



# **Bayswater**

**Windsor**

**Fairmeadows 3-30**

**Fairmeadows 3-30**

**Fairmeadows 3-30**

**Design: Fairmeadows 3-30**

## **Standard Survey Report**

**03 August, 2015**

<b>Company:</b> Bayswater	<b>Local Co-ordinate Reference:</b> Well Fairmeadows 3-30
<b>Project:</b> Windsor	<b>TVD Reference:</b> WELL @ 4650.00ft (Original Well Elev)
<b>Site:</b> Fairmeadows 3-30	<b>MD Reference:</b> WELL @ 4650.00ft (Original Well Elev)
<b>Well:</b> Fairmeadows 3-30	<b>North Reference:</b> True
<b>Wellbore:</b> Fairmeadows 3-30	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Fairmeadows 3-30	<b>Database:</b> Compass DB Connection

<b>Project</b> Windsor, Colorado		
<b>Map System:</b> US State Plane 1983	<b>System Datum:</b> Mean Sea Level	
<b>Geo Datum:</b> North American Datum 1983		
<b>Map Zone:</b> Colorado Central Zone	Using geodetic scale factor	

<b>Site</b> Fairmeadows 3-30			
<b>Site Position:</b>	<b>Northing:</b> 1,956,637.668 usft	<b>Latitude:</b> 40.455400	
<b>From:</b> Lat/Long	<b>Easting:</b> 3,282,113.390 usft	<b>Longitude:</b> -104.486470	
<b>Position Uncertainty:</b> 0.00 ft	<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> 0.64 °	

<b>Well</b> Fairmeadows 3-30			
<b>Well Position</b>	<b>+N/-S</b> 0.00 ft	<b>Northing:</b> 1,956,637.668 usft	<b>Latitude:</b> 40.455400
	<b>+E/-W</b> 0.00 ft	<b>Easting:</b> 3,282,113.390 usft	<b>Longitude:</b> -104.486470
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b> 4,650.00 ft	<b>Ground Level:</b> 4,650.00 ft

<b>Wellbore</b> Fairmeadows 3-30					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/3/2015	8.26	66.99	52,666

<b>Design</b> Fairmeadows 3-30				
<b>Audit Notes:</b>				
<b>Version:</b> 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b> 0.00		
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	64.14

<b>Survey Program</b>		<b>Date</b> 8/3/2015
From (ft)	To (ft)	Survey (Wellbore)
100.00	6,690.00	Fairmeadows 3-30 (Fairmeadows 3-30)
		<b>Tool Name</b> NS-GYRO-MS
		<b>Description</b> North sensing gyrocompassing m/s

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.48	74.06	100.00	0.12	0.40	0.41	0.48	0.48	0.00
200.00	0.48	72.94	200.00	0.35	1.21	1.24	0.01	0.00	-1.12
300.00	0.54	72.34	299.99	0.62	2.06	2.12	0.06	0.06	-0.60
400.00	0.44	87.02	399.99	0.78	2.89	2.94	0.16	-0.10	14.68
500.00	0.36	82.94	499.99	0.84	3.58	3.59	0.08	-0.08	-4.08
600.00	0.33	64.66	599.98	1.00	4.16	4.18	0.11	-0.03	-18.28
700.00	0.34	49.40	699.98	1.32	4.64	4.75	0.09	0.01	-15.26
800.00	0.29	55.91	799.98	1.65	5.08	5.29	0.06	-0.05	6.51
900.00	0.22	17.60	899.98	1.98	5.34	5.67	0.18	-0.07	-38.31

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<b>Site:</b>	Fairmeadows 3-30	<b>MD Reference:</b>	WELL @ 4650.00ft (Original Well Elev)
<b>Well:</b>	Fairmeadows 3-30	<b>North Reference:</b>	True
<b>Wellbore:</b>	Fairmeadows 3-30	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Fairmeadows 3-30	<b>Database:</b>	Compass DB Connection

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,000.00	0.22	35.69	999.98	2.32	5.51	5.97	0.07	0.00	18.09	
1,100.00	0.37	356.00	1,099.98	2.80	5.60	6.26	0.24	0.15	-39.69	
1,200.00	0.41	13.63	1,199.98	3.47	5.66	6.61	0.13	0.04	17.63	
1,300.00	0.44	11.25	1,299.97	4.19	5.82	7.07	0.03	0.03	-2.38	
1,400.00	0.28	15.60	1,399.97	4.80	5.96	7.46	0.16	-0.16	4.35	
1,500.00	0.40	33.62	1,499.97	5.33	6.22	7.92	0.16	0.12	18.02	
1,600.00	0.21	45.46	1,599.97	5.75	6.55	8.40	0.20	-0.19	11.84	
1,700.00	0.12	314.18	1,699.97	5.95	6.60	8.54	0.24	-0.09	-91.28	
1,800.00	0.11	222.99	1,799.97	5.95	6.46	8.41	0.16	-0.01	-91.19	
1,900.00	0.18	227.29	1,899.97	5.77	6.28	8.17	0.07	0.07	4.30	
2,000.00	0.50	243.39	1,999.96	5.47	5.78	7.58	0.33	0.32	16.10	
2,100.00	0.36	241.49	2,099.96	5.13	5.11	6.83	0.14	-0.14	-1.90	
2,200.00	0.41	227.84	2,199.96	4.74	4.57	6.18	0.10	0.05	-13.65	
2,300.00	0.61	260.27	2,299.96	4.41	3.78	5.32	0.34	0.20	32.43	
2,400.00	0.41	258.57	2,399.95	4.25	2.90	4.46	0.20	-0.20	-1.70	
2,500.00	0.60	274.70	2,499.95	4.22	2.03	3.67	0.24	0.19	16.13	
2,600.00	0.55	270.19	2,599.94	4.26	1.03	2.78	0.07	-0.05	-4.51	
2,700.00	0.57	260.20	2,699.94	4.18	0.06	1.88	0.10	0.02	-9.99	
2,800.00	0.39	263.56	2,799.93	4.06	-0.77	1.08	0.18	-0.18	3.36	
2,900.00	0.58	238.68	2,899.93	3.75	-1.54	0.25	0.28	0.19	-24.88	
3,000.00	0.49	253.27	2,999.93	3.37	-2.38	-0.67	0.16	-0.09	14.59	
3,100.00	0.51	240.52	3,099.92	3.03	-3.18	-1.54	0.11	0.02	-12.75	
3,200.00	0.61	202.11	3,199.92	2.31	-3.77	-2.38	0.38	0.10	-38.41	
3,300.00	0.75	179.89	3,299.91	1.17	-3.97	-3.06	0.30	0.14	-22.22	
3,400.00	0.82	171.86	3,399.90	-0.20	-3.86	-3.56	0.13	0.07	-8.03	
3,500.00	0.88	157.18	3,499.89	-1.61	-3.46	-3.82	0.23	0.06	-14.68	
3,600.00	0.86	170.52	3,599.88	-3.06	-3.04	-4.07	0.20	-0.02	13.34	
3,700.00	0.84	168.05	3,699.87	-4.52	-2.77	-4.46	0.04	-0.02	-2.47	
3,800.00	0.99	161.62	3,799.86	-6.05	-2.34	-4.75	0.18	0.15	-6.43	
3,900.00	0.74	165.07	3,899.84	-7.50	-1.90	-4.98	0.26	-0.25	3.45	
4,000.00	0.38	196.98	3,999.84	-8.44	-1.83	-5.33	0.46	-0.36	31.91	
4,100.00	0.33	195.24	4,099.84	-9.03	-2.01	-5.75	0.05	-0.05	-1.74	
4,200.00	0.87	239.88	4,199.83	-9.69	-2.74	-6.69	0.68	0.54	44.64	
4,300.00	1.17	263.75	4,299.82	-10.19	-4.41	-8.41	0.51	0.30	23.87	
4,400.00	1.02	246.76	4,399.80	-10.65	-6.24	-10.26	0.36	-0.15	-16.99	
4,500.00	0.84	265.01	4,499.79	-11.06	-7.79	-11.84	0.34	-0.18	18.25	
4,600.00	0.66	269.38	4,599.78	-11.13	-9.10	-13.04	0.19	-0.18	4.37	
4,700.00	0.79	332.11	4,699.77	-10.53	-10.00	-13.59	0.76	0.13	62.73	
4,800.00	1.00	343.90	4,799.76	-9.08	-10.56	-13.46	0.28	0.21	11.79	
4,900.00	0.86	340.73	4,899.75	-7.54	-11.05	-13.23	0.15	-0.14	-3.17	
5,000.00	0.93	8.38	4,999.73	-6.02	-11.18	-12.69	0.43	0.07	27.65	
5,100.00	0.70	49.25	5,099.72	-4.82	-10.60	-11.64	0.61	-0.23	40.87	
5,200.00	0.61	53.43	5,199.72	-4.11	-9.71	-10.53	0.10	-0.09	4.18	
5,300.00	0.72	61.60	5,299.71	-3.49	-8.73	-9.38	0.14	0.11	8.17	

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Survey										
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5,400.00	1.07	72.24	5,399.70	-2.91	-7.29	-7.82	0.39	0.35	10.64	
5,500.00	1.24	88.81	5,499.68	-2.60	-5.32	-5.92	0.37	0.17	16.57	
5,600.00	1.26	64.79	5,599.66	-2.11	-3.24	-3.83	0.52	0.02	-24.02	
5,700.00	1.36	75.50	5,699.63	-1.34	-1.10	-1.57	0.26	0.10	10.71	
5,800.00	1.42	88.29	5,799.60	-1.01	1.29	0.72	0.32	0.06	12.79	
5,900.00	1.52	79.40	5,899.57	-0.73	3.83	3.13	0.25	0.10	-8.89	
6,000.00	1.68	57.14	5,999.53	0.31	6.37	5.87	0.64	0.16	-22.26	
6,100.00	1.65	54.78	6,099.49	1.94	8.78	8.74	0.07	-0.03	-2.36	
6,200.00	1.35	11.70	6,199.46	3.92	10.19	10.88	1.14	-0.30	-43.08	
6,300.00	0.09	9.48	6,299.45	5.15	10.44	11.64	1.26	-1.26	-2.22	
6,400.00	0.65	211.12	6,399.44	4.74	10.16	11.21	0.73	0.56	-158.36	
6,500.00	0.77	221.47	6,499.44	3.75	9.42	10.12	0.18	0.12	10.35	
6,600.00	0.45	26.26	6,599.43	3.60	9.15	9.81	1.21	-0.32	164.79	
6,690.00	0.96	19.14	6,689.43	4.63	9.56	10.62	0.57	0.57	-7.91	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_