



Well Name: Kaiser 921-10

Surface Location: Kaiser Pad Sec.10-T6N-R65W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4773.0
Easting Latitude Longitude Slot
1426987.55 3235996.42 40.502382 -104.651353
Original Well Elev WELL @ 4789.0ft (Original Well Elev)

+N/-S +E/-W
0.0 0.0

Northing
1426987.55

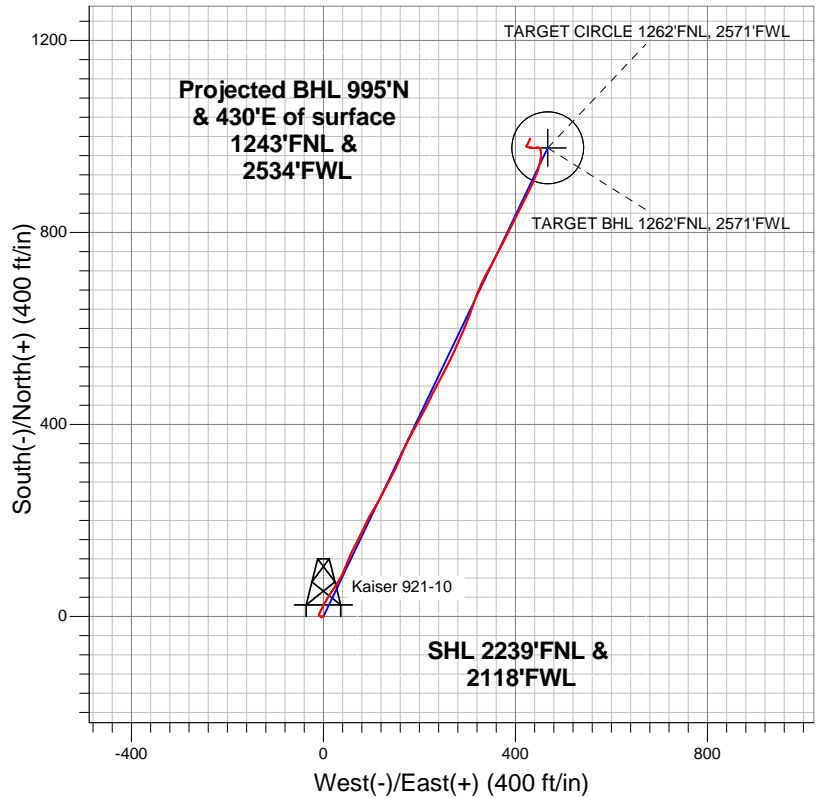
Easting
3235996.42

Latitude
40.502382

Longitude
-104.651353

Slot

BAYSWATER EXPLORATION & PRODUCTION



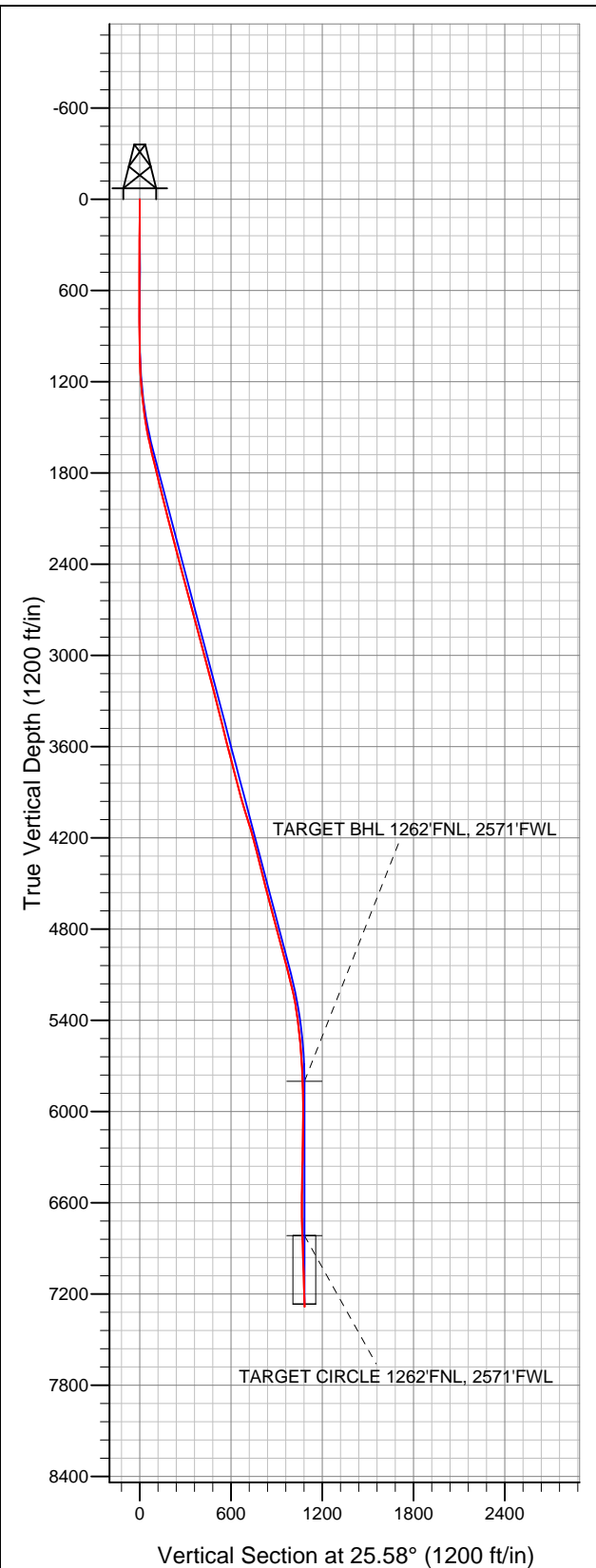
LEGEND

- △ Kaiser 921-10, Wellbore #1, Plan #1 (12-13-12) R V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7415'MD & 7283'TVD @ 1084'VS
1.60 deg Inc 9.50 deg AZ

Project: SEC.10-T6N-R65W
Site: Kaiser Pad Sec.10-T6N-R65W
Well: Kaiser 921-10
Plan: Wellbore #1





BAYSWATER EXPLORATION & PRODUCTION

SEC.10-T6N-R65W

Kaiser Pad Sec.10-T6N-R65W

Kaiser 921-10

Wellbore #1

Survey: Survey #1

Standard Survey Report

21 December, 2012

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well Kaiser 921-10
Project:	SEC.10-T6N-R65W	TVD Reference:	WELL @ 4789.0ft (Original Well Elev)
Site:	Kaiser Pad Sec.10-T6N-R65W	MD Reference:	WELL @ 4789.0ft (Original Well Elev)
Well:	Kaiser 921-10	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,108.0	2.10	31.80	1,107.8	6.7	-8.2	2.5	1.21	0.32	34.73
1,202.0	4.20	25.50	1,201.7	11.3	-5.8	7.7	2.26	2.23	-6.70
1,296.0	6.00	27.80	1,295.3	18.7	-2.0	16.0	1.93	1.91	2.45
1,389.0	7.10	27.60	1,387.7	28.1	2.9	26.6	1.18	1.18	-0.22
1,483.0	9.80	30.30	1,480.6	40.2	9.6	40.4	2.90	2.87	2.87
1,577.0	12.00	36.40	1,572.9	54.9	19.5	58.0	2.64	2.34	6.49
1,670.0	13.20	29.70	1,663.7	72.0	30.5	78.0	2.03	1.29	-7.20
1,764.0	14.20	24.60	1,755.0	91.8	40.6	100.3	1.67	1.06	-5.43
1,858.0	13.40	22.10	1,846.3	112.3	49.5	122.7	1.06	-0.85	-2.66
1,951.0	13.80	25.00	1,936.7	132.4	58.2	144.5	0.85	0.43	3.12
2,045.0	15.30	27.40	2,027.7	153.5	68.7	168.1	1.72	1.60	2.55
2,139.0	14.20	25.80	2,118.6	174.9	79.4	192.1	1.25	-1.17	-1.70
2,233.0	13.30	25.30	2,209.9	195.1	89.0	214.4	0.97	-0.96	-0.53
2,326.0	15.10	31.50	2,300.1	215.1	99.9	237.2	2.53	1.94	6.67
2,420.0	14.90	30.60	2,390.9	235.9	112.5	261.4	0.33	-0.21	-0.96
2,514.0	15.30	25.50	2,481.6	257.5	124.0	285.8	1.48	0.43	-5.43
2,607.0	14.20	27.80	2,571.6	278.7	134.6	309.5	1.34	-1.18	2.47
2,701.0	14.90	27.80	2,662.5	299.6	145.6	333.1	0.74	0.74	0.00
2,795.0	14.60	23.20	2,753.4	321.2	155.9	357.0	1.29	-0.32	-4.89
2,888.0	15.50	23.90	2,843.3	343.3	165.5	381.1	0.99	0.97	0.75
2,982.0	15.20	26.50	2,933.9	365.8	176.1	406.0	0.80	-0.32	2.77
3,076.0	15.30	28.80	3,024.6	387.7	187.6	430.7	0.65	0.11	2.45
3,169.0	14.90	28.60	3,114.4	409.0	199.2	454.9	0.43	-0.43	-0.22
3,263.0	15.20	27.10	3,205.2	430.5	210.6	479.3	0.52	0.32	-1.60
3,357.0	14.40	26.20	3,296.0	452.0	221.4	503.3	0.89	-0.85	-0.96
3,450.0	13.20	27.40	3,386.4	471.8	231.4	525.5	1.33	-1.29	1.29
3,544.0	13.60	28.10	3,477.8	491.1	241.5	547.2	0.46	0.43	0.74
3,638.0	14.90	27.80	3,568.9	511.5	252.4	570.4	1.39	1.38	-0.32
3,732.0	14.70	25.30	3,659.8	533.0	263.1	594.4	0.71	-0.21	-2.66
3,825.0	13.60	24.60	3,750.0	553.6	272.7	617.1	1.20	-1.18	-0.75
3,919.0	14.80	24.40	3,841.1	574.6	282.3	640.1	1.28	1.28	-0.21
4,013.0	15.70	23.20	3,931.8	597.2	292.2	664.9	1.01	0.96	-1.28
4,106.0	16.90	20.20	4,021.0	621.5	301.9	690.9	1.58	1.29	-3.23
4,200.0	17.50	19.50	4,110.8	647.6	311.3	718.5	0.68	0.64	-0.74
4,293.0	15.40	21.60	4,200.0	672.3	320.5	744.8	2.35	-2.26	2.26
4,387.0	14.10	24.30	4,290.9	694.3	329.8	768.7	1.56	-1.38	2.87
4,481.0	14.30	29.70	4,382.1	714.8	340.3	791.7	1.42	0.21	5.74
4,575.0	13.50	27.40	4,473.3	734.7	351.1	814.2	1.03	-0.85	-2.45
4,668.0	15.20	26.20	4,563.4	755.2	361.5	837.3	1.86	1.83	-1.29
4,762.0	15.30	27.80	4,654.1	777.3	372.7	862.0	0.46	0.11	1.70
4,856.0	14.70	28.60	4,744.9	798.7	384.2	886.3	0.68	-0.64	0.85
4,950.0	13.70	26.40	4,836.0	819.2	394.8	909.3	1.21	-1.06	-2.34
5,043.0	15.50	24.40	4,926.0	840.3	404.9	932.8	2.01	1.94	-2.15
5,137.0	14.90	27.20	5,016.7	862.5	415.6	957.4	1.01	-0.64	2.98
5,231.0	15.00	27.40	5,107.5	884.1	426.7	981.7	0.12	0.11	0.21
5,324.0	12.60	24.30	5,197.8	904.0	436.4	1,003.8	2.70	-2.58	-3.33
5,418.0	9.70	20.00	5,290.1	920.8	443.4	1,022.0	3.21	-3.09	-4.57
5,512.0	7.70	16.70	5,383.0	934.3	447.9	1,036.1	2.19	-2.13	-3.51
5,605.0	6.50	13.40	5,475.3	945.4	450.9	1,047.4	1.36	-1.29	-3.55
5,699.0	5.10	6.00	5,568.8	954.7	452.6	1,056.5	1.69	-1.49	-7.87
5,793.0	4.10	359.80	5,662.5	962.2	453.0	1,063.5	1.19	-1.06	-6.60
5,886.0	3.20	350.90	5,755.3	968.1	452.6	1,068.6	1.14	-0.97	-9.57
5,930.9	2.81	346.67	5,800.1	970.4	452.1	1,070.5	1.00	-0.88	-9.42

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
TARGET BHL 1262'FNL, 2571'FWL									
5,980.0	2.40	340.50	5,849.2	972.5	451.5	1,072.2	1.00	-0.83	-12.57
6,074.0	2.20	318.00	5,943.1	975.7	449.6	1,074.2	0.98	-0.21	-23.94
6,167.0	1.80	259.30	6,036.1	976.8	447.0	1,074.0	2.14	-0.43	-63.12
6,261.0	1.50	248.20	6,130.0	976.1	444.4	1,072.3	0.46	-0.32	-11.81
6,355.0	1.30	272.60	6,224.0	975.7	442.2	1,070.9	0.66	-0.21	25.96
6,449.0	2.50	273.20	6,317.9	975.8	439.1	1,069.8	1.28	1.28	0.64
6,542.0	3.90	276.50	6,410.8	976.3	433.9	1,067.9	1.52	1.51	3.55
6,636.0	3.70	280.70	6,504.6	977.2	427.8	1,066.1	0.36	-0.21	4.47
6,730.0	1.80	288.50	6,598.5	978.2	423.4	1,065.2	2.06	-2.02	8.30
6,823.0	1.20	28.10	6,691.4	979.6	422.5	1,066.0	2.50	-0.65	107.10
6,917.0	1.70	32.20	6,785.4	981.6	423.7	1,068.3	0.54	0.53	4.36
6,947.2	1.73	34.07	6,815.6	982.4	424.2	1,069.2	0.21	0.10	6.19
TARGET CIRCLE 1262'FNL, 2571'FWL									
7,011.0	1.80	37.80	6,879.4	984.0	425.3	1,071.1	0.21	0.11	5.85
7,104.0	1.80	29.40	6,972.3	986.4	426.9	1,074.0	0.28	0.00	-9.03
7,198.0	1.80	19.70	7,066.3	989.1	428.1	1,077.0	0.32	0.00	-10.32
7,292.0	1.90	21.10	7,160.2	991.9	429.2	1,080.0	0.12	0.11	1.49
7,385.0	1.60	9.50	7,253.2	994.6	430.0	1,082.8	0.50	-0.32	-12.47
7,415.0	1.60	9.50	7,283.2	995.4	430.1	1,083.6	0.00	0.00	0.00

Wellbore Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
TARGET BHL 1262'F	0.00	0.00	5,800.0	976.0	467.2	1,427,967.97	3,236,454.23	40.505061	-104.649673
- survey misses target center by 16.1ft at 5930.9ft MD (5800.1 TVD, 970.4 N, 452.1 E)									
- Point									
TARGET CIRCLE 1262'F	0.00	0.00	6,815.0	976.0	467.2	1,427,967.97	3,236,454.23	40.505061	-104.649673
- survey misses target center by 43.5ft at 6947.1ft MD (6815.5 TVD, 982.4 N, 424.2 E)									
- Circle (radius 75.0)									

Checked By: _____	Approved By: _____	Date: _____
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