



# **Austin Exploration, LTD**

**Fremont Co., CO (NAD 83)**

**Pathfinder C-18**

**#2**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**09 June, 2015**

WELL DETAILS: #2

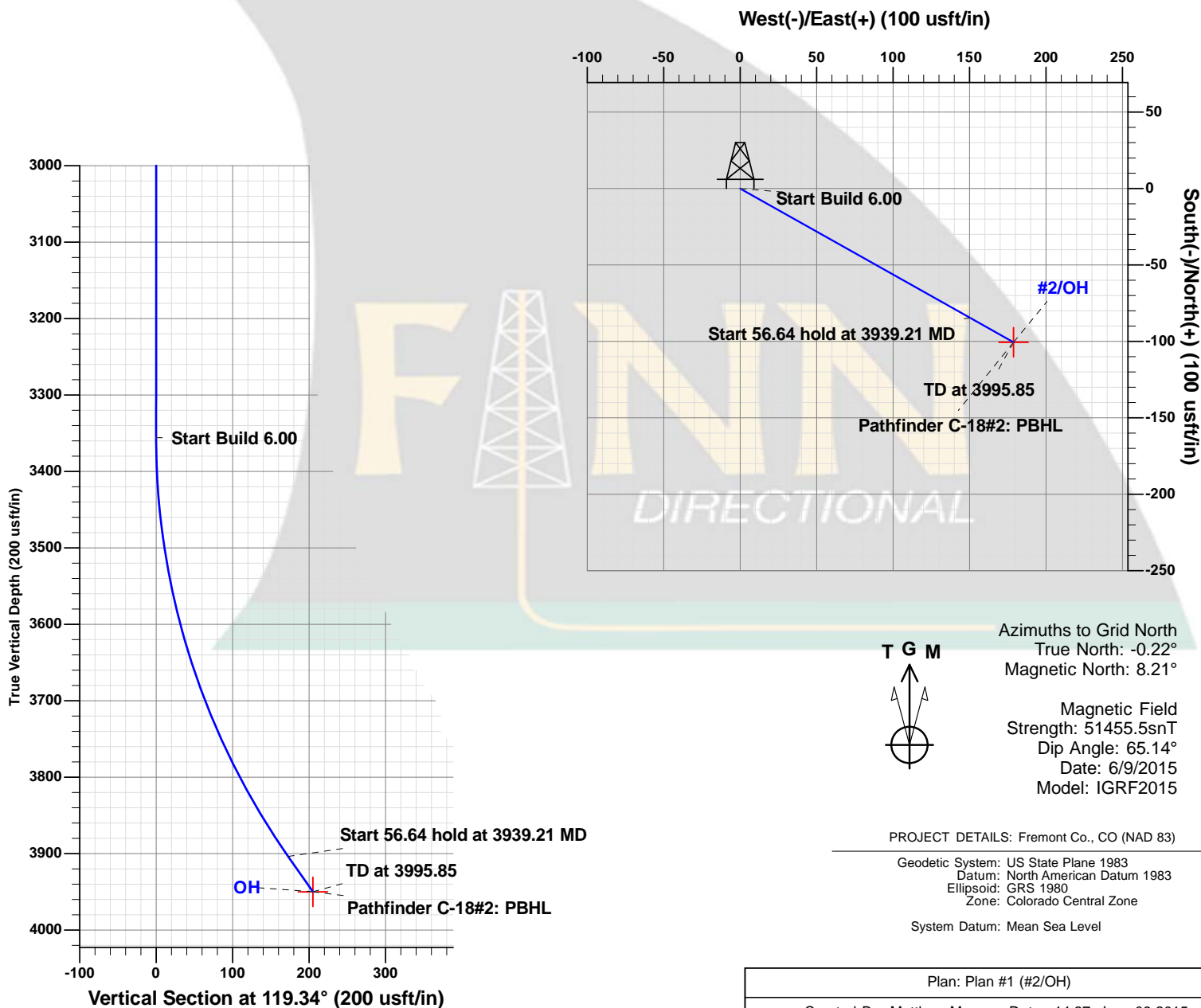
		Rig Name: Original Well Elev			
		Est. 20' RKB @ 5981.00usft (Original Well Elev)			
		Ground Level: 5961.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1175180.57	3100950.95	38.313796	-105.148180

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Pathfinder C-18#2: PBHL	3950.00	-100.53	178.87	1175080.03	3101129.82	38.313518	-105.147558

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	3355.88	0.00	0.00	3355.88	0.00	0.00	0.00	0.00	0.00	
3	3939.21	35.00	119.34	3903.60	-84.62	150.55	6.00	119.34	172.70	
4	3995.85	35.00	119.34	3950.00	-100.53	178.87	0.00	0.00	205.18	Pathfinder C-18#2: PBHL



<b>Database:</b>	Single User DB Primary	<b>Local Co-ordinate Reference:</b>	Well #2
<b>Company:</b>	Austin Exploration, LTD	<b>TVD Reference:</b>	Est. 20' RKB @ 5981.00usft (Original Well Elev)
<b>Project:</b>	Fremont Co., CO (NAD 83)	<b>MD Reference:</b>	Est. 20' RKB @ 5981.00usft (Original Well Elev)
<b>Site:</b>	Pathfinder C-18	<b>North Reference:</b>	Grid
<b>Well:</b>	#2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

<b>Project</b>	Fremont Co., CO (NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site		Pathfinder C-18			
Site Position: From:	Lat/Long	Northing:	1,175,533.76 usft	Latitude:	38.314773
		Easting:	3,100,268.11 usft	Longitude:	-105.150555
		Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "

Well	#2					
Well Position	+N-S	-353.20 usft	Northing:	1,175,180.56 usft	Latitude:	38.313796
	+E-W	682.85 usft	Easting:	3,100,950.95 usft	Longitude:	-105.148180
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,961.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	6/9/2015	8.44	65.14	51,456

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	119.34

<b>Plan Sections</b>										
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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,355.88	0.00	0.00	3,355.88	0.00	0.00	0.00	0.00	0.00	0.00	
3,939.21	35.00	119.34	3,903.60	-84.62	150.55	6.00	6.00	0.00	119.34	
3,995.85	35.00	119.34	3,950.00	-100.53	178.87	0.00	0.00	0.00	0.00	Pathfinder C-18#2:

<b>Database:</b>	Single User DB Primary	<b>Local Co-ordinate Reference:</b>	Well #2
<b>Company:</b>	Austin Exploration, LTD	<b>TVD Reference:</b>	Est. 20' RKB @ 5981.00usft (Original Well Elev)
<b>Project:</b>	Fremont Co., CO (NAD 83)	<b>MD Reference:</b>	Est. 20' RKB @ 5981.00usft (Original Well Elev)
<b>Site:</b>	Pathfinder C-18	<b>North Reference:</b>	Grid
<b>Well:</b>	#2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

## 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
3,355.88	0.00	0.00	3,355.88	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	2.65	119.34	3,399.98	-0.50	0.89	1.02	6.00	6.00	0.00
3,450.00	5.65	119.34	3,449.85	-2.27	4.04	4.63	6.00	6.00	0.00
3,500.00	8.65	119.34	3,499.45	-5.32	9.46	10.86	6.00	6.00	0.00
3,550.00	11.65	119.34	3,548.67	-9.63	17.14	19.66	6.00	6.00	0.00
3,600.00	14.65	119.34	3,597.35	-15.21	27.05	31.03	6.00	6.00	0.00
3,650.00	17.65	119.34	3,645.37	-22.02	39.17	44.94	6.00	6.00	0.00
3,700.00	20.65	119.34	3,692.60	-30.05	53.47	61.34	6.00	6.00	0.00
3,750.00	23.65	119.34	3,738.91	-39.29	69.90	80.18	6.00	6.00	0.00
3,800.00	26.65	119.34	3,784.16	-49.70	88.42	101.43	6.00	6.00	0.00
3,850.00	29.65	119.34	3,828.24	-61.25	108.98	125.01	6.00	6.00	0.00
3,900.00	32.65	119.34	3,871.03	-73.92	131.52	150.87	6.00	6.00	0.00
3,939.21	35.00	119.34	3,903.60	-84.62	150.55	172.70	6.00	6.00	0.00
3,995.85	35.00	119.34	3,950.00	-100.53	178.87	205.18	0.00	0.00	0.00

Pathfinder C-18#2: PBHL

<b>Database:</b>	Single User DB Primary	<b>Local Co-ordinate Reference:</b>	Well #2
<b>Company:</b>	Austin Exploration, LTD	<b>TVD Reference:</b>	Est. 20' RKB @ 5981.00usft (Original Well Elev)
<b>Project:</b>	Fremont Co., CO (NAD 83)	<b>MD Reference:</b>	Est. 20' RKB @ 5981.00usft (Original Well Elev)
<b>Site:</b>	Pathfinder C-18	<b>North Reference:</b>	Grid
<b>Well:</b>	#2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Pathfinder C-18#2: PE	0.00	0.00	3,950.00	-100.53	178.87	1,175,080.03	3,101,129.82	38.313518	-105.147558
- plan hits target center									
- Point									