

14902 Henry Rd. • Houston, TX 77060
Telex 792699 • Fax 713-820-9341
Tel. 713-820-5908

Geoservices Inc.

January 8, 1991

Mr. Don Snyder
American Hunter Exploration Ltd.
#435 - 4th Ave. S.W.
Calgary, Alberta Canada


RECEIVED
MAR 5 1992
OIL CON. DIV.
DIST. 3

Dear Mr. Snyder:

Please find enclosed our final well report for your Jicarilla 3F-1. In addition, I have included a notarized copy of the surveys taken.

Again, we would like to thank American Hunter for choosing Geoservices to fill your MWD requirements. If we can be of any additional service, or provide any additional information, please feel free to call.

Sincerely,
GEOSERVICES, INC.



Jeffrey Wilson
Operations Manger

JW/m
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Geoservices-Directional

Deviation report

Well :
Field :
Company :

JICARILLA 3F-1
WILDCAT
AMERICAN HUNTER

Surv no	Measured depth feet	Drift angle degree	Azimat magnt. degree	Azimat geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcat feet	Average Az(geo) degree	.Relative Coordinates. East/West feet	Nor/South feet	Dog leg /100f
Computation method : Radius of curvature											
122	6846.0	70.37	265.50	277.80	6559.8	-239.8	251.1	72.59	239.6 E	75.1 N	15.0
123	6858.0	72.37	265.00	277.30	6563.7	-228.5	240.8	71.45	228.3 E	76.6 N	17.1
124	6889.0	76.00	263.50	275.80	6572.1	-198.9	214.2	68.06	198.7 E	80.0 N	12.6
125	6922.0	76.87	263.00	275.30	6579.9	-167.0	186.3	63.50	166.7 E	83.1 N	3.0
126	6951.0	77.50	263.00	275.30	6586.3	-138.8	163.0	58.26	138.6 E	85.7 N	2.1
127	6981.0	78.12	263.50	275.80	6592.6	-109.6	140.8	51.01	109.4 E	88.6 N	2.6
128	7013.0	79.62	263.00	275.30	6598.8	-78.4	120.4	40.47	78.1 E	91.6 N	4.9
129	7044.0	80.75	262.50	274.80	6604.1	-48.0	105.7	26.84	47.7 E	94.3 N	4.0
130	7074.0	82.12	262.50	274.80	6608.6	-18.4	98.5	10.63	18.2 E	96.8 N	4.6
131	7104.0	83.62	262.50	274.80	6612.3	11.3	99.9	353.39	11.5 W	99.3 N	5.0
132	7135.0	84.62	262.50	274.80	6615.5	42.0	110.3	337.48	42.2 W	101.8 N	3.2
133	7166.0	84.50	262.50	274.80	6618.4	72.7	127.4	325.05	73.0 W	104.4 N	0.4
134	7196.0	83.87	262.50	274.80	6621.4	102.5	148.3	316.15	102.7 W	106.9 N	2.1
135	7226.0	83.37	262.50	274.80	6624.8	132.2	171.8	309.56	132.4 W	109.4 N	1.6
136	7257.0	84.12	262.50	274.80	6628.1	162.9	197.9	304.47	163.1 W	112.0 N	2.4
137	7288.0	84.87	262.50	274.80	6631.1	193.6	225.2	300.58	193.9 W	114.6 N	2.4
138	7320.0	84.50	262.50	274.80	6634.1	225.4	254.3	297.46	225.6 W	117.2 N	1.2
139	7350.0	84.62	262.50	274.80	6636.9	255.1	282.1	295.12	255.4 W	119.7 N	0.4
140	7380.0	84.12	262.00	274.30	6639.9	284.9	310.2	293.18	285.2 W	122.1 N	2.3
141	7410.0	82.37	262.50	274.80	6643.4	314.6	338.6	291.57	314.9 W	124.5 N	6.0
142	7440.0	81.75	262.50	274.80	6647.5	344.2	367.1	290.23	344.5 W	127.0 N	2.1
143	7471.0	81.87	262.50	274.80	6652.0	374.8	396.8	289.05	375.0 W	129.5 N	0.4
144	7502.0	84.75	262.50	274.80	6655.6	405.5	426.7	288.04	405.7 W	132.1 N	9.3
145	7533.0	85.87	262.00	274.30	6658.1	436.3	456.8	287.13	436.5 W	134.6 N	3.9
146	7564.0	84.87	262.50	274.80	6660.6	467.1	487.0	286.34	467.3 W	137.0 N	3.6
147	7594.0	85.62	262.50	274.80	6663.1	496.9	516.3	285.68	497.1 W	139.5 N	2.5
148	7626.0	85.12	262.50	274.80	6665.7	528.6	547.7	285.05	528.9 W	142.2 N	1.5
149	7656.0	83.87	262.00	274.30	6668.6	558.4	577.1	284.51	558.7 W	144.6 N	4.5
150	7688.0	83.50	262.00	274.30	6672.1	590.1	608.4	283.98	590.4 W	146.9 N	1.1
151	7719.0	83.62	262.00	274.30	6675.6	620.8	638.8	283.51	621.1 W	149.2 N	0.4
152	7751.0	84.37	262.00	274.30	6678.9	652.6	670.2	283.08	652.8 W	151.6 N	2.3
153	7782.0	85.62	262.00	274.30	6681.6	683.4	700.7	282.69	683.6 W	153.9 N	4.0
154	7812.0	85.37	262.00	274.30	6684.0	713.2	730.3	282.35	713.5 W	156.2 N	0.8

This survey is true and correct to the best of our knowledge.

Signed Jeffrey Wilson
Mr. Jeffrey Wilson
Operations Manger

Sworn before me on this the 13 day of Jan, 1992.

County Harris
Notary Public [Signature]

Geoservices-Directional

Deviation report

Well :
Field :
Company :

JICARILLA 3F-1
WILDCAT
AMERICAN HUNTER

Surv no	Measured depth feet	Drift angle degree	Aziout magnt. degree	Aziout geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcat feet	Average Az(geo) degree	.Relative East/West feet	Coordinates. Nor/South feet	Dog leg /100f
Computation method : Radius of curvature											
79	5508.0	9.12	69.00	81.30	5438.9	-719.0	719.1	88.09	718.7 E	24.0 N	0.5
80	5539.0	8.75	68.50	80.80	5469.6	-723.7	723.8	88.04	723.4 E	24.8 N	1.2
81	5571.0	8.25	67.50	79.80	5501.2	-728.4	728.5	87.99	728.1 E	25.6 N	1.6
82	5601.0	8.00	66.00	78.30	5530.9	-732.6	732.7	87.94	732.2 E	26.4 N	1.1
83	5632.0	7.75	64.50	76.80	5561.6	-736.7	736.9	87.88	736.4 E	27.3 N	1.0
84	5661.0	7.25	63.50	75.80	5590.4	-740.4	740.6	87.82	740.1 E	28.2 N	1.8
85	5693.0	7.00	63.00	75.30	5622.1	-744.2	744.5	87.75	743.9 E	29.2 N	0.8
86	5724.0	6.62	65.00	77.30	5652.9	-747.8	748.1	87.70	747.5 E	30.1 N	1.4
87	5755.0	6.37	67.50	79.80	5683.7	-751.2	751.5	87.66	750.9 E	30.7 N	1.2
88	5788.0	6.12	68.00	80.30	5716.5	-754.8	755.1	87.62	754.5 E	31.4 N	0.8
89	5819.0	5.87	67.50	79.80	5747.3	-758.0	758.3	87.59	757.6 E	31.9 N	0.8
90	5844.0	5.50	65.00	77.30	5772.2	-760.4	760.8	87.56	760.1 E	32.4 N	1.8
91	5874.0	3.12	61.50	73.80	5802.1	-762.6	763.0	87.52	762.2 E	33.0 N	8.0
92	5903.0	0.37	28.00	40.30	5831.1	-763.3	763.7	87.49	763.0 E	33.5 N	9.7
93	5935.0	3.50	262.50	274.80	5863.1	-762.9	763.4	87.43	762.6 E	34.3 N	11.6
94	5964.0	6.87	261.50	273.80	5892.0	-760.3	760.8	87.40	760.0 E	34.5 N	11.6
95	5998.0	10.62	261.00	273.30	5925.6	-755.1	755.7	87.36	754.9 E	34.8 N	11.0
96	6029.0	14.00	260.00	272.30	5955.9	-748.5	749.1	87.31	748.3 E	35.1 N	10.9
97	6060.0	17.62	259.00	271.30	5985.7	-740.1	740.7	87.26	739.8 E	35.4 N	11.7
98	6090.0	21.25	258.50	270.80	6014.0	-730.1	730.7	87.21	729.9 E	35.6 N	12.1
99	6122.0	24.75	257.50	269.80	6043.4	-717.6	718.2	87.16	717.4 E	35.6 N	11.0
100	6153.0	28.50	257.00	269.30	6071.1	-703.7	704.4	87.11	703.5 E	35.5 N	12.1
101	6185.0	32.25	256.00	268.30	6098.7	-687.5	688.2	87.07	687.3 E	35.2 N	11.8
102	6215.0	35.62	255.50	267.80	6123.6	-670.8	671.4	87.05	670.6 E	34.6 N	11.3
103	6246.0	36.37	255.50	267.80	6148.7	-652.6	653.2	87.03	652.3 E	33.9 N	2.4
104	6277.0	35.50	256.50	268.80	6173.8	-634.4	635.0	86.99	634.2 E	33.4 N	3.4
105	6308.0	34.37	257.50	269.80	6199.2	-616.7	617.3	86.92	616.4 E	33.1 N	4.1
106	6339.0	33.62	258.00	270.30	6224.9	-599.3	600.0	86.83	599.1 E	33.2 N	2.6
107	6369.0	32.62	258.00	270.30	6250.0	-582.9	583.6	86.73	582.7 E	33.2 N	3.3
108	6400.0	31.75	258.00	270.30	6276.3	-566.4	567.2	86.63	566.2 E	33.3 N	2.8
109	6431.0	30.50	259.50	271.80	6302.8	-550.4	551.2	86.50	550.2 E	33.6 N	4.7
110	6461.0	30.62	261.00	273.30	6328.6	-535.2	536.0	86.33	534.9 E	34.3 N	2.6
111	6491.0	33.50	262.50	274.80	6354.1	-519.3	520.2	86.09	519.0 E	35.4 N	9.9
112	6522.0	37.37	264.00	276.30	6379.3	-501.4	502.5	85.76	501.2 E	37.2 N	12.8
113	6553.0	41.50	264.50	276.80	6403.3	-481.9	483.2	85.32	481.6 E	39.4 N	13.4
114	6582.0	45.37	265.00	277.30	6424.3	-462.1	463.7	84.82	461.8 E	41.9 N	13.4
115	6614.0	49.62	266.00	278.30	6445.9	-438.7	440.8	84.13	438.4 E	45.1 N	13.5
116	6644.0	53.75	266.00	278.30	6464.5	-415.4	418.0	83.34	415.2 E	48.5 N	13.8
117	6675.0	58.12	266.00	278.30	6481.9	-390.0	393.2	82.38	389.8 E	52.2 N	14.1
118	6743.0	62.62	267.00	279.30	6515.5	-331.6	337.0	79.53	331.4 E	61.2 N	6.7
119	6764.0	62.00	267.00	279.30	6525.2	-313.3	319.5	78.41	313.0 E	64.2 N	2.9
120	6795.0	62.87	266.50	278.80	6539.6	-286.1	294.0	76.52	285.9 E	68.5 N	3.1
121	6826.0	67.37	265.50	277.80	6552.6	-258.3	268.1	74.29	258.0 E	72.6 N	14.8

Geoservices-Directional

Deviation report

Well :
Field :
Company :

JICARILLA 3F-1
WILDCAT
AMERICAN HUNTER

Surv no	Measured depth feet	Drift angle degree	Azimut magnt. degree	Azimut geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcmt feet	Average Az(geo) degree	.Relative East/West feet	Coordinates. Nor/South feet	Dog leg /100f
Computation method : Radius of curvature											
36	4163.0	11.12	72.00	84.30	4118.3	-465.5	465.1	89.85	465.1 E	1.2 N	0.5
37	4193.0	11.25	72.00	84.30	4147.8	-471.3	470.9	89.78	470.9 E	1.8 N	0.4
38	4225.0	11.37	72.00	84.30	4179.2	-477.5	477.2	89.71	477.2 E	2.4 N	0.4
39	4254.0	11.37	71.50	83.80	4207.6	-483.2	482.9	89.64	482.9 E	3.0 N	0.3
40	4286.0	11.25	72.00	84.30	4239.0	-489.4	489.1	89.57	489.1 E	3.7 N	0.5
41	4318.0	11.37	71.50	83.80	4270.3	-495.7	495.4	89.50	495.3 E	4.3 N	0.5
42	4347.0	11.37	72.00	84.30	4298.8	-501.4	501.1	89.44	501.0 E	4.9 N	0.3
43	4378.0	11.50	72.00	84.30	4329.2	-507.5	507.2	89.37	507.1 E	5.5 N	0.4
44	4409.0	11.37	73.00	85.30	4359.5	-513.6	513.3	89.32	513.3 E	6.1 N	0.7
45	4440.0	11.50	72.50	84.80	4389.9	-519.7	519.4	89.27	519.4 E	6.6 N	0.5
46	4472.0	11.50	73.00	85.30	4421.3	-526.1	525.8	89.22	525.7 E	7.2 N	0.3
47	4503.0	11.50	72.00	84.30	4451.7	-532.2	532.0	89.17	531.9 E	7.7 N	0.6
48	4529.0	11.25	72.50	84.80	4477.2	-537.3	537.1	89.12	537.0 E	8.2 N	1.0
49	4561.0	11.2	72.00	84.30	4508.5	-543.5	543.3	89.07	543.2 E	8.8 N	0.5
50	4593.0	11.25	72.50	84.80	4539.9	-549.7	549.4	89.02	549.4 E	9.4 N	0.5
51	4625.0	11.37	72.50	84.80	4571.3	-555.9	555.7	88.97	555.6 E	10.0 N	0.4
52	4656.0	11.37	72.50	84.80	4601.7	-562.0	561.8	88.93	561.7 E	10.5 N	0.0
53	4687.0	11.37	72.50	84.80	4632.1	-568.1	567.9	88.88	567.8 E	11.1 N	0.0
54	4719.0	11.37	73.00	85.30	4663.5	-574.4	574.2	88.84	574.1 E	11.6 N	0.3
55	4750.0	11.37	73.00	85.30	4693.9	-580.5	580.3	88.80	580.2 E	12.1 N	0.0
56	4782.0	11.50	72.50	84.80	4725.2	-586.8	586.6	88.76	586.5 E	12.7 N	0.5
57	4813.0	11.37	73.00	85.30	4755.6	-592.9	592.8	88.72	592.6 E	13.2 N	0.5
58	4844.0	11.37	73.00	85.30	4786.0	-599.0	598.9	88.69	598.7 E	13.7 N	0.0
59	4876.0	11.25	73.50	85.80	4817.4	-605.3	605.1	88.66	605.0 E	14.2 N	0.5
60	4907.0	11.25	74.00	86.30	4847.8	-611.3	611.2	88.63	611.0 E	14.6 N	0.3
61	4938.0	11.00	74.00	86.30	4878.2	-617.3	617.1	88.61	617.0 E	15.0 N	0.8
62	4969.0	10.87	73.50	85.80	4908.6	-623.1	623.0	88.58	622.8 E	15.4 N	0.5
63	5000.0	11.00	73.50	85.80	4939.1	-629.0	628.9	88.56	628.7 E	15.8 N	0.4
64	5031.0	11.00	73.00	85.30	4969.5	-634.9	634.8	88.53	634.6 E	16.3 N	0.3
65	5063.0	11.00	73.00	85.30	5000.9	-641.0	640.9	88.50	640.7 E	16.8 N	0.0
66	5093.0	10.87	73.00	85.30	5030.4	-646.7	646.6	88.47	646.3 E	17.3 N	0.4
67	5124.0	10.75	73.00	85.30	5060.8	-652.5	652.4	88.44	652.1 E	17.7 N	0.4
68	5155.0	10.75	73.50	85.80	5091.3	-658.2	658.2	88.42	657.9 E	18.2 N	0.3
69	5187.0	10.62	74.00	86.30	5122.7	-664.1	664.1	88.40	663.8 E	18.6 N	0.5
70	5218.0	10.62	73.00	85.30	5153.2	-669.8	669.8	88.37	669.5 E	19.0 N	0.6
71	5257.0	10.50	72.50	84.80	5191.5	-677.0	676.9	88.34	676.6 E	19.6 N	0.4
72	5289.0	10.25	72.50	84.80	5223.0	-682.7	682.7	88.31	682.4 E	20.1 N	0.8
73	5320.0	10.12	72.50	84.80	5253.5	-688.2	688.2	88.28	687.8 E	20.6 N	0.4
74	5352.0	10.12	69.00	81.30	5285.0	-693.7	693.8	88.24	693.4 E	21.3 N	1.9
75	5383.0	9.62	71.50	83.80	5315.6	-699.0	699.0	88.20	698.7 E	22.0 N	2.1
76	5415.0	9.00	77.50	89.80	5347.1	-704.2	704.2	88.19	703.9 E	22.3 N	3.6
77	5445.0	5.37	70.50	82.80	5376.8	-709.0	709.0	88.17	708.6 E	22.6 N	3.9
78	5477.0	5.25	69.50	81.80	5408.3	-714.1	714.1	88.13	713.8 E	23.3 N	0.6

Geoservices-Directional

Deviation report

Well : JICARILLA 3F-1
 Field : WILDCAT
 Company : AMERICAN HUNTER

Coordinates

Well head : Target : Impact :
 X = 0.0 X = 0.0 X = 0.0
 Y = 0.0 Y = 0.0 Y = 0.0
 Z = 0.0 Z = 0.0 Z = 0.0
 Horizontal displacement 0.00 ft
 Total vertical depth 0.00 ft Kick off point 5865.00 ft
 Magnetic declination 12.30 deg Convergence 0.00 deg
 Horizontal projection computed in azimuth North 270.00 deg. (SW 90.00)

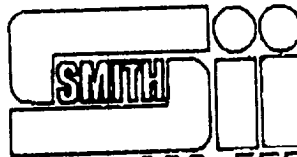
Surv no	Measured depth feet	Drift angle degree	Azimuth magnet. degree	Azimuth geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl dispicmt feet	Average Az(geo) degree	.Relative East/West feet	Coordinates. Nor/South feet	Dog leg /100f
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Computation method : Radius of curvature

1	0.0	0.00	347.75	0.05	0.0	-0.0	0.0	90.00	0.0 E	0.0 N	0.0
2	375.0	0.00	347.75	0.05	375.0	-0.0	0.0	0.05	0.0 E	0.0 N	0.0
3	499.0	1.00	108.75	121.05	499.0	-0.9	0.9	60.19	0.8 E	0.4 N	0.8
4	652.0	1.50	119.75	132.05	652.0	-3.6	3.8	114.02	3.5 E	1.5 S	0.4
5	777.0	1.50	103.75	116.05	776.9	-6.3	7.0	118.66	6.2 E	3.4 S	0.3
6	935.0	2.25	126.75	139.05	934.8	-10.4	12.1	122.42	10.2 E	6.5 S	0.7
7	1087.0	2.00	109.75	122.05	1086.7	-14.7	17.7	124.99	14.5 E	10.1 S	0.4
8	1247.0	2.00	105.75	118.05	1246.6	-19.6	23.3	123.81	19.3 E	12.9 S	0.1
9	1403.0	2.50	108.75	121.05	1402.5	-24.9	29.4	122.92	24.7 E	16.0 S	0.3
10	1559.0	2.50	107.75	120.05	1558.4	-30.7	36.2	122.47	30.5 E	19.4 S	0.0
11	1713.0	3.00	105.75	118.05	1712.2	-37.2	43.5	121.89	37.0 E	23.0 S	0.3
12	1872.0	3.50	110.75	123.05	1870.9	-45.0	52.6	121.66	44.7 E	27.6 S	0.4
13	2027.0	3.00	115.75	128.05	2025.7	-52.1	61.3	122.22	51.9 E	32.7 S	0.4
14	2121.0	3.50	130.75	143.05	2119.5	-55.8	66.5	123.27	55.6 E	36.5 S	1.0
15	2151.0	4.75	105.75	118.05	2149.4	-57.5	68.6	123.50	57.2 E	37.9 S	7.2
16	2183.0	6.00	91.75	104.05	2181.3	-60.3	71.6	122.98	60.0 E	39.0 S	5.6
17	2215.0	7.75	89.75	102.05	2213.1	-64.0	75.2	121.99	63.8 E	39.8 S	5.5
18	2246.0	10.00	85.75	98.05	2243.7	-68.7	79.6	120.70	68.5 E	40.7 S	7.5
19	2382.0	12.00	72.75	85.05	2377.2	-94.7	103.0	113.67	94.3 E	41.4 S	2.3
20	2541.0	12.00	72.75	85.05	2532.7	-127.6	133.0	106.83	127.3 E	38.5 S	0.0
21	2695.0	12.75	70.75	83.05	2683.1	-160.4	163.9	102.36	160.1 E	35.1 S	0.6
22	2820.0	13.00	71.75	84.05	2805.0	-188.1	190.5	99.66	187.8 E	32.0 S	0.3
23	2975.0	13.25	71.75	84.05	2955.9	-223.1	224.6	97.24	222.8 E	28.3 S	0.2
24	3132.0	13.50	71.75	84.05	3108.7	-259.2	260.1	95.41	258.9 E	24.5 S	0.2
25	3224.0	13.75	69.75	82.05	3198.1	-280.7	281.3	94.47	280.4 E	21.9 S	0.6
26	3376.0	12.50	69.75	82.05	3346.1	-314.9	315.1	93.12	314.6 E	17.1 S	0.8
27	3534.0	11.00	69.75	82.05	3500.8	-346.8	346.7	92.10	346.5 E	12.7 S	0.9
28	3664.0	10.50	70.75	83.05	3628.5	-370.8	370.6	91.48	370.5 E	9.5 S	0.4
29	3757.0	10.75	70.75	83.05	3719.9	-387.9	387.6	91.10	387.5 E	7.5 S	0.3
30	3883.0	11.00	70.75	83.05	3843.7	-411.4	411.2	90.64	411.1 E	4.6 S	0.2
31	4007.0	11.25	71.50	83.80	3965.3	-435.2	434.9	90.24	434.9 E	1.9 S	0.2
32	4038.0	11.25	72.00	84.30	3995.7	-441.2	440.9	90.16	440.9 E	1.2 S	0.3
33	4070.0	11.25	72.50	84.80	4027.1	-447.4	447.1	90.08	447.1 E	0.6 S	0.3
34	4101.0	11.25	71.50	83.80	4057.5	-453.5	453.1	90.00	453.1 E	0.0 S	0.6
35	4133.0	11.25	71.50	83.80	4088.9	-459.7	459.4	89.92	459.4 E	0.6 N	0.0

AMERICAN HUNTER EXPLORATION LTD.
AHEL JICARILLA #3F-1
SEC 3-T27N-R01W
RIO ARRIBA COUNTY, NEW MEXICO

29 Jan 1992 @ 07:53



SCALE: 300 FEET/INCH

HORIZONTAL PLOT



BHL: 779 FEET
@ N 78.23 W
TVD: 6688 FEET
MD: 7862 FEET

1500

1200

900

600

300

500

300

300

500

900

300

FILED

JAN 30 1992
OIL CON. DIV.
DIST. 3

May Helferman

My Commission expires March 28, 1992

AMERICAN HUNTER EXPLORATION, LT
410 SEVENTH AVENUE, SUITE 1220
DENVER, COLORADO 80202

14902 Henry Rd. • Houston, TX 77060
Telex 792699 • Fax 713-820-9341
Tel. 713-820-5908

Geoservices, Inc.

CONFIDENTIAL

January 8, 1991

Mr. Don Snyder
American Hunter Exploration Ltd.
#435 - 4th Ave. S.W.
Calgary, Alberta Canada

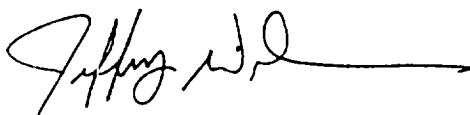
RECEIVED
MAY 26 1992
OIL CON. DIV.
DIST. 3

Dear Mr. Snyder:

Please find enclosed our final well report for your Jicarilla 3F-1. In addition, I have included a notarized copy of the surveys taken.

Again, we would like to thank American Hunter for choosing Geoservices to fill your MWD requirements. If we can be of any additional service, or provide any additional information, please feel free to call.

Sincerely,
GEOSERVICES, INC.



Jeffrey Wilson
Operations Manger

JW/m
w:\dir\mwd\ah0108

Handwritten initials

CONFIDENTIAL

STATUTORY DECLARATION

I, Bruce Thistle, solemnly declare that the following are photocopies of the original notarized surveys from the survey company, and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

JICARILLA 3F-1

3-270-10

Handwritten signature of Bruce Thistle

Bruce Thistle
American Hunter Exploration Ltd.

Declared before me at the City of Calgary, in the Province of Alberta, this 30th day of April, A.D. 1992.

Handwritten signature of Kathy M. Trofin

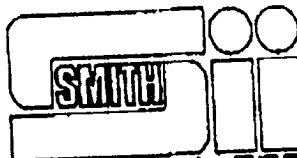
KATHY M. TROFIN
Notary Public in and for the
Province of Alberta, Canada
My Appointment Expires December 31, 1994.

Address: American Hunter Exploration Ltd.
2000, 605 - 5th Avenue S.W.
Calgary, Alberta
T2P 3H5

RECEIVED
MAY 26 1992
OIL CON. DIV.
DIST. 3

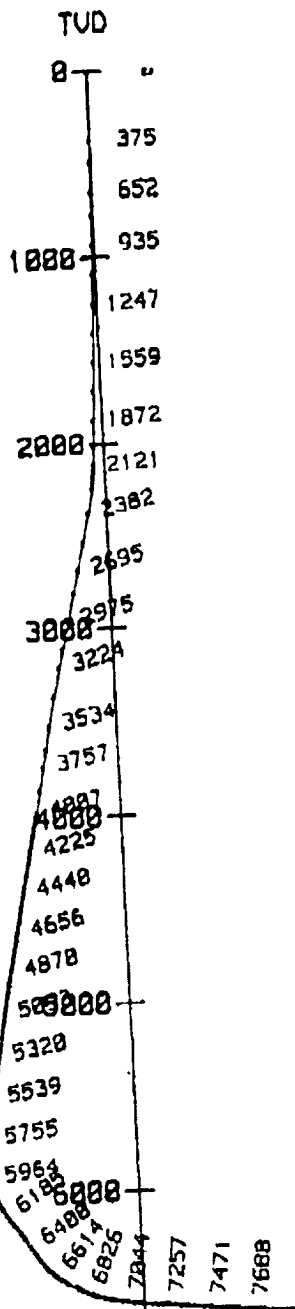
29 Jan 1992 @ 07:57

AMERICAN HUNTER EXPLORATION LTD.
AHEL JICARILLA #3F-1
SEC 3-T27N-R01W
RIO ARriba COUNTY, NEW MEXICO



SCALE: 1000 FEET/INCH

VERTICAL PLOT



RECEIVED

MAR 4 1992

OIL CON. DIV
DIST. 3

Mary Heffernan

My Commission expires March 29, 1994

AMERICAN HUNTER EXPLORATION, LTD.
410 SEVENTEENTH ST., SUITE 1220
DENVER, CO 80202

VERTICAL SECTION
SECTION PLANE: 270.00 Degrees

BHL: 779 FEET
@ N 78.23 W
TVD: 6688 FEET
MD: 7862 FEET

Geoservices-Directional

Deviation report

Well :
Field :
Company :

JICARILLA 3F-1
WILDCAT
AMERICAN HUNTER

CONFIDENTIAL

Surv no	Measured depth feet	Drift angle degree	Azimut magnt. degree	Azimut geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcat feet	Average Az(geo) degree	.Relative Coordinates. East/West feet	Nor/South feet	Dog leg /100f
Computation method : Radius of curvature											
122	6846.0	70.37	265.50	277.80	6559.8	-239.8	251.1	72.59	239.6 E	75.1 N	15.0
123	6858.0	72.37	265.00	277.30	6563.7	-228.5	240.8	71.45	228.3 E	76.6 N	17.1
124	6889.0	76.00	263.50	275.80	6572.1	-198.9	214.2	68.06	198.7 E	80.0 N	12.6
125	6922.0	76.87	263.00	275.30	6579.9	-167.0	186.3	63.50	166.7 E	83.1 N	3.0
126	6951.0	77.50	263.00	275.30	6586.3	-138.8	163.0	58.26	138.6 E	85.7 N	2.1
127	6981.0	78.12	263.50	275.80	6592.6	-109.6	140.8	51.01	109.4 E	88.6 N	2.6
128	7013.0	79.42	263.00	275.30	6598.8	-78.4	120.4	40.47	78.1 E	91.6 N	4.9
129	7044.0	80.75	262.50	274.80	6604.1	-48.0	105.7	26.84	47.7 E	94.3 N	4.0
130	7074.0	82.12	262.50	274.80	6608.6	-18.4	98.5	10.63	18.2 E	96.8 N	4.6
131	7104.0	83.62	262.50	274.80	6612.3	11.3	99.9	353.39	11.5 W	99.3 N	5.0
132	7135.0	84.62	262.50	274.80	6615.5	42.0	110.3	337.48	42.2 W	101.8 N	3.2
133	7166.0	84.50	262.50	274.80	6618.4	72.7	127.4	325.05	73.0 W	104.4 N	0.4
134	7196.0	83.87	262.50	274.80	6621.4	102.5	148.3	316.15	102.7 W	106.9 N	2.1
135	7226.0	83.37	262.50	274.80	6624.8	132.2	171.8	309.56	132.4 W	109.4 N	1.6
136	7257.0	84.12	262.50	274.80	6628.1	162.9	197.9	304.47	163.1 W	112.0 N	2.4
137	7288.0	84.87	262.50	274.80	6631.1	193.6	225.2	300.58	193.9 W	114.6 N	2.4
138	7320.0	84.50	262.50	274.80	6634.1	225.4	254.3	297.46	225.6 W	117.2 N	1.2
139	7350.0	84.62	262.50	274.80	6636.9	255.1	282.1	295.12	255.4 W	119.7 N	0.4
140	7380.0	84.12	262.00	274.30	6639.9	284.9	310.2	293.18	285.2 W	122.1 N	2.3
141	7410.0	82.37	262.50	274.80	6643.4	314.6	338.6	291.57	314.9 W	124.5 N	6.0
142	7440.0	81.75	262.50	274.80	6647.5	344.2	367.1	290.23	344.5 W	127.0 N	2.1
143	7471.0	81.87	262.50	274.80	6652.0	374.8	396.8	289.05	375.0 W	129.5 N	0.4
144	7502.0	84.75	262.50	274.80	6655.6	405.5	426.7	288.04	405.7 W	132.1 N	9.3
145	7533.0	85.87	262.00	274.30	6658.1	436.3	456.8	287.13	436.5 W	134.6 N	3.9
146	7564.0	84.87	262.50	274.80	6660.6	467.1	487.0	286.34	467.3 W	137.0 N	3.6
147	7594.0	85.62	262.50	274.80	6663.1	496.9	516.3	285.68	497.1 W	139.5 N	2.5
148	7626.0	85.12	262.50	274.80	6665.7	528.6	547.7	285.05	528.9 W	142.2 N	1.5
149	7656.0	83.87	262.00	274.30	6668.6	558.4	577.1	284.51	558.7 W	144.6 N	4.5
150	7688.0	83.50	262.00	274.30	6672.1	590.1	608.4	283.98	590.4 W	146.9 N	1.1
151	7719.0	83.62	262.00	274.30	6675.6	620.8	638.8	283.51	621.1 W	149.2 N	0.4
152	7751.0	84.37	262.00	274.30	6678.9	652.6	670.2	283.08	652.8 W	151.6 N	2.3
153	7782.0	85.62	262.00	274.30	6681.6	683.4	700.7	282.69	683.6 W	153.9 N	4.0
154	7812.0	85.37	262.00	274.30	6684.0	713.2	730.3	282.35	713.5 W	156.2 N	0.8

RECEIVED
MAY 26 1992
OIL CON. DIV.
DIST. 3

This survey is true and correct to the best of our knowledge.

Signed Jeffrey Wilson
Mr. Jeffrey Wilson
Operations Manger

Sworn before me on this the 13 day of Jan, 1992.

County Harris
Notary Public [Signature]

Geoservices-Directional

Deviation report

Well :
Field :
Company :

JICARILLA 3F-1
WILDCAT
AMERICAN HUNTER

CONFIDENTIAL

Surv no	Measured depth feet	Drift angle degree	Azimuth magnet. degree	Azimuth geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcat feet	Average Az(geo) degree	Relative Coordinates East/West feet	Nor/South feet	Dog leg /100f
Computation method : Radius of curvature											
79	5508.0	9.12	69.00	81.30	5438.9	-719.0	719.1	88.09	718.7 E	24.0 N	0.5
80	5539.0	8.75	68.50	80.80	5469.6	-723.7	723.8	88.04	723.4 E	24.8 N	1.2
81	5571.0	8.25	67.50	79.80	5501.2	-728.4	728.5	87.99	728.1 E	25.6 N	1.6
82	5601.0	8.00	66.00	78.30	5530.9	-732.6	732.7	87.94	732.2 E	26.4 N	1.1
83	5632.0	7.75	64.50	76.80	5561.6	-736.7	736.9	87.88	736.4 E	27.3 N	1.0
84	5661.0	7.25	63.50	75.80	5590.4	-740.4	740.6	87.82	740.1 E	28.2 N	1.8
85	5693.0	7.00	63.00	75.30	5622.1	-744.2	744.5	87.75	743.9 E	29.2 N	0.8
86	5724.0	6.62	65.00	77.30	5652.9	-747.8	748.1	87.70	747.5 E	30.1 N	1.4
87	5755.0	6.37	67.50	79.80	5683.7	-751.2	751.5	87.66	750.9 E	30.7 N	1.2
88	5788.0	6.12	68.00	80.30	5716.5	-754.8	755.1	87.62	754.5 E	31.4 N	0.8
89	5819.0	5.87	67.50	79.80	5747.3	-758.0	758.3	87.59	757.6 E	31.9 N	0.8
90	5844.0	5.50	65.00	77.30	5772.2	-760.4	760.8	87.56	760.1 E	32.4 N	1.8
91	5874.0	3.12	61.50	73.80	5802.1	-762.6	763.0	87.52	762.2 E	33.0 N	8.0
92	5903.0	0.37	28.00	40.30	5831.1	-763.3	763.7	87.49	763.0 E	33.5 N	9.7
93	5935.0	3.50	262.50	274.80	5863.1	-762.9	763.4	87.43	762.6 E	34.3 N	11.6
94	5964.0	6.87	261.50	273.80	5892.0	-760.3	760.8	87.40	760.0 E	34.5 N	11.6
95	5998.0	10.82	261.00	273.30	5925.6	-755.1	755.7	87.36	754.9 E	34.8 N	11.0
96	6029.0	14.00	260.00	272.30	5955.9	-748.5	749.1	87.31	748.3 E	35.1 N	10.9
97	6060.0	17.52	259.00	271.30	5985.7	-740.1	740.7	87.26	739.8 E	35.4 N	11.7
98	6090.0	21.25	258.50	270.80	6014.0	-730.1	730.7	87.21	729.9 E	35.6 N	12.1
99	6122.0	24.75	257.50	269.80	6043.4	-717.6	718.2	87.16	717.4 E	35.6 N	11.0
100	6153.0	28.50	257.00	269.30	6071.1	-703.7	704.4	87.11	703.5 E	35.5 N	12.1
101	6185.0	32.25	256.00	268.30	6098.7	-687.5	688.2	87.07	687.3 E	35.2 N	11.8
102	6215.0	35.62	255.50	267.80	6123.6	-670.8	671.4	87.05	670.6 E	34.6 N	11.3
103	6246.0	36.37	255.50	267.80	6148.7	-652.6	653.2	87.03	652.3 E	33.9 N	2.4
104	6277.0	35.50	256.50	268.80	6173.8	-634.4	635.0	86.99	634.2 E	33.4 N	3.4
105	6308.0	34.37	257.50	269.80	6199.2	-616.7	617.3	86.92	616.4 E	33.1 N	4.1
106	6339.0	33.62	258.00	270.30	6224.9	-599.3	600.0	86.83	599.1 E	33.2 N	2.6
107	6369.0	32.62	258.00	270.30	6250.0	-582.9	583.6	86.73	582.7 E	33.2 N	3.3
108	6400.0	31.75	258.00	270.30	6276.3	-566.4	567.2	86.63	566.2 E	33.3 N	2.8
109	6431.0	30.50	259.50	271.80	6302.8	-550.4	551.2	86.50	550.2 E	33.6 N	4.7
110	6461.0	30.62	261.00	273.30	6328.6	-535.2	536.0	86.33	534.9 E	34.3 N	2.6
111	6491.0	33.50	262.50	274.80	6354.1	-519.3	520.2	86.09	519.0 E	35.4 N	9.9
112	6522.0	37.37	264.00	276.30	6379.3	-501.4	502.5	85.76	501.2 E	37.2 N	12.8
113	6553.0	41.50	264.50	276.80	6403.3	-481.9	483.2	85.32	481.6 E	39.4 N	13.4
114	6582.0	45.37	265.00	277.30	6424.3	-462.1	463.7	84.82	461.8 E	41.9 N	13.4
115	6614.0	45.62	266.00	278.30	6445.9	-438.7	440.8	84.13	438.4 E	45.1 N	13.5
116	6644.0	53.75	266.00	278.30	6464.5	-415.4	418.0	83.34	415.2 E	48.5 N	13.8
117	6675.0	58.12	266.00	278.30	6481.9	-390.0	393.2	82.38	389.8 E	52.2 N	14.1
118	6743.0	62.62	267.00	279.30	6515.5	-331.6	337.0	79.53	331.4 E	61.2 N	6.7
119	6764.0	62.00	267.00	279.30	6525.2	-313.3	319.5	78.41	313.0 E	64.2 N	2.9
120	6795.0	62.87	266.50	278.80	6539.6	-286.1	294.0	76.52	285.9 E	68.5 N	3.1
121	6826.0	67.37	265.50	277.80	6552.6	-258.3	268.1	74.29	258.0 E	72.6 N	14.8

CONFIDENTIAL

Well :
Field :
Company :

JICARILLA 3F-1
WILDCAT
AMERICAN HUNTER

Surv no	Measured depth feet	Drift angle degree	Azimat magnt. degree	Azimat geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcmt feet	Average Az(geo) degree	.Relative Coordinates East/West feet	Nor/South feet	Dog leg /100f
Computation method : Radius of curvature											
36	4163.0	11.12	72.00	84.30	4118.3	-465.5	465.1	89.85	465.1 E	1.2 N	0.5
37	4193.0	11.25	72.00	84.30	4147.8	-471.3	470.9	89.78	470.9 E	1.8 N	0.4
38	4225.0	11.37	72.00	84.30	4179.2	-477.5	477.2	89.71	477.2 E	2.4 N	0.4
39	4254.0	11.37	71.50	83.80	4207.6	-483.2	482.9	89.64	482.9 E	3.0 N	0.3
40	4286.0	11.25	72.00	84.30	4239.0	-489.4	489.1	89.57	489.1 E	3.7 N	0.5
41	4318.0	11.37	71.50	83.80	4270.3	-495.7	495.4	89.50	495.3 E	4.3 N	0.5
42	4347.0	11.37	72.00	84.30	4298.8	-501.4	501.1	89.44	501.0 E	4.9 N	0.3
43	4378.0	11.50	72.00	84.30	4329.2	-507.5	507.2	89.37	507.1 E	5.5 N	0.4
44	4409.0	11.37	73.00	85.30	4359.5	-513.6	513.3	89.32	513.3 E	6.1 N	0.7
45	4440.0	11.50	72.50	84.80	4389.9	-519.7	519.4	89.27	519.4 E	6.6 N	0.5
46	4472.0	11.50	73.00	85.30	4421.3	-526.1	525.8	89.22	525.7 E	7.2 N	0.3
47	4503.0	11.50	72.00	84.30	4451.7	-532.2	532.0	89.17	531.9 E	7.7 N	0.6
48	4529.0	11.25	72.50	84.80	4477.2	-537.3	537.1	89.12	537.0 E	8.2 N	1.0
49	4561.0	11.12	72.00	84.30	4508.5	-543.5	543.3	89.07	543.2 E	8.8 N	0.5
50	4593.0	11.25	72.50	84.80	4539.9	-549.7	549.4	89.02	549.4 E	9.4 N	0.5
51	4625.0	11.37	72.50	84.80	4571.3	-555.9	555.7	88.97	555.6 E	10.0 N	0.4
52	4656.0	11.37	72.50	84.80	4601.7	-562.0	561.8	88.93	561.7 E	10.5 N	0.0
53	4687.0	11.37	72.50	84.80	4632.1	-568.1	567.9	88.88	567.8 E	11.1 N	0.0
54	4719.0	11.37	73.00	85.30	4663.5	-574.4	574.2	88.84	574.1 E	11.6 N	0.3
55	4750.0	11.37	73.00	85.30	4693.9	-580.5	580.3	88.80	580.2 E	12.1 N	0.0
56	4782.0	11.50	72.50	84.80	4725.2	-586.8	586.6	88.76	586.5 E	12.7 N	0.5
57	4813.0	11.37	73.00	85.30	4755.6	-592.9	592.8	88.72	592.6 E	13.2 N	0.5
58	4844.0	11.37	73.00	85.30	4786.0	-599.0	598.9	88.69	598.7 E	13.7 N	0.0
59	4876.0	11.25	73.50	85.80	4817.4	-605.3	605.1	88.66	605.0 E	14.2 N	0.5
60	4907.0	11.25	74.00	86.30	4847.8	-611.3	611.2	88.63	611.0 E	14.6 N	0.3
61	4938.0	11.60	74.00	86.30	4878.2	-617.3	617.1	88.61	617.0 E	15.0 N	0.8
62	4969.0	10.87	73.50	85.80	4908.6	-623.1	623.0	88.58	622.8 E	15.4 N	0.5
63	5000.0	11.00	73.50	85.80	4939.1	-629.0	628.9	88.56	628.7 E	15.8 N	0.4
64	5031.0	11.00	73.00	85.30	4969.5	-634.9	634.8	88.53	634.6 E	16.3 N	0.3
65	5063.0	11.00	73.00	85.30	5000.9	-641.0	640.9	88.50	640.7 E	16.8 N	0.0
66	5093.0	10.37	73.00	85.30	5030.4	-646.7	646.6	88.47	646.3 E	17.3 N	0.4
67	5124.0	10.75	73.00	85.30	5060.8	-652.5	652.4	88.44	652.1 E	17.7 N	0.4
68	5155.0	10.75	73.50	85.80	5091.3	-658.2	658.2	88.42	657.9 E	18.2 N	0.3
69	5187.0	10.62	74.00	86.30	5122.7	-664.1	664.1	88.40	663.8 E	18.6 N	0.5
70	5218.0	10.62	73.00	85.30	5153.2	-669.8	669.8	88.37	669.5 E	19.0 N	0.6
71	5257.0	10.50	72.50	84.80	5191.5	-677.0	676.9	88.34	676.6 E	19.6 N	0.4
72	5289.0	10.25	72.50	84.80	5223.0	-682.7	682.7	88.31	682.4 E	20.1 N	0.8
73	5320.0	10.12	72.50	84.80	5253.5	-688.2	688.2	88.28	687.8 E	20.6 N	0.4
74	5352.0	10.12	69.00	81.30	5285.0	-693.7	693.8	88.24	693.4 E	21.3 N	1.9
75	5383.0	9.62	71.50	83.80	5315.6	-699.0	699.0	88.20	698.7 E	22.0 N	2.1
76	5415.0	9.00	77.50	89.80	5347.1	-704.2	704.2	88.19	703.9 E	22.3 N	3.6
77	5445.0	9.37	70.50	82.80	5376.8	-709.0	709.0	88.17	708.6 E	22.6 N	3.9
78	5477.0	9.25	69.50	81.80	5408.3	-714.1	714.1	88.13	713.8 E	23.3 N	0.6

Geoservices-Directional

Deviation report

Well :
Field :
Company :

JICARILLA 3F-1
WILDCAT
AMERICAN HUNTER

CONFIDENTIAL

Coordinates

Well head : Target : Impact :
X = 0.0 X = 0.0 X = 0.0
Y = 0.0 Y = 0.0 Y = 0.0
Z = 0.0 Z = 0.0 Z = 0.0
Horizontal displacement 0.00 ft
Total vertical depth 0.00 ft Kick off point 5865.00 ft
Magnetic declination 12.30 deg Convergence 0.00 deg
Horizontal projection computed in azimuth North 270.00 deg. (SW 90.00)

Surv no	Measured depth feet	Drift angle degree	Azimuth magnet. degree	Azimuth geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcat feet	Average Az(geo) degree	Relative Coordinates East/West feet	Nor/South feet	Dog leg /100f
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Computation method : Radius of curvature

1	0.0	0.00	347.75	0.05	0.0	-0.0	0.0	90.00	0.0 E	0.0 N	0.0
2	375.0	0.00	347.75	0.05	375.0	-0.0	0.0	0.05	0.0 E	0.0 N	0.0
3	499.0	1.00	108.75	121.05	499.0	-0.9	0.9	60.19	0.8 E	0.4 N	0.8
4	652.0	1.50	119.75	132.05	652.0	-3.6	3.8	114.02	3.5 E	1.5 S	0.4
5	777.0	1.50	103.75	116.05	776.9	-6.3	7.0	118.66	6.2 E	3.4 S	0.3
6	935.0	2.25	126.75	139.05	934.8	-10.4	12.1	122.42	10.2 E	6.5 S	0.7
7	1087.0	2.00	109.75	122.05	1086.7	-14.7	17.7	124.99	14.5 E	10.1 S	0.4
8	1247.0	2.00	105.75	118.05	1246.6	-19.6	23.3	123.81	19.3 E	12.9 S	0.1
9	1403.0	2.50	108.75	121.05	1402.5	-24.9	29.4	122.92	24.7 E	16.0 S	0.3
10	1559.0	2.50	107.75	120.05	1558.4	-30.7	36.2	122.47	30.5 E	19.4 S	0.0
11	1713.0	3.00	105.75	118.05	1712.2	-37.2	43.5	121.89	37.0 E	23.0 S	0.3
12	1872.0	3.50	110.75	123.05	1870.9	-45.0	52.6	121.66	44.7 E	27.6 S	0.4
13	2027.0	3.00	115.75	128.05	2025.7	-52.1	61.3	122.22	51.9 E	32.7 S	0.4
14	2121.0	3.50	130.75	143.05	2119.5	-55.8	66.5	123.27	55.6 E	36.5 S	1.0
15	2151.0	4.75	105.75	118.05	2149.4	-57.5	68.6	123.50	57.2 E	37.9 S	7.2
16	2183.0	6.00	91.75	104.05	2181.3	-60.3	71.6	122.98	60.0 E	39.0 S	5.6
17	2215.0	7.75	89.75	102.05	2213.1	-64.0	75.2	121.99	63.8 E	39.8 S	5.5
18	2246.0	10.00	85.75	98.05	2243.7	-68.7	79.6	120.70	68.5 E	40.7 S	7.5
19	2382.0	12.00	72.75	85.05	2377.2	-94.7	103.0	113.67	94.3 E	41.4 S	2.3
20	2541.0	12.00	72.75	85.05	2532.7	-127.6	133.0	106.83	127.3 E	38.5 S	0.0
21	2695.0	12.75	70.75	83.05	2683.1	-160.4	163.9	102.36	160.1 E	35.1 S	0.6
22	2820.0	13.00	71.75	84.05	2805.0	-188.1	190.5	99.66	187.8 E	32.0 S	0.3
23	2975.0	13.25	71.75	84.05	2955.9	-223.1	224.6	97.24	222.8 E	28.3 S	0.2
24	3132.0	13.50	71.75	84.05	3108.7	-259.2	260.1	95.41	258.9 E	24.5 S	0.2
25	3224.0	13.75	69.75	82.05	3198.1	-280.7	281.3	94.47	280.4 E	21.9 S	0.6
26	3376.0	12.50	69.75	82.05	3346.1	-314.9	315.1	93.12	314.6 E	17.1 S	0.8
27	3534.0	11.00	69.75	82.05	3500.8	-346.8	346.7	92.10	346.5 E	12.7 S	0.9
28	3664.0	10.50	70.75	83.05	3628.5	-370.8	370.6	91.48	370.5 E	9.5 S	0.4
29	3757.0	10.75	70.75	83.05	3719.9	-387.9	387.6	91.10	387.5 E	7.5 S	0.3
30	3883.0	11.00	70.75	83.05	3843.7	-411.4	411.2	90.64	411.1 E	4.6 S	0.2
31	4007.0	11.25	71.50	83.80	3965.3	-435.2	434.9	90.24	434.9 E	1.9 S	0.2
32	4038.0	11.25	72.00	84.30	3995.7	-441.2	440.9	90.16	440.9 E	1.2 S	0.3
33	4070.0	11.25	72.50	84.80	4027.1	-447.4	447.1	90.08	447.1 E	0.6 S	0.3
34	4101.0	11.25	71.50	83.80	4057.5	-453.5	453.1	90.00	453.1 E	0.0 S	0.6
35	4133.0	11.25	71.50	83.80	4088.9	-459.7	459.4	89.92	459.4 E	0.6 N	0.0

AMERICAN HUNTER EXPLORATION LTD.
 AHSL JICARILLA #3F-1
 SEC 3-T27N-R01W
 RIO ARRIBA COUNTY, NEW MEXICO

File Name: AHL3F1S1

R **RECEIVED**
 APR 1 0 1992

OIL CON...
DIST. 9

RECORD OF SURVEY
 Calculated by Smith International's CADDs System

Radius of Curvature Method
 All Angles are Decimal
 Vertical Section Plane: 270.00 Degs

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT) AZIMUTH (DEG)		DOGLEG SEVERITY (DEG/100')
0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00	0.00	0.00
BHA #1: DEPTH IN - 375' MD										
375.00	0.00	0.00	375.00	375.00	0.00 N	0.00 E	0.00	0.00	0.00	0.00
499.00	1.00	121.00	124.00	498.99	.56 S	.93 E	-.93	1.08	121.00	.81
652.00	1.50	132.00	153.00	651.96	2.54 S	3.61 E	-3.61	4.41	125.15	.36
777.00	1.50	116.00	125.00	776.91	4.36 S	6.31 E	-6.31	7.67	124.66	.33
935.00	2.25	139.00	158.00	934.83	7.49 S	10.38 E	-10.38	12.80	125.80	.66
1087.00	2.00	122.00	152.00	1086.72	11.14 S	14.65 E	-14.65	18.41	127.23	.44
BHA #2: DEPTH IN - 1220' MD										
1247.00	2.00	118.00	160.00	1246.63	13.93 S	19.49 E	-19.49	23.95	125.55	.09
1403.00	2.50	121.00	156.00	1402.51	16.94 S	24.82 E	-24.82	30.05	124.32	.33
1559.00	2.50	120.00	156.00	1558.36	20.40 S	30.68 E	-30.68	36.84	123.62	.03
1713.00	3.00	118.00	154.00	1712.18	23.98 S	37.14 E	-37.14	44.21	122.84	.33
1872.00	3.50	123.00	159.00	1870.92	28.55 S	44.91 E	-44.91	53.22	122.45	.36
2027.00	3.00	128.00	155.00	2025.67	33.65 S	52.06 E	-52.06	61.99	122.88	.37
2121.00	3.50	143.00	94.00	2119.52	37.44 S	55.78 E	-55.78	67.19	123.87	1.04
BHA #3 (MOTOR & BENT-SUB): DEPTH IN - 2149' MD										
2151.00	4.75	118.00	30.00	2149.44	38.83 S	57.41 E	-57.41	69.31	124.07	7.21

AMERICAN HUNTER EXPLORATION LTD.
 AHEL JICARILLA #3F-1

SEC 3-T27N-R01W
 RIO ARRIBA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	AZIMUTH (DEG)	DOGLEG SEVERITY (DEG/100')	
2183.00	6.00	104.00	32.00	2181.30	39.91 S 60.20 E	-60.20	72.23	123.54	5.63	
2215.00	7.75	102.00	32.00	2213.07	40.77 S 63.94 E	-63.94	75.83	122.52	5.52	
2246.00	10.00	98.00	31.00	2243.70	41.60 S 68.64 E	-68.64	80.26	121.22	7.52	
BHA #4: DEPTH IN - 2291' MD										
2382.00	12.00	85.00	136.00	2377.19	42.28 S 94.53 E	-94.53	103.55	114.10	2.33	
2541.00	12.00	85.00	159.00	2532.72	39.39 S 127.46 E	-127.46	133.41	107.17	0.00	
2695.00	12.75	83.00	154.00	2683.14	35.94 S 160.28 E	-160.28	164.26	102.64	.56	
2820.00	13.00	84.00	125.00	2805.00	32.79 S 187.96 E	-187.96	190.79	99.90	.27	
BHA #5: DEPTH IN - 2882' MD										
2975.00	13.25	84.00	155.00	2955.95	29.11 S 222.96 E	-222.96	224.85	97.44	.16	
3132.00	13.50	84.00	157.00	3108.69	25.32 S 259.08 E	-259.08	260.31	95.58	.16	
3224.00	13.75	82.00	92.00	3198.10	22.68 S 280.59 E	-280.59	281.50	94.62	.58	
BHA #6: DEPTH IN - 3295' MD										
3376.00	12.50	82.00	152.00	3346.13	17.87 S 314.77 E	-314.77	315.27	93.25	.82	
3534.00	11.00	82.00	158.00	3500.81	13.39 S 346.63 E	-346.63	346.89	92.21	.95	
BHA #7: DEPTH IN - 3594' MD										
3664.00	10.50	83.00	130.00	3628.53	10.23 S 370.67 E	-370.67	370.81	91.58	.41	
3757.00	10.75	83.00	93.00	3719.93	8.14 S 387.69 E	-387.69	387.77	91.20	.27	
3883.00	11.00	83.00	126.00	3843.67	5.24 S 411.28 E	-411.28	411.32	90.73	.20	
4007.00	11.25	83.75	124.00	3965.34	2.48 S 435.05 E	-435.05	435.06	90.33	.23	
BHA #8 (STEERABLE ASSEMBLY): DEPTH IN - 4035' MD										
4038.00	11.25	84.25	31.00	3995.74	1.85 S 441.06 E	-441.06	441.07	90.24	.31	
4070.00	11.25	84.75	32.00	4027.13	1.25 S 447.28 E	-447.28	447.28	90.16	.30	
4101.00	11.25	83.75	31.00	4057.53	.65 S 453.29 E	-453.29	453.30	90.08	.63	
4133.00	11.25	83.75	32.00	4088.92	.03 N 459.50 E	-459.50	459.50	90.00	0.00	
4163.00	11.12	84.25	30.00	4118.35	.64 N 465.29 E	-465.29	465.29	89.92	.54	

AMERICAN HUNTER EXPLORATION LTD.
 AHEL JICARILLA #3F-1

SEC 3-T27N-R01W
 RIO ARRIBA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT) AZIMUTH (DEG)		DOGLEG SEVERITY (DEG/100')
4193.00	11.25	84.25	30.00	4147.78	1.23 N	471.08 E	-471.08	471.08	89.85	.43
4225.00	11.37	84.25	32.00	4179.16	1.85 N	477.32 E	-477.32	477.33	89.78	.38
4254.00	11.37	83.75	29.00	4207.59	2.45 N	483.01 E	-483.01	483.01	89.71	.34
4286.00	11.25	84.25	32.00	4238.97	3.11 N	489.25 E	-489.25	489.26	89.64	.48
4318.00	11.37	83.75	32.00	4270.35	3.76 N	495.49 E	-495.49	495.50	89.56	.48
4347.00	11.37	84.25	29.00	4298.78	4.36 N	501.18 E	-501.18	501.20	89.50	.34
4378.00	11.50	84.25	31.00	4329.16	4.98 N	507.29 E	-507.29	507.32	89.44	.42
4409.00	11.37	85.25	31.00	4359.55	5.54 N	513.41 E	-513.41	513.44	89.38	.76
4440.00	11.50	84.75	31.00	4389.93	6.08 N	519.53 E	-519.53	519.57	89.33	.53
4472.00	11.50	85.25	32.00	4421.29	6.63 N	525.89 E	-525.89	525.93	89.28	.31
4503.00	11.50	84.25	31.00	4451.67	7.20 N	532.04 E	-532.04	532.09	89.22	.64
4529.00	11.25	84.75	26.00	4477.16	7.69 N	537.15 E	-537.15	537.20	89.18	1.03
4561.00	11.12	84.25	32.00	4508.55	8.28 N	543.33 E	-543.33	543.39	89.13	.51
BHA #9 (STEERABLE ASSEMBLY): DEPTH IN - 4564' MD										
4593.00	11.25	84.75	32.00	4539.94	8.88 N	549.51 E	-549.51	549.58	89.07	.51
4625.00	11.37	84.75	32.00	4571.32	9.45 N	555.76 E	-555.76	555.84	89.03	.38
4656.00	11.37	84.75	31.00	4601.71	10.01 N	561.84 E	-561.84	561.93	88.98	0.00
4687.00	11.37	84.75	31.00	4632.10	10.57 N	567.93 E	-567.93	568.03	88.93	0.00
4719.00	11.37	85.25	32.00	4663.47	11.12 N	574.21 E	-574.21	574.32	88.89	.31
4750.00	11.37	84.75	31.00	4693.87	11.65 N	580.30 E	-580.30	580.42	88.85	.32
BHA #10 (STEERABLE ASSEMBLY): DEPTH IN - 4770' MD										
4782.00	11.50	84.75	32.00	4725.23	12.23 N	586.62 E	-586.62	586.74	88.81	.41
4813.00	11.37	85.25	31.00	4755.61	12.77 N	592.74 E	-592.74	592.88	88.77	.53
4844.00	11.37	85.25	31.00	4786.01	13.28 N	598.83 E	-598.83	598.98	88.73	0.00
4870.00	11.37	85.75	26.00	4811.50	13.68 N	603.94 E	-603.94	604.09	88.70	.38
4907.00	11.25	86.25	37.00	4847.78	14.18 N	611.18 E	-611.18	611.34	88.67	.42
BHA #11 (STEERABLE ASSEMBLY): DEPTH IN - 4923' MD										
4938.00	11.00	86.25	31.00	4878.20	14.58 N	617.15 E	-617.15	617.32	88.65	.81
4969.00	10.87	85.75	31.00	4908.63	14.99 N	623.01 E	-623.01	623.19	88.62	.52

AMERICAN HUNTER EXPLORATION LTD.
AHEL JICARILLA #3F-1

SEC 3-T27N-R01W
RIO ARriba COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT) AZIMUTH (DEG)		DOGLEG SEVERITY (DEG/100')
5000.00	11.00	85.75	31.00	4939.07	15.42 N	628.88 E	-628.88	629.07	88.60	.42
5031.00	11.00	85.25	31.00	4969.50	15.89 N	634.77 E	-634.77	634.97	88.57	.31
5062.00	11.00	85.25	31.00	4999.93	16.38 N	640.67 E	-640.67	640.88	88.54	0.00
5093.00	10.87	85.25	31.00	5030.37	16.86 N	646.53 E	-646.53	646.75	88.51	.42
5124.00	10.75	85.25	31.00	5060.82	17.34 N	652.32 E	-652.32	652.55	88.48	.39
5155.00	10.75	85.75	31.00	5091.27	17.80 N	658.09 E	-658.09	658.33	88.45	.30
5187.00	10.62	86.25	32.00	5122.72	18.21 N	664.01 E	-664.01	664.26	88.43	.50
5218.00	10.62	85.25	31.00	5153.19	18.63 N	669.70 E	-669.70	669.96	88.41	.59
5257.00	10.50	84.75	39.00	5191.53	19.26 N	676.82 E	-676.82	677.10	88.37	.39

BHA #12 (STEERABLE ASSEMBLY): DEPTH IN - 5269' MD

5289.00	10.25	84.75	32.00	5223.00	19.78 N	682.56 E	-682.56	682.85	88.34	.78
5320.00	10.12	84.75	31.00	5253.52	20.29 N	688.02 E	-688.02	688.32	88.31	.42
5352.00	10.12	81.25	32.00	5285.02	20.97 N	693.60 E	-693.60	693.92	88.27	1.92
5383.00	9.61	83.75	31.00	5315.56	21.66 N	698.87 E	-698.87	699.20	88.22	2.15
5445.00	9.37	82.75	62.00	5376.71	22.87 N	709.02 E	-709.02	709.39	88.15	.47
5476.00	9.25	81.75	31.00	5407.30	23.54 N	713.99 E	-713.99	714.38	88.11	.65
5508.00	9.12	81.25	32.00	5438.89	24.30 N	719.04 E	-719.04	719.45	88.06	.48
5539.00	8.75	80.75	31.00	5469.52	25.05 N	723.79 E	-723.79	724.23	88.02	1.22
5571.00	8.25	79.75	32.00	5501.16	25.85 N	728.46 E	-728.46	728.91	87.97	1.63
5601.00	8.00	78.25	30.00	5530.86	26.66 N	732.62 E	-732.62	733.10	87.92	1.09
5632.00	7.75	76.75	31.00	5561.57	27.58 N	736.76 E	-736.76	737.28	87.86	1.04
5661.00	7.25	75.75	29.00	5590.32	28.48 N	740.44 E	-740.44	740.99	87.80	1.78
5693.00	7.00	75.25	32.00	5622.07	29.47 N	744.28 E	-744.28	744.87	87.73	.80
5724.00	6.62	77.25	31.00	5652.86	30.35 N	747.85 E	-747.85	748.47	87.68	1.44
5755.00	6.37	79.75	31.00	5683.66	31.05 N	751.29 E	-751.29	751.93	87.63	1.22
5788.00	6.12	80.25	33.00	5716.46	31.67 N	754.83 E	-754.83	755.49	87.60	.78
5819.00	5.87	79.75	31.00	5747.29	32.23 N	758.01 E	-758.01	758.70	87.57	.82
5844.00	5.50	77.25	25.00	5772.17	32.73 N	760.44 E	-760.44	761.14	87.54	1.78

KICKOFF POINT

BHA #13 (DOJBLE-BEND ASSEMBLY): DEPTH IN - 5870' MD

5874.00	3.12	73.75	30.00	5802.08	33.29 N	762.62 E	-762.62	763.35	87.50	7.98
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AMERICAN HUNTER EXPLORATION LTD.
 AHIEL JICARILLA #3F-1

SEC 3-T27M-R01W
 RIO ARRIBA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT) AZIMUTH (DEG)		DOGLEG SEVERITY (DEG/100')
5903.00	.37	40.25	29.00	5831.07	33.76 N	763.35 E	-763.35	764.10	87.47	9.72
5935.00	3.50	274.75	32.00	5863.04	34.57 N	763.02 E	-763.02	763.80	87.41	11.65
5964.00	6.87	273.75	29.00	5891.92	34.77 N	760.40 E	-760.40	761.20	87.38	11.62
5998.00	10.62	273.25	34.00	5925.52	35.08 N	755.25 E	-755.25	756.06	87.34	11.03
6029.00	14.00	272.25	31.00	5955.80	35.40 N	748.65 E	-748.65	749.48	87.29	10.92
6060.00	17.62	271.25	31.00	5985.62	35.66 N	740.20 E	-740.20	741.06	87.24	11.71
6090.00	21.25	270.75	30.00	6013.91	35.83 N	730.23 E	-730.23	731.10	87.19	12.11
6122.00	24.75	269.75	32.00	6043.36	35.89 N	717.72 E	-717.72	718.52	87.14	11.01
6153.00	28.50	269.25	31.00	6071.07	35.77 N	703.83 E	-703.83	704.74	87.09	12.12
6185.00	32.25	268.25	32.00	6098.67	35.41 N	687.66 E	-687.66	688.57	87.05	11.82
6215.00	35.62	267.75	30.00	6123.56	34.83 N	670.93 E	-670.93	671.83	87.03	11.27
BHA #14 (STEERABLE ASSEMBLY): DEPTH IN - 6232' MD										
6246.00	36.37	267.75	31.00	6148.64	34.11 N	652.72 E	-652.72	653.61	87.01	2.42
6277.00	35.50	268.75	31.00	6173.74	33.56 N	634.54 E	-634.54	635.42	86.97	3.39
6308.00	34.37	269.75	31.00	6199.15	33.33 N	616.79 E	-616.79	617.69	86.91	4.09
6339.00	32.62	270.25	31.00	6225.00	33.33 N	599.68 E	-599.68	600.61	86.82	5.71
6369.00	32.62	270.25	30.00	6250.27	33.40 N	583.51 E	-583.51	584.46	86.72	0.00
6400.00	31.75	270.25	31.00	6276.51	33.47 N	567.00 E	-567.00	567.98	86.62	2.81
6431.00	30.50	271.75	31.00	6303.04	33.75 N	550.98 E	-550.98	552.01	86.49	4.74
6461.00	30.62	273.25	30.00	6328.88	34.41 N	535.74 E	-535.74	536.84	86.32	2.57
BHA #15 (DOUBLE-BEND ASSEMBLY): DEPTH IN - 6467' MD										
6491.00	33.50	274.75	30.00	6354.30	35.52 N	519.85 E	-519.85	521.07	86.09	9.96
6522.00	37.37	276.25	31.00	6379.55	37.25 N	501.97 E	-501.97	503.35	85.76	12.79
6553.00	41.50	276.75	31.00	6403.49	39.47 N	482.41 E	-482.41	484.02	85.32	13.36
6582.00	45.37	277.25	29.00	6424.54	41.90 N	462.62 E	-462.62	464.51	84.82	13.40
6614.00	49.62	278.00	32.00	6446.16	45.03 N	439.24 E	-439.24	441.55	84.15	13.39
6644.00	53.75	278.25	30.00	6464.76	48.36 N	415.95 E	-415.95	418.75	83.37	13.78
6675.00	58.12	278.25	31.00	6482.12	52.04 N	390.54 E	-390.54	393.99	82.41	14.10
CASING POINT HOLE SIZE - 6 3/4"										
BHA #16 (STEERABLE ASSEMBLY): DEPTH IN - 6722' MD										
BHA #17 (STEERABLE ASSEMBLY): DEPTH IN - 6722' MD										
6743.00	62.62	279.25	68.00	6515.73	61.03 N	332.13 E	-332.13	337.70	79.59	6.74

AMERICAN HUNTER EXPLORATION LTD.
 AHEL JICARILLA #3F-1

SEC 3-T27N-R01W
 RIO ARRIBA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT) AZIMUTH (DEG)		DOGLEG SEVERITY (DEG/100')
6764.00	62.00	279.25	21.00	6525.49	64.02 N	313.78 E	-313.78	320.25	78.47	2.95
BHA #18 (STEERABLE ASSEMBLY): DEPTH IN - 6786' MD										
6795.00	62.87	278.75	31.00	6539.83	68.32 N	286.64 E	-286.64	294.67	76.59	3.15
6826.00	67.37	277.75	31.00	6552.87	72.36 N	258.81 E	-258.81	268.74	74.38	14.81
6846.00	70.37	277.75	20.00	6560.08	74.87 N	240.33 E	-240.33	251.72	72.70	15.00
6858.00	72.37	277.25	12.00	6563.91	76.36 N	229.06 E	-229.06	241.45	71.56	17.13
6889.00	76.00	275.75	31.00	6572.36	79.73 N	199.43 E	-199.43	214.78	68.21	12.60
BHA #19 (STEERABLE ASSEMBLY): DEPTH IN - 6890' MD										
6922.00	76.87	275.25	33.00	6580.10	82.81 N	167.50 E	-167.50	186.85	63.69	3.02
6951.00	77.50	275.25	29.00	6586.53	85.39 N	139.34 E	-139.34	163.42	58.50	2.17
6981.00	78.12	275.75	30.00	6592.87	88.20 N	110.15 E	-110.15	141.11	51.31	2.63
7013.00	79.62	275.25	32.00	6599.04	91.21 N	78.90 E	-78.90	120.60	40.86	4.93
7044.00	80.75	274.75	31.00	6604.33	93.87 N	48.47 E	-48.47	105.65	27.31	3.98
7074.00	82.12	274.75	30.00	6608.79	96.33 N	18.91 E	-18.91	98.17	11.10	4.57
7104.00	83.62	274.75	30.00	6612.52	98.80 N	10.76 W	10.76	99.38	353.78	5.00
7135.00	84.62	274.75	31.00	6615.69	101.35 N	41.49 W	41.49	109.51	337.74	3.23
7166.00	84.50	274.75	31.00	6618.63	103.91 N	72.24 W	72.24	126.55	325.19	.39
7196.00	83.87	274.75	30.00	6621.67	106.38 N	101.99 W	101.99	147.37	316.21	2.10
7226.00	83.37	274.75	30.00	6625.01	108.85 N	131.70 W	131.70	170.86	309.57	1.67
7257.00	84.12	274.75	31.00	6628.38	111.40 N	162.41 W	162.41	196.94	304.45	2.42
7288.00	84.87	274.75	31.00	6631.36	113.95 N	193.16 W	193.16	224.27	300.54	2.42
7320.00	84.50	274.75	32.00	6634.32	116.59 N	224.91 W	224.91	253.34	297.40	1.16
7350.00	84.62	274.75	30.00	6637.17	119.06 N	254.67 W	254.67	281.13	295.06	.40
7380.00	84.12	274.25	30.00	6640.11	121.41 N	284.44 W	284.44	309.26	293.11	2.35
7410.00	82.37	274.75	30.00	6643.64	123.74 N	314.14 W	314.14	337.63	291.50	6.06
7440.00	81.75	274.75	30.00	6647.78	126.20 N	343.75 W	343.75	366.18	290.16	2.07
7471.00	81.87	274.75	31.00	6652.20	128.75 N	374.32 W	374.32	395.85	288.98	.39
7502.00	84.75	274.75	31.00	6655.81	131.29 N	405.00 W	405.00	425.75	287.96	9.29
7533.00	85.87	274.25	31.00	6658.34	133.72 N	435.81 W	435.81	455.86	287.06	3.95
7564.00	84.87	274.75	31.00	6660.85	136.14 N	466.61 W	466.61	486.06	286.27	3.60



AMERICAN HUNTER EXPLORATION LTD.
 AHEL JICARILLA #3F-1

SEC 3-T27N-R01W
 RIO ARRIBA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT) AZIMUTH (DEG)		DOGLEG SEVERITY (DEG/100')
7594.00	85.62	274.75	30.00	6663.33	138.62 N	496.40 W	496.40	515.39	285.60	2.50
7626.00	85.12	274.75	32.00	6665.92	141.26 N	528.19 W	528.19	546.75	284.97	1.56
7656.00	83.87	274.25	30.00	6668.79	143.60 N	557.96 W	557.96	576.14	284.43	4.48
7688.00	83.50	274.25	32.00	6672.31	145.96 N	589.68 W	589.68	607.47	283.90	1.16
7719.00	83.62	274.25	31.00	6675.79	148.24 N	620.39 W	620.39	637.86	283.44	.39
7751.00	84.37	274.25	32.00	6679.14	150.60 N	652.13 W	652.13	669.30	283.00	2.34
7782.00	85.62	274.25	31.00	6681.84	152.89 N	682.93 W	682.93	699.83	282.62	4.03
7812.00	85.37	274.25	30.00	6684.20	155.11 N	712.75 W	712.75	729.43	282.28	.83

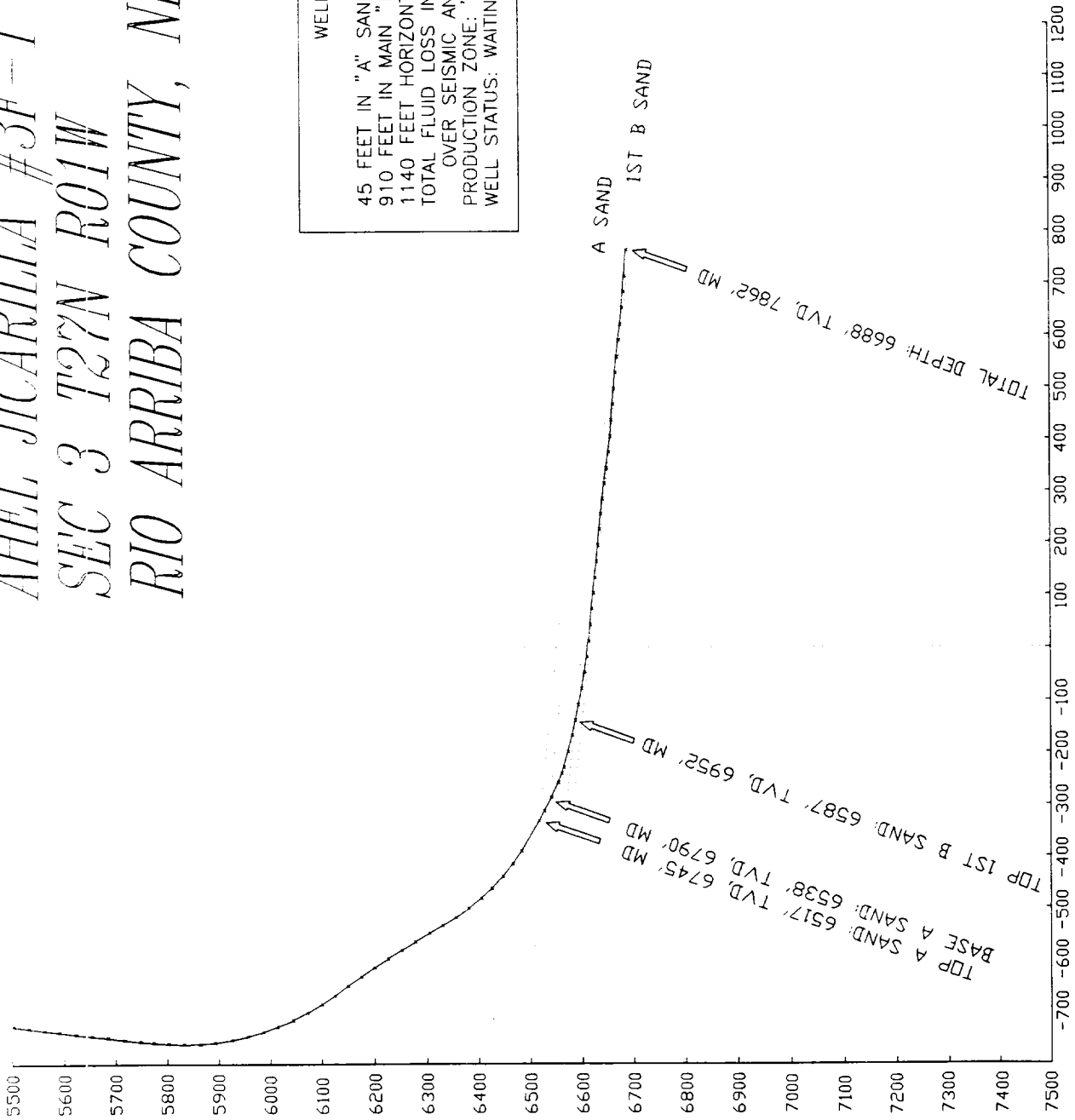
TOTAL DEPTH: THE FOLLOWING SURVEY IS PROJECTED ONLY!

7862.00	85.37	274.25	50.00	6688.23	158.80 N	762.45 W	762.45	778.81	281.77	0.00
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BOTTOM HOLE CLOSURE: 778.81 Feet at 281.77 Degrees

VERTICAL PLANE
SCALE: 100 FEET/DIVISION

AMERICAN HUNTER EXPLORATION LTD.
AHEL JICARILLA #3F-1
SEC 3 T27N R01W
RIO ARriba COUNTY, NEW MEXICO



WELL SUMMARY

45 FEET IN "A" SAND
910 FEET IN MAIN "B" SAND
1140 FEET HORIZONTAL SECTION DRILLED
TOTAL FLUID LOSS IN TWO FRACTURE ZONES
OVER SEISMIC ANOMALIES: 1600 BO
PRODUCTION ZONE: "B" SAND, 6952' - 7862' MD
WELL STATUS: WAITING ON PUMP

VERTICAL SECTION PLANE: 270.00 DEG.