REALTIME LOG

NATURAL FORMATION EVALUATION
GAMMA RAY

BAKER HUGHES

Company: Kerr-McGee Oil & Gas Onshore LP
Well: Rattler 34N-3HZ
Field: Weld County (Kerr McGee)
Region: Continental US **Country:** United States

Scale: 1:240
TRUE VERTICAL DEPTH
Status: **Field Print**
API Number: 05-123-37076

Surface Location:
Latitude: 40° 10' 30.403" N
Longitude: 104° 46' 12.036" W
Section34 TWN: 3N Range:66E

Other Services:
Directional
VSS

Elevations:
KB: 4996.00 ft.
DF: N/A
GL: 4983.00 ft.

Permanent Datum (P.D.): Ground Level Elevation: 4983.00 ft.
Log Measured From: Kelly Bushing 13.00 ft. Above P.D.
Depth Reference: Driller's Depth

Interval Logged		Dates		Magnetic Field Reference	
Top:	6620.0 ft.	Date From:	26 Jul 13	Dip Angle:	67.02 °
Bottom:	12699.0 ft.	Date To:	31 Jul 13	Azi Reference North:	True
		Spud Date:	24 Jul 13	Total Field Strength:	52807.0 nT
				Mag to Reference North Correction:	8.52 °

Borehole Record

Hole Size	From	To
13.500 in.	Surface	825.0 ft.
8.750 in.	825.0 ft.	7743.0 ft.
6.125 in.	7743.0 ft.	12749.0 ft.

Casing Record

Size	Weight	From	To
9.625 in.	36.00 lb/ft	Surface	821.0 ft.
7.000 in.	26.00 lb/ft	Surface	7733ft.

Mud Record

Type	From	To
Water Based	Surface	12749ft.

Deviation Record

Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
8.750 in.	Intermediate	0.46° / 112.5 °	85.0 ° / 180.4 °
6.125 in.	Lateral	85.0 ° / 180.4°	85.15° / 180.4 °
		/	/
		/	/
		/	/
		/	/

Acquisition System	Software Version	Other	
Advantage	2.20U4	Rig / Contractor:	Ensign 145 / Ensign Drilling
PATS	6.4.1.34	Job No:	5609934
		District / Unit:	RMD /

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Log Run Summary

LWD Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval Top (ft.)	Logged Interval Bottom (ft.)	Bit Depth Interval From (ft.)	Bit Depth Interval To (ft.)	Date / Time Start	Date / Time End	Circ. Time (hrs.)
1	2	2	8.750	PDC	2.000	Steerable	6620.0	7693.0	825.0	7743.0	24 Jul 2013 08:43	27 Jul 2013 17:43	36.9
2	2	0	6.125	PDC	2.000	Steerable	7693.0	12699.0	7743.0	12749.0	29 Jul 2013 15:30	31 Jul 2013 01:14	50.9

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Ian McCarrell	23 Jul 2013	25 Jul 2013	Steven Cano	23 Jul 2013	01 Aug 2013	Tyler Wall	25 Jul 2013	01 Aug 2013
Ian McCarrell	01 Aug 2013	01 Aug 2013						

Mud Properties Record

Date / Time	LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides ppm	K+ %
25 Jul 2013 18:50	1	4359.0	Water Based	9.6	40	8.5	N/A	0.0 / 94.1	Flow line	1900	N/A
27 Jul 2013 07:04	1	7420.0	Water Based	9.8	37	8.0	N/A	0.0 / 94.1	Flow line	1900	N/A
30 Jul 2013 00:32	2	10443.0	Water Based	10.1	40	8.5	N/A	0.0 / 94.1	Flow line	2200	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray - Apparent, 0.5 ft. Avg.	API
ROPA	Rate of Penetration, 3.0 ft. Avg.	ft/hr
TCDX	Downhole Temperature	deg F
WOBA	Surface Weight On Bit, 1.0 ft. Avg.	klbs.

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	12546334	Directional	55.14	6.750	2.250
1	SRIG	12673191	Gamma	51.76	6.750	2.250
2	DIR	11954360	Directional	49.97	4.750	1.750
2	SRIG	12600748	Gamma	46.59	4.750	1.750

Service and Tool Mnemonics

Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

Comments

1) Baker Hughes INTEQ run 1 utilized 6 1/2 inch NaviGamma services (Directional, Gamma Ray, and VSS) behind an 8 3/4 inch bit and steerable assembly from 825 to 7743 feet MD (825 to 7290 feet TVD).

2) Baker Hughes INTEQ run 2 utilized 4 3/4 inch NaviGamma services (Directional, Gamma Ray, and VSS) behind a 6 1/8 inch bit and steerable assembly from 7290 to 12749 feet MD (7290 to 7332 feet TVD).

Remarks

Number	Measured Depth ft)	Hole Section (in.)	LWD Run No.	Remark
1	6625	8.750	1	The interval from surface to 6620 feet MD (6566 feet TVD) was not logged since logging services began at the curve kick off point of 6670 feet MD.
2	7750	6.125	2	The interval from 7693 to 7743 feet MD (7287 to 7290 feet TVD) was logged up to 40.1 hours after being drilled due to a trip out of hole to run casing, cement, and pick up lateral tools.

BAKER HUGHES
Company : Kerr-McGee Oil & Gas Onshore LP
Well : Rattler 34N-3HZ
Interval : 6550.00 - 7345.00 feet
Created : 31/Jul/2013 8:15:20 PM

ADVANTAGE Final Survey Listing

Operator : Kerr-McGee Oil & Gas Onshore LP
Well : Rattler 34N-3HZ
Wellbore : Rattler 34N-3HZ Orig Hole
Field : Weld County (Kerr McGee)
Rig : Ensign 145
API No : 05-123-37076
Job : 5609934

Well Origin

Latitude	40.1751 deg	Longitude	-104.7700 deg
North Reference	True	Drill Depth Zero	NULL
Vertical Datum is	Mean Sea Level	Vertical Datum to DDZ	4983.00 ft
Vertical Section North	0.00 ft	Vertical Section East	0.00 ft
Vertical Section Azimuth	180.5000 deg	Vertical Section Depth	0.00ft
Grid Convergence	0.0000 deg	Magnetic Declination	8.5200 deg
Total Correction	8.5200 deg	TVD Calculation Method	Minimal Curvature
D-Raw Calculation	Magcorr1	Local Magnetic Field	52807 nT
Local Magnetic Dip Angle	67.0200 deg	Local Gravity Field	9.798 m/s^2

Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
U	713.00	0.4600	112.5000	0.80	2.07	712.99	-0.81	1.07		0.06	0.06	15.78
	899.00	0.7100	225.5800	-0.29	1.94	898.99	0.28	2.17	186.00	0.53	0.13	60.80
	992.00	0.7900	220.3400	-1.18	1.11	991.98	1.17	3.39	93.00	0.11	0.09	-5.63
	1086.00	0.9800	211.0500	-2.37	0.28	1085.97	2.36	4.84	94.00	0.25	0.20	-9.88
	1180.00	1.8500	252.2600	-3.52	-1.58	1179.94	3.53	7.02	94.00	1.37	0.93	43.84
	1273.00	1.7700	277.5000	-3.79	-4.44	1272.90	3.83	9.89	93.00	0.85	-0.09	27.14
	1367.00	4.1900	281.8300	-2.89	-9.24	1366.76	2.97	14.77	94.00	2.58	2.57	4.61
	1461.00	5.7300	279.8000	-1.39	-17.22	1460.41	1.54	22.90	94.00	1.65	1.64	-2.16
	1554.00	7.1300	286.9100	1.08	-27.32	1552.82	-0.84	33.29	93.00	1.73	1.51	7.65
	1648.00	9.2200	282.6600	4.43	-40.25	1645.86	-4.07	46.65	94.00	2.31	2.22	-4.52
	1742.00	8.7400	277.1700	6.97	-54.69	1738.71	-6.49	61.31	94.00	1.04	-0.51	-5.84
	1835.00	9.9500	276.3100	8.73	-69.68	1830.47	-8.12	76.41	93.00	1.31	1.30	-0.92
	1929.00	9.6900	279.3300	10.91	-85.56	1923.10	-10.16	92.43	94.00	0.61	-0.28	3.21
	2019.00	10.4200	285.6300	14.33	-100.87	2011.72	-13.45	108.12	90.00	1.47	0.81	7.00
	2109.00	10.2000	283.0000	18.31	-116.48	2100.26	-17.30	124.23	90.00	0.58	-0.24	-2.92
	2199.00	9.8900	284.1000	21.99	-131.74	2188.89	-20.84	139.92	90.00	0.41	-0.34	1.22
	2289.00	9.1200	283.1500	25.49	-146.18	2277.65	-24.22	154.79	90.00	0.87	-0.86	-1.06
	2379.00	8.3300	282.0500	28.48	-159.50	2366.61	-27.09	168.44	90.00	0.90	-0.88	-1.22
	2469.00	9.8200	287.9800	32.21	-173.18	2455.48	-30.70	182.61	90.00	1.95	1.66	6.59
	2559.00	10.5500	282.5500	36.37	-188.52	2544.06	-34.72	198.51	90.00	1.34	0.81	-6.03
	2649.00	9.8000	280.0600	39.50	-204.11	2632.65	-37.71	214.41	90.00	0.97	-0.83	-2.77
	2739.00	10.1300	282.2600	42.52	-219.38	2721.29	-40.60	229.98	90.00	0.56	0.37	2.44
	2829.00	11.7200	282.6900	46.20	-236.03	2809.66	-44.14	247.03	90.00	1.77	1.77	0.48
	2919.00	11.4500	280.9800	49.91	-253.72	2897.82	-47.70	265.11	90.00	0.49	-0.30	-1.90
	3009.00	11.2000	279.7100	53.09	-271.11	2986.07	-50.72	282.78	90.00	0.39	-0.28	-1.41
	3099.00	10.4900	288.1400	57.11	-287.51	3074.47	-54.60	299.67	90.00	1.93	-0.79	9.37
	3189.00	10.1200	287.6200	62.06	-302.83	3163.02	-59.41	315.77	90.00	0.42	-0.41	-0.58
	3279.00	9.7400	286.8300	66.66	-317.65	3251.67	-63.88	331.29	90.00	0.45	-0.42	-0.88
	3369.00	8.8900	286.2900	70.81	-331.62	3340.48	-67.92	345.85	90.00	0.95	-0.94	-0.60
	3459.00	9.0100	281.8200	74.21	-345.19	3429.39	-71.19	359.85	90.00	0.78	0.13	-4.97
	3549.00	9.4500	277.9200	76.67	-359.40	3518.22	-73.53	374.27	90.00	0.85	0.49	-4.33
	3639.00	9.9400	278.6500	78.85	-374.40	3606.94	-75.58	389.43	90.00	0.56	0.54	0.81
	3729.00	9.6100	280.3100	81.37	-389.47	3695.63	-77.96	404.71	90.00	0.48	-0.37	1.84
	3819.00	9.9200	283.0200	84.46	-404.42	3784.32	-80.93	419.97	90.00	0.62	0.34	3.01
	3909.00	10.6300	287.9700	88.77	-419.87	3872.88	-85.10	436.01	90.00	1.26	0.79	5.50
	3999.00	9.5000	286.3800	93.42	-434.89	3961.50	-89.62	451.73	90.00	1.29	-1.26	-1.77
	4089.00	10.1500	288.8000	98.07	-449.52	4050.18	-94.14	467.09	90.00	0.86	0.72	2.69
	4179.00	11.9600	289.5500	103.75	-465.82	4138.50	-99.68	484.34	90.00	2.02	2.01	0.83
	4269.00	11.5200	288.7700	109.76	-483.11	4226.62	-105.54	502.66	90.00	0.52	-0.49	-0.87
	4359.00	10.1600	284.4500	114.63	-499.31	4315.01	-110.27	519.57	90.00	1.76	-1.51	-4.80
	4450.00	9.9800	285.5600	118.75	-514.68	4404.61	-114.26	535.48	91.00	0.29	-0.20	1.22
	4540.00	9.2800	288.7600	123.18	-529.06	4493.34	-118.56	550.53	90.00	0.98	-0.78	3.56
	4630.00	9.9300	288.9600	128.03	-543.27	4582.08	-123.29	565.55	90.00	0.72	0.72	0.22
	4720.00	9.2800	287.3900	132.72	-557.54	4670.82	-127.85	580.56	90.00	0.78	-0.72	-1.74
	4810.00	9.1400	287.6500	137.06	-571.27	4759.66	-132.07	594.97	90.00	0.16	-0.16	0.29
	4900.00	7.8200	279.6600	140.25	-584.12	4848.68	-135.15	608.21	90.00	1.96	-1.47	-8.88
	4990.00	6.9900	275.8800	141.84	-595.61	4937.93	-136.64	619.80	90.00	1.07	-0.92	-4.20
	5080.00	5.1400	267.6200	142.24	-605.08	5027.42	-136.95	629.29	90.00	2.27	-2.06	-9.18
	5170.00	3.3300	263.4000	141.77	-611.71	5117.17	-136.42	635.93	90.00	2.04	-2.01	-4.69
	5260.00	2.1700	249.4700	140.87	-615.90	5207.07	-135.49	640.21	90.00	1.48	-1.29	-15.48
	5350.00	0.5900	184.3100	139.81	-617.53	5297.04	-134.42	642.16	90.00	2.22	-1.76	-72.40
	5710.00	0.6900	198.7600	135.91	-618.37	5657.02	-130.51	646.15	360.00	0.05	0.03	4.01
	6070.00	0.5000	141.2000	132.63	-618.08	6017.00	-127.23	649.44	360.00	0.17	-0.05	-15.99
	6430.00	0.5500	151.9200	129.88	-616.28	6376.99	-124.50	652.72	360.00	0.03	0.01	2.98
	6691.00	0.8900	102.6400	128.33	-613.72	6637.97	-122.97	655.72	261.00	0.26	0.13	-18.88
	6790.00	3.4900	164.5800	125.26	-612.16	6736.90	-119.91	659.16	99.00	3.20	2.63	62.57
	6835.00	9.1300	174.1400	120.39	-611.44	6781.61	-115.04	664.09	45.00	12.71	12.53	21.24
	6880.00	14.4900	173.7100	111.23	-610.45	6825.64	-105.90	673.30	45.00	11.91	11.91	-0.96
	6925.00	19.6600	176.4200	98.07	-609.36	6868.64	-92.75	686.51	45.00	11.62	11.49	6.02
	6970.00	23.7800	178.3600	81.44	-608.63	6910.44	-76.13	703.15	45.00	9.29	9.16	4.31
	7015.00	28.6900	180.0500	61.56	-608.38	6950.79	-56.25	723.04	45.00	11.04	10.91	3.76
	7060.00	34.1900	181.0400	38.10	-608.62	6989.17	-32.78	746.50	45.00	12.28	12.22	2.20
	7105.00	37.9500	181.2600	11.61	-609.15	7025.53	-6.29	772.99	45.00	8.36	8.36	0.49
	7150.00	39.6500	181.8400	-16.57	-609.92	7060.60	21.90	801.19	45.00	3.86	3.78	1.29
	7195.00	42.1700	180.7100	-46.03	-610.57	7094.61	51.36	830.65	45.00	5.84	5.60	-2.51
	7240.00	47.3100	182.1100	-77.69	-611.36	7126.56	83.02	862.32	45.00	11.63	11.42	3.11
	7285.00	52.9900	182.6400	-112.19	-612.80	7155.39	117.53	896.85	45.00	12.65	12.62	1.18
	7330.00	57.6300	181.9600	-149.15	-614.28	7180.99	154.51	933.84	45.00	10.39	10.31	-1.51
	7375.00	61.2900	181.7200	-187.88	-615.52	7203.85	193.25	972.59	45.00	8.15	8.13	-0.53
	7420.00	65.3400	181.3200	-228.07	-616.59	7224.06	233.44	1012.79	45.00	9.04	9.00	-0.89
	7465.00	70.3400	181.4100	-269.72	-617.58	7241.03	275.10	1054.45	45.00	11.11	11.11	0.20
	7510.00	74.1400	181.9900	-312.55	-618.85	7254.75	317.93	1097.30	45.00	8.53	8.44	1.29
	7540.00	76.0100	181.6900	-341.52	-619.78	7262.48	346.91	1126.29	30.00	6.31	6.23	-1.00
	7570.00	77.6100	181.7400	-370.71	-620.66	7269.32	376.11	1155.49	30.00	5.34	5.33	0.17
	7600.00	79.7500	181.3900	-400.11	-621.46	7275.21	405.52	1184.91	30.00	7.22	7.13	-1.17
	7630.00	81.7200	181.0900	-429.72	-622.10	7280.04	435.13	1214.51	30.00	6.64	6.57	-1.00
	7660.00	82.8900	180.6200	-459.44	-622.54	7284.06	464.86	1244.24	30.00	4.20	3.90	-1.57
	7690.00	84.9900	180.3600	-489.27	-622.80	7287.22	494.69	1274.07	30.00	7.05	7.00	-0.87
	7787.00	89.4700	180.6700	-586.13	-623.67	7291.91	591.55	1370.94	97.00	4.63	4.62	0.32
	7877.00	88.9800	179.3800	-676.12	-623.71	7293.13	681.54	1460.93	90.00	1.53	-0.54	-1.43
	7967.00	89.0700	180.1900	-766.10	-623.37	7294.66	771.51	1550.91	90.00	0.91	0.10	0.90
	8057.00	88.4800	178.9200	-856.08	-622.67	7296.58	861.48	1640.89	90.00	1.56	-0.66	-1.41
	8147.00	89.1900	179.7400	-946.05	-621.62	7298.41	951.44	1730.87	90.00	1.21	0.79	0.91
	8237.00	89.8400	180.2300	-1036.05	-621.60	7299.18	1041.43	1820.87	90.00	0.90	0.72	0.54
	8327.00	90.4300	180.4700	-1126.05	-622.15	7298.96	1131.43	1910.86	90.00	0.71	0.66	0.27
	8417.00	90.4300	179.5700	-1216.04	-622.18	7298.29	1221.43	2000.86	90.00	1.00	0.00	-1.00
	8507.00	90.3300	179.1200	-1306.03	-621.15	7297.69	1311.40	2090.86	90.00	0.51	-0.11	-0.50
	8597.00	92.6200	180.5500	-1396.00	-620.89	7295.37	1401.36	2180.82	90.00	3.00	2.54	1.59
	8687.00	90.8000	179.9700	-1485.95	-621.30	7292.69	1491.32	2270.78	90.00	2.12	-2.02	-0.64
	8777.00	90.6400	179.3900	-1575.94	-620.79	7291.56	1581.30	2360.77	90.00	0.67	-0.18	-0.64
	8867.00	90.7100	179.1600	-1665.93	-619.66	7290.50	1671.27	2450.76	90.00	0.27	0.08	-0.26
	8957.00	90.0300	180.4500	-1755.92	-619.35	7289.92	1761.26	2540.76	90.00	1.62	-0.76	1.43
	9047.00	90.6400	180.6500	-1845.92	-620.21	7289.39	1851.26	2630.76	90.00	0.71	0.68	0.22
	9137.00	89.5000	181.8500	-1935.89	-622.18	7289.28	1941.25	2720.75	90.00	1.84	-1.27	1.33
	9317.00	90.0000	181.6600	-2115.81	-627.69	7290.07	2121.21	2900.75	180.00	0.30	0.28	-0.11
	9497.00	89.5600	180.9000	-2295.76	-631.71	7290.76	2301.18	3080.75	180.00	0.49	-0.24	-0.42
	9677.00	89.1900	180.9700	-2475.72	-634.65	7292.72	2481.17	3260.74	180.00	0.21	-0.21	0.04
	9857.00	91.1700	181.4500	-2655.67	-638.45	7292.15	2661.14	3440.73	180.00	1.13	1.10	0.27
	10037.00	91.3500	180.3200	-2835.60	-641.23	7288.20	2841.09	3620.68	180.00	0.64	0.10	-0.63
	10217.00	90.0300	179.1100	-3015.58	-640.33	7286.03	3021.05	3800.66	180.00	0.99	-0.73	-0.67
	10307.00	89.9300	180.0300	-3105.58	-639.66	7286.06	3111.04	3890.66	90.00	1.03	-0.11	1.02
	10397.00	89.5000	180.5100	-3195.58	-640.08	7286.51	3201.04	3980.66	90.00	0.72	-0.48	0.53
	10487.00	89.5000	180.1900	-3285.57	-640.63	7287.29	3291.04	4070.65	90.00	0.36	0.00	-0.36
	10578.00	88.8200	179.9100	-3376.56	-640.71	7288.63	3382.02	4161.64	91.00	0.81	-0.75	-0.31
	10668.00	89.5000	180.1400	-3466.55	-640.75	7289.95	3472.01	4251.63	90.00	0.80	0.76	0.26
	10757.00	88.9400	178.9900	-3555.54	-640.07	7291.16	3560.99	4340.62	89.00	1.44	-0.63	-1.29
	10847.00	89.5900	179.2900	-3645.52	-638.72	7292.31	3650.95	4430.61	90.00	0.80	0.72	0.33
	10937.00	89.6200	179.2700	-3735.51	-637.59	7292.93	3740.93	4520.61	90.00	0.04	0.03	-0.02
	11027.00	91.1700	180.5700	-3825.50	-637.47	7292.31	3830.92	4610.61	90.00	2.25	1.72	1.44
	11117.00	90.8900	179.8000	-3915.49	-637.76	7290.70	3920.90	4700.59	90.00	0.91	-0.31	-0.86
	11207.00	90.2400	181.0200	-4005.48	-638.40	7289.81	4010.90	4790.58	90.00	1.54	-0.72	1.36
	11297.00	90.3000	180.2800	-4095.47	-639.42	7289.38	4100.89	4880.58	90.00	0.82	0.07	-0.82
	11387.00	90.8900	182.3400	-4185.44	-641.48	7288.45	4190.88	4970.57	90.00	2.38	0.66	2.29
	11477.00	89.7200	181.0900	-4275.39	-644.17	7287.97	4280.85	5060.57	90.00	1.90	-1.30	-1.39
	11568.00	89.7500	181.5800	-4366.37	-646.29	7288.39	4371.84	5151.57	91.00	0.54	0.03	0.54
	11748.00	89.6600	179.9200	-4546.34	-648.65	7289.32	4551.83	5331.56	180.00	0.92	-0.05	-0.92
	11927.00	89.3800	180.1500	-4725.34	-648.76	7290.82	4730.82	5510.55	179.00	0.20	-0.16	0.13
	12018.00	88.9500	180.9800	-4816.32	-649.66	7292.14	4821.81	5601.54	91.00	1.03	-0.47	0.91
	12108.00	87.8700	180.7700	-4906.27	-651.03	7294.64	4911.77	5691.50	90.00	1.22	-1.20	-0.23
	12198.00	88.3000	180.6500	-4996.22	-652.14	7297.65	5001.72	5781.45	90.00	0.50	0.48	-0.13
	12288.00	87.2500	181.7200	-5086.13	-654.00	7301.14	5091.64	5871.38	90.00	1.67	-1.17	1.19
	12378.00	86.9100	181.4300	-5175.98	-656.47	7305.73	5181.51	5961.27	90.00	0.50	-0.38	-0.32
	12468.00	86.4800	180.9100	-5265.81	-658.31	7310.92	5271.35	6051.12	90.00	0.75	-0.48	-0.58
	12557.00	86.0200	180.3800	-5354.61	-659.31	7316.74	5360.16	6139.92	89.00	0.79	-0.52	-0.60
	12648.00	85.4500	180.6100	-5445.35	-660.09	7323.50	5450.91	6230.67	91.00	0.68	-0.63	0.25
	12698.00	85.1500	180.4200	-5495.18	-660.54	7327.60	5500.74	6280.50	50.00	0.71	-0.60	-0.38
Projection to TD:	12749.00	85.1500	180.4200	-5546.00	-660.91	7331.91	5551.56	6331.32	51.00	0.00	0.00	0.00