

YATES PETROLEUM CORPORATION

HARACZ "AMO" FEDERAL #8H EDDY CO., NEW MEXICO



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7833.00	1.67	221.21	7830.88	-16.78	26.14	0.00	0.00	-16.78	
2	8579.93	90.00	359.42	8310.00	452.03	12.10	12.22	138.20	452.03	
3	12748.12	90.00	359.42	8310.00	4620.00	-30.10	0.00	0.00	4620.00	P2

LEGEND	
	#8H, 1, Plan #2
	WFT SVY

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
P2	8310.00	4620.00	-30.10	440343.90	722846.23	Point

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#8H	0.00	0.00	435723.90	722876.33	32°11'47.465N	103°44'47.240W	N/A

FIELD DETAILS
Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: igr200510

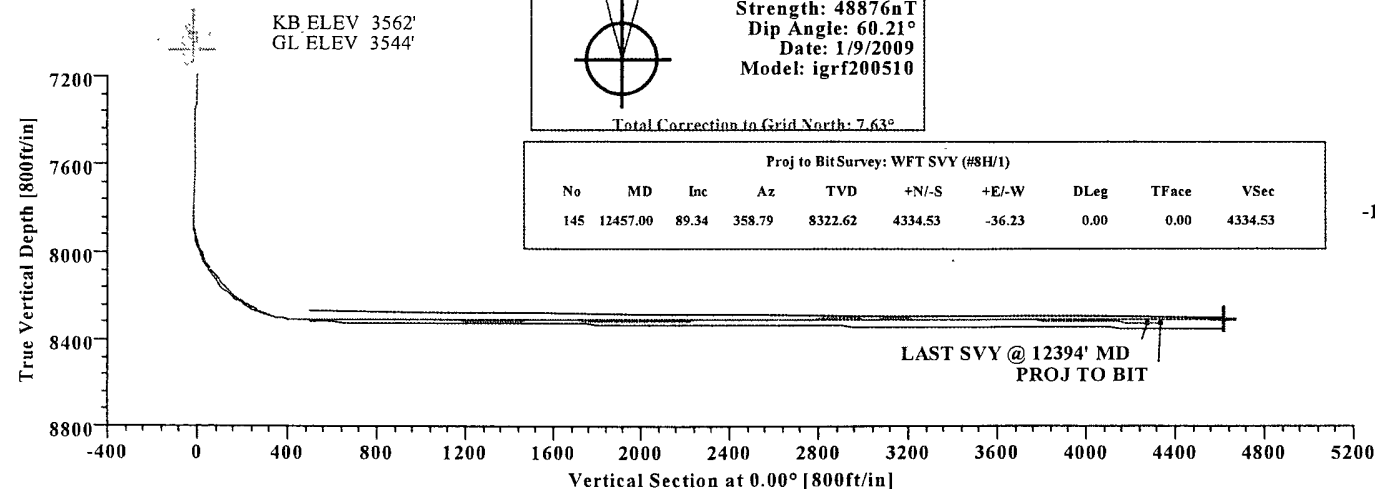
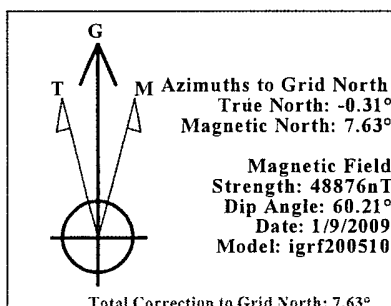
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS
Haracz "Amo" Federal #8H
330' FSL 1980' FEL of SEC 23 T24S R31E

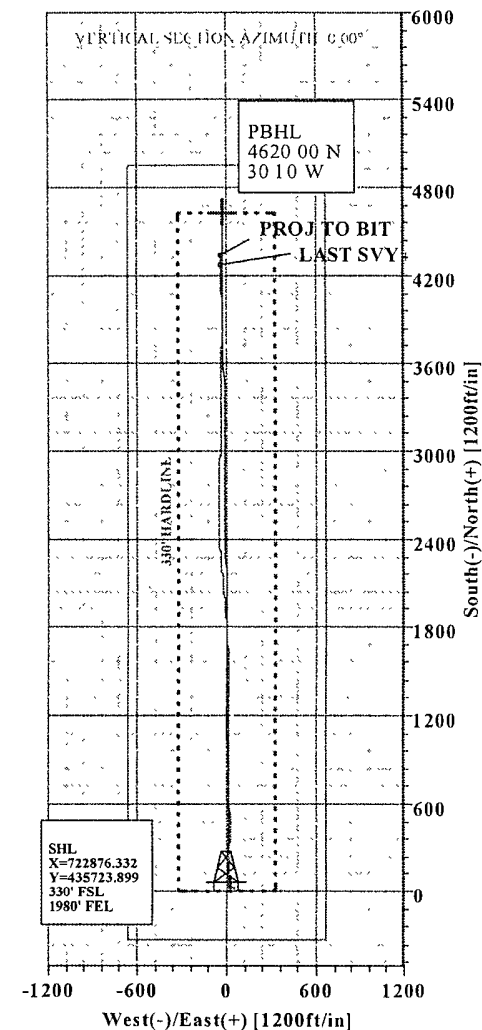
Site Centre Northing: 435723.90
Easting: 722876.33

Ground Level: 3544.00
Positional Uncertainty: 0.00
Convergence: 0.31

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	8103.80	8128.00	Brushy Canyon Mkr
2	8307.48	8542.00	Brushy Sand Target



Proj to Bit Survey: WFT SVY (#8H/1)										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
145	12457.00	89.34	358.79	8322.62	4334.53	-36.23	0.00	0.00	4334.53	



Survey: WFT SVY (#8H/1)
Created By: Lindsey Maddux Date: 2/17/2009

30.015.36778

Weatherford International, Inc.

Survey Report



Weatherford

Company: Yates Petroleum Field: Eddy Co., NM (NAD 83) Site: Haracz "Amo" Federal #8H Well: #8H Wellpath: 1	Date: 2/17/2009 Co-ordinate(NE) Reference: Well: #8H, Grid North Vertical (TVD) Reference: SITE 3562.0 Section (VS) Reference: Well: (0.00N,0.00E,0.00Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf200510

Site: Haracz "Amo" Federal #8H

330' FSL 1980' FEL of SEC 23 T24S R31E

Site Position:	Northing: 435723.90 ft	Latitude: 32 11 47.465 N
From: Map	Easting: 722876.33 ft	Longitude: 103 44 47.240 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3544.00 ft		Grid Convergence: 0.31 deg

Well: #8H

Slot Name:

Well Position:	+N-S 0.00 ft	Northing: 435723.90 ft	Latitude: 32 11 47.465 N
	+E-W 0.00 ft	Easting: 722876.33 ft	Longitude: 103 44 47.240 W
Position Uncertainty: 0.00 ft			

Wellpath: 1

Current Datum: SITE Magnetic Data: 1/9/2009 Field Strength: 48876 nT Vertical Section: Depth From (TVD) ft	Height 3562.00 ft +N-S ft +E-W ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 7.94 deg Mag Dip Angle: 60.21 deg Direction deg
0.00	0.00	0.00

Survey: WFT SVY

Start Date: 1/19/2009

Company: Weatherford International, Inc
Tool: MWD;MWD - Standard

Engineer: Lindsey Maddux
Tied-to: From: Multi-Shot

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7800.00	1.75	221.53	7797.90	-16.04	26.79	-16.04	0.00	0.00	0.00	MWD
7833.00	1.67	221.21	7830.88	-16.78	26.14	-16.78	0.24	-0.24	-0.97	MWD
7859.00	3.47	339.58	7856.87	-16.33	25.61	-16.33	17.34	6.92	455.27	MWD
7874.00	5.00	342.21	7871.83	-15.28	25.26	-15.28	10.28	10.20	17.53	MWD
7891.00	7.24	344.65	7888.73	-13.54	24.75	-13.54	13.26	13.18	14.35	MWD
7906.00	9.38	346.46	7903.57	-11.44	24.21	-11.44	14.37	14.27	12.07	MWD
7923.00	11.57	347.13	7920.29	-8.43	23.51	-8.43	12.90	12.88	3.94	MWD
7954.00	16.29	348.28	7950.37	-1.14	21.93	-1.14	15.25	15.23	3.71	MWD
7988.00	21.02	349.90	7982.57	9.54	19.89	9.54	13.99	13.91	4.76	MWD
8019.00	26.20	350.60	8010.97	21.77	17.80	21.77	16.73	16.71	2.26	MWD
8051.00	29.81	353.80	8039.22	36.66	15.78	36.66	12.22	11.28	10.00	MWD
8083.00	32.45	356.94	8066.61	53.14	14.46	53.14	9.68	8.25	9.81	MWD
8114.00	34.91	357.64	8092.40	70.31	13.66	70.31	8.03	7.94	2.26	MWD
8146.00	37.72	358.17	8118.18	89.25	12.97	89.25	8.84	8.78	1.66	MWD
8178.00	41.20	359.00	8142.89	109.58	12.47	109.58	11.00	10.87	2.59	MWD
8210.00	44.67	0.11	8166.31	131.37	12.31	131.37	11.10	10.84	3.47	MWD
8241.00	47.66	1.51	8187.78	153.72	12.63	153.72	10.18	9.65	4.52	MWD
8273.00	50.56	1.16	8208.72	177.91	13.19	177.91	9.10	9.06	-1.09	MWD
8305.00	54.00	1.70	8228.30	203.21	13.83	203.21	10.83	10.75	1.69	MWD
8336.00	58.00	2.20	8245.63	228.89	14.70	228.89	12.97	12.90	1.61	MWD
8368.00	62.08	2.57	8261.61	256.58	15.86	256.58	12.79	12.75	1.16	MWD
8400.00	66.20	2.90	8275.56	285.34	17.23	285.34	12.91	12.87	1.03	MWD
8432.00	70.90	2.70	8287.26	315.08	18.69	315.08	14.70	14.69	-0.62	MWD
8463.00	75.97	1.86	8296.10	344.76	19.87	344.76	16.56	16.35	-2.71	MWD

Weatherford International, Inc.

Survey Report



Weatherford

Company: Yates Petroleum Field: Eddy Co., NM (NAD 83) Site: Haracz "Amo" Federal #8H Well: #8H Wellpath: 1	Date: 2/17/2009 Co-ordinate(NE) Reference: Well: #8H, Grid North Vertical (TVD) Reference: SITE 3562.0 Section (VS) Reference: Well (0.00N,0.00E,0.00Azi) Survey Calculation Method: Minimum Curvature	Time: 10:07:02 Page: 2 Db: Sybase
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Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
8495.00	80.64	0.46	8302.58	376.08	20.50	376.08	15.21	14.59	-4.37	MWD
8527.00	85.40	359.80	8306.47	407.83	20.57	407.83	15.02	14.87	-2.06	MWD
8558.00	88.46	359.00	8308.13	438.78	20.24	438.78	10.20	9.87	-2.58	MWD
8589.00	89.25	358.88	8308.75	469.77	19.67	469.77	2.58	2.55	-0.39	MWD
8621.00	91.28	359.05	8308.60	501.76	19.09	501.76	6.37	6.34	0.53	MWD
8716.00	91.10	359.60	8306.63	596.73	17.97	596.73	0.61	-0.19	0.58	MWD
8811.00	90.30	359.40	8305.47	691.72	17.14	691.72	0.87	-0.84	-0.21	MWD
8823.00	90.50	359.60	8305.38	703.72	17.04	703.72	2.36	1.67	1.67	MWD
8855.00	90.90	359.80	8304.99	735.72	16.87	735.72	1.40	1.25	0.62	MWD
8887.00	90.60	359.40	8304.57	767.71	16.65	767.71	1.56	-0.94	-1.25	MWD
8918.00	90.00	359.80	8304.41	798.71	16.43	798.71	2.33	-1.94	1.29	MWD
8950.00	89.50	359.80	8304.55	830.71	16.32	830.71	1.56	-1.56	0.00	MWD
8982.00	89.80	0.50	8304.75	862.71	16.40	862.71	2.38	0.94	2.19	MWD
9013.00	89.80	0.60	8304.86	893.71	16.70	893.71	0.32	0.00	0.32	MWD
9045.00	89.00	0.30	8305.19	925.71	16.95	925.71	2.67	-2.50	-0.94	MWD
9077.00	88.60	0.30	8305.86	957.70	17.12	957.70	1.25	-1.25	0.00	MWD
9108.00	88.40	359.90	8306.67	988.69	17.17	988.69	1.44	-0.65	-1.29	MWD
9140.00	88.40	0.30	8307.57	1020.68	17.23	1020.68	1.25	0.00	1.25	MWD
9172.00	88.60	0.50	8308.40	1052.66	17.45	1052.66	0.88	0.62	0.62	MWD
9203.00	88.90	0.50	8309.08	1083.66	17.72	1083.66	0.97	0.97	0.00	MWD
9235.00	87.90	359.80	8309.97	1115.64	17.81	1115.64	3.81	-3.12	-2.19	MWD
9287.00	88.14	359.35	8311.77	1167.61	17.42	1167.61	0.98	0.46	-0.87	MWD
9319.00	88.89	359.79	8312.60	1199.60	17.18	1199.60	2.72	2.34	1.37	MWD
9350.00	88.94	359.60	8313.19	1230.59	17.02	1230.59	0.63	0.16	-0.61	MWD
9382.00	88.54	359.27	8313.89	1262.58	16.70	1262.58	1.62	-1.25	-1.03	MWD
9414.00	89.63	358.87	8314.40	1294.57	16.18	1294.57	3.63	3.41	-1.25	MWD
9445.00	90.14	358.74	8314.46	1325.57	15.54	1325.57	1.70	1.65	-0.42	MWD
9477.00	89.91	358.53	8314.45	1357.56	14.77	1357.56	0.97	-0.72	-0.66	MWD
9509.00	90.20	358.76	8314.42	1389.55	14.02	1389.55	1.16	0.91	0.72	MWD
9541.00	91.74	358.88	8313.88	1421.54	13.36	1421.54	4.83	4.81	0.37	MWD
9572.00	91.80	358.66	8312.92	1452.51	12.69	1452.51	0.74	0.19	-0.71	MWD
9604.00	91.34	358.80	8312.04	1484.49	11.98	1484.49	1.50	-1.44	0.44	MWD
9636.00	91.34	358.42	8311.29	1516.48	11.21	1516.48	1.19	0.00	-1.19	MWD
9667.00	90.60	358.03	8310.77	1547.46	10.25	1547.46	2.70	-2.39	-1.26	MWD
9699.00	89.80	357.90	8310.66	1579.44	9.11	1579.44	2.53	-2.50	-0.41	MWD
9731.00	88.37	357.42	8311.17	1611.40	7.81	1611.40	4.71	-4.47	-1.50	MWD
9763.00	88.94	357.14	8311.92	1643.36	6.29	1643.36	1.98	1.78	-0.87	MWD
9794.00	90.14	357.13	8312.17	1674.32	4.74	1674.32	3.87	3.87	-0.03	MWD
9826.00	88.71	356.30	8312.49	1706.26	2.90	1706.26	5.17	-4.47	-2.59	MWD
9858.00	88.26	356.38	8313.34	1738.19	0.86	1738.19	1.43	-1.41	0.25	MWD
9890.00	89.34	356.39	8314.01	1770.12	-1.15	1770.12	3.38	3.37	0.03	MWD
9921.00	89.97	356.55	8314.19	1801.06	-3.06	1801.06	2.10	2.03	0.52	MWD
9953.00	90.20	356.51	8314.14	1833.00	-5.00	1833.00	0.73	0.72	-0.12	MWD
9985.00	89.40	355.89	8314.26	1864.93	-7.12	1864.93	3.16	-2.50	-1.94	MWD
10016.00	88.49	355.45	8314.83	1895.83	-9.46	1895.83	3.26	-2.94	-1.42	MWD
10048.00	88.89	355.46	8315.56	1927.72	-12.00	1927.72	1.25	1.25	0.03	MWD
10080.00	89.86	355.50	8315.91	1959.62	-14.52	1959.62	3.03	3.03	0.12	MWD
10112.00	90.60	355.51	8315.78	1991.52	-17.03	1991.52	2.31	2.31	0.03	MWD
10143.00	90.60	354.95	8315.45	2022.41	-19.60	2022.41	1.81	0.00	-1.81	MWD
10175.00	90.89	354.79	8315.04	2054.28	-22.46	2054.28	1.04	0.91	-0.50	MWD
10207.00	90.20	354.71	8314.73	2086.15	-25.39	2086.15	2.17	-2.16	-0.25	MWD
10239.00	90.31	354.99	8314.59	2118.02	-28.26	2118.02	0.94	0.34	0.87	MWD
10270.00	90.94	355.28	8314.25	2148.90	-30.89	2148.90	2.24	2.03	0.94	MWD

Weatherford International, Inc.

Survey Report



Company: Yates Petroleum Field: Eddy Co., NM (NAD 83) Site: Haracz "Amo" Federal #8H Well: #8H Wellpath: 1	Date: 2/17/2009 Co-ordinate(NE) Reference: Well: #8H, Grid North Vertical (TVD) Reference: SITE 3562.0 Section (VS) Reference: Well (0.00N,0.00E,0.00Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
10302.00	91.51	355.29	8313.57	2180.79	-33.52	2180.79	1.78	1.78	0.03	MWD
10334.00	92.31	355.59	8312.50	2212.67	-36.07	2212.67	2.67	2.50	0.94	MWD
10366.00	93.00	355.87	8311.02	2244.55	-38.45	2244.55	2.33	2.16	0.87	MWD
10397.00	92.83	355.70	8309.44	2275.42	-40.72	2275.42	0.78	-0.55	-0.55	MWD
10429.00	92.54	356.14	8307.95	2307.30	-43.00	2307.30	1.65	-0.91	1.37	MWD
10461.00	91.74	357.02	8306.75	2339.23	-44.90	2339.23	3.72	-2.50	2.75	MWD
10492.00	90.37	358.07	8306.18	2370.19	-46.23	2370.19	5.57	-4.42	3.39	MWD
10524.00	90.09	358.68	8306.05	2402.18	-47.14	2402.18	2.10	-0.87	1.91	MWD
10556.00	90.43	359.06	8305.91	2434.17	-47.77	2434.17	1.59	1.06	1.19	MWD
10587.00	89.80	358.72	8305.84	2465.16	-48.37	2465.16	2.31	-2.03	-1.10	MWD
10619.00	89.12	358.30	8306.15	2497.15	-49.20	2497.15	2.50	-2.12	-1.31	MWD
10651.00	89.11	358.59	8306.64	2529.14	-50.07	2529.14	0.91	-0.03	0.91	MWD
10683.00	89.46	359.29	8307.04	2561.13	-50.66	2561.13	2.45	1.09	2.19	MWD
10714.00	89.57	0.28	8307.30	2592.13	-50.78	2592.13	3.21	0.35	3.19	MWD
10746.00	90.20	0.86	8307.37	2624.12	-50.46	2624.12	2.68	1.97	1.81	MWD
10778.00	90.26	1.27	8307.24	2656.12	-49.87	2656.12	1.29	0.19	1.28	MWD
10809.00	91.29	2.00	8306.82	2687.10	-48.98	2687.10	4.07	3.32	2.35	MWD
10841.00	91.23	2.04	8306.11	2719.07	-47.85	2719.07	0.23	-0.19	0.12	MWD
10873.00	91.40	1.55	8305.38	2751.05	-46.85	2751.05	1.62	0.53	-1.53	MWD
10905.00	91.00	0.72	8304.71	2783.04	-46.22	2783.04	2.88	-1.25	-2.59	MWD
10936.00	91.17	1.10	8304.12	2814.03	-45.73	2814.03	1.34	0.55	1.23	MWD
10968.00	91.23	0.91	8303.45	2846.02	-45.16	2846.02	0.62	0.19	-0.59	MWD
11000.00	90.26	0.34	8303.04	2878.01	-44.82	2878.01	3.52	-3.03	-1.78	MWD
11031.00	89.00	0.83	8303.24	2909.01	-44.50	2909.01	4.36	-4.06	1.58	MWD
11063.00	89.34	1.19	8303.70	2941.00	-43.93	2941.00	1.55	1.06	1.12	MWD
11095.00	89.11	0.85	8304.13	2972.99	-43.37	2972.99	1.28	-0.72	-1.06	MWD
11126.00	89.46	0.98	8304.52	3003.98	-42.87	3003.98	1.20	1.13	0.42	MWD
11158.00	90.71	1.16	8304.47	3035.98	-42.27	3035.98	3.95	3.91	0.56	MWD
11190.00	90.37	1.38	8304.17	3067.97	-41.56	3067.97	1.27	-1.06	0.69	MWD
11222.00	90.77	1.28	8303.85	3099.96	-40.82	3099.96	1.29	1.25	-0.31	MWD
11253.00	91.46	1.02	8303.25	3130.95	-40.20	3130.95	2.38	2.23	-0.84	MWD
11285.00	89.57	0.42	8302.96	3162.94	-39.80	3162.94	6.20	-5.91	-1.87	MWD
11317.00	88.14	0.66	8303.60	3194.93	-39.50	3194.93	4.53	-4.47	0.75	MWD
11349.00	88.77	0.47	8304.46	3226.92	-39.18	3226.92	2.06	1.97	-0.59	MWD
11380.00	88.31	0.32	8305.25	3257.91	-38.97	3257.91	1.56	-1.48	-0.48	MWD
11412.00	89.63	0.29	8305.83	3289.90	-38.80	3289.90	4.13	4.12	-0.09	MWD
11444.00	90.66	1.92	8305.75	3321.89	-38.18	3321.89	6.03	3.22	5.09	MWD
11475.00	91.23	2.15	8305.24	3352.87	-37.08	3352.87	1.98	1.84	0.74	MWD
11507.00	90.37	1.33	8304.79	3384.85	-36.11	3384.85	3.71	-2.69	-2.56	MWD
11538.00	89.11	1.44	8304.93	3415.84	-35.36	3415.84	4.08	-4.06	0.35	MWD
11570.00	89.00	1.55	8305.46	3447.83	-34.52	3447.83	0.49	-0.34	0.34	MWD
11602.00	89.46	0.74	8305.89	3479.82	-33.88	3479.82	2.91	1.44	-2.53	MWD
11633.00	88.60	0.74	8306.41	3510.81	-33.48	3510.81	2.77	-2.77	0.00	MWD
11665.00	87.97	0.38	8307.37	3542.79	-33.17	3542.79	2.27	-1.97	-1.12	MWD
11696.00	88.08	0.83	8308.44	3573.77	-32.84	3573.77	1.49	0.35	1.45	MWD
11729.00	88.72	0.48	8309.36	3606.76	-32.47	3606.76	2.21	1.94	-1.06	MWD
11760.00	88.77	0.74	8310.04	3637.75	-32.14	3637.75	0.85	0.16	0.84	MWD
11792.00	88.66	0.81	8310.76	3669.74	-31.70	3669.74	0.41	-0.34	0.22	MWD
11824.00	89.12	0.38	8311.38	3701.73	-31.37	3701.73	1.97	1.44	-1.34	MWD
11855.00	89.34	0.31	8311.79	3732.73	-31.18	3732.73	0.74	0.71	-0.23	MWD
11887.00	89.00	0.36	8312.26	3764.72	-31.00	3764.72	1.07	-1.06	0.16	MWD
11919.00	88.37	359.93	8312.99	3796.71	-30.92	3796.71	2.38	-1.97	-1.34	MWD
11950.00	88.77	0.16	8313.76	3827.70	-30.89	3827.70	1.49	1.29	0.74	MWD

Weatherford International, Inc.

Survey Report



Company: Yates Petroleum Field: Eddy Co., NM (NAD 83) Site: Haracz "Amo" Federal #8H Well: #8H Wellpath: 1	Date: 2/17/2009 Time: 10:07:02 Page: 4 Co-ordinate(NE) Reference: Well: #8H; Grid North Vertical (TVD) Reference: SITE 3562.0 Section (VS) Reference: Well (0.00N,0.00E,0.00Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DES deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
11982.00	88.83	0.37	8314.44	3859.70	-30.74	3859.70	0.68	0.19	0.66	MWD
12014.00	89.74	0.54	8314.83	3891.69	-30.49	3891.69	2.89	2.84	0.53	MWD
12046.00	89.74	0.90	8314.98	3923.69	-30.09	3923.69	1.12	0.00	1.12	MWD
12077.00	88.60	359.91	8315.43	3954.68	-29.87	3954.68	4.87	-3.68	-3.19	MWD
12109.00	88.03	358.84	8316.37	3986.67	-30.22	3986.67	3.79	-1.78	-3.34	MWD
12141.00	88.94	359.55	8317.22	4018.65	-30.67	4018.65	3.61	2.84	2.22	MWD
12172.00	89.51	359.63	8317.64	4049.65	-30.89	4049.65	1.86	1.84	0.26	MWD
12204.00	88.20	359.00	8318.27	4081.64	-31.27	4081.64	4.54	-4.09	-1.97	MWD
12236.00	87.91	358.67	8319.36	4113.62	-31.92	4113.62	1.37	-0.91	-1.03	MWD
12267.00	88.32	358.50	8320.38	4144.59	-32.69	4144.59	1.43	1.32	-0.55	MWD
12299.00	89.97	359.53	8320.86	4176.58	-33.24	4176.58	6.08	5.16	3.22	MWD
12331.00	90.03	359.32	8320.86	4208.58	-33.56	4208.58	0.68	0.19	-0.66	MWD
12362.00	88.43	358.51	8321.27	4239.57	-34.14	4239.57	5.78	-5.16	-2.61	MWD
12394.00	89.34	358.79	8321.90	4271.55	-34.90	4271.55	2.98	2.84	0.87	LAST SVY @ 12394' MD
12457.00	89.34	358.79	8322.62	4334.53	-36.23	4334.53	0.00	0.00	0.00	PROJ TO BIT

Annotation

MD ft	TVD ft	
12394.00	8321.90	LAST SVY @ 12394' MD
12457.00	8322.62	PROJ TO BIT