

Well Planning Proposal FOR

**Aus-Tex Exploration
Pathfinder C 14-01 #1
Fremont Co., CO**

Well File: Design #2 (4/18/12)

Presented By:

Pat Rasmussen
Regional Manager

Bret Wolford
Well Planner



Aus-Tex Exploration
 Project: Fremont Co., CO
 Site: Sec.1-T20S-R70W
 Well: Pathfinder C 14-01 #1
 Wellbore: Wellbore #2-Curve/Lateral
 Design: Design #2
 Lat: 38° 20' 0.150 N
 Long: 105° 10' 46.060 W
 GL: 5955.00
 KB: WELL @ 5975.00usft



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1666.59	7.33	60.02	1665.59	11.70	20.29	2.00	60.02	0.01	Start 1985.06 hold at 1666.59 MD
3651.64	7.33	60.02	3634.41	138.30	239.71	0.00	0.00	0.09	Start Drop -2.00
4018.23	0.00	0.00	4000.00	150.00	260.00	2.00	180.00	0.10	Start 879.68 hold at 4018.23 MD
4897.91	0.00	0.00	4879.68	150.00	260.00	0.00	0.00	0.10	KOP / Start Build 10.00
5852.91	95.50	150.00	5450.00	-393.75	573.94	10.00	150.00	627.97	EOC / Start 4000.00 hold at 5852.91 MD
9852.91	95.50	150.00	5066.62	-3841.91	2564.73	0.00	0.00	4609.56	TD at 9852.91

WELL DETAILS: Pathfinder C 14-01 #1

+N/-S	+E/-W	Northing	Ground Level: Easting	5955.00 Latitude	Longitude	Slot
0.00	0.00	1182277.807	3091950.088	38° 20' 0.150 N	105° 10' 46.060 W	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
P14-01 PBHL	5066.62	-3841.91	2564.73	1178444.970	3094528.358	38° 19' 22.172 N	105° 10' 13.878 W	

CASING DETAILS

TVD	MD	Name	Size
1200.00	1200.00	9 5/8" Csg.	9-5/8
5450.00	5852.91	7" Csg.	7
5066.62	9852.91	5 1/2" Csg.	5-1/2

FORMATION TOP DETAILS

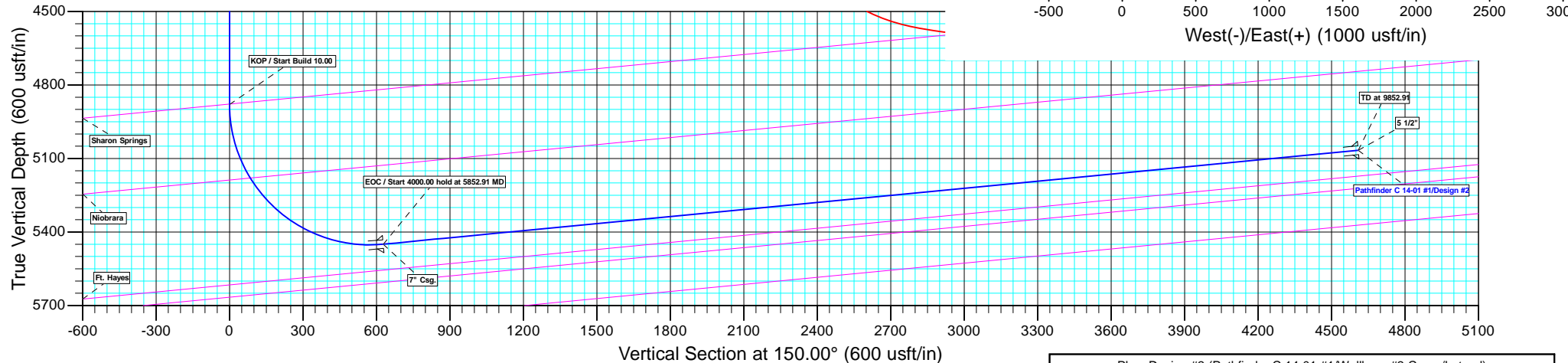
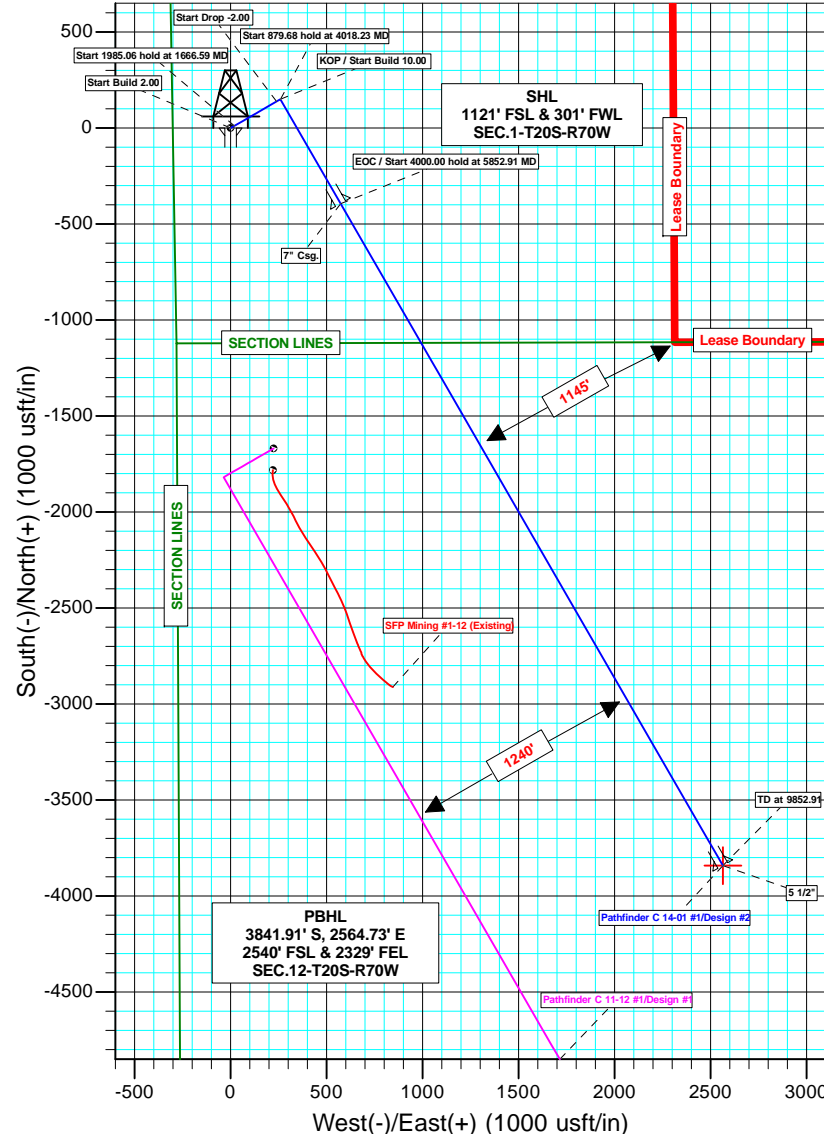
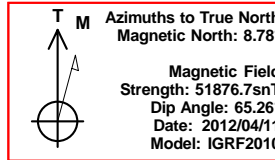
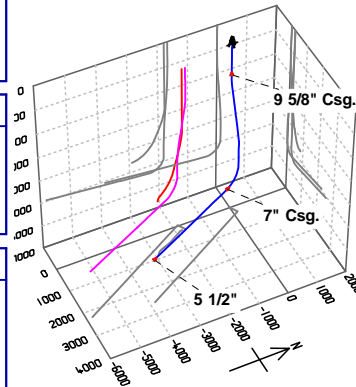
TVDPATH	MDPATH	Formation
170.00	170.00	Vermejo
978.00	978.00	Trinidad
1410.00	1410.03	Pierre
2154.00	2159.02	Cone-in-Cone
2883.99	2895.04	Tee Pee Butte
3479.99	3495.95	Rusty
4877.99	4896.22	Sharon Springs
5179.82	5213.81	Niobrara

SITE DETAILS: Sec.1-T20S-R70W

Site Centre Latitude: 38° 20' 0.150 N
 Longitude: 105° 10' 46.600 W
 Positional Uncertainty: 0.00
 Convergence: 0.20
 Local North: True

PROJECT DETAILS: Fremont Co., CO

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Central Zone
 System Datum: Mean Sea Level



Aus-Tex Exploration

Fremont Co., CO

Sec.1-T20S-R70W

Pathfinder C 14-01 #1

Wellbore #2-Curve/Lateral

Plan: Design #2

Standard Planning Report

18 April, 2012



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Company:	Aus-Tex Exploration	TVD Reference:	WELL @ 5975.00usft
Project:	Fremont Co., CO	MD Reference:	WELL @ 5975.00usft
Site:	Sec.1-T20S-R70W	North Reference:	True
Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2-Curve/Lateral		
Design:	Design #2		

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.1-T20S-R70W				
Site Position:		Northing:	1,182,277.669 usft	Latitude:	38° 20' 0.150 N
From:	Lat/Long	Easting:	3,091,907.059 usft	Longitude:	105° 10' 46.600 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.20 °

Well	Pathfinder C 14-01 #1					
Well Position	+N/-S	-0.01 usft	Northing:	1,182,277.807 usft	Latitude:	38° 20' 0.150 N
	+E/-W	43.03 usft	Easting:	3,091,950.088 usft	Longitude:	105° 10' 46.060 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,955.00 usft

Wellbore	Wellbore #2-Curve/Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2012/04/11	8.78	65.26	51,877

Design	Design #2			
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	150.00

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
0.00	0.00	0.00	0.00	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	
1,666.59	7.33	60.02	1,665.59	11.70	20.29	2.00	2.00	0.00	60.02	
3,651.64	7.33	60.02	3,634.41	138.30	239.71	0.00	0.00	0.00	0.00	
4,018.23	0.00	0.00	4,000.00	150.00	260.00	2.00	-2.00	0.00	180.00	
4,897.91	0.00	0.00	4,879.68	150.00	260.00	0.00	0.00	0.00	0.00	
5,852.91	95.50	150.00	5,450.00	-393.75	573.94	10.00	10.00	0.00	150.00	P14-01 PBHL
9,852.91	95.50	150.00	5,066.62	-3,841.91	2,564.73	0.00	0.00	0.00	0.00	P14-01 PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Company:	Aus-Tex Exploration	TVD Reference:	WELL @ 5975.00usft
Project:	Fremont Co., CO	MD Reference:	WELL @ 5975.00usft
Site:	Sec.1-T20S-R70W	North Reference:	True
Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2-Curve/Lateral		
Design:	Design #2		

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	
Vermejo										
170.00	0.00	0.00	170.00	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	
Trinidad										
978.00	0.00	0.00	978.00	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	
9 5/8" Csg.										
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
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	2.00	60.02	1,399.98	0.87	1.51	0.00	2.00	2.00	0.00	
Pierre										
1,410.03	2.20	60.02	1,410.00	1.06	1.83	0.00	2.00	2.00	0.00	
1,500.00	4.00	60.02	1,499.84	3.49	6.04	0.00	2.00	2.00	0.00	
1,600.00	6.00	60.02	1,599.45	7.84	13.59	0.01	2.00	2.00	0.00	
Start 1985.06 hold at 1666.59 MD										
1,666.59	7.33	60.02	1,665.59	11.70	20.29	0.01	2.00	2.00	0.00	
1,700.00	7.33	60.02	1,698.73	13.84	23.98	0.01	0.00	0.00	0.00	
1,800.00	7.33	60.02	1,797.91	20.21	35.04	0.01	0.00	0.00	0.00	
1,900.00	7.33	60.02	1,897.09	26.59	46.09	0.02	0.00	0.00	0.00	
2,000.00	7.33	60.02	1,996.27	32.97	57.14	0.02	0.00	0.00	0.00	
2,100.00	7.33	60.02	2,095.46	39.34	68.20	0.03	0.00	0.00	0.00	
Cone-in-Cone										
2,159.02	7.33	60.02	2,154.00	43.11	74.72	0.03	0.00	0.00	0.00	
2,200.00	7.33	60.02	2,194.64	45.72	79.25	0.03	0.00	0.00	0.00	
2,300.00	7.33	60.02	2,293.82	52.10	90.30	0.03	0.00	0.00	0.00	
2,400.00	7.33	60.02	2,393.00	58.48	101.36	0.04	0.00	0.00	0.00	
2,500.00	7.33	60.02	2,492.19	64.85	112.41	0.04	0.00	0.00	0.00	
2,600.00	7.33	60.02	2,591.37	71.23	123.47	0.05	0.00	0.00	0.00	
2,700.00	7.33	60.02	2,690.55	77.61	134.52	0.05	0.00	0.00	0.00	
2,800.00	7.33	60.02	2,789.73	83.98	145.57	0.05	0.00	0.00	0.00	
Tee Pee Butte										
2,895.04	7.33	60.02	2,883.99	90.05	156.08	0.06	0.00	0.00	0.00	
2,900.00	7.33	60.02	2,888.92	90.36	156.63	0.06	0.00	0.00	0.00	
3,000.00	7.33	60.02	2,988.10	96.74	167.68	0.06	0.00	0.00	0.00	
3,100.00	7.33	60.02	3,087.28	103.12	178.73	0.07	0.00	0.00	0.00	
3,200.00	7.33	60.02	3,186.46	109.49	189.79	0.07	0.00	0.00	0.00	
3,300.00	7.33	60.02	3,285.65	115.87	200.84	0.07	0.00	0.00	0.00	
3,400.00	7.33	60.02	3,384.83	122.25	211.90	0.08	0.00	0.00	0.00	
Rusty										
3,495.95	7.33	60.02	3,479.99	128.37	222.50	0.08	0.00	0.00	0.00	
3,500.00	7.33	60.02	3,484.01	128.62	222.95	0.08	0.00	0.00	0.00	
3,600.00	7.33	60.02	3,583.19	135.00	234.00	0.09	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Company:	Aus-Tex Exploration	TVD Reference:	WELL @ 5975.00usft
Project:	Fremont Co., CO	MD Reference:	WELL @ 5975.00usft
Site:	Sec.1-T20S-R70W	North Reference:	True
Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2-Curve/Lateral		
Design:	Design #2		

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)	
Start Drop -2.00										
3,651.64	7.33	60.02	3,634.41	138.30	239.71	0.09	0.00	0.00	0.00	
3,700.00	6.36	60.02	3,682.42	141.18	244.71	0.09	2.00	-2.00	0.00	
3,800.00	4.36	60.02	3,781.98	145.85	252.80	0.09	2.00	-2.00	0.00	
3,900.00	2.36	60.02	3,881.80	148.78	257.89	0.10	2.00	-2.00	0.00	
4,000.00	0.36	60.02	3,981.77	149.97	259.95	0.10	2.00	-2.00	0.00	
Start 879.68 hold at 4018.23 MD										
4,018.23	0.00	0.00	4,000.00	150.00	260.00	0.10	2.00	-2.00	0.00	
4,100.00	0.00	0.00	4,081.77	150.00	260.00	0.10	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,181.77	150.00	260.00	0.10	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,281.77	150.00	260.00	0.10	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,381.77	150.00	260.00	0.10	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,481.77	150.00	260.00	0.10	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,581.77	150.00	260.00	0.10	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,681.77	150.00	260.00	0.10	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,781.77	150.00	260.00	0.10	0.00	0.00	0.00	
Sharon Springs										
4,896.22	0.00	0.00	4,877.99	150.00	260.00	0.10	0.00	0.00	0.00	
KOP / Start Build 10.00										
4,897.91	0.00	0.00	4,879.68	150.00	260.00	0.10	0.00	0.00	0.00	
4,900.00	0.21	150.00	4,881.77	150.00	260.00	0.10	10.00	10.00	0.00	
4,950.00	5.21	150.00	4,931.70	147.95	261.18	2.46	10.00	10.00	0.00	
5,000.00	10.21	150.00	4,981.23	142.14	264.54	9.17	10.00	10.00	0.00	
5,050.00	15.21	150.00	5,029.99	132.62	270.03	20.16	10.00	10.00	0.00	
5,100.00	20.21	150.00	5,077.61	119.45	277.64	35.37	10.00	10.00	0.00	
5,150.00	25.21	150.00	5,123.72	102.74	287.28	54.66	10.00	10.00	0.00	
5,200.00	30.21	150.00	5,167.97	82.61	298.91	77.91	10.00	10.00	0.00	
Niobrara										
5,213.81	31.59	150.00	5,179.82	76.47	302.45	85.00	10.00	10.00	0.00	
5,250.00	35.21	150.00	5,210.03	59.22	312.41	104.92	10.00	10.00	0.00	
5,300.00	40.21	150.00	5,249.57	32.75	327.70	135.49	10.00	10.00	0.00	
5,350.00	45.21	150.00	5,286.30	3.38	344.65	169.39	10.00	10.00	0.00	
5,400.00	50.21	150.00	5,319.93	-28.64	363.14	206.37	10.00	10.00	0.00	
5,450.00	55.21	150.00	5,350.22	-63.07	383.02	246.13	10.00	10.00	0.00	
5,500.00	60.21	150.00	5,376.92	-99.67	404.15	288.39	10.00	10.00	0.00	
5,550.00	65.21	150.00	5,399.84	-138.14	426.36	332.81	10.00	10.00	0.00	
5,600.00	70.21	150.00	5,418.80	-178.19	449.48	379.06	10.00	10.00	0.00	
5,650.00	75.21	150.00	5,433.65	-219.52	473.34	426.78	10.00	10.00	0.00	
5,700.00	80.21	150.00	5,444.29	-261.82	497.76	475.62	10.00	10.00	0.00	
5,750.00	85.21	150.00	5,450.64	-304.75	522.55	525.20	10.00	10.00	0.00	
5,800.00	90.21	150.00	5,452.63	-348.01	547.52	575.14	10.00	10.00	0.00	
EOC / Start 4000.00 hold at 5852.91 MD - 7" Csg.										
5,852.91	95.50	150.00	5,450.00	-393.75	573.94	627.97	10.00	10.00	0.00	
5,900.00	95.50	150.00	5,445.49	-434.35	597.37	674.84	0.00	0.00	0.00	
6,000.00	95.50	150.00	5,435.90	-520.55	647.14	774.38	0.00	0.00	0.00	
6,100.00	95.50	150.00	5,426.32	-606.76	696.91	873.92	0.00	0.00	0.00	
6,200.00	95.50	150.00	5,416.73	-692.96	746.68	973.46	0.00	0.00	0.00	
6,300.00	95.50	150.00	5,407.15	-779.16	796.45	1,073.00	0.00	0.00	0.00	
6,400.00	95.50	150.00	5,397.56	-865.37	846.22	1,172.54	0.00	0.00	0.00	
6,500.00	95.50	150.00	5,387.98	-951.57	895.99	1,272.08	0.00	0.00	0.00	
6,600.00	95.50	150.00	5,378.39	-1,037.78	945.76	1,371.62	0.00	0.00	0.00	
6,700.00	95.50	150.00	5,368.81	-1,123.98	995.53	1,471.16	0.00	0.00	0.00	
6,800.00	95.50	150.00	5,359.23	-1,210.18	1,045.30	1,570.70	0.00	0.00	0.00	

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Project:	Fremont Co., CO	MD Reference:	WELL @ 5975.00usft
Site:	Sec.1-T20S-R70W	North Reference:	True
Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2-Curve/Lateral		
Design:	Design #2		

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)	
6,900.00	95.50	150.00	5,349.64	-1,296.39	1,095.07	1,670.24	0.00	0.00	0.00	
7,000.00	95.50	150.00	5,340.06	-1,382.59	1,144.84	1,769.78	0.00	0.00	0.00	
7,100.00	95.50	150.00	5,330.47	-1,468.79	1,194.61	1,869.32	0.00	0.00	0.00	
7,200.00	95.50	150.00	5,320.89	-1,555.00	1,244.38	1,968.86	0.00	0.00	0.00	
7,300.00	95.50	150.00	5,311.30	-1,641.20	1,294.15	2,068.40	0.00	0.00	0.00	
7,400.00	95.50	150.00	5,301.72	-1,727.41	1,343.92	2,167.94	0.00	0.00	0.00	
7,500.00	95.50	150.00	5,292.13	-1,813.61	1,393.69	2,267.48	0.00	0.00	0.00	
7,600.00	95.50	150.00	5,282.55	-1,899.81	1,443.46	2,367.02	0.00	0.00	0.00	
7,700.00	95.50	150.00	5,272.96	-1,986.02	1,493.23	2,466.56	0.00	0.00	0.00	
7,800.00	95.50	150.00	5,263.38	-2,072.22	1,543.00	2,566.10	0.00	0.00	0.00	
7,900.00	95.50	150.00	5,253.80	-2,158.43	1,592.77	2,665.64	0.00	0.00	0.00	
8,000.00	95.50	150.00	5,244.21	-2,244.63	1,642.54	2,765.18	0.00	0.00	0.00	
8,100.00	95.50	150.00	5,234.63	-2,330.83	1,692.31	2,864.72	0.00	0.00	0.00	
8,200.00	95.50	150.00	5,225.04	-2,417.04	1,742.08	2,964.25	0.00	0.00	0.00	
8,300.00	95.50	150.00	5,215.46	-2,503.24	1,791.85	3,063.79	0.00	0.00	0.00	
8,400.00	95.50	150.00	5,205.87	-2,589.44	1,841.62	3,163.33	0.00	0.00	0.00	
8,500.00	95.50	150.00	5,196.29	-2,675.65	1,891.39	3,262.87	0.00	0.00	0.00	
8,600.00	95.50	150.00	5,186.70	-2,761.85	1,941.16	3,362.41	0.00	0.00	0.00	
8,700.00	95.50	150.00	5,177.12	-2,848.06	1,990.93	3,461.95	0.00	0.00	0.00	
8,800.00	95.50	150.00	5,167.53	-2,934.26	2,040.70	3,561.49	0.00	0.00	0.00	
8,900.00	95.50	150.00	5,157.95	-3,020.46	2,090.47	3,661.03	0.00	0.00	0.00	
9,000.00	95.50	150.00	5,148.36	-3,106.67	2,140.24	3,760.57	0.00	0.00	0.00	
9,100.00	95.50	150.00	5,138.78	-3,192.87	2,190.01	3,860.11	0.00	0.00	0.00	
9,200.00	95.50	150.00	5,129.20	-3,279.08	2,239.78	3,959.65	0.00	0.00	0.00	
9,300.00	95.50	150.00	5,119.61	-3,365.28	2,289.55	4,059.19	0.00	0.00	0.00	
9,400.00	95.50	150.00	5,110.03	-3,451.48	2,339.32	4,158.73	0.00	0.00	0.00	
9,500.00	95.50	150.00	5,100.44	-3,537.69	2,389.09	4,258.27	0.00	0.00	0.00	
9,600.00	95.50	150.00	5,090.86	-3,623.89	2,438.86	4,357.81	0.00	0.00	0.00	
9,700.00	95.50	150.00	5,081.27	-3,710.09	2,488.63	4,457.35	0.00	0.00	0.00	
9,800.00	95.50	150.00	5,071.69	-3,796.30	2,538.40	4,556.89	0.00	0.00	0.00	
TD at 9852.91 - P14-01 PBHL										
9,852.91	95.50	150.00	5,066.62	-3,841.91	2,564.73	4,609.55	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
P14-01 PBHL - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	5,066.62	-3,841.91	2,564.73	1,178,444.970	3,094,528.358	38° 19' 22.172 N	105° 10' 13.878 W	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
9,852.91	5,066.62	5 1/2"	5-1/2	6		
1,200.00	1,200.00	9 5/8" Csg.	9-5/8	12-1/4		
5,852.91	5,450.00	7" Csg.	7	8-3/4		

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Company:	Aus-Tex Exploration	TVD Reference:	WELL @ 5975.00usft
Project:	Fremont Co., CO	MD Reference:	WELL @ 5975.00usft
Site:	Sec.1-T20S-R70W	North Reference:	True
Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2-Curve/Lateral		
Design:	Design #2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
170.00	170.00	Vermejo		-5.50	150.00	
978.00	978.00	Trinidad		-5.50	150.00	
1,410.03	1,410.00	Pierre		-5.50	150.00	
2,159.02	2,154.00	Cone-in-Cone		-5.50	150.00	
2,895.04	2,884.00	Tee Pee Butte		-5.50	150.00	
3,495.95	3,480.00	Rusty		-5.50	150.00	
4,896.22	4,878.00	Sharon Springs		-5.50	150.00	
5,213.81	5,188.00	Niobrara		-5.50	150.00	
4,976.00	5,616.00	Ft. Hayes		-5.50	150.00	
4,976.00	5,666.00	Codell		-5.50	150.00	
4,976.00	5,816.00	Green Horn		-5.50	150.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,300.00	1,300.00	0.00	0.00	Start Build 2.00	
1,666.59	1,665.59	11.70	20.29	Start 1985.06 hold at 1666.59 MD	
3,651.64	3,634.41	138.30	239.71	Start Drop -2.00	
4,018.23	4,000.00	150.00	260.00	Start 879.68 hold at 4018.23 MD	
4,897.91	4,879.68	150.00	260.00	KOP / Start Build 10.00	
5,852.91	5,450.00	-393.75	573.94	EOC / Start 4000.00 hold at 5852.91 MD	
9,852.91	5,066.62	-3,841.91	2,564.73	TD at 9852.91	

Aus-Tex Exploration

Fremont Co., CO
Sec.1-T20S-R70W
Pathfinder C 14-01 #1

Wellbore #2-Curve/Lateral
Design #2

Anticollision Report

18 April, 2012



Company:	Aus-Tex Exploration	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Project:	Fremont Co., CO	TVD Reference:	WELL @ 5975.00usft
Reference Site:	Sec.1-T20S-R70W	MD Reference:	WELL @ 5975.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #2-Curve/Lateral	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Reference	Design #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2012/04/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	9,852.91	Design #2 (Wellbore #2-Curve/Lateral)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec.12-T20S-R70W						
Pathfinder C 11-12 #1 - Wellbore #2-Curve/Lateral - Desi	7,277.73	5,563.84	1,239.97	1,177.45	19.833	CC
Pathfinder C 11-12 #1 - Wellbore #2-Curve/Lateral - Desi	9,852.91	8,140.39	1,240.06	1,065.17	7.090	ES, SF
SFP Mining #1-12 (Existing) - Wellbore #1 - Wellbore #1	8,241.06	5,131.51	1,206.10	1,123.84	14.663	CC, ES
SFP Mining #1-12 (Existing) - Wellbore #1 - Wellbore #1	8,600.00	5,131.51	1,258.37	1,169.14	14.102	SF

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference														
Offset														
Semi Major Axis														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	17.00	0.00	0.00	172.33	-1,668.35	224.63	1,683.49					
100.00	100.00	83.00	100.00	0.09	0.07	172.33	-1,668.35	224.63	1,683.40	1,683.24	0.16	N/A		
200.00	200.00	183.00	200.00	0.31	0.28	172.33	-1,668.35	224.63	1,683.40	1,682.81	0.59	2,847.745		
300.00	300.00	283.00	300.00	0.54	0.50	172.33	-1,668.35	224.63	1,683.40	1,682.36	1.04	1,617.618		
400.00	400.00	383.00	400.00	0.76	0.73	172.33	-1,668.35	224.63	1,683.40	1,681.91	1.49	1,129.649		
500.00	500.00	483.00	500.00	0.99	0.95	172.33	-1,668.35	224.63	1,683.40	1,681.46	1.94	867.853		
600.00	600.00	583.00	600.00	1.21	1.18	172.33	-1,668.35	224.63	1,683.40	1,681.01	2.39	704.569		
700.00	700.00	683.00	700.00	1.44	1.40	172.33	-1,668.35	224.63	1,683.40	1,680.56	2.84	592.999		
800.00	800.00	783.00	800.00	1.66	1.63	172.33	-1,668.35	224.63	1,683.40	1,680.11	3.29	511.932		
900.00	900.00	883.00	900.00	1.89	1.85	172.33	-1,668.35	224.63	1,683.40	1,679.66	3.74	450.365		
1,000.00	1,000.00	983.00	1,000.00	2.11	2.07	172.33	-1,668.35	224.63	1,683.40	1,679.21	4.19	402.017		
1,100.00	1,100.00	1,083.00	1,100.00	2.34	2.30	172.33	-1,668.35	224.63	1,683.40	1,678.76	4.64	363.043		
1,200.00	1,200.00	1,183.00	1,200.00	2.56	2.52	172.33	-1,668.35	224.63	1,683.40	1,678.32	5.09	330.958		
1,300.00	1,300.00	1,283.00	1,300.00	2.79	2.75	172.33	-1,668.35	224.63	1,683.40	1,677.87	5.54	304.083		
1,400.00	1,399.98	1,367.80	1,384.79	3.01	2.93	172.41	-1,668.75	223.93	1,684.44	1,678.51	5.93	284.012		
1,500.00	1,499.84	1,449.05	1,465.99	3.22	3.08	172.67	-1,670.28	221.27	1,687.89	1,681.59	6.31	267.704		
1,600.00	1,599.45	1,529.41	1,546.16	3.45	3.24	173.11	-1,672.94	216.67	1,693.84	1,687.16	6.68	253.394		
1,666.59	1,665.59	1,582.19	1,598.74	3.60	3.35	173.50	-1,675.29	212.60	1,699.23	1,692.29	6.95	244.604		
1,700.00	1,698.73	1,608.45	1,624.86	3.68	3.40	173.71	-1,676.64	210.26	1,702.31	1,695.23	7.08	240.355		
1,800.00	1,797.91	1,691.25	1,707.05	3.94	3.59	174.41	-1,681.63	201.61	1,712.38	1,704.87	7.51	227.903		
1,900.00	1,897.09	1,787.99	1,803.00	4.20	3.82	175.17	-1,687.80	190.92	1,723.06	1,715.07	7.99	215.523		
2,000.00	1,996.27	1,884.74	1,898.95	4.47	4.06	175.92	-1,693.96	180.22	1,734.05	1,725.55	8.49	204.205		
2,100.00	2,095.46	1,981.48	1,994.90	4.74	4.31	176.67	-1,700.13	169.53	1,745.33	1,736.32	9.00	193.891		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Aus-Tex Exploration	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Project:	Fremont Co., CO	TVD Reference:	WELL @ 5975.00usft
Reference Site:	Sec.1-T20S-R70W	MD Reference:	WELL @ 5975.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #2-Curve/Lateral	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Sec.12-T20S-R70W - Pathfinder C 11-12 #1 - Wellbore #2-Curve/Lateral - Design #1														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,200.00	2,194.64	2,078.22	2,090.86	5.03	4.57	177.40	-1,706.30	158.84	1,756.90	1,747.38	9.52	184.516		
2,300.00	2,293.82	2,174.96	2,186.81	5.31	4.84	178.12	-1,712.47	148.14	1,768.76	1,758.71	10.05	175.999		
2,400.00	2,393.00	2,271.71	2,282.76	5.61	5.12	178.84	-1,718.64	137.45	1,780.90	1,770.32	10.58	168.259		
2,500.00	2,492.19	2,368.45	2,378.71	5.90	5.40	179.54	-1,724.81	126.76	1,793.32	1,782.19	11.12	161.220		
2,600.00	2,591.37	2,465.19	2,474.66	6.20	5.68	-179.76	-1,730.98	116.06	1,806.00	1,794.34	11.67	154.807		
2,700.00	2,690.55	2,561.94	2,570.62	6.50	5.97	-179.08	-1,737.15	105.37	1,818.95	1,806.74	12.21	148.953		
2,800.00	2,789.73	2,658.68	2,666.57	6.80	6.26	-178.40	-1,743.32	94.68	1,832.16	1,819.40	12.76	143.600		
2,900.00	2,888.92	2,755.42	2,762.52	7.11	6.55	-177.74	-1,749.49	83.98	1,845.62	1,832.31	13.31	138.694		
3,000.00	2,988.10	2,852.17	2,858.47	7.41	6.85	-177.08	-1,755.66	73.29	1,859.33	1,845.47	13.86	134.189		
3,100.00	3,087.28	2,948.91	2,954.42	7.72	7.15	-176.44	-1,761.83	62.59	1,873.28	1,858.87	14.41	130.042		
3,200.00	3,186.46	3,045.65	3,050.38	8.03	7.45	-175.80	-1,768.00	51.90	1,887.46	1,872.51	14.95	126.217		
3,300.00	3,285.65	3,142.39	3,146.33	8.34	7.75	-175.17	-1,774.17	41.21	1,901.88	1,886.38	15.50	122.683		
3,400.00	3,384.83	3,239.14	3,242.28	8.65	8.06	-174.55	-1,780.34	30.51	1,916.52	1,900.47	16.05	119.410		
3,500.00	3,484.01	3,335.88	3,338.23	8.96	8.36	-173.95	-1,786.51	19.82	1,931.38	1,914.79	16.60	116.374		
3,600.00	3,583.19	3,432.62	3,434.18	9.28	8.67	-173.35	-1,792.68	9.13	1,946.46	1,929.32	17.14	113.552		
3,651.64	3,634.41	3,482.58	3,483.74	9.44	8.83	-173.04	-1,795.86	3.60	1,954.33	1,936.91	17.42	112.172		
3,700.00	3,682.42	3,529.47	3,530.24	9.57	8.98	-172.77	-1,798.85	-1.58	1,961.51	1,943.84	17.67	111.009		
3,800.00	3,781.98	3,627.02	3,626.99	9.80	9.29	-172.26	-1,805.07	-12.36	1,974.95	1,956.82	18.14	108.898		
3,900.00	3,881.80	3,780.83	3,779.87	9.99	9.68	-171.74	-1,813.44	-26.86	1,985.39	1,966.72	18.67	106.352		
4,000.00	3,981.77	3,956.15	3,954.92	10.17	10.03	-171.48	-1,818.01	-34.79	1,990.11	1,970.95	19.17	103.818		
4,018.23	4,000.00	3,988.27	3,987.04	10.20	10.09	-171.47	-1,818.27	-35.24	1,990.33	1,972.49	17.84	111.547		
4,100.00	4,081.77	4,083.00	4,081.77	10.33	10.25	-171.47	-1,818.35	-35.37	1,990.39	1,972.21	18.18	109.472		
4,200.00	4,181.77	4,183.00	4,181.77	10.52	10.42	-171.47	-1,818.35	-35.37	1,990.39	1,971.80	18.59	107.071		
4,300.00	4,281.77	4,283.00	4,281.77	10.71	10.60	-171.47	-1,818.35	-35.37	1,990.39	1,971.39	19.00	104.760		
4,400.00	4,381.77	4,383.00	4,381.77	10.90	10.78	-171.47	-1,818.35	-35.37	1,990.39	1,970.98	19.41	102.537		
4,500.00	4,481.77	4,483.00	4,481.77	11.09	10.96	-171.47	-1,818.35	-35.37	1,990.39	1,970.56	19.82	100.399		
4,600.00	4,581.77	4,583.00	4,581.77	11.29	11.14	-171.47	-1,818.35	-35.37	1,990.39	1,970.15	20.24	98.340		
4,700.00	4,681.77	4,683.00	4,681.77	11.48	11.33	-171.47	-1,818.35	-35.37	1,990.39	1,969.73	20.66	96.357		
4,749.98	4,731.75	4,732.98	4,731.75	11.58	11.42	-171.47	-1,818.35	-35.37	1,990.39	1,969.52	20.87	95.393		
4,800.00	4,781.77	4,750.00	4,748.77	11.67	11.45	-171.47	-1,818.35	-35.37	1,990.66	1,969.66	21.01	94.766		
4,897.91	4,879.68	4,800.00	4,798.70	11.87	11.53	-171.51	-1,820.40	-34.19	1,993.89	1,972.58	21.30	93.596		
4,900.00	4,881.77	4,800.00	4,798.70	11.87	11.53	-171.51	-1,820.40	-34.19	1,993.97	1,971.44	22.52	88.527		
4,950.00	4,931.70	4,800.00	4,798.70	11.95	11.53	-171.47	-1,820.40	-34.19	1,994.83	1,972.27	22.56	88.418		
5,000.00	4,981.23	4,800.00	4,798.70	12.04	11.53	-171.35	-1,820.40	-34.19	1,993.52	1,971.01	22.51	88.558		
5,050.00	5,029.99	4,824.39	4,822.93	12.14	11.58	-171.20	-1,822.76	-32.82	1,989.50	1,967.10	22.41	88.792		
5,100.00	5,077.61	4,850.00	4,848.23	12.24	11.62	-170.99	-1,826.21	-30.84	1,983.27	1,961.04	22.23	89.228		
5,150.00	5,123.72	4,850.00	4,848.23	12.35	11.62	-170.64	-1,826.21	-30.84	1,974.32	1,952.36	21.96	89.914		
5,200.00	5,167.97	4,850.00	4,848.23	12.48	11.62	-170.20	-1,826.21	-30.84	1,963.30	1,941.65	21.65	90.688		
5,250.00	5,210.03	4,876.79	4,874.47	12.62	11.67	-169.79	-1,830.85	-28.16	1,949.60	1,928.25	21.36	91.289		
5,300.00	5,249.57	4,900.00	4,896.99	12.79	11.71	-169.30	-1,835.73	-25.34	1,933.94	1,912.86	21.08	91.727		
5,350.00	5,286.30	4,900.00	4,896.99	13.00	11.71	-168.63	-1,835.73	-25.34	1,915.93	1,895.10	20.83	91.959		
5,400.00	5,319.93	4,900.00	4,896.99	13.25	11.71	-167.87	-1,835.73	-25.34	1,896.15	1,875.47	20.67	91.722		
5,450.00	5,350.22	4,925.55	4,921.49	13.56	11.76	-167.18	-1,842.01	-21.71	1,874.09	1,853.38	20.71	90.498		
5,500.00	5,376.92	4,950.00	4,944.61	13.93	11.81	-166.44	-1,848.90	-17.74	1,850.59	1,829.65	20.94	88.391		
5,550.00	5,399.84	4,950.00	4,944.61	14.38	11.81	-165.45	-1,848.90	-17.74	1,825.14	1,803.86	21.28	85.752		
5,600.00	5,418.80	4,950.00	4,944.61	14.90	11.81	-164.38	-1,848.90	-17.74	1,798.45	1,776.61	21.83	82.380		
5,650.00	5,433.65	4,967.57	4,961.00	15.50	11.84	-163.38	-1,854.37	-14.57	1,770.37	1,747.68	22.69	78.036		
5,700.00	5,444.29	4,976.55	4,969.30	16.15	11.86	-162.25	-1,857.34	-12.86	1,741.28	1,717.59	23.68	73.519		
5,750.00	5,450.64	5,000.00	4,990.72	16.86	11.91	-161.22	-1,865.61	-8.09	1,711.54	1,686.60	24.94	68.624		
5,800.00	5,452.63	5,000.00	4,990.72	17.62	11.91	-159.89	-1,865.61	-8.09	1,680.83	1,654.71	26.12	64.347		
5,852.91	5,450.00	5,000.00	4,990.72	18.46	11.91	-158.42	-1,865.61	-8.09	1,648.04	1,620.63	27.42	60.109		
5,900.00	5,445.49	5,000.00	4,990.72	19.24	11.91	-157.07	-1,865.61	-8.09	1,619.23	1,591.04	28.19	57.437		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Aus-Tex Exploration	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Project:	Fremont Co., CO	TVD Reference:	WELL @ 5975.00usft
Reference Site:	Sec.1-T20S-R70W	MD Reference:	WELL @ 5975.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #2-Curve/Lateral	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Sec.12-T20S-R70W - Pathfinder C 11-12 #1 - Wellbore #2-Curve/Lateral - Design #1														
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,000.00	5,435.90	5,017.41	5,006.35	20.99	11.95	-154.27	-1,872.23	-4.26	1,560.73	1,530.67	30.06	51.922		
6,100.00	5,426.32	5,032.08	5,019.34	22.83	11.98	-151.24	-1,878.14	-0.85	1,506.29	1,474.29	32.00	47.073		
6,200.00	5,416.73	5,050.00	5,034.97	24.75	12.02	-148.08	-1,885.74	3.53	1,456.27	1,422.23	34.04	42.782		
6,300.00	5,407.15	5,067.90	5,050.30	26.72	12.07	-144.73	-1,893.74	8.16	1,411.04	1,374.89	36.15	39.035		
6,400.00	5,397.56	5,100.00	5,077.03	28.74	12.15	-141.54	-1,909.13	17.04	1,371.03	1,332.60	38.43	35.679		
6,500.00	5,387.98	5,115.69	5,089.72	30.80	12.19	-137.84	-1,917.11	21.65	1,336.30	1,295.69	40.61	32.904		
6,600.00	5,378.39	5,150.00	5,116.57	32.88	12.29	-134.51	-1,935.60	32.33	1,307.29	1,264.30	43.00	30.405		
6,700.00	5,368.81	5,181.50	5,140.05	34.99	12.39	-131.06	-1,953.78	42.82	1,283.96	1,238.56	45.40	28.281		
6,800.00	5,359.23	5,223.93	5,169.80	37.13	12.56	-127.94	-1,979.97	57.94	1,266.23	1,218.29	47.94	26.412		
6,900.00	5,349.64	5,274.65	5,202.30	39.27	12.80	-125.18	-2,013.68	77.40	1,253.74	1,203.14	50.60	24.775		
7,000.00	5,340.06	5,335.30	5,236.45	41.43	13.18	-122.90	-2,057.05	102.45	1,245.88	1,192.46	53.43	23.320		
7,100.00	5,330.47	5,407.29	5,269.85	43.61	13.80	-121.25	-2,112.23	134.30	1,241.75	1,185.29	56.46	21.994		
7,200.00	5,320.89	5,491.15	5,298.33	45.79	14.74	-120.29	-2,180.48	173.71	1,240.19	1,180.47	59.72	20.766		
7,277.73	5,313.44	5,563.84	5,313.48	47.50	15.73	-120.00	-2,242.00	209.22	1,239.97	1,177.45	62.52	19.833 CC		
7,300.00	5,311.30	5,585.65	5,316.26	47.99	16.05	-119.98	-2,260.73	220.04	1,239.98	1,176.63	63.35	19.574		
7,400.00	5,301.72	5,687.01	5,318.30	50.19	17.65	-120.05	-2,348.38	270.65	1,240.08	1,172.86	67.22	18.449		
7,500.00	5,292.13	5,787.48	5,308.89	52.39	19.38	-120.08	-2,435.00	320.66	1,240.08	1,168.87	71.21	17.415		
7,600.00	5,282.55	5,887.48	5,299.31	54.61	21.22	-120.08	-2,521.20	370.43	1,240.08	1,164.79	75.30	16.469		
7,700.00	5,272.96	5,987.48	5,289.73	56.83	23.13	-120.08	-2,607.41	420.20	1,240.08	1,160.62	79.46	15.606		
7,800.00	5,263.38	6,087.48	5,280.14	59.05	25.10	-120.08	-2,693.61	469.97	1,240.08	1,156.39	83.69	14.817		
7,900.00	5,253.80	6,187.48	5,270.56	61.28	27.13	-120.08	-2,779.81	519.74	1,240.08	1,152.11	87.97	14.097		
8,000.00	5,244.21	6,287.48	5,260.97	63.51	29.19	-120.08	-2,866.02	569.51	1,240.08	1,147.79	92.29	13.437		
8,100.00	5,234.63	6,387.48	5,251.39	65.74	31.28	-120.08	-2,952.22	619.28	1,240.08	1,143.44	96.63	12.833		
8,200.00	5,225.04	6,487.48	5,241.80	67.98	33.39	-120.08	-3,038.42	669.05	1,240.08	1,139.07	101.01	12.277		
8,300.00	5,215.46	6,587.48	5,232.22	70.22	35.53	-120.08	-3,124.63	718.82	1,240.08	1,134.68	105.40	11.765		
8,400.00	5,205.87	6,687.48	5,222.63	72.46	37.68	-120.08	-3,210.83	768.59	1,240.07	1,130.26	109.81	11.293		
8,500.00	5,196.29	6,787.48	5,213.05	74.71	39.85	-120.08	-3,297.03	818.36	1,240.07	1,125.84	114.24	10.855		
8,600.00	5,186.70	6,887.48	5,203.46	76.96	42.03	-120.08	-3,383.24	868.13	1,240.07	1,121.40	118.68	10.449		
8,700.00	5,177.12	6,987.48	5,193.88	79.20	44.22	-120.08	-3,469.44	917.91	1,240.07	1,116.95	123.13	10.072		
8,800.00	5,167.53	7,087.48	5,184.30	81.46	46.41	-120.08	-3,555.65	967.68	1,240.07	1,112.49	127.58	9.720		
8,900.00	5,157.95	7,187.48	5,174.71	83.71	48.62	-120.08	-3,641.85	1,017.45	1,240.07	1,108.02	132.05	9.391		
9,000.00	5,148.36	7,287.48	5,165.13	85.96	50.83	-120.08	-3,728.05	1,067.22	1,240.07	1,103.54	136.53	9.083		
9,100.00	5,138.78	7,387.48	5,155.54	88.22	53.05	-120.08	-3,814.26	1,116.99	1,240.07	1,099.06	141.01	8.794		
9,200.00	5,129.20	7,487.48	5,145.96	90.47	55.27	-120.08	-3,900.46	1,166.76	1,240.07	1,094.57	145.50	8.523		
9,300.00	5,119.61	7,587.48	5,136.37	92.73	57.50	-120.08	-3,986.66	1,216.53	1,240.07	1,090.08	149.99	8.268		
9,400.00	5,110.03	7,687.48	5,126.79	94.99	59.73	-120.08	-4,072.87	1,266.30	1,240.07	1,085.58	154.48	8.027		
9,500.00	5,100.44	7,787.48	5,117.20	97.25	61.96	-120.08	-4,159.07	1,316.07	1,240.07	1,081.08	158.98	7.800		
9,600.00	5,090.86	7,887.48	5,107.62	99.51	64.20	-120.08	-4,245.27	1,365.84	1,240.06	1,076.58	163.49	7.585		
9,700.00	5,081.27	7,987.48	5,098.03	101.77	66.44	-120.08	-4,331.48	1,415.61	1,240.06	1,072.07	168.00	7.381		
9,800.00	5,071.69	8,087.48	5,088.45	104.03	68.68	-120.08	-4,417.68	1,465.38	1,240.06	1,067.56	172.51	7.188		
9,852.91	5,066.62	8,140.39	5,083.38	105.23	69.87	-120.08	-4,463.29	1,491.72	1,240.06	1,065.17	174.90	7.090 ES, SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Aus-Tex Exploration	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Project:	Fremont Co., CO	TVD Reference:	WELL @ 5975.00usft
Reference Site:	Sec.1-T20S-R70W	MD Reference:	WELL @ 5975.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #2-Curve/Lateral	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 2660-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	28.00	0.00	0.00	172.92	-1,781.34	221.18	1,795.24					
100.00	100.00	89.80	117.80	0.09	0.10	172.91	-1,780.39	221.35	1,794.19	1,793.99	0.19	9,285.503		
200.00	200.00	188.41	216.39	0.31	0.22	172.90	-1,779.43	221.52	1,793.24	1,792.71	0.53	3,375.708		
300.00	300.00	287.01	314.99	0.54	0.33	172.90	-1,778.54	221.68	1,792.36	1,791.49	0.87	2,062.062		
400.00	400.00	385.61	413.59	0.76	0.44	172.89	-1,777.73	221.82	1,791.57	1,790.36	1.21	1,484.071		
500.00	500.00	484.21	512.19	0.99	0.56	172.88	-1,777.01	221.95	1,790.86	1,789.31	1.55	1,158.988		
600.00	600.00	582.81	610.78	1.21	0.67	172.87	-1,776.36	222.06	1,790.22	1,788.34	1.88	950.639		
700.00	700.00	681.41	709.38	1.44	0.78	172.87	-1,775.79	222.16	1,789.66	1,787.44	2.22	805.733		
800.00	800.00	780.00	807.97	1.66	0.90	172.86	-1,775.31	222.25	1,789.18	1,786.62	2.56	699.134		
900.00	900.00	878.59	906.56	1.89	1.01	172.86	-1,774.90	222.32	1,788.78	1,785.89	2.90	617.435		
1,000.00	1,000.00	977.18	1,005.15	2.11	1.12	172.86	-1,774.57	222.38	1,788.46	1,785.23	3.24	552.831		
1,100.00	1,100.00	1,075.77	1,103.74	2.34	1.24	172.85	-1,774.33	222.42	1,788.22	1,784.65	3.57	500.471		
1,200.00	1,200.00	1,174.35	1,202.32	2.56	1.35	172.85	-1,774.16	222.45	1,788.06	1,784.14	3.91	457.181		
1,300.00	1,300.00	1,272.93	1,300.91	2.79	1.46	172.85	-1,774.08	222.47	1,787.97	1,783.72	4.25	420.797		
1,303.19	1,303.19	1,276.08	1,304.05	2.79	1.47	172.85	-1,774.07	222.47	1,787.97	1,783.74	4.23	422.279		
1,400.00	1,399.98	1,371.49	1,399.47	3.01	1.58	172.90	-1,774.07	222.47	1,788.64	1,784.09	4.55	392.871		
1,500.00	1,499.84	1,469.92	1,497.90	3.22	1.69	173.06	-1,774.14	222.46	1,790.76	1,785.88	4.88	367.080		
1,600.00	1,599.45	1,568.10	1,596.08	3.45	1.80	173.32	-1,774.30	222.43	1,794.34	1,789.12	5.21	344.306		
1,666.59	1,665.59	1,633.27	1,661.25	3.60	1.88	173.54	-1,774.44	222.40	1,797.55	1,792.11	5.44	330.436		
1,700.00	1,698.73	1,665.92	1,693.91	3.68	1.92	173.67	-1,774.53	222.39	1,799.34	1,793.78	5.56	323.757		
1,800.00	1,797.91	1,763.64	1,791.62	3.94	2.03	174.04	-1,774.84	222.33	1,804.80	1,798.89	5.92	305.032		
1,900.00	1,897.09	1,861.34	1,889.33	4.20	2.14	174.42	-1,775.22	222.26	1,810.42	1,804.14	6.28	288.085		
2,000.00	1,996.27	1,959.02	1,987.01	4.47	2.25	174.79	-1,775.69	222.18	1,816.20	1,809.54	6.66	272.753		
2,100.00	2,095.46	2,056.69	2,084.68	4.74	2.36	175.16	-1,776.24	222.08	1,822.12	1,815.08	7.04	258.871		
2,200.00	2,194.64	2,154.34	2,182.33	5.03	2.48	175.52	-1,776.86	221.97	1,828.20	1,820.78	7.42	246.282		
2,300.00	2,293.82	2,251.97	2,279.96	5.31	2.59	175.89	-1,777.56	221.85	1,834.43	1,826.62	7.81	234.841		
2,400.00	2,393.00	2,349.58	2,377.58	5.61	2.70	176.25	-1,778.34	221.71	1,840.82	1,832.62	8.20	224.421		
2,500.00	2,492.19	2,447.18	2,475.17	5.90	2.81	176.61	-1,779.20	221.56	1,847.36	1,838.76	8.60	214.905		
2,600.00	2,591.37	2,544.75	2,572.75	6.20	2.93	176.97	-1,780.14	221.39	1,854.05	1,845.06	8.99	206.194		
2,700.00	2,690.55	2,660.22	2,688.00	6.50	3.06	177.33	-1,781.34	221.18	1,860.97	1,851.56	9.41	197.793		
2,800.00	2,789.73	2,708.22	2,735.98	6.80	3.17	177.69	-1,782.41	220.99	1,868.69	1,858.88	9.81	190.491		
2,900.00	2,888.92	2,739.38	2,767.09	7.11	3.25	178.04	-1,784.16	220.63	1,879.57	1,869.39	10.17	184.735		
3,000.00	2,988.10	2,769.77	2,797.84	7.41	3.32	178.40	-1,786.45	220.23	1,893.51	1,882.97	10.54	179.658		
3,100.00	3,087.28	2,831.33	2,859.48	7.72	3.48	178.77	-1,793.07	219.30	1,910.25	1,899.27	10.98	173.958		
3,200.00	3,186.46	2,866.85	2,894.65	8.03	3.58	179.12	-1,798.04	218.97	1,929.95	1,918.59	11.36	169.848		
3,300.00	3,285.65	2,909.40	2,937.05	8.34	3.71	179.46	-1,805.15	218.91	1,952.47	1,940.71	11.76	166.003		
3,400.00	3,384.83	2,953.44	2,980.71	8.65	3.84	179.78	-1,813.62	219.42	1,977.62	1,965.45	12.16	162.577		
3,500.00	3,484.01	3,015.00	3,041.22	8.96	4.04	-179.96	-1,826.97	221.47	2,005.10	1,992.50	12.60	159.078		
3,600.00	3,583.19	3,062.67	3,087.46	9.28	4.21	-179.72	-1,838.21	224.27	2,034.56	2,021.54	13.01	156.376		
3,651.64	3,634.41	3,092.71	3,116.89	9.44	4.31	-179.62	-1,845.77	226.68	2,050.49	2,037.26	13.23	154.964		
3,700.00	3,682.42	3,138.10	3,160.95	9.57	4.48	-179.62	-1,857.55	231.32	2,065.68	2,052.23	13.45	153.530		
3,800.00	3,781.98	3,198.66	3,219.18	9.80	4.72	-179.63	-1,873.72	239.61	2,096.57	2,082.77	13.80	151.971		
3,900.00	3,881.80	3,261.21	3,278.78	9.99	5.00	-179.78	-1,891.30	249.97	2,127.36	2,113.22	14.14	150.502		
4,000.00	3,981.77	3,302.48	3,317.48	10.17	5.20	-179.93	-1,903.53	257.43	2,158.28	2,143.87	14.41	149.765		
4,018.23	4,000.00	3,316.80	3,331.23	10.20	5.28	179.99	-1,908.02	260.22	2,163.96	2,149.87	14.09	153.622		
4,100.00	4,081.77	3,357.34	3,368.86	10.33	5.50	179.77	-1,920.73	268.31	2,190.03	2,175.60	14.43	151.761		
4,200.00	4,181.77	3,411.12	3,419.14	10.52	5.80	179.46	-1,938.38	279.58	2,223.36	2,208.46	14.90	149.243		
4,300.00	4,281.77	3,487.46	3,489.29	10.71	6.27	179.04	-1,963.96	295.45	2,257.90	2,242.40	15.50	145.630		
4,400.00	4,381.77	3,563.04	3,559.36	10.90	6.75	178.63	-1,990.28	311.04	2,293.42	2,277.30	16.12	142.305		
4,500.00	4,481.77	3,633.97	3,624.30	11.09	7.21	178.29	-2,015.25	324.82	2,329.75	2,313.05	16.71	139.432		
4,600.00	4,581.77	3,699.22	3,684.79	11.29	7.64	177.99	-2,039.19	336.90	2,367.08	2,349.80	17.28	136.988		
4,700.00	4,681.77	3,758.21	3,738.91	11.48	8.06	177.74	-2,061.46	347.43	2,405.66	2,387.84	17.82	134.960		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Aus-Tex Exploration	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Project:	Fremont Co., CO	TVD Reference:	WELL @ 5975.00usft
Reference Site:	Sec.1-T20S-R70W	MD Reference:	WELL @ 5975.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #2-Curve/Lateral	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 2660-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,800.00	4,781.77	3,842.98	3,816.14	11.67	8.67	177.32	-2,093.97	365.07	2,445.18	2,426.65	18.53	131.957		
4,897.91	4,879.68	3,905.53	3,872.30	11.87	9.14	176.96	-2,118.05	380.41	2,484.63	2,465.50	19.13	129.893		
4,900.00	4,881.77	3,905.53	3,872.30	11.87	9.14	176.96	-2,118.05	380.41	2,485.47	2,467.24	18.23	136.341		
4,950.00	4,931.70	3,934.37	3,897.83	11.95	9.37	176.81	-2,129.13	387.96	2,504.01	2,485.62	18.40	136.123		
5,000.00	4,981.23	3,968.07	3,927.93	12.04	9.65	176.68	-2,142.41	397.17	2,519.17	2,500.66	18.51	136.101		
5,050.00	5,029.99	3,993.33	3,950.11	12.14	9.87	176.64	-2,152.36	404.03	2,530.86	2,512.33	18.52	136.636		
5,100.00	5,077.61	4,029.63	3,982.16	12.24	10.19	176.58	-2,167.19	414.17	2,539.17	2,520.66	18.51	137.179		
5,150.00	5,123.72	4,029.63	3,982.16	12.35	10.19	176.80	-2,167.19	414.17	2,543.98	2,525.72	18.26	139.313		
5,200.00	5,167.97	4,059.18	4,007.69	12.48	10.47	176.87	-2,179.56	422.42	2,545.37	2,527.28	18.09	140.708		
5,250.00	5,210.03	4,091.18	4,035.44	12.62	10.77	176.97	-2,193.62	431.67	2,543.46	2,525.58	17.88	142.273		
5,300.00	5,249.57	4,091.18	4,035.44	12.79	10.77	177.33	-2,193.62	431.67	2,538.04	2,520.57	17.47	145.287		
5,350.00	5,286.30	4,115.57	4,056.03	13.00	11.02	177.56	-2,204.54	438.86	2,529.31	2,512.14	17.17	147.317		
5,400.00	5,319.93	4,151.74	4,086.50	13.25	11.38	177.74	-2,221.60	449.82	2,517.53	2,500.59	16.94	148.591		
5,450.00	5,350.22	4,151.74	4,086.50	13.56	11.38	178.23	-2,221.60	449.82	2,502.13	2,485.57	16.56	151.101		
5,500.00	5,376.92	4,151.74	4,086.50	13.93	11.38	178.77	-2,221.60	449.82	2,483.92	2,467.67	16.25	152.885		
5,550.00	5,399.84	4,178.48	4,108.43	14.38	11.67	179.14	-2,234.65	457.81	2,462.54	2,446.31	16.23	151.766		
5,600.00	5,418.80	4,192.85	4,120.09	14.90	11.83	179.65	-2,241.87	462.13	2,438.35	2,422.05	16.30	149.575		
5,650.00	5,433.65	4,214.28	4,137.66	15.50	12.06	-179.87	-2,253.11	468.73	2,411.45	2,394.79	16.67	144.700		
5,700.00	5,444.29	4,214.28	4,137.66	16.15	12.06	-179.16	-2,253.11	468.73	2,381.89	2,364.76	17.12	139.099		
5,750.00	5,450.64	4,214.28	4,137.66	16.86	12.06	-178.42	-2,253.11	468.73	2,350.08	2,332.21	17.87	131.495		
5,800.00	5,452.63	4,241.80	4,159.42	17.62	12.38	-177.90	-2,267.72	477.09	2,315.74	2,296.46	19.28	120.092		
5,852.91	5,450.00	4,269.88	4,181.58	18.46	12.71	-177.33	-2,283.35	485.83	2,277.55	2,256.31	21.24	107.222		
5,900.00	5,445.49	4,269.88	4,181.58	19.24	12.71	-176.55	-2,283.35	485.83	2,242.48	2,220.68	21.80	102.868		
6,000.00	5,435.90	4,269.88	4,181.58	20.99	12.71	-174.77	-2,283.35	485.83	2,169.52	2,146.47	23.05	94.116		
6,100.00	5,426.32	4,304.93	4,208.27	22.83	13.14	-173.27	-2,303.25	496.75	2,098.05	2,073.08	24.97	84.033		
6,200.00	5,416.73	4,332.44	4,229.16	24.75	13.49	-171.57	-2,319.64	505.56	2,028.44	2,001.58	26.85	75.539		
6,300.00	5,407.15	4,353.32	4,244.52	26.72	13.76	-169.62	-2,332.18	512.12	1,960.72	1,932.02	28.70	68.315		
6,400.00	5,397.56	4,394.98	4,274.93	28.74	14.31	-167.87	-2,358.04	525.50	1,895.06	1,864.03	31.03	61.079		
6,500.00	5,387.98	4,418.04	4,291.30	30.80	14.62	-165.67	-2,372.44	533.03	1,831.21	1,798.15	33.06	55.398		
6,600.00	5,378.39	4,456.53	4,318.50	32.88	15.15	-163.61	-2,397.16	545.87	1,769.52	1,734.05	35.48	49.877		
6,700.00	5,368.81	4,490.28	4,341.86	34.99	15.63	-161.30	-2,419.17	557.08	1,710.08	1,672.21	37.87	45.156		
6,800.00	5,359.23	4,514.21	4,358.00	37.13	15.97	-158.58	-2,435.02	564.89	1,653.32	1,613.23	40.10	41.235		
6,900.00	5,349.64	4,552.84	4,383.48	39.27	16.53	-156.05	-2,461.85	577.43	1,599.91	1,557.18	42.74	37.437		
7,000.00	5,340.06	4,552.84	4,383.48	41.43	16.53	-152.27	-2,461.85	577.43	1,549.77	1,505.33	44.44	34.873		
7,100.00	5,330.47	4,583.61	4,402.67	43.61	16.99	-149.11	-2,484.18	587.12	1,503.62	1,456.64	46.97	32.010		
7,200.00	5,320.89	4,604.71	4,415.10	45.79	17.32	-145.44	-2,500.02	593.44	1,461.93	1,412.63	49.30	29.656		
7,300.00	5,311.30	4,644.17	4,437.44	47.99	17.94	-142.24	-2,530.96	605.06	1,424.83	1,372.65	52.18	27.308		
7,400.00	5,301.72	4,666.26	4,449.28	50.19	18.30	-138.26	-2,548.52	611.35	1,391.95	1,337.34	54.61	25.488		
7,500.00	5,292.13	4,704.73	4,469.12	52.39	18.93	-134.82	-2,580.09	622.45	1,363.69	1,306.12	57.57	23.689		
7,600.00	5,282.55	4,748.49	4,489.87	54.61	19.69	-131.56	-2,616.42	635.26	1,339.79	1,279.06	60.73	22.063		
7,700.00	5,272.96	4,798.28	4,511.39	56.83	20.58	-128.62	-2,659.04	650.85	1,320.06	1,255.96	64.10	20.594		
7,800.00	5,263.38	5,131.51	4,585.89	59.05	27.24	-140.26	-2,911.18	845.61	1,284.21	1,210.49	73.72	17.420		
7,900.00	5,253.80	5,131.51	4,585.89	61.28	27.24	-135.21	-2,911.18	845.61	1,253.39	1,177.74	75.65	16.568		
8,000.00	5,244.21	5,131.51	4,585.89	63.51	27.24	-129.91	-2,911.18	845.61	1,229.95	1,152.36	77.58	15.853		
8,100.00	5,234.63	5,131.51	4,585.89	65.74	27.24	-124.43	-2,911.18	845.61	1,214.32	1,134.80	79.52	15.270		
8,200.00	5,225.04	5,131.51	4,585.89	67.98	27.24	-118.86	-2,911.18	845.61	1,206.79	1,125.33	81.46	14.815		
8,241.06	5,221.11	5,131.51	4,585.89	68.90	27.24	-116.58	-2,911.18	845.61	1,206.10	1,123.84	82.26	14.663 CC, ES		
8,300.00	5,215.46	5,131.51	4,585.89	70.22	27.24	-113.32	-2,911.18	845.61	1,207.53	1,124.13	83.40	14.479		
8,400.00	5,205.87	5,131.51	4,585.89	72.46	27.24	-107.90	-2,911.18	845.61	1,216.52	1,131.18	85.34	14.255		
8,500.00	5,196.29	5,131.51	4,585.89	74.71	27.24	-102.69	-2,911.18	845.61	1,233.58	1,146.29	87.29	14.133		
8,600.00	5,186.70	5,131.51	4,585.89	76.96	27.24	-97.76	-2,911.18	845.61	1,258.37	1,169.14	89.23	14.102 SF		
8,700.00	5,177.12	5,131.51	4,585.89	79.20	27.24	-93.15	-2,911.18	845.61	1,290.46	1,199.28	91.18	14.153		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

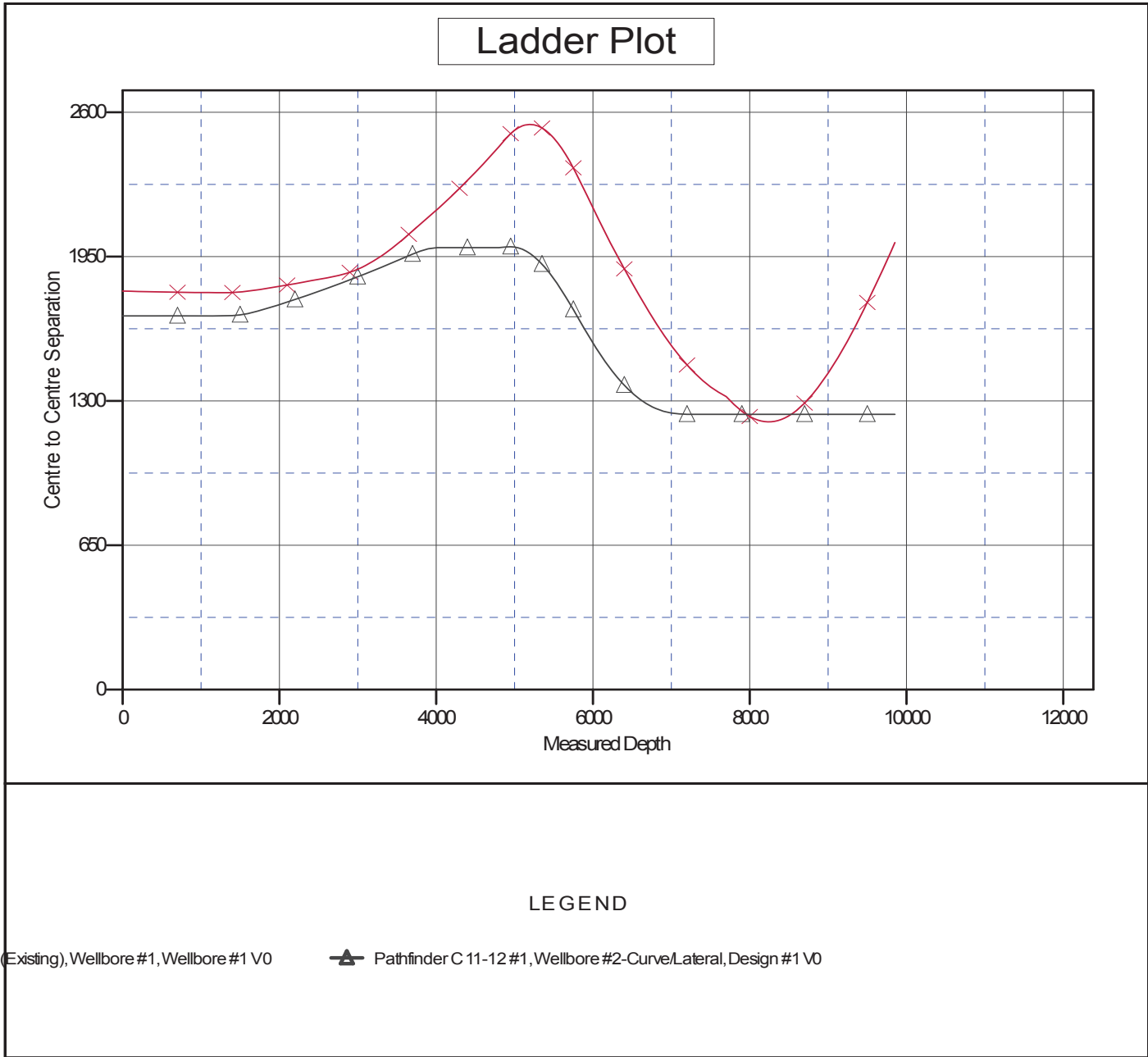
Company:	Aus-Tex Exploration	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Project:	Fremont Co., CO	TVD Reference:	WELL @ 5975.00usft
Reference Site:	Sec.1-T20S-R70W	MD Reference:	WELL @ 5975.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #2-Curve/Lateral	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 2660-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
8,800.00	5,167.53	5,131.51	4,585.89	81.46	27.24	-88.89	-2,911.18	845.61	1,329.32	1,236.19	93.13	14.274	
8,900.00	5,157.95	5,131.51	4,585.89	83.71	27.24	-84.98	-2,911.18	845.61	1,374.36	1,279.28	95.08	14.455	
9,000.00	5,148.36	5,131.51	4,585.89	85.96	27.24	-81.41	-2,911.18	845.61	1,425.01	1,327.98	97.03	14.686	
9,100.00	5,138.78	5,131.51	4,585.89	88.22	27.24	-78.17	-2,911.18	845.61	1,480.69	1,381.71	98.98	14.959	
9,200.00	5,129.20	5,131.51	4,585.89	90.47	27.24	-75.22	-2,911.18	845.61	1,540.86	1,439.92	100.93	15.266	
9,300.00	5,119.61	5,131.51	4,585.89	92.73	27.24	-72.54	-2,911.18	845.61	1,605.00	1,502.11	102.89	15.600	
9,400.00	5,110.03	5,131.51	4,585.89	94.99	27.24	-70.11	-2,911.18	845.61	1,672.67	1,567.83	104.84	15.954	
9,500.00	5,100.44	5,131.51	4,585.89	97.25	27.24	-67.91	-2,911.18	845.61	1,743.45	1,636.65	106.80	16.325	
9,600.00	5,090.86	5,131.51	4,585.89	99.51	27.24	-65.90	-2,911.18	845.61	1,816.97	1,708.22	108.75	16.707	
9,700.00	5,081.27	5,131.51	4,585.89	101.77	27.24	-64.07	-2,911.18	845.61	1,892.93	1,782.22	110.71	17.098	
9,800.00	5,071.69	5,131.51	4,585.89	104.03	27.24	-62.40	-2,911.18	845.61	1,971.03	1,858.37	112.67	17.494	
9,852.91	5,066.62	5,131.51	4,585.89	105.23	27.24	-61.57	-2,911.18	845.61	2,013.14	1,899.44	113.70	17.705	

Company:	Aus-Tex Exploration	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Project:	Fremont Co., CO	TVD Reference:	WELL @ 5975.00usft
Reference Site:	Sec.1-T20S-R70W	MD Reference:	WELL @ 5975.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #2-Curve/Lateral	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to WELL @ 5975.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Pathfinder C 14-01 #1
 Coordinate System is US State Plane 1983, Colorado Central Zone
 Grid Convergence at Surface is: 0.20°



Company:	Aus-Tex Exploration	Local Co-ordinate Reference:	Well Pathfinder C 14-01 #1
Project:	Fremont Co., CO	TVD Reference:	WELL @ 5975.00usft
Reference Site:	Sec.1-T20S-R70W	MD Reference:	WELL @ 5975.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Pathfinder C 14-01 #1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #2-Curve/Lateral	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to WELL @ 5975.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Pathfinder C 14-01 #1
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: 0.20°

