

dlf (9)

~~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.

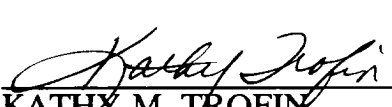
JICARILLA 6A-1

A-6-27N-1E.



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.



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

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

Geoservices, Inc.

CONFIDENTIAL

December 2, 1991

Mr. Don Snyder
Drilling Engineer
American Hunter
435 4th Ave. SW
Calgary, Alberta
Canada T2P 3A8

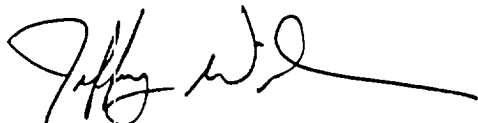
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MAY 26 1992
OIL CON. DIV.
DIST. 3

Dear Mr. Snyder:

Please find enclosed one copies of our final report for your JICARILLA #6A-1. Also included is a notarized copy of the surveys taken. If you have any questions or comments regarding this report, or require any additional copies, please feel free to contact me.

Again we thank you for allowing us to demonstrate Electromagnetic MWD to you.

Sincerely,
GEOSERVICES, INC.



Jeffry Wilson
Operations Manager

JW/c
w:\dir\mwd\ah12021

CONFIDENTIAL

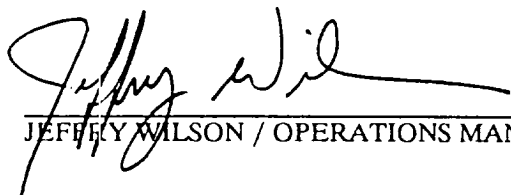
14902 Henry Rd. • Houston, TX 77060
Telex 792699 • Fax 713-820-9341
Tel. 713-820-5908

Geoservices, Inc.

TO: MR. DON SNYDMILLER / DRILLING ENGINEER
FM: JEFF WILSON
DATE: DECEMBER 2, 1991
RE: NOTARIZED COPY OF DIRECTIONAL SURVEYS
JICARILLA #6A-1

THE FOLLOWING SURVEYS WERE TAKEN WITH GEOSERVICES, INC. MWD
AND VERIFIED TO BE TRUE AND CORRECT TO THE BEST OF OUR
KNOWLEDGE:

SURVEY NUMBER 11 AT 1,724 FEET MEASURED DEPTH THROUGH SURVEY
NUMBER 115 AT 4,979 FEET MEASURED DEPTH.


JEFFREY WILSON / OPERATIONS MANAGER

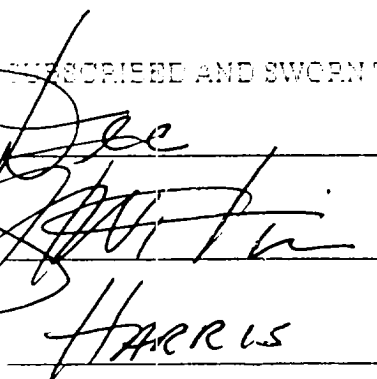
RECEIVED
MAY 26 1992
OIL CON. DIV. 3
DIST. 3

SUBSCRIBED AND SWORN TO BEFORE ME THIS 02 DAY OF

Dec 19 91

NOTARY PUBLIC

COUNTY, TEXAS


HARRIS

Geoservices-Directional

Deviation report

Well :
Field :
Company :

JICARILLA #6A-1
WILDCAT
AMERICAN HUNTER

CONFIDENTIAL

Coordinates

Well head :

Target :

Impact :

X = 0.0
Y = 0.0
Z = 0.0

X = 0.0
Y = 0.0
Z = 0.0

X = 0.0
Y = 0.0
Z = 0.0

Horizontal displacement

0.00 ft

Total vertical depth

0.00 ft

Kick off point

1721.00 ft

Magnetic declination

12.25 deg

Convergence

0.00 deg

Horizontal projection computed in azimuth North 270.00 deg. (SW 90.00)

RECEIVED

MAY 26 1992

**OIL CON. DIV.
DIST. 3**

Surv Measured no	Drift depth feet	Drift angle degree	Azinut magnt. degree	Azinut 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 /100ft
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Computation method : Radius of curvature

1	546.0	2.50	106.00	118.25	545.8	-10.5	11.9	118.25	10.5 E	5.6 S	0.5
2	680.0	3.25	70.00	82.25	679.7	-17.1	18.3	111.84	17.0 E	6.8 S	1.4
3	805.0	3.25	65.00	77.25	804.5	-24.1	24.6	103.04	24.0 E	5.6 S	0.2
4	994.0	3.25	220.00	232.25	993.2	-28.6	30.0	114.71	27.3 E	12.5 S	3.4
5	1122.0	3.00	63.00	75.25	1121.0	-31.7	34.0	120.01	29.5 E	17.0 S	4.8
6	1315.0	3.50	59.00	71.25	1313.7	-42.2	42.3	109.15	39.9 E	13.9 S	0.3
7	1492.0	4.00	59.00	71.25	1490.3	-53.2	51.9	101.27	50.9 E	10.1 S	0.3
8	1617.0	4.50	53.75	66.00	1614.9	-61.8	59.9	96.49	59.5 E	6.8 S	0.5
9	1680.0	4.25	54.00	66.25	1677.7	-66.2	64.1	94.32	63.9 E	4.8 S	0.4
10	1693.0	4.12	55.50	67.75	1690.7	-67.1	65.0	93.94	64.8 E	4.5 S	1.3
11	1724.0	3.25	31.50	43.75	1721.6	-68.7	66.5	92.88	66.4 E	3.3 S	5.6
12	1755.0	4.37	339.00	351.25	1752.6	-69.3	67.1	91.24	67.0 E	1.4 S	11.3
13	1786.0	7.37	320.50	332.75	1783.4	-68.4	66.1	88.65	66.1 E	1.6 N	11.3
14	1818.0	10.62	319.00	331.25	1815.0	-66.0	64.0	84.65	63.7 E	6.0 N	10.2
15	1849.0	13.75	319.50	331.75	1845.3	-62.9	61.7	79.05	60.6 E	11.7 N	10.1
16	1881.0	16.87	319.50	331.75	1876.2	-58.9	59.7	71.29	56.6 E	19.2 N	9.7
17	1912.0	19.12	315.00	327.25	1905.7	-54.0	58.5	62.08	51.7 E	27.4 N	8.5
18	1944.0	20.50	307.50	319.75	1935.8	-47.6	57.9	51.42	45.3 E	36.1 N	9.0
19	1975.0	22.50	301.00	313.25	1964.6	-39.8	58.1	40.19	37.5 E	44.4 N	10.0
20	2007.0	25.50	298.50	310.75	1993.8	-30.1	59.9	27.65	27.8 E	53.1 N	9.9
21	2038.0	28.62	299.00	311.25	2021.4	-19.4	64.6	15.39	17.2 E	62.3 N	10.1
22	2070.0	31.37	296.00	308.25	2049.1	-7.1	72.7	3.83	4.9 E	72.5 N	9.8
23	2101.0	33.62	291.00	303.25	2075.3	6.4	82.7	354.00	8.7 W	82.3 N	11.3
24	2132.0	35.00	285.50	297.75	2100.9	21.4	94.2	345.42	23.7 W	91.1 N	10.9
25	2163.0	36.25	280.00	292.25	2126.1	37.8	106.6	337.92	40.1 W	98.8 N	11.1
26	2195.0	37.00	274.00	286.25	2151.8	55.8	120.0	331.07	58.1 W	105.1 N	11.4
27	2226.0	38.25	269.00	281.25	2176.3	74.2	133.6	325.09	76.5 W	109.6 N	10.6
28	2256.0	40.62	266.50	278.75	2199.5	93.0	147.7	319.85	95.2 W	112.9 N	9.5
29	2287.0	43.62	265.00	277.25	2222.5	113.5	163.7	314.99	115.8 W	115.8 N	10.2
30	2318.0	46.62	263.50	275.75	2244.4	135.4	181.4	310.67	137.6 W	118.2 N	10.3
31	2349.0	48.87	260.50	272.75	2265.2	158.3	200.4	306.77	160.5 W	119.9 N	10.2
32	2380.0	51.25	258.00	270.25	2285.1	182.0	220.2	303.20	184.3 W	120.6 N	9.8
33	2446.0	55.50	255.50	267.75	2324.5	235.0	265.7	296.77	237.2 W	119.6 N	7.1
34	2475.0	55.75	254.00	266.25	2340.8	258.9	286.7	294.39	261.1 W	118.4 N	4.3
35	2507.0	56.75	254.00	266.25	2358.6	285.4	310.4	292.07	287.7 W	116.6 N	3.1

Geoservices-Directional

Deviation report

Well :
Field :
Company :

JICARILLA #6A-1
WILDCAT
AMERICAN HUNTER

CONFIDENTIAL

Surv no	Measured depth feet	Drift angle degree	Azinut magnt. degree	Azinut 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											
36	2337.0	58.50	254.50	266.75	2374.7	310.7	333.4	290.19	312.9 W	115.1 N	6.0
37	2370.0	60.12	255.00	267.25	2391.5	339.0	359.7	288.41	341.3 W	113.6 N	5.1
38	2602.0	61.87	255.00	267.25	2407.0	367.0	385.9	286.91	369.2 W	112.3 N	5.5
39	2632.0	63.62	255.00	267.25	2420.8	393.6	411.1	285.66	395.9 W	111.0 N	5.8
40	2662.0	66.25	255.00	267.25	2433.5	420.8	437.0	284.54	423.0 W	109.7 N	8.7
41	2693.0	68.62	254.00	266.25	2445.4	449.3	464.3	283.46	451.6 W	108.1 N	8.2
42	2723.0	71.50	254.00	266.25	2455.6	477.5	491.3	282.48	479.7 W	106.2 N	9.6
43	2754.0	74.87	254.00	266.25	2464.6	507.1	519.9	281.57	509.3 W	104.3 N	10.8
44	2784.0	78.12	254.50	266.75	2471.6	536.2	548.1	280.78	538.4 W	102.5 N	10.9
45	2814.0	81.75	255.00	267.25	2476.8	565.7	576.8	280.08	567.9 W	101.0 N	12.2
46	2870.0	86.87	255.50	267.75	2482.4	621.4	631.3	278.98	623.6 W	98.5 N	9.2
47	2901.0	86.87	255.50	267.75	2484.1	652.3	661.7	278.46	654.5 W	97.3 N	0.0
48	2932.0	87.12	255.50	267.75	2485.7	683.2	692.2	277.98	685.5 W	96.1 N	0.8
49	2962.0	87.12	255.50	267.75	2487.2	713.2	721.7	277.56	715.4 W	94.9 N	0.0
50	2992.0	87.25	255.00	267.25	2488.7	743.1	751.2	277.16	745.3 W	93.6 N	1.7
51	3022.0	86.87	254.50	266.75	2490.2	773.0	780.7	276.77	775.2 W	92.0 N	2.1
52	3053.0	86.37	254.50	266.75	2492.0	803.9	811.2	276.39	806.1 W	90.3 N	1.6
53	3083.0	84.87	254.00	266.25	2494.3	833.8	840.7	276.04	836.0 W	88.5 N	5.3
54	3113.0	84.00	253.00	265.25	2497.2	863.5	870.1	275.69	865.8 W	86.2 N	4.4
55	3143.0	82.75	252.50	264.75	2500.7	893.2	899.4	275.34	895.5 W	83.7 N	4.5
56	3174.0	82.62	252.50	264.75	2504.6	923.8	929.6	274.99	926.1 W	80.8 N	0.4
57	3204.0	81.75	252.50	264.75	2508.7	953.4	958.9	274.67	955.7 W	78.1 N	2.9
58	3234.0	79.00	251.50	263.75	2513.7	982.9	988.0	274.36	985.1 W	75.2 N	9.7
59	3265.0	77.25	251.50	263.75	2520.1	1013.0	1017.8	274.05	1015.3 W	71.9 N	5.6
60	3295.0	77.00	251.50	263.75	2526.8	1042.1	1046.6	273.76	1044.3 W	68.7 N	0.8
61	3326.0	76.37	251.50	263.75	2533.9	1072.1	1076.3	273.48	1074.3 W	65.4 N	2.0
62	3355.0	75.87	251.50	263.75	2540.9	1100.1	1104.1	273.24	1102.3 W	62.3 N	1.7
63	3385.0	75.25	251.50	263.75	2548.4	1128.9	1132.7	272.99	1131.2 W	59.2 N	2.0
64	3416.0	75.12	252.00	264.25	2556.3	1158.7	1162.3	272.76	1161.0 W	56.0 N	1.6
65	3446.0	75.25	253.00	265.25	2564.0	1187.6	1191.1	272.57	1189.9 W	53.4 N	3.2
66	3477.0	75.62	253.50	265.75	2571.8	1217.5	1220.8	272.39	1219.8 W	51.0 N	1.9
67	3508.0	76.25	254.00	266.25	2579.3	1247.5	1250.7	272.24	1249.8 W	48.9 N	2.5
68	3540.0	76.62	253.50	265.75	2586.8	1278.6	1281.7	272.09	1280.8 W	46.7 N	1.9
69	3571.0	79.37	254.00	266.25	2593.3	1308.8	1311.8	271.95	1311.1 W	44.6 N	9.0
70	3601.0	82.75	254.50	266.75	2597.9	1338.4	1341.3	271.83	1340.6 W	42.8 N	11.4
71	3632.0	83.12	254.50	266.75	2601.7	1369.1	1372.0	271.72	1371.3 W	41.1 N	1.2
72	3663.0	83.63	254.50	266.75	2605.3	1399.8	1402.6	271.61	1402.1 W	39.3 N	1.6
73	3693.0	85.12	254.00	266.25	2608.3	1429.6	1432.4	271.50	1431.9 W	37.5 N	5.2
74	3723.0	86.75	254.50	266.75	2610.4	1459.5	1462.2	271.40	1461.8 W	35.7 N	5.7
75	3754.0	87.62	254.50	266.75	2611.9	1490.4	1493.1	271.30	1492.7 W	33.9 N	2.8
76	3783.0	87.25	254.50	266.75	2613.2	1519.4	1521.9	271.22	1521.6 W	32.3 N	1.2
77	3813.0	86.37	254.50	266.75	2614.9	1549.3	1551.8	271.13	1551.5 W	30.6 N	2.9
78	3845.0	86.62	254.50	266.75	2616.8	1581.1	1583.6	271.04	1583.4 W	28.8 N	0.7

Geoservices-Directional

Deviation report

CONFIDENTIALWell :
Field :
Company :JICARILLA #6A-1
WILDCAT
AMERICAN HUNTER

Surv no	Measured depth feet	Drift angle degree	Azinut magnt. degree	Azinut 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	3876.0	88.12	254.50	266.75	2618.2	1612.1	1614.5	270.96	1614.3 W	27.0 N	4.8
80	3906.0	89.12	255.00	267.25	2619.0	1642.0	1644.4	270.89	1644.3 W	25.5 N	3.7
81	3936.0	88.25	255.00	267.25	2619.7	1672.0	1674.4	270.82	1674.2 W	24.0 N	2.9
82	3965.0	86.87	255.00	267.25	2620.9	1700.9	1703.3	270.76	1703.1 W	22.6 N	4.7
83	3996.0	87.25	255.00	267.25	2622.5	1731.8	1734.2	270.70	1734.1 W	21.1 N	1.2
84	4027.0	87.75	255.00	267.25	2623.8	1762.8	1765.1	270.64	1765.0 W	19.7 N	1.6
85	4058.0	86.37	254.50	266.75	2625.4	1793.7	1796.0	270.58	1795.9 W	18.0 N	4.7
86	4089.0	85.25	255.00	267.25	2627.7	1824.6	1826.9	270.51	1826.8 W	16.4 N	3.9
87	4120.0	84.37	254.50	266.75	2630.5	1855.4	1857.7	270.46	1857.6 W	14.8 N	3.3
88	4150.0	83.75	254.50	266.75	2633.6	1885.2	1887.5	270.40	1887.4 W	13.1 N	2.0
89	4181.0	82.25	254.50	266.75	2637.4	1915.9	1918.2	270.34	1918.1 W	11.4 N	4.8
90	4211.0	82.00	255.00	267.25	2641.5	1945.6	1947.8	270.29	1947.8 W	9.8 N	1.8
91	4241.0	81.75	254.50	266.75	2645.7	1975.2	1977.5	270.24	1977.5 W	8.3 N	1.8
92	4273.0	80.62	254.00	266.25	2650.6	2006.8	2009.0	270.18	2009.0 W	6.3 N	3.8
93	4304.0	79.50	253.50	265.75	2656.0	2037.3	2039.5	270.12	2039.5 W	4.2 N	3.9
94	4334.0	79.00	253.50	265.75	2661.6	2066.6	2068.9	270.06	2068.9 W	2.0 N	1.7
95	4364.0	78.87	253.50	265.75	2667.3	2096.0	2098.2	270.00	2098.2 W	0.2 S	0.4
96	4395.0	79.37	253.50	265.75	2673.2	2126.4	2128.6	269.93	2128.6 W	2.4 S	1.6
97	4425.0	79.75	254.00	266.25	2678.6	2155.8	2158.0	269.88	2158.0 W	4.5 S	2.1
98	4456.0	79.50	254.00	266.25	2684.2	2186.2	2188.5	269.83	2188.5 W	6.5 S	0.8
99	4487.0	80.25	254.00	266.25	2689.7	2216.7	2218.9	269.78	2218.9 W	8.5 S	2.4
100	4517.0	81.12	254.50	266.75	2694.5	2246.2	2248.5	269.74	2248.5 W	10.3 S	3.3
101	4549.0	82.25	254.50	266.75	2699.1	2277.8	2280.1	269.70	2280.1 W	12.1 S	3.5
102	4579.0	83.37	254.50	266.75	2702.9	2307.6	2309.8	269.66	2309.8 W	13.8 S	3.7
103	4610.0	84.00	254.50	266.75	2706.3	2338.3	2340.6	269.62	2340.6 W	15.5 S	2.0
104	4640.0	84.75	255.00	267.25	2709.2	2368.1	2370.4	269.59	2370.4 W	17.1 S	3.0
105	4671.0	84.62	254.50	266.75	2712.1	2399.0	2401.3	269.55	2401.2 W	18.7 S	1.6
106	4701.0	85.00	255.00	267.25	2714.8	2428.8	2431.1	269.52	2431.0 W	20.3 S	2.1
107	4731.0	85.50	255.00	267.25	2717.3	2458.7	2461.0	269.50	2460.9 W	21.7 S	1.7
108	4762.0	85.25	255.50	267.75	2719.8	2489.5	2491.9	269.47	2491.8 W	23.0 S	1.8
109	4794.0	85.12	255.50	267.75	2722.5	2521.4	2523.7	269.45	2523.6 W	24.3 S	0.4
110	4825.0	86.00	256.00	268.25	2724.9	2552.3	2554.6	269.43	2554.5 W	25.4 S	3.3
111	4856.0	87.25	256.50	268.75	2726.7	2583.2	2585.6	269.42	2585.4 W	26.2 S	4.3
112	4887.0	88.50	256.50	268.75	2727.9	2614.2	2616.6	269.41	2616.4 W	26.9 S	4.0
113	4918.0	89.50	256.50	268.75	2728.4	2645.2	2647.5	269.40	2647.4 W	27.5 S	3.2
114	4949.0	90.62	257.00	269.25	2728.4	2676.2	2678.5	269.40	2678.4 W	28.1 S	3.9
115	4979.0	91.00	257.00	269.25	2728.0	2706.2	2708.5	269.40	2708.4 W	28.5 S	1.3

650
3358.

CONFIDENTIAL

PAGE No. 1

AMERICAN HUNTER EXPLORATION LTD.
 AHIL JICARILLA #6A-1
 SEC 6-T27N-R01E
 RIO ARriba COUNTY, NEW MEXICO

RECEIVED
 APR 1 0 1992
 OIL CON. DIV.
 DIST. 3

File Name: AHL6A1S1

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)		DOGLEG SEVERITY (DEG/100')
546.00	2.50	118.25	0.00	545.83	5.64 S	10.49 E	-10.49	11.91	118.26	0.00
680.00	3.25	82.25	134.00	679.66	6.82 S	17.00 E	-17.00	18.31	111.85	1.43
805.00	3.25	77.25	125.00	804.46	5.56 S	23.97 E	-23.97	24.60	103.05	.23
994.00	3.25	232.25	189.00	993.16	12.55 S	27.27 E	-27.27	30.02	114.72	3.36
1122.00	3.00	75.25	128.00	1120.96	17.03 S	29.47 E	-29.47	34.04	120.02	4.78
1315.00	3.50	71.25	193.00	1313.65	13.87 S	39.95 E	-39.95	42.29	109.15	.28
1492.00	4.00	71.25	177.00	1490.27	10.15 S	50.91 E	-50.91	51.91	101.28	.28
1617.00	4.50	66.00	125.00	1614.93	6.78 S	59.53 E	-59.53	59.92	96.50	.51
1680.00	4.25	66.25	63.00	1677.75	4.83 S	63.93 E	-63.93	64.11	94.32	.40
1693.00	4.12	67.25	13.00	1690.71	4.46 S	64.80 E	-64.80	64.95	93.94	1.15
1724.00	3.25	43.75	31.00	1721.65	3.34 S	66.43 E	-66.43	66.51	92.88	5.56
1755.00	4.37	351.25	31.00	1752.58	1.44 S	67.03 E	-67.03	67.04	91.23	11.34
1786.00	7.37	332.75	31.00	1783.41	1.56 N	66.05 E	-66.05	66.07	88.65	11.32
1818.00	10.62	331.25	32.00	1815.01	5.98 N	63.70 E	-63.70	63.98	84.64	10.18
1849.00	13.75	331.75	31.00	1845.31	11.73 N	60.58 E	-60.58	61.71	79.04	10.10
1881.00	16.87	331.75	32.00	1876.17	19.17 N	56.58 E	-56.58	59.74	71.29	9.75
1912.00	19.12	327.25	31.00	1905.65	27.42 N	51.73 E	-51.73	58.54	62.07	8.53
1944.00	20.50	319.50	32.00	1935.76	36.11 N	45.26 E	-45.26	57.90	51.41	9.26
1975.00	22.50	313.25	31.00	1964.60	44.33 N	37.43 E	-37.43	58.02	40.17	9.80

CONFIDENTIAL

AMERICAN HUNTER EXPLORATION LTD.
AHEL JICARILLA #6A-1

SEC 6-T27N-R01E
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)		DOGLEG SEVERITY (DEG/100')
2007.00	25.50	310.75	32.00	1993.83	53.04 N	27.76 E	-27.76	59.87	27.62	9.90
2038.00	28.62	311.25	31.00	2021.44	62.29 N	17.11 E	-17.11	64.60	15.36	10.09
2070.00	31.37	308.25	32.00	2049.15	72.52 N	4.82 E	-4.82	72.68	3.80	9.79
2101.00	33.62	303.25	31.00	2075.29	82.25 N	8.69 W	8.69	82.71	353.97	11.30
2132.00	35.00	297.25	31.00	2100.90	91.05 N	23.78 W	23.78	94.10	345.36	11.78
2163.00	36.25	292.25	31.00	2126.09	98.60 N	40.17 W	40.17	106.47	337.83	10.22
2195.00	37.00	286.25	32.00	2151.78	104.89 N	58.19 W	58.19	119.95	330.98	11.42
2226.00	38.25	281.25	31.00	2176.33	109.39 N	76.57 W	76.57	133.52	325.01	10.64
2256.00	40.62	278.75	30.00	2199.50	112.70 N	95.33 W	95.33	147.61	319.77	9.51
2287.00	43.62	277.25	31.00	2222.49	115.59 N	115.92 W	115.92	163.70	314.92	10.21
2318.00	46.62	275.75	31.00	2244.36	118.08 N	137.74 W	137.74	181.42	310.61	10.27
2349.00	48.87	272.75	31.00	2265.20	119.78 N	160.61 W	160.61	200.36	306.71	10.20
2380.00	51.25	270.25	31.00	2285.10	120.40 N	184.37 W	184.37	220.20	303.15	9.86
2438.00	55.25	269.25	58.00	2319.80	120.20 N	230.83 W	230.83	260.25	297.51	7.03
2446.00	55.50	267.75	8.00	2324.35	120.03 N	237.41 W	237.41	266.03	296.82	15.74
2475.00	55.75	266.25	29.00	2340.72	118.77 N	261.32 W	261.32	287.04	294.44	4.36
2507.00	56.75	266.25	32.00	2358.50	117.03 N	287.87 W	287.87	310.75	292.12	3.12
2537.00	58.50	266.75	30.00	2374.56	115.49 N	313.15 W	313.15	333.77	290.24	6.00
2570.00	60.12	267.25	33.00	2391.40	114.00 N	341.49 W	341.49	360.02	288.46	5.08
2602.00	61.87	267.25	32.00	2406.92	112.66 N	369.45 W	369.45	386.24	286.96	5.47
2632.00	63.62	267.25	30.00	2420.66	111.38 N	396.08 W	396.08	411.45	285.71	5.83
2662.00	66.25	267.25	30.00	2433.37	110.07 N	423.22 W	423.22	437.30	284.58	8.77
2693.00	68.62	266.25	31.00	2445.26	108.45 N	451.80 W	451.80	464.64	283.50	8.20
2723.00	71.50	266.25	30.00	2455.49	106.61 N	479.94 W	479.94	491.64	282.52	9.60
2754.00	74.87	266.25	31.00	2464.46	104.67 N	509.55 W	509.55	520.19	281.61	10.87
2784.00	78.12	266.75	30.00	2471.46	102.89 N	538.66 W	538.66	548.40	280.81	10.95
2814.00	81.75	267.25	30.00	2476.70	101.34 N	568.15 W	568.15	577.12	280.11	12.21
2870.00	86.87	267.75	56.00	2482.25	98.91 N	623.81 W	623.81	631.60	279.01	9.19
2901.00	86.87	267.75	31.00	2483.95	97.70 N	654.73 W	654.73	661.98	278.49	0.00
2932.00	87.12	267.75	31.00	2485.57	96.48 N	685.67 W	685.67	692.42	278.01	.81
2962.00	87.12	267.75	30.00	2487.08	95.30 N	715.61 W	715.61	721.93	277.59	0.00
2992.00	87.25	267.25	30.00	2488.55	94.00 N	745.54 W	745.54	751.44	277.19	1.72

CONFIDENTIALAMERICAN HUNTER EXPLORATION LTD.
AHEL JICARILLA #6A-1SEC 6-T27N-R01E
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')
3022.00	86.87	266.75	30.00	2490.09	92.43 N	775.46 W	775.46	780.95	276.80	2.09
3053.00	86.37	266.75	31.00	2491.92	90.67 N	806.36 W	806.36	811.44	276.42	1.61
3083.00	84.87	266.25	30.00	2494.21	88.85 N	836.21 W	836.21	840.92	276.07	5.27
3113.00	84.00	265.25	30.00	2497.12	86.64 N	865.99 W	865.99	870.31	275.71	4.41
3143.00	82.75	264.75	30.00	2500.58	84.04 N	895.68 W	895.68	899.61	275.36	4.48
3174.00	82.62	264.75	31.00	2504.53	81.23 N	926.29 W	926.29	929.85	275.01	.42
3204.00	81.75	264.75	30.00	2508.61	78.51 N	955.89 W	955.89	959.11	274.70	2.90
3234.00	79.00	263.75	30.00	2513.62	75.54 N	985.32 W	985.32	988.21	274.38	9.74
3265.00	77.25	263.75	31.00	2520.00	72.24 N	1015.47 W	1015.47	1018.04	274.07	5.65
3295.00	77.00	263.75	30.00	2526.69	69.06 N	1044.54 W	1044.54	1046.82	273.78	.83
3326.00	76.37	263.75	31.00	2533.82	65.77 N	1074.53 W	1074.53	1076.54	273.50	2.03
3355.00	75.87	263.75	29.00	2540.78	62.71 N	1102.52 W	1102.52	1104.30	273.26	1.72
3385.00	75.25	263.75	30.00	2548.26	59.54 N	1131.40 W	1131.40	1132.96	273.01	2.07
3416.00	75.12	264.25	31.00	2556.19	56.41 N	1161.20 W	1161.20	1162.57	272.78	1.61
3446.00	75.25	265.25	30.00	2563.86	53.76 N	1190.08 W	1190.08	1191.29	272.59	3.25
3477.00	75.62	265.75	31.00	2571.66	51.40 N	1219.99 W	1219.99	1221.07	272.41	1.97
3508.00	76.25	266.25	31.00	2579.19	49.31 N	1249.99 W	1249.99	1250.96	272.26	2.56
3540.00	76.62	265.75	32.00	2586.70	47.14 N	1281.02 W	1281.02	1281.89	272.11	1.91
3571.00	79.37	266.25	31.00	2593.14	45.02 N	1311.27 W	1311.27	1312.04	271.97	9.01
3601.00	82.75	266.75	30.00	2597.80	43.21 N	1340.84 W	1340.84	1341.54	271.85	11.39
3632.00	83.12	266.75	31.00	2601.62	41.47 N	1371.56 W	1371.56	1372.18	271.73	1.19
3663.00	83.62	266.75	31.00	2605.20	39.72 N	1402.30 W	1402.30	1402.86	271.62	1.61
3693.00	85.12	266.25	30.00	2608.14	37.90 N	1432.10 W	1432.10	1432.60	271.52	5.27
3723.00	86.75	266.75	30.00	2610.27	36.07 N	1461.97 W	1461.97	1462.41	271.41	5.68
3754.00	87.62	266.75	31.00	2611.79	34.32 N	1492.88 W	1492.88	1493.27	271.32	2.81
3783.00	87.25	266.75	29.00	2613.09	32.68 N	1521.80 W	1521.80	1522.15	271.23	1.28
3813.00	86.37	266.75	30.00	2614.75	30.98 N	1551.71 W	1551.71	1552.02	271.14	2.93
3845.00	86.62	266.75	32.00	2616.71	29.17 N	1583.60 W	1583.60	1583.87	271.06	.78
3876.00	88.12	266.75	31.00	2618.13	27.41 N	1614.51 W	1614.51	1614.75	270.97	4.84
3906.00	89.12	267.25	30.00	2618.86	25.84 N	1644.46 W	1644.46	1644.67	270.90	3.73
3936.00	88.25	267.25	30.00	2619.54	24.40 N	1674.42 W	1674.42	1674.60	270.83	2.90
3965.00	86.87	267.25	29.00	2620.78	23.01 N	1703.36 W	1703.36	1703.52	270.77	4.76
3996.00	87.25	267.25	31.00	2622.37	21.53 N	1734.28 W	1734.28	1734.42	270.71	1.23

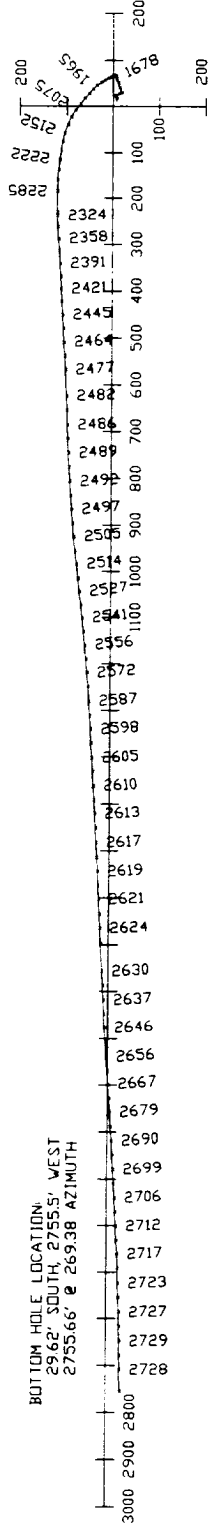
AMERICAN HUNTER EXPLORATION LTD.
AHEL JICARILLA #6A-1

SEC 6-T27N-R01E
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')
4027.00	87.75	267.25	31.00	2623.72	20.04 N	1765.22 W	1765.22	1765.33	270.65	1.61
4058.00	86.37	266.75	31.00	2625.31	18.42 N	1796.13 W	1796.13	1796.23	270.59	4.73
4120.00	84.37	266.75	62.00	2630.32	14.92 N	1857.83 W	1857.83	1857.89	270.46	3.23
4150.00	83.75	266.75	30.00	2633.42	13.23 N	1887.62 W	1887.62	1887.67	270.40	2.07
4181.00	82.25	266.75	31.00	2637.20	11.48 N	1918.34 W	1918.34	1918.37	270.34	4.84
4211.00	82.00	267.25	30.00	2641.31	9.93 N	1948.02 W	1948.02	1948.04	270.29	1.85
4241.00	81.25	266.75	30.00	2645.68	8.37 N	1977.65 W	1977.65	1977.67	270.24	2.99
4273.00	80.62	266.25	32.00	2650.72	6.44 N	2009.20 W	2009.20	2009.21	270.18	2.50
4304.00	79.50	265.75	31.00	2656.07	4.31 N	2039.66 W	2039.66	2039.66	270.12	3.95
4334.00	79.00	265.75	30.00	2661.67	2.13 N	2069.05 W	2069.05	2069.05	270.06	1.67
4364.00	78.87	265.75	30.00	2667.42	.05 S	2098.41 W	2098.41	2098.41	270.00	.43
4395.00	79.37	265.75	31.00	2673.28	2.31 S	2128.77 W	2128.77	2128.77	269.94	1.61
4425.00	79.75	266.00	30.00	2678.71	4.43 S	2158.19 W	2158.19	2158.20	269.88	1.51
4457.00	79.50	266.25	32.00	2684.47	6.56 S	2189.60 W	2189.60	2189.61	269.83	1.10
4487.00	80.25	266.25	30.00	2689.75	8.49 S	2219.07 W	2219.07	2219.09	269.78	2.50
4517.00	81.12	266.25	30.00	2694.60	10.43 S	2248.61 W	2248.61	2248.63	269.73	2.90
4549.00	82.25	266.75	32.00	2699.23	12.36 S	2280.21 W	2280.21	2280.25	269.69	3.85
4579.00	83.37	266.75	30.00	2702.99	14.05 S	2309.93 W	2309.93	2309.97	269.65	3.73
4610.00	84.00	266.75	31.00	2706.40	15.79 S	2340.69 W	2340.69	2340.74	269.61	2.03
4640.00	84.75	267.25	30.00	2709.34	17.35 S	2370.51 W	2370.51	2370.57	269.58	3.00
4671.00	84.62	266.75	31.00	2712.21	18.97 S	2401.33 W	2401.33	2401.40	269.55	1.66
4701.00	85.00	266.75	30.00	2714.92	20.66 S	2431.16 W	2431.16	2431.25	269.51	1.27
4731.00	85.50	267.25	30.00	2717.41	22.23 S	2461.01 W	2461.01	2461.12	269.48	2.35
4762.00	85.25	267.75	31.00	2719.91	23.58 S	2491.88 W	2491.88	2492.00	269.46	1.80
4794.00	85.12	267.75	32.00	2722.59	24.83 S	2523.75 W	2523.75	2523.87	269.44	.41
4825.00	86.00	268.25	31.00	2724.99	25.91 S	2554.63 W	2554.63	2554.77	269.42	3.26
4856.00	87.25	268.75	31.00	2726.82	26.72 S	2585.57 W	2585.57	2585.71	269.41	4.34
4887.00	88.50	268.75	31.00	2727.97	27.39 S	2616.54 W	2616.54	2616.68	269.40	4.03
4918.00	89.50	268.75	31.00	2728.51	28.07 S	2647.53 W	2647.53	2647.68	269.39	3.23
4949.00	90.62	269.25	31.00	2728.48	28.61 S	2678.52 W	2678.52	2678.68	269.39	3.96
4979.00	91.00	269.25	30.00	2728.05	29.00 S	2708.52 W	2708.52	2708.67	269.39	1.27
5026.00	91.50	269.25	47.00	2727.03	29.62 S	2755.50 W	2755.50	2755.66	269.38	1.06

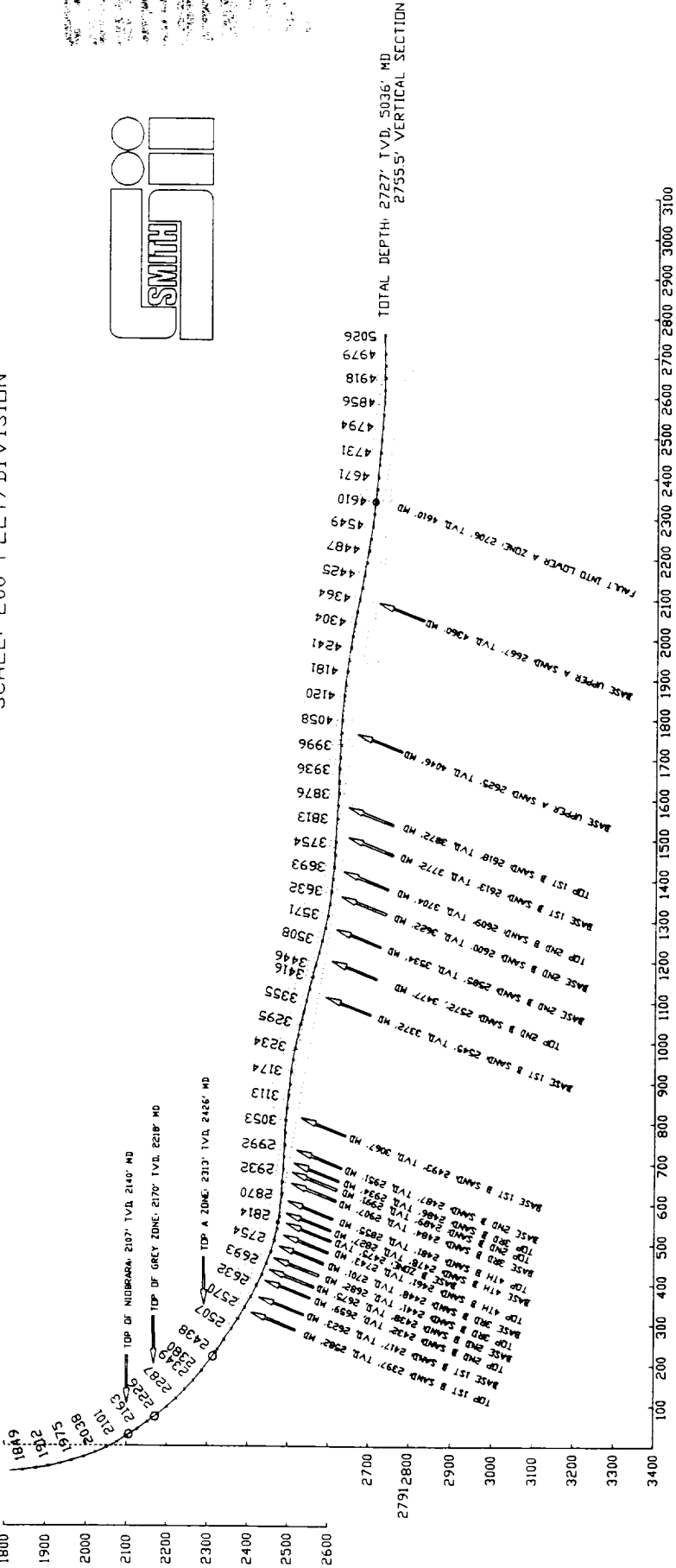
BOTTOM HOLE CLOSURE: 2755.66 Feet at 269.38 Degrees

AMERICAN HUNTER EXPLORATION LTD. AHEL JICARILLA #6A-1 SEC 6-T27N-R01E RIO ARRIBA COUNTY, NEW MEXICO



HORIZONTAL PLAN
 SCALE: 200 FEET/DIVISION

VERTICAL SECTION
 SCALE: 100 FEET/DIVISION



AMERICAN HUNTER EXPLORATION LTD.
 AHEL JICARILLA #6A-1
 SEC 6-T27N-R01E
 RIO ARRIBA COUNTY, NEW MEXICO

VERTICAL PLANE
SCALE: 100 FEET/DIVISION

