



Gyrodata Incorporated
301 Thelma Dr. #413
Casper, Wyoming 82601

307-472-0182
Fax: 307-472-0204

SURVEY REPORT
Aus-Tex Exploration
Pathfinder #C 11-12 1HZ
Les Wilson #30
Fremont County, Colorado
RD0812M159

28 September 2012



Gyrodata Incorporated
301 Thelma Dr. #413
Casper, Wyoming 82601

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Fax: 307-472-0204

October 22, 2012

Aus-Tex Exploration, Inc.
7985 W 10th Ave
Lakewood, CO 80214

Re: **Pathfinder #C 11-12 1HZ**
Fremont County, Colorado

Enclosed, please find one (1) original and one (1) disk of the completed survey for the above referenced well.

We would like to take this opportunity to thank you for using Gyrodata, and we look forward to serving you in the future.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kristopher Bertsch", with a long horizontal flourish extending to the right.

Kristopher Bertsch
MWD Coordinator

A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

AUS-TEX EXPLORATION

Lease: Pathfinder Well: #C 11-12 1HZ, 8 1/2" Case & 6 1/8" Hole

Location: Les Wilson #30, Fremont County, Colorado

Job Number: RD0812M159

Run Date: 28 September 2012

Surveyor: Kelly Hansen, David Mann

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Well Plan/Plot

Survey Latitude: 38.328849 deg. N Longitude: 105.171553 deg. W

Magnetic Declination: 8.7300 deg

Total Correction: 8.7300 deg

Proposed Well Direction: 153.920 deg

Depth Reference: Rotary Table

Rotary Table Elevation: 5954.00

TVD Reference: 5938.00

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

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MEASURED DEPTH	I N C L	AZIMUTH	BORE HOLE BEARING	DOGLEG SEVERITY	VERTICAL DEPTH	CLOSURE DIST.	AZIMUTH	HORIZONTAL COORDINATES
feet	deg.	deg.	deg. min.	deg./ 100 ft.	feet	feet	deg.	feet
4700.00	5.31	74.95	N 74 57 E	0.00	4687.96	278.7	69.1	99.57 N 260.28 E
4846 - 9822 FT. MAGNETIC MEASUREMENT WHILE DRILLING SURVEY INSIDE 6 1/8" HOLE								
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO LES WILSON #30 R.K.B. OF 16 FT MD.								
TIE ONTO GYRODATA GYROSCOPIC SURVEY AT 4700 FT. MD.								
TIE-ON DATA PROVIDED BY GYRODATA WIRELINE DATED SEPTEMBER 16, 2012, JOB #RM0912GM639.								
STRAIGHT-LINE PROJECTION TO BIT DEPTH AT 9870 FT. MD.								
4846.00	5.63	92.04	S 87 58 E	1.13	4833.30	292.0	69.8	101.07 N 273.96 E
4878.00	8.13	122.54	S 57 28 E	13.57	4865.08	294.8	70.2	99.80 N 277.44 E
4907.00	11.43	131.77	S 48 14 E	12.56	4893.66	297.5	71.0	96.78 N 281.31 E
4939.00	14.81	137.22	S 42 47 E	11.24	4924.82	300.8	72.3	91.66 N 286.46 E
4970.00	16.48	139.41	S 40 35 E	5.71	4954.67	304.2	73.7	85.41 N 292.01 E
5002.00	19.91	142.05	S 37 57 E	11.02	4985.07	308.3	75.4	77.67 N 298.32 E
5032.00	23.38	143.90	S 36 6 E	11.79	5012.95	312.6	77.3	68.83 N 304.97 E
5063.00	28.13	145.04	S 34 58 E	15.41	5040.86	318.1	79.5	57.86 N 312.78 E
5094.00	31.60	148.73	S 31 16 E	12.66	5067.74	324.3	82.0	44.93 N 321.19 E
5126.00	33.76	152.16	S 27 50 E	8.89	5094.68	331.0	84.8	29.90 N 329.69 E
5157.00	35.25	152.95	S 27 3 E	5.02	5120.22	338.1	87.6	14.31 N 337.79 E
5188.00	38.20	155.41	S 24 35 E	10.63	5145.07	345.9	90.4	2.38 S 345.84 E
5218.00	39.65	157.34	S 22 40 E	6.30	5168.41	353.9	93.2	19.65 S 353.39 E
5249.00	41.36	161.56	S 18 26 E	10.42	5191.98	362.5	96.1	38.49 S 360.45 E
5281.00	44.40	164.20	S 15 48 E	11.03	5215.43	371.6	99.2	59.30 S 366.84 E
5312.00	47.78	164.46	S 15 32 E	10.92	5236.93	381.5	102.2	80.80 S 372.87 E

A Gyrodata Directional Survey

Aus-Tex Exploration

Lease: Pathfinder Well: #C 11-12 1HZ, 8 1/2" Case & 6 1/8" Hole

Location: Les Wilson #30, Fremont County, Colorado

Job Number: RD0812M159

MEASURED DEPTH feet	I N C L deg.	A Z I M U T H deg.	B O R E H O L E B E A R I N G deg. min.	D O G L E G S E V E R I T Y deg./ 100 ft.	V E R T I C A L D E P T H feet	C L O S U R E D I S T. feet	A Z I M U T H deg.	H O R I Z O N T A L C O O R D I N A T E S feet
5343.00	51.60	161.91	S 18 5 E	13.83	5256.98	393.6	105.2	103.42 S 379.72 E
5374.00	55.74	158.84	S 21 10 E	15.55	5275.34	408.3	108.1	126.93 S 388.12 E
5405.00	60.22	157.08	S 22 55 E	15.23	5291.78	425.8	110.8	151.28 S 397.99 E
5436.00	64.70	156.73	S 23 16 E	14.49	5306.11	445.3	113.4	176.56 S 408.77 E
5467.00	68.70	155.76	S 24 14 E	13.22	5318.37	466.5	115.7	202.61 S 420.24 E
5498.00	73.98	155.50	S 24 30 E	17.05	5328.28	489.4	117.9	229.35 S 432.36 E
5530.00	77.67	157.87	S 22 8 E	13.58	5336.12	514.0	120.1	257.84 S 444.63 E
5561.00	82.99	158.22	S 21 47 E	17.20	5341.32	538.4	122.1	286.17 S 456.05 E
5593.00	87.43	157.78	S 22 13 E	13.94	5343.99	564.5	124.0	315.73 S 467.99 E
5624.00	92.79	156.99	S 23 1 E	17.48	5343.93	590.7	125.7	344.34 S 479.91 E
5681.00	95.78	158.40	S 21 36 E	5.80	5339.68	639.5	128.4	396.92 S 501.48 E
5712.00	96.13	155.15	S 24 51 E	10.49	5336.46	666.8	129.6	425.25 S 513.64 E
5743.00	96.75	154.88	S 25 7 E	2.18	5332.98	694.8	130.7	453.17 S 526.65 E
5774.00	97.27	154.62	S 25 23 E	1.87	5329.20	723.0	131.7	481.00 S 539.77 E
5805.00	95.30	155.23	S 24 46 E	6.65	5325.80	751.4	132.6	508.90 S 552.83 E
5836.00	95.25	155.50	S 24 30 E	0.88	5322.95	780.0	133.5	536.96 S 565.70 E
5897.00	94.15	156.90	S 23 6 E	2.91	5317.96	836.4	135.1	592.59 S 590.23 E
5960.00	95.78	156.73	S 23 16 E	2.60	5312.50	895.0	136.6	650.28 S 614.94 E
6023.00	97.14	156.38	S 23 37 E	2.23	5305.42	954.1	137.9	707.71 S 639.84 E
6086.00	97.76	156.02	S 23 59 E	1.14	5297.25	1013.6	139.0	764.87 S 665.05 E
6149.00	97.93	154.97	S 25 2 E	1.67	5288.65	1073.6	139.9	821.65 S 690.94 E
6210.00	97.98	155.23	S 24 46 E	0.43	5280.21	1132.0	140.7	876.45 S 716.37 E

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Job Number: RD0812M159

MEASURED DEPTH feet	I N C L AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
6272.00	97.71	S 24 30 E	0.61	5271.74	1191.5 141.5	932.28 S 741.98 E
6335.00	97.98	S 24 4 E	0.81	5263.14	1252.1 142.2	989.17 S 767.64 E
6398.00	96.35	S 23 11 E	2.94	5255.29	1312.8 142.9	1046.44 S 792.68 E
6461.00	95.12	S 22 40 E	2.12	5248.99	1373.6 143.5	1104.17 S 817.09 E
6523.00	93.89	S 21 15 E	3.01	5244.12	1433.5 144.1	1161.50 S 840.20 E
6585.00	93.10	S 20 33 E	1.70	5240.34	1493.4 144.7	1219.31 S 862.28 E
6648.00	90.99	S 20 33 E	3.35	5238.09	1554.4 145.3	1278.26 S 884.38 E
6710.00	91.65	S 20 43 E	1.10	5236.66	1614.6 145.9	1336.27 S 906.22 E
6772.00	92.31	S 20 54 E	1.10	5234.52	1674.9 146.3	1394.19 S 928.23 E
6835.00	91.21	S 19 56 E	2.33	5232.59	1736.3 146.8	1453.20 S 950.20 E
6897.00	90.86	S 19 35 E	0.80	5231.47	1796.6 147.3	1511.54 S 971.15 E
6958.00	91.12	S 20 12 E	1.10	5230.41	1856.2 147.7	1568.89 S 991.90 E
7019.00	91.56	S 20 33 E	0.92	5228.99	1915.9 148.1	1626.06 S 1013.13 E
7081.00	92.31	S 20 59 E	1.40	5226.89	1976.7 148.4	1684.00 S 1035.11 E
7144.00	92.18	S 21 15 E	0.46	5224.43	2038.6 148.7	1742.72 S 1057.79 E
7207.00	92.84	S 21 15 E	1.05	5221.67	2100.6 149.0	1801.38 S 1080.60 E
7269.00	92.97	S 21 26 E	0.36	5218.53	2161.7 149.3	1859.06 S 1103.13 E
7331.00	92.18	S 20 28 E	2.02	5215.74	2222.8 149.6	1916.90 S 1125.27 E
7393.00	92.40	S 20 7 E	0.67	5213.26	2283.8 149.9	1975.01 S 1146.75 E
7456.00	91.78	S 20 38 E	1.29	5210.96	2345.9 150.1	2034.03 S 1168.67 E
7518.00	91.74	S 20 59 E	0.57	5209.06	2407.1 150.4	2091.95 S 1190.69 E
7581.00	92.57	S 21 36 E	1.63	5206.69	2469.4 150.6	2150.61 S 1213.55 E
7641.00	91.43	S 21 20 E	1.95	5204.60	2528.8 150.8	2206.41 S 1235.50 E

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Location: Les Wilson #30, Fremont County, Colorado

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MEASURED DEPTH feet	I N C L AZIMUTH deg.	deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
7703.00	91.82	158.75	S 21 15 E	0.65	5202.84	2590.2 150.9	2264.15 S 1258.01 E
7764.00	91.30	158.93	S 21 4 E	0.90	5201.18	2650.6 151.1	2321.02 S 1280.02 E
7826.00	91.91	159.45	S 20 33 E	1.29	5199.44	2712.0 151.3	2378.95 S 1302.04 E
7888.00	90.77	159.54	S 20 28 E	1.84	5197.99	2773.3 151.5	2437.01 S 1323.75 E
7951.00	91.16	159.54	S 20 28 E	0.62	5196.93	2835.7 151.7	2496.02 S 1345.77 E
8012.00	92.04	159.19	S 20 49 E	1.55	5195.23	2896.1 151.8	2553.09 S 1367.26 E
8074.00	90.95	159.36	S 20 38 E	1.78	5193.61	2957.6 152.0	2611.06 S 1389.19 E
8137.00	91.56	158.93	S 21 4 E	1.18	5192.23	3020.1 152.1	2669.91 S 1411.61 E
8200.00	92.62	158.75	S 21 15 E	1.71	5189.93	3082.6 152.3	2728.63 S 1434.34 E
8263.00	92.18	158.57	S 21 26 E	0.75	5187.29	3145.2 152.4	2787.25 S 1457.24 E
8326.00	92.00	159.10	S 20 54 E	0.89	5185.00	3207.8 152.5	2845.97 S 1479.98 E
8387.00	91.43	158.93	S 21 4 E	0.98	5183.17	3268.4 152.6	2902.89 S 1501.81 E
8450.00	90.90	159.36	S 20 38 E	1.08	5181.89	3331.0 152.8	2961.75 S 1524.23 E
8513.00	91.43	159.36	S 20 38 E	0.84	5180.61	3393.5 152.9	3020.70 S 1546.44 E
8575.00	90.77	159.45	S 20 33 E	1.07	5179.42	3455.1 153.0	3078.72 S 1568.24 E
8638.00	90.86	159.89	S 20 7 E	0.71	5178.52	3517.7 153.1	3137.79 S 1590.13 E
8700.00	92.22	159.89	S 20 7 E	2.19	5176.86	3579.3 153.2	3195.99 S 1611.44 E
8763.00	91.65	159.01	S 20 59 E	1.66	5174.73	3641.9 153.3	3254.95 S 1633.54 E
8826.00	91.47	158.40	S 21 36 E	1.01	5173.01	3704.6 153.4	3313.62 S 1656.41 E
8888.00	92.75	158.49	S 21 31 E	2.07	5170.73	3766.3 153.5	3371.25 S 1679.17 E
8951.00	92.40	158.84	S 21 10 E	0.79	5167.90	3829.0 153.6	3429.87 S 1702.07 E
9014.00	90.73	158.75	S 21 15 E	2.65	5166.18	3891.7 153.7	3488.58 S 1724.85 E

A Gyrodata Directional Survey

Aus-Tex Exploration

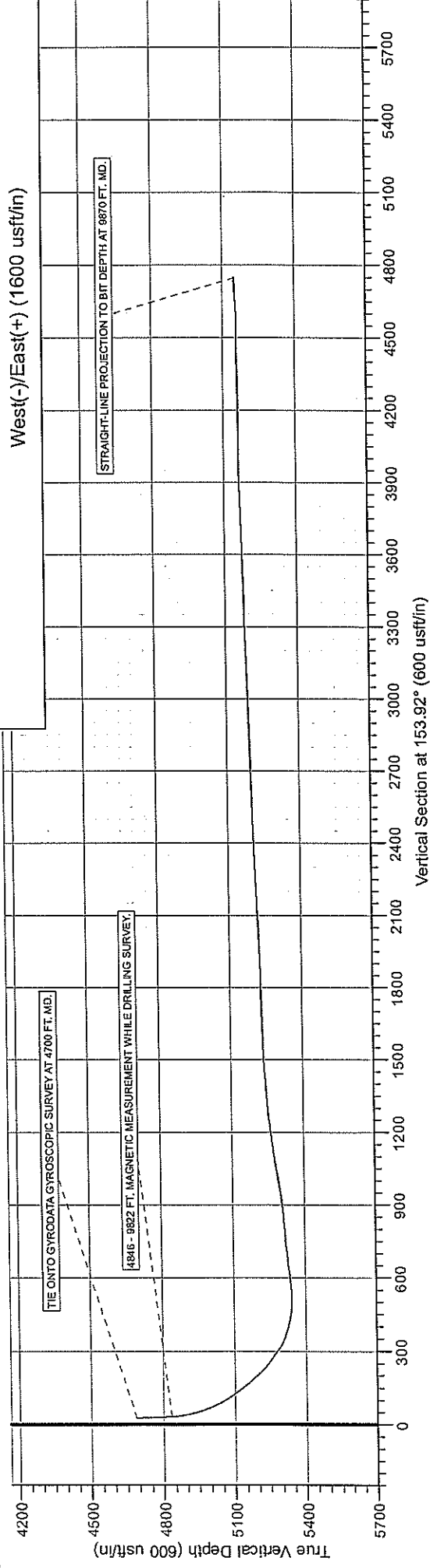
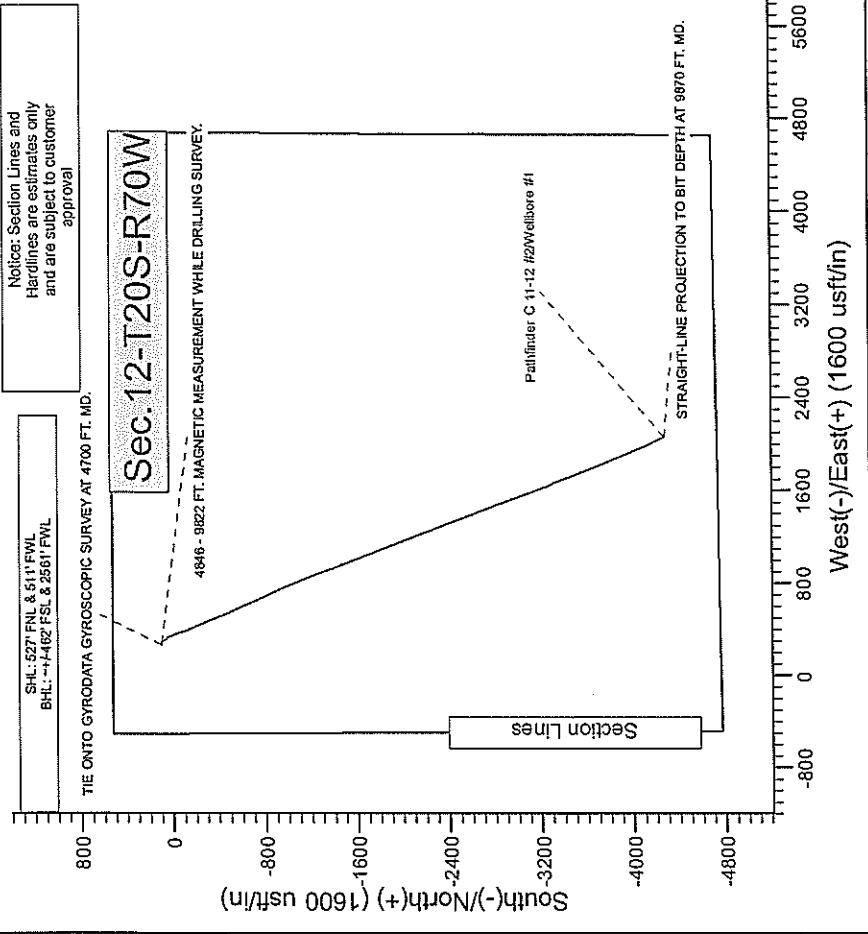
Lease: Pathfinder Well: #C 11-12 1HZ, 8 1/2" Case & 6 1/8" Hole

Location: Les Wilson #30, Fremont County, Colorado

Job Number: RD0812M159

MEASURED DEPTH	I N C L	AZIMUTH	BORE HOLE BEARING	DOGLEG SEVERITY	VERTICAL DEPTH	CLOSURE DIST. AZIMUTH	HORIZONTAL COORDINATES
feet	deg.	deg.	deg. min.	deg./ 100 ft.	feet	feet deg.	feet
9076.00	91.25	158.75	S 21 15 E	0.84	5165.11	3953.4 153.8	3546.36 S 1747.32 E
9138.00	89.54	158.40	S 21 36 E	2.82	5164.68	4015.2 153.8	3604.07 S 1769.96 E
9201.00	89.19	159.01	S 20 59 E	1.12	5165.38	4078.0 153.9	3662.76 S 1792.84 E
9262.00	89.80	159.19	S 20 49 E	1.04	5165.92	4138.8 154.0	3719.75 S 1814.60 E
9325.00	90.55	158.57	S 21 26 E	1.54	5165.73	4201.5 154.1	3778.52 S 1837.30 E
9387.00	91.12	158.49	S 21 31 E	0.93	5164.82	4263.3 154.1	3836.21 S 1859.99 E
9450.00	91.43	158.66	S 21 20 E	0.56	5163.42	4326.1 154.2	3894.84 S 1883.00 E
9512.00	91.21	156.90	S 23 6 E	2.86	5161.99	4388.0 154.2	3952.22 S 1906.44 E
9573.00	90.07	155.94	S 24 4 E	2.44	5161.31	4448.9 154.3	4008.12 S 1930.84 E
9636.00	90.24	155.15	S 24 51 E	1.28	5161.14	4511.9 154.3	4065.47 S 1956.92 E
9698.00	91.21	154.35	S 25 39 E	2.03	5160.36	4573.9 154.3	4121.54 S 1983.36 E
9760.00	92.48	154.00	S 26 0 E	2.12	5158.36	4635.9 154.3	4177.31 S 2010.35 E
9822.00	93.63	153.12	S 26 53 E	2.33	5155.06	4697.8 154.3	4232.75 S 2037.92 E
9870.00	93.63	153.12	S 26 53 E	0.00	5152.02	4745.7 154.3	4275.48 S 2059.58 E

Final Station Closure: Distance: 4745.69 ft Az: 154.28 deg.



WELL DETAILS: Pathfinder C 11-12 1HZ				
	+N/-S	+E/W	Ground Level: Easting	Latitude
	0.0	0.0	3092187.59	39° 19' 43.858 N
			Longitude	Slot
			105° 10' 43.152 W	
WELLBORE TARGET DETAILS (LAT/LONG)				
Name	TVD	+N/-S	+E/W	Longitude
PBHL Pathfinder C 11-12 #2 Design	25066.4	-4161.6	2037.3	105° 10' 17.591 W
	Shape			
	Point			

ANNOTATIONS	
TVD	MD
4888.0	4700.0
4833.3	4846.0
5152.0	9870.0
TIE ONTO GYRODATA GYROSCOPIC SURVEY AT 4700 FT. MD.	
4846 - 9822 FT. MAGNETIC MEASUREMENT WHILE DRILLING SURVEY.	
STRAIGHT-LINE PROJECTION TO BIT DEPTH AT 9870 FT. MD.	

