



# **Austin Exploration, LTD**

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

**Pathfinder C-18**

**#2**

**OH**

**Plan: Plan #4**

## **Standard Planning Report**

**02 October, 2015**

WELL DETAILS: #2

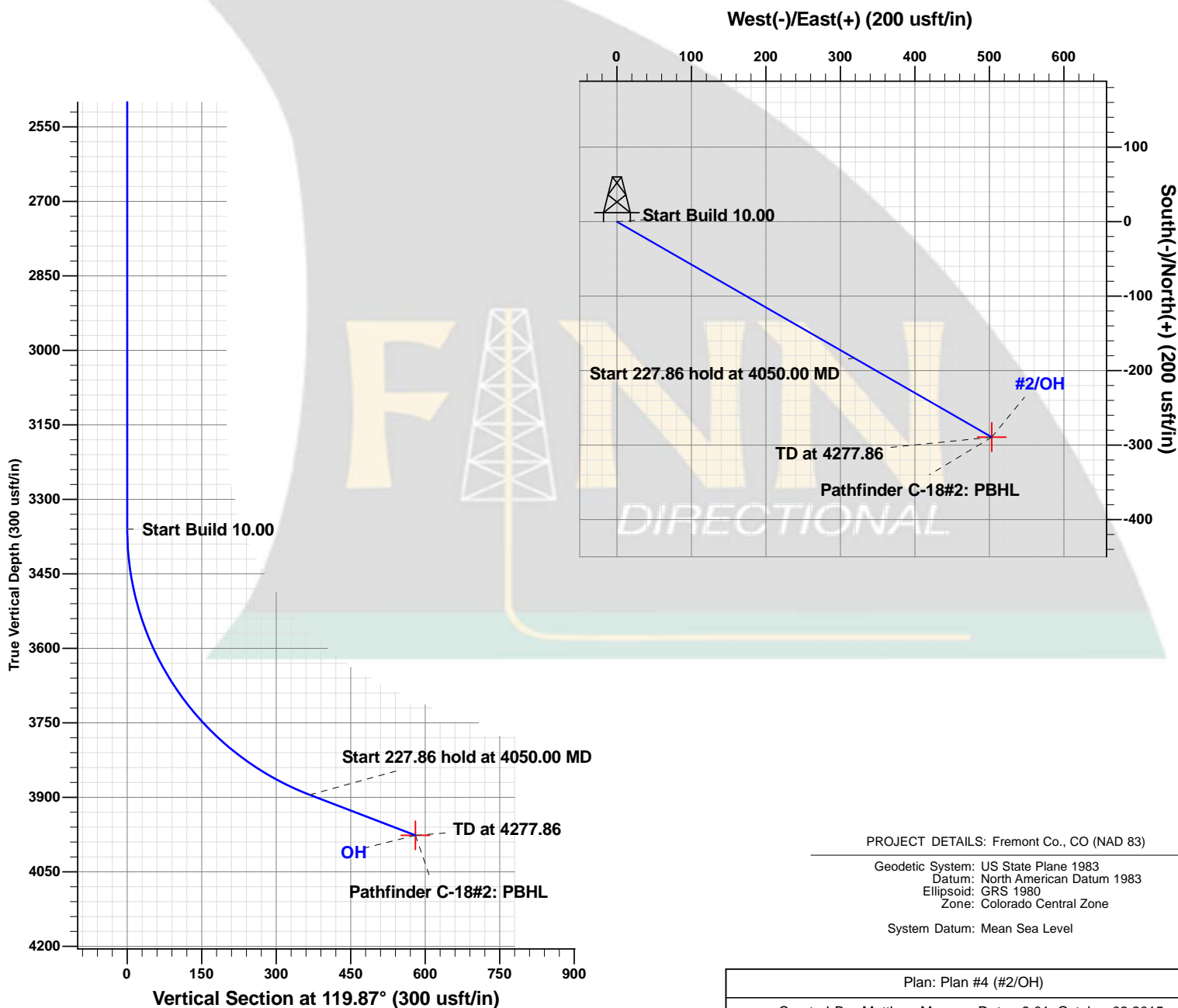
			Rig Name:	Original Well Elev		
			Est. 20' RKB @ 5981.00usft	(Original Well Elev)		
			Ground Level:	5961.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1175180.56	3100950.95	38.313796	-105.148180	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Pathfinder C-18#2: PBHL	3976.56	-289.01	503.27	1174891.55	3101454.23	38.312997	-105.146430

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	3360.00	0.00	0.00	3360.00	0.00	0.00	0.00	0.00	0.00	
3	4050.00	69.00	119.87	3894.90	-183.08	318.80	10.00	119.87	367.63	
4	4277.86	69.00	119.87	3976.56	-289.01	503.27	0.00	0.00	580.36	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 #4		

<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:		Northing:	1,175,533.76 usft	Latitude:	38.314773
From:	Lat/Long	Easting:	3,100,268.11 usft	Longitude:	-105.150555
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.22 °

Well	#2					
Well Position	+N-S	-353.21 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	9/17/2015	8.41	65.14	51,425

<b>Design</b>	Plan #4			
<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	119.87

<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	
3,360.00	0.00	0.00	3,360.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,050.00	69.00	119.87	3,894.90	-183.08	318.80	10.00	10.00	0.00	119.87	
4,277.86	69.00	119.87	3,976.56	-289.01	503.27	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 #4		

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
3,360.00	0.00	0.00	3,360.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	4.00	119.87	3,399.97	-0.70	1.21	1.40	10.00	10.00	0.00
3,450.00	9.00	119.87	3,449.63	-3.51	6.12	7.05	10.00	10.00	0.00
3,500.00	14.00	119.87	3,498.61	-8.48	14.76	17.02	10.00	10.00	0.00
3,550.00	19.00	119.87	3,546.54	-15.55	27.07	31.22	10.00	10.00	0.00
3,600.00	24.00	119.87	3,593.04	-24.67	42.96	49.54	10.00	10.00	0.00
3,650.00	29.00	119.87	3,637.78	-35.77	62.30	71.84	10.00	10.00	0.00
3,700.00	34.00	119.87	3,680.39	-48.78	84.94	97.95	10.00	10.00	0.00
3,750.00	39.00	119.87	3,720.57	-63.59	110.73	127.69	10.00	10.00	0.00
3,800.00	44.00	119.87	3,758.01	-80.08	139.45	160.81	10.00	10.00	0.00
3,850.00	49.00	119.87	3,792.42	-98.14	170.89	197.06	10.00	10.00	0.00
3,900.00	54.00	119.87	3,823.53	-117.62	204.81	236.18	10.00	10.00	0.00
3,950.00	59.00	119.87	3,851.12	-138.37	240.96	277.86	10.00	10.00	0.00
4,000.00	64.00	119.87	3,874.97	-160.25	279.05	321.79	10.00	10.00	0.00
4,050.00	69.00	119.87	3,894.90	-183.08	318.80	367.63	10.00	10.00	0.00
4,100.00	69.00	119.87	3,912.82	-206.32	359.28	414.31	0.00	0.00	0.00
4,200.00	69.00	119.87	3,948.66	-252.81	440.24	507.67	0.00	0.00	0.00
4,277.86	69.00	119.87	3,976.56	-289.01	503.27	580.36	0.00	0.00	0.00

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<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 #4		

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	3,976.56	-289.01	503.27	1,174,891.54	3,101,454.23	38.312997	-105.146430
- plan hits target center									
- Point									