
14,300.00	90.00	3.97	10,810.00	3,738.79	259.54	3,747.79	0.00	0.00	0.00
14,400.00	90.00	3.97	10,810.00	3,838.55	266.46	3,847.79	0.00	0.00	0.00



Phoenix Technology Services LP
Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 201H
Company:	Matador Resources	TVD Reference:	RKB @ 3975.50usft (Patterson 297)
Project:	Lea County, NM (NAD 27)	MD Reference:	RKB @ 3975.50usft (Patterson 297)
Site:	Airstrip State Com 31-28S-35E RN	North Reference:	Grid
Well:	201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / Job 1514302		
Design:	Plan 1 08-31-15		

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)	
14,500.00	90.00	3.97	10,810.00	3,938.31	273.39	3,947.79	0.00	0.00	0.00	
14,600.00	90.00	3.97	10,810.00	4,038.07	280.31	4,047.79	0.00	0.00	0.00	
14,700.00	90.00	3.97	10,810.00	4,137.83	287.24	4,147.79	0.00	0.00	0.00	
14,800.00	90.00	3.97	10,810.00	4,237.59	294.16	4,247.79	0.00	0.00	0.00	
14,900.00	90.00	3.97	10,810.00	4,337.35	301.09	4,347.79	0.00	0.00	0.00	
15,000.00	90.00	3.97	10,810.00	4,437.11	308.02	4,447.79	0.00	0.00	0.00	
15,100.00	90.00	3.97	10,810.00	4,536.87	314.94	4,547.79	0.00	0.00	0.00	
15,200.00	90.00	3.97	10,810.00	4,636.63	321.87	4,647.79	0.00	0.00	0.00	
15,300.00	90.00	3.97	10,810.00	4,736.39	328.79	4,747.79	0.00	0.00	0.00	
15,378.10	90.00	3.97	10,810.00	4,814.30	334.20	4,825.89	0.00	0.00	0.00	
TD at 15378.10										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
BHL_Airstrip 31 State Co	0.00	0.00	10,810.00	4,814.30	334.20	623,189.90	755,567.30	32° 42' 37.77610 N	103° 30' 8.82016 W	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
10,224.03	10,224.03	0.00	0.00	KOP, Start 10°/00' Build	
10,974.03	10,777.46	423.65	29.40	Start 6°/100' Build	
11,224.03	10,810.00	670.21	46.52	LP, Hold 90° Inc at 3.97° Azm	
15,378.10	10,810.00	4,814.30	334.20	TD at 15378.10	

Matador Resources

Airstrip State Com 31-28S-35E RN 201H
Lea County, NM (NAD 27)
OH / Job 1514302
Plan 1 08-31-15

Surface Loc.:

Northing: (Y) 618375.60
Easting: (X) 755233.10
RKB Elev: 3975.50'
GL Elev: 3948.00'

Survey Type Information:

H 0.00 - 15378.10 PLAN 1 08-31-15 : PHX+MWD+HDGM

Measured Depth (ft)	Incl.	Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coord (+N/-S) (ft)	(+E/-W) (ft)	UTM Coord Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate ("/100ft)	Annotation
0	0	0	-3975.5	0	0	0	618375.6	755233.1	0	0	
100	0	0	-3875.5	100	0	0	618375.6	755233.1	0	0	
200	0	0	-3775.5	200	0	0	618375.6	755233.1	0	0	
300	0	0	-3675.5	300	0	0	618375.6	755233.1	0	0	
400	0	0	-3575.5	400	0	0	618375.6	755233.1	0	0	
500	0	0	-3475.5	500	0	0	618375.6	755233.1	0	0	
600	0	0	-3375.5	600	0	0	618375.6	755233.1	0	0	
700	0	0	-3275.5	700	0	0	618375.6	755233.1	0	0	
800	0	0	-3175.5	800	0	0	618375.6	755233.1	0	0	
900	0	0	-3075.5	900	0	0	618375.6	755233.1	0	0	
1000	0	0	-2975.5	1000	0	0	618375.6	755233.1	0	0	
1100	0	0	-2875.5	1100	0	0	618375.6	755233.1	0	0	
1200	0	0	-2775.5	1200	0	0	618375.6	755233.1	0	0	
1300	0	0	-2675.5	1300	0	0	618375.6	755233.1	0	0	
1400	0	0	-2575.5	1400	0	0	618375.6	755233.1	0	0	
1500	0	0	-2475.5	1500	0	0	618375.6	755233.1	0	0	
1600	0	0	-2375.5	1600	0	0	618375.6	755233.1	0	0	
1700	0	0	-2275.5	1700	0	0	618375.6	755233.1	0	0	
1800	0	0	-2175.5	1800	0	0	618375.6	755233.1	0	0	
1900	0	0	-2075.5	1900	0	0	618375.6	755233.1	0	0	
2000	0	0	-1975.5	2000	0	0	618375.6	755233.1	0	0	
2100	0	0	-1875.5	2100	0	0	618375.6	755233.1	0	0	
2200	0	0	-1775.5	2200	0	0	618375.6	755233.1	0	0	
2300	0	0	-1675.5	2300	0	0	618375.6	755233.1	0	0	
2400	0	0	-1575.5	2400	0	0	618375.6	755233.1	0	0	
2500	0	0	-1475.5	2500	0	0	618375.6	755233.1	0	0	
2600	0	0	-1375.5	2600	0	0	618375.6	755233.1	0	0	
2700	0	0	-1275.5	2700	0	0	618375.6	755233.1	0	0	
2800	0	0	-1175.5	2800	0	0	618375.6	755233.1	0	0	
2900	0	0	-1075.5	2900	0	0	618375.6	755233.1	0	0	
3000	0	0	-975.5	3000	0	0	618375.6	755233.1	0	0	
3100	0	0	-875.5	3100	0	0	618375.6	755233.1	0	0	
3200	0	0	-775.5	3200	0	0	618375.6	755233.1	0	0	
3300	0	0	-675.5	3300	0	0	618375.6	755233.1	0	0	
3400	0	0	-575.5	3400	0	0	618375.6	755233.1	0	0	
3500	0	0	-475.5	3500	0	0	618375.6	755233.1	0	0	
3600	0	0	-375.5	3600	0	0	618375.6	755233.1	0	0	
3700	0	0	-275.5	3700	0	0	618375.6	755233.1	0	0	
3800	0	0	-175.5	3800	0	0	618375.6	755233.1	0	0	
3900	0	0	-75.5	3900	0	0	618375.6	755233.1	0	0	
4000	0	0	24.5	4000	0	0	618375.6	755233.1	0	0	
4100	0	0	124.5	4100	0	0	618375.6	755233.1	0	0	

4200	0	0	224.5	4200	0	0	618375.6	755233.1	0	0
4300	0	0	324.5	4300	0	0	618375.6	755233.1	0	0
4400	0	0	424.5	4400	0	0	618375.6	755233.1	0	0
4500	0	0	524.5	4500	0	0	618375.6	755233.1	0	0
4600	0	0	624.5	4600	0	0	618375.6	755233.1	0	0
4700	0	0	724.5	4700	0	0	618375.6	755233.1	0	0
4800	0	0	824.5	4800	0	0	618375.6	755233.1	0	0
4900	0	0	924.5	4900	0	0	618375.6	755233.1	0	0
5000	0	0	1024.5	5000	0	0	618375.6	755233.1	0	0
5100	0	0	1124.5	5100	0	0	618375.6	755233.1	0	0
5200	0	0	1224.5	5200	0	0	618375.6	755233.1	0	0
5300	0	0	1324.5	5300	0	0	618375.6	755233.1	0	0
5400	0	0	1424.5	5400	0	0	618375.6	755233.1	0	0
5500	0	0	1524.5	5500	0	0	618375.6	755233.1	0	0
5600	0	0	1624.5	5600	0	0	618375.6	755233.1	0	0
5700	0	0	1724.5	5700	0	0	618375.6	755233.1	0	0
5800	0	0	1824.5	5800	0	0	618375.6	755233.1	0	0
5900	0	0	1924.5	5900	0	0	618375.6	755233.1	0	0
6000	0	0	2024.5	6000	0	0	618375.6	755233.1	0	0
6100	0	0	2124.5	6100	0	0	618375.6	755233.1	0	0
6200	0	0	2224.5	6200	0	0	618375.6	755233.1	0	0
6300	0	0	2324.5	6300	0	0	618375.6	755233.1	0	0
6400	0	0	2424.5	6400	0	0	618375.6	755233.1	0	0
6500	0	0	2524.5	6500	0	0	618375.6	755233.1	0	0
6600	0	0	2624.5	6600	0	0	618375.6	755233.1	0	0
6700	0	0	2724.5	6700	0	0	618375.6	755233.1	0	0
6800	0	0	2824.5	6800	0	0	618375.6	755233.1	0	0
6900	0	0	2924.5	6900	0	0	618375.6	755233.1	0	0
7000	0	0	3024.5	7000	0	0	618375.6	755233.1	0	0
7100	0	0	3124.5	7100	0	0	618375.6	755233.1	0	0
7200	0	0	3224.5	7200	0	0	618375.6	755233.1	0	0
7300	0	0	3324.5	7300	0	0	618375.6	755233.1	0	0
7400	0	0	3424.5	7400	0	0	618375.6	755233.1	0	0
7500	0	0	3524.5	7500	0	0	618375.6	755233.1	0	0
7600	0	0	3624.5	7600	0	0	618375.6	755233.1	0	0
7700	0	0	3724.5	7700	0	0	618375.6	755233.1	0	0
7800	0	0	3824.5	7800	0	0	618375.6	755233.1	0	0
7900	0	0	3924.5	7900	0	0	618375.6	755233.1	0	0
8000	0	0	4024.5	8000	0	0	618375.6	755233.1	0	0
8100	0	0	4124.5	8100	0	0	618375.6	755233.1	0	0
8200	0	0	4224.5	8200	0	0	618375.6	755233.1	0	0
8300	0	0	4324.5	8300	0	0	618375.6	755233.1	0	0
8400	0	0	4424.5	8400	0	0	618375.6	755233.1	0	0
8500	0	0	4524.5	8500	0	0	618375.6	755233.1	0	0
8600	0	0	4624.5	8600	0	0	618375.6	755233.1	0	0
8700	0	0	4724.5	8700	0	0	618375.6	755233.1	0	0
8800	0	0	4824.5	8800	0	0	618375.6	755233.1	0	0
8900	0	0	4924.5	8900	0	0	618375.6	755233.1	0	0
9000	0	0	5024.5	9000	0	0	618375.6	755233.1	0	0
9100	0	0	5124.5	9100	0	0	618375.6	755233.1	0	0
9200	0	0	5224.5	9200	0	0	618375.6	755233.1	0	0
9300	0	0	5324.5	9300	0	0	618375.6	755233.1	0	0
9400	0	0	5424.5	9400	0	0	618375.6	755233.1	0	0
9500	0	0	5524.5	9500	0	0	618375.6	755233.1	0	0
9600	0	0	5624.5	9600	0	0	618375.6	755233.1	0	0
9700	0	0	5724.5	9700	0	0	618375.6	755233.1	0	0
9800	0	0	5824.5	9800	0	0	618375.6	755233.1	0	0
9900	0	0	5924.5	9900	0	0	618375.6	755233.1	0	0
10000	0	0	6024.5	10000	0	0	618375.6	755233.1	0	0
10100	0	0	6124.5	10100	0	0	618375.6	755233.1	0	0
10200	0	0	6224.5	10200	0	0	618375.6	755233.1	0	0
10224.03	0	0	6248.53	10224.03	0	0	618375.6	755233.1	0	0 KOP, Start 10°/00' Build
10250	2.6	3.97	6274.49	10249.99	0.59	0.04	618376.2	755233.1	0.59	10
10300	7.6	3.97	6324.28	10299.78	5.02	0.35	618380.6	755233.5	5.03	10
10350	12.6	3.97	6373.49	10348.99	13.76	0.95	618389.4	755234.1	13.79	10
10400	17.6	3.97	6421.75	10397.25	26.75	1.86	618402.4	755235	26.81	10

10450	22.6	3.97	6468.69	10444.19	43.88	3.05	618419.5	755236.2	43.99	10
10500	27.6	3.97	6513.95	10489.45	65.03	4.51	618440.6	755237.6	65.19	10
10550	32.6	3.97	6557.2	10532.7	90.04	6.25	618465.6	755239.4	90.25	10
10600	37.6	3.97	6598.09	10573.59	118.71	8.24	618494.3	755241.3	118.99	10
10650	42.6	3.97	6636.33	10611.83	150.82	10.47	618526.4	755243.6	151.18	10
10700	47.6	3.97	6671.61	10647.11	186.14	12.92	618561.7	755246	186.59	10
10750	52.6	3.97	6703.68	10679.18	224.39	15.57	618600	755248.7	224.93	10
10800	57.6	3.97	6732.28	10707.78	265.29	18.41	618640.9	755251.5	265.93	10
10850	62.6	3.97	6757.2	10732.7	308.51	21.41	618684.1	755254.5	309.26	10
10900	67.6	3.97	6778.24	10753.74	353.74	24.55	618729.3	755257.7	354.59	10
10950	72.6	3.97	6795.26	10770.76	400.63	27.8	618776.2	755260.9	401.59	10
10974.03	75	3.97	6801.96	10777.46	423.65	29.4	618799.3	755262.5	424.67	10 Start 6°/100' Build
11000	76.56	3.97	6808.34	10783.84	448.76	31.14	618824.4	755264.2	449.84	6
11050	79.56	3.97	6818.69	10794.19	497.55	34.53	618873.2	755267.6	498.75	6
11100	82.56	3.97	6826.46	10801.96	546.82	37.95	618922.4	755271.1	548.14	6
11150	85.56	3.97	6831.64	10807.14	596.43	41.39	618972	755274.5	597.86	6
11200	88.56	3.97	6834.2	10809.7	646.24	44.85	619021.8	755278	647.79	6
11224.03	90	3.97	6834.5	10810	670.21	46.52	619045.8	755279.6	671.82	6 LP, Hold 90° Inc at 3.97° Azm
11300	90	3.97	6834.5	10810	745.99	51.78	619121.6	755284.9	747.79	0
11400	90	3.97	6834.5	10810	845.75	58.7	619221.4	755291.8	847.79	0
11500	90	3.97	6834.5	10810	945.51	65.63	619321.1	755298.7	947.79	0
11600	90	3.97	6834.5	10810	1045.27	72.55	619420.9	755305.7	1047.79	0
11700	90	3.97	6834.5	10810	1145.03	79.48	619520.6	755312.6	1147.79	0
11800	90	3.97	6834.5	10810	1244.79	86.4	619620.4	755319.5	1247.79	0
11900	90	3.97	6834.5	10810	1344.55	93.33	619720.2	755326.4	1347.79	0
12000	90	3.97	6834.5	10810	1444.31	100.25	619819.9	755333.4	1447.79	0
12100	90	3.97	6834.5	10810	1544.07	107.18	619919.7	755340.3	1547.79	0
12200	90	3.97	6834.5	10810	1643.83	114.1	620019.4	755347.2	1647.79	0
12300	90	3.97	6834.5	10810	1743.59	121.03	620119.2	755354.1	1747.79	0
12400	90	3.97	6834.5	10810	1843.35	127.96	620219	755361.1	1847.79	0
12500	90	3.97	6834.5	10810	1943.11	134.88	620318.7	755368	1947.79	0
12600	90	3.97	6834.5	10810	2042.87	141.81	620418.5	755374.9	2047.79	0
12700	90	3.97	6834.5	10810	2142.63	148.73	620518.2	755381.8	2147.79	0
12800	90	3.97	6834.5	10810	2242.39	155.66	620618	755388.8	2247.79	0
12900	90	3.97	6834.5	10810	2342.15	162.58	620717.8	755395.7	2347.79	0
13000	90	3.97	6834.5	10810	2441.91	169.51	620817.5	755402.6	2447.79	0
13100	90	3.97	6834.5	10810	2541.67	176.43	620917.3	755409.5	2547.79	0
13200	90	3.97	6834.5	10810	2641.43	183.36	621017	755416.5	2647.79	0
13300	90	3.97	6834.5	10810	2741.19	190.28	621116.8	755423.4	2747.79	0
13400	90	3.97	6834.5	10810	2840.95	197.21	621216.6	755430.3	2847.79	0
13500	90	3.97	6834.5	10810	2940.71	204.13	621316.3	755437.2	2947.79	0
13600	90	3.97	6834.5	10810	3040.47	211.06	621416.1	755444.2	3047.79	0
13700	90	3.97	6834.5	10810	3140.23	217.99	621515.8	755451.1	3147.79	0
13800	90	3.97	6834.5	10810	3239.99	224.91	621615.6	755458	3247.79	0
13900	90	3.97	6834.5	10810	3339.75	231.84	621715.4	755464.9	3347.79	0
14000	90	3.97	6834.5	10810	3439.51	238.76	621815.1	755471.9	3447.79	0
14100	90	3.97	6834.5	10810	3539.27	245.69	621914.9	755478.8	3547.79	0
14200	90	3.97	6834.5	10810	3639.03	252.61	622014.6	755485.7	3647.79	0
14300	90	3.97	6834.5	10810	3738.79	259.54	622114.4	755492.6	3747.79	0
14400	90	3.97	6834.5	10810	3838.55	266.46	622214.2	755499.6	3847.79	0
14500	90	3.97	6834.5	10810	3938.31	273.39	622313.9	755506.5	3947.79	0
14600	90	3.97	6834.5	10810	4038.07	280.31	622413.7	755513.4	4047.79	0
14700	90	3.97	6834.5	10810	4137.83	287.24	622513.4	755520.3	4147.79	0
14800	90	3.97	6834.5	10810	4237.59	294.16	622613.2	755527.3	4247.79	0
14900	90	3.97	6834.5	10810	4337.35	301.09	622713	755534.2	4347.79	0
15000	90	3.97	6834.5	10810	4437.11	308.02	622812.7	755541.1	4447.79	0
15100	90	3.97	6834.5	10810	4536.87	314.94	622912.5	755548	4547.79	0
15200	90	3.97	6834.5	10810	4636.63	321.87	623012.2	755555	4647.79	0
15300	90	3.97	6834.5	10810	4736.39	328.79	623112	755561.9	4747.79	0
15378.1	90	3.97	6834.5	10810	4814.3	334.2	623189.9	755567.3	4825.89	0 TD at 15378.10

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 3.971° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East 3001.
Grid Convergence at Surface is 0.448° .

Based upon Minimum Curvature type calculations, at a Measured Depth of 15378.10ft.,
the Bottom Hole Displacement is 4825.89ft., in the Direction of 3.971° (Grid).