

Aus-Tex Exploration, Inc.



Aus-Tex Exploration, Inc.

Fremont Co., CO

Sec.12-T20S-R70W

Pathfinder C 11-12 ~~11~~ 1H2

Wellbore #1

Plan: Design #1

Standard Planning Report

22 August, 2012

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Pathfinder C 11-12 #2
Company:	Aus-Tex Exploration, Inc.	TVD Reference:	WELL @ 5953.0usft (Original Well Elev)
Project:	Fremont Co., CO	MD Reference:	WELL @ 5953.0usft (Original Well Elev)
Site:	Sec.12-T20S-R70W	North Reference:	True
Well:	Pathfinder C 11-12 #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Fremont Co., CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Sec. 12-T20S-R70W			
Site Position:		Northing:	1,180,610.43 usft	Latitude:	38° 19' 43.660 N
From:	Lat/Long	Easting:	3,092,180.66 usft	Longitude:	105° 10' 43.240 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.20 °

Well	Pathfinder C 11-12 #2					
Well Position	+N/-S	20.0 usft	Northing:	1,180,630.45 usft	Latitude:	38° 19' 43.858 N
	+E/-W	7.0 usft	Easting:	3,092,187.59 usft	Longitude:	105° 10' 43.152 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	5,938.0 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/21/12	8.73	65.24	51.837

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	153.92

Plan Sections										
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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,596.1	0.00	0.00	4,596.1	0.0	0.0	0.00	0.00	0.00	0.00	
5,789.8	95.50	153.92	5,309.0	-704.9	345.1	8.00	8.00	0.00	153.92	PBHL Pathfinder C 11
9,656.3	95.50	153.92	4,938.4	-4,161.6	2,037.3	0.00	0.00	0.00	0.00	PBHL Pathfinder C 11

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Wellbore:	Wellbore #1		
Design:	Design #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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,596.1	0.00	0.00	4,596.1	0.0	0.0	0.0	0.00	0.00	0.00
KOP / Start Build 8.00°									
4,600.0	0.31	153.92	4,600.0	0.0	0.0	0.0	8.00	8.00	0.00
4,700.0	8.31	153.92	4,699.6	-6.8	3.3	7.5	8.00	8.00	0.00
4,800.0	16.31	153.92	4,797.3	-25.9	12.7	28.8	8.00	8.00	0.00
4,900.0	24.31	153.92	4,891.0	-57.0	27.9	63.5	8.00	8.00	0.00
5,000.0	32.31	153.92	4,978.9	-99.6	48.8	110.9	8.00	8.00	0.00
5,100.0	40.31	153.92	5,059.4	-152.8	74.8	170.1	8.00	8.00	0.00

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Well:	Pathfinder C 11-12 #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
5,200.0	48.31	153.92	5,130.9	-215.4	105.5	239.9	8.00	8.00	0.00
5,300.0	56.31	153.92	5,192.0	-286.5	140.2	318.9	8.00	8.00	0.00
5,400.0	64.31	153.92	5,241.5	-364.4	178.4	405.7	8.00	8.00	0.00
5,500.0	72.31	153.92	5,278.4	-447.8	219.2	498.6	8.00	8.00	0.00
5,600.0	80.31	153.92	5,302.1	-535.0	261.9	595.7	8.00	8.00	0.00
5,700.0	88.31	153.92	5,312.0	-624.3	305.6	695.1	8.00	8.00	0.00
5,789.8	95.50	153.92	5,309.0	-704.9	345.1	784.8	8.00	8.00	0.00
Start 3866.5 hold at 5789.8 MD									
5,800.0	95.50	153.92	5,308.0	-714.0	349.5	794.9	0.00	0.00	0.00
5,900.0	95.50	153.92	5,298.4	-803.4	393.3	894.5	0.00	0.00	0.00
6,000.0	95.50	153.92	5,288.9	-892.8	437.1	994.0	0.00	0.00	0.00
6,100.0	95.50	153.92	5,279.3	-982.2	480.8	1,093.6	0.00	0.00	0.00
6,200.0	95.50	153.92	5,269.7	-1,071.6	524.6	1,193.1	0.00	0.00	0.00
6,300.0	95.50	153.92	5,260.1	-1,161.0	568.4	1,292.6	0.00	0.00	0.00
6,400.0	95.50	153.92	5,250.5	-1,250.4	612.1	1,392.2	0.00	0.00	0.00
6,500.0	95.50	153.92	5,240.9	-1,339.8	655.9	1,491.7	0.00	0.00	0.00
6,600.0	95.50	153.92	5,231.4	-1,429.2	699.7	1,591.3	0.00	0.00	0.00
6,700.0	95.50	153.92	5,221.8	-1,518.6	743.4	1,690.8	0.00	0.00	0.00
6,800.0	95.50	153.92	5,212.2	-1,608.0	787.2	1,790.3	0.00	0.00	0.00
6,900.0	95.50	153.92	5,202.6	-1,697.4	831.0	1,889.9	0.00	0.00	0.00
7,000.0	95.50	153.92	5,193.0	-1,786.8	874.7	1,989.4	0.00	0.00	0.00
7,100.0	95.50	153.92	5,183.4	-1,876.2	918.5	2,089.0	0.00	0.00	0.00
7,200.0	95.50	153.92	5,173.8	-1,965.6	962.3	2,188.5	0.00	0.00	0.00
7,300.0	95.50	153.92	5,164.3	-2,055.0	1,006.0	2,288.0	0.00	0.00	0.00
7,400.0	95.50	153.92	5,154.7	-2,144.4	1,049.8	2,387.6	0.00	0.00	0.00
7,500.0	95.50	153.92	5,145.1	-2,233.8	1,093.6	2,487.1	0.00	0.00	0.00
7,600.0	95.50	153.92	5,135.5	-2,323.2	1,137.3	2,586.7	0.00	0.00	0.00
7,700.0	95.50	153.92	5,125.9	-2,412.6	1,181.1	2,686.2	0.00	0.00	0.00
7,800.0	95.50	153.92	5,116.3	-2,502.0	1,224.9	2,785.7	0.00	0.00	0.00
7,900.0	95.50	153.92	5,106.8	-2,591.4	1,268.6	2,885.3	0.00	0.00	0.00
8,000.0	95.50	153.92	5,097.2	-2,680.8	1,312.4	2,984.8	0.00	0.00	0.00
8,100.0	95.50	153.92	5,087.6	-2,770.2	1,356.2	3,084.4	0.00	0.00	0.00
8,200.0	95.50	153.92	5,078.0	-2,859.6	1,399.9	3,183.9	0.00	0.00	0.00
8,300.0	95.50	153.92	5,068.4	-2,949.0	1,443.7	3,283.4	0.00	0.00	0.00
8,400.0	95.50	153.92	5,058.8	-3,038.4	1,487.5	3,383.0	0.00	0.00	0.00
8,500.0	95.50	153.92	5,049.2	-3,127.8	1,531.2	3,482.5	0.00	0.00	0.00
8,600.0	95.50	153.92	5,039.7	-3,217.2	1,575.0	3,582.1	0.00	0.00	0.00
8,700.0	95.50	153.92	5,030.1	-3,306.6	1,618.8	3,681.6	0.00	0.00	0.00
8,800.0	95.50	153.92	5,020.5	-3,396.0	1,662.6	3,781.1	0.00	0.00	0.00
8,900.0	95.50	153.92	5,010.9	-3,485.4	1,706.3	3,880.7	0.00	0.00	0.00
9,000.0	95.50	153.92	5,001.3	-3,574.8	1,750.1	3,980.2	0.00	0.00	0.00
9,100.0	95.50	153.92	4,991.7	-3,664.2	1,793.9	4,079.8	0.00	0.00	0.00
9,200.0	95.50	153.92	4,982.2	-3,753.6	1,837.6	4,179.3	0.00	0.00	0.00
9,300.0	95.50	153.92	4,972.6	-3,843.0	1,881.4	4,278.8	0.00	0.00	0.00
9,400.0	95.50	153.92	4,963.0	-3,932.4	1,925.2	4,378.4	0.00	0.00	0.00
9,500.0	95.50	153.92	4,953.4	-4,021.8	1,968.9	4,477.9	0.00	0.00	0.00
9,600.0	95.50	153.92	4,943.8	-4,111.2	2,012.7	4,577.5	0.00	0.00	0.00
9,656.3	95.50	153.92	4,938.4	-4,161.6	2,037.3	4,633.5	0.00	0.00	0.00
TD at 9656.3									

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Project:	Fremont Co., CO	MD Reference:	WELL @ 5953.0usft (Original Well Elev)
Site:	Sec. 12-T20S-R70W	North Reference:	True
Well:	Pathfinder C 11-12 #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)		
PBHL Pathfinder C 11-1:	0.00	0.00	4,938.4	-4,161.6	2,037.3	1,176,476.10	3,094,239.64	38° 19' 2.720 N	105° 10' 17.590 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
4,596.1	4,596.1	0.0	0.0	KOP / Start Build 8.00"
5,789.8	5,309.0	-704.9	345.1	Start 3866.5 hold at 5789.8 MD
9,656.3	4,938.4	-4,161.6	2,037.3	TD at 9656.3