

PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: **Sorin Natural Resources 2R-323**

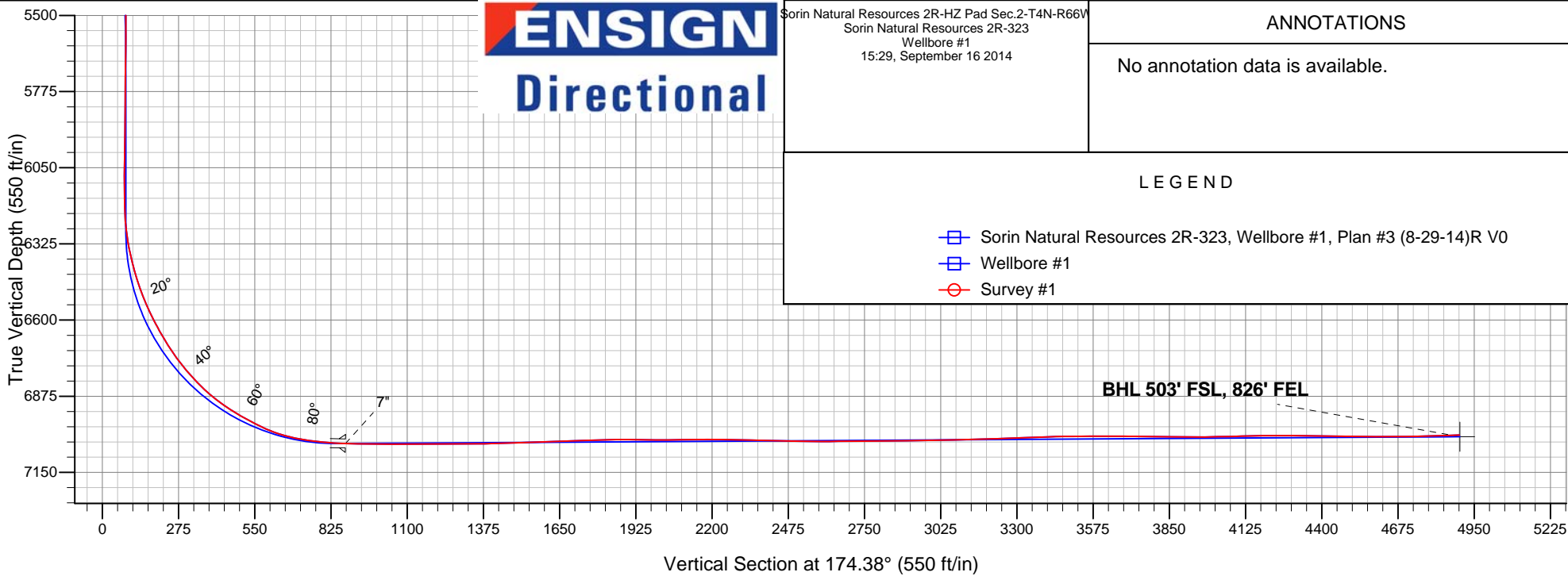
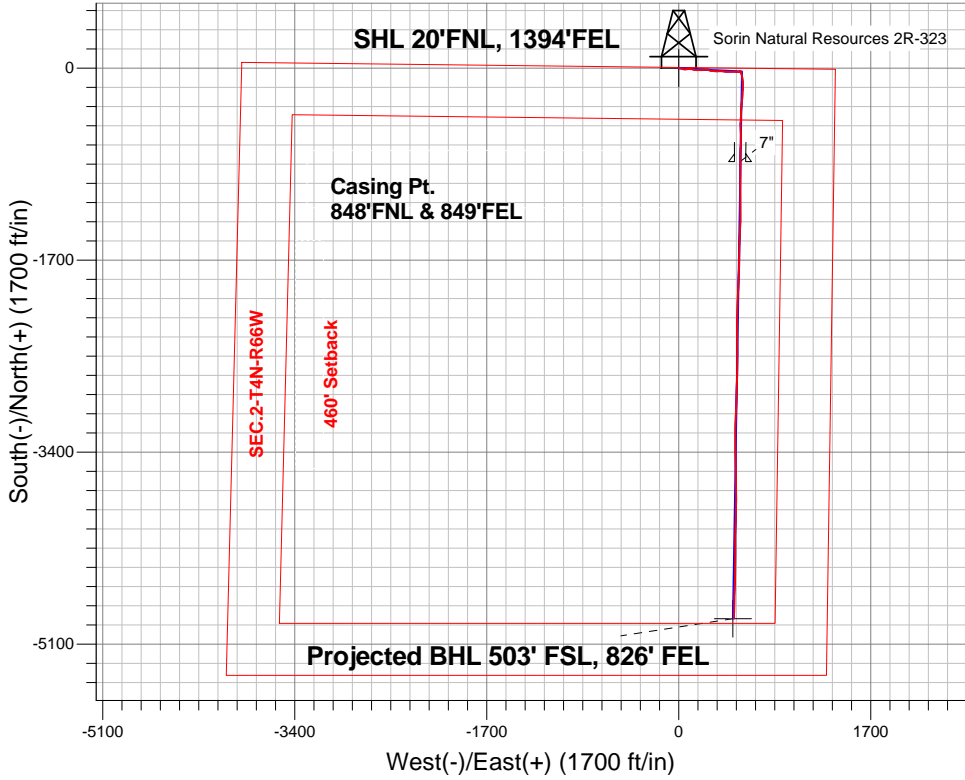
Surface Location: Sorin Natural Resources 2R-HZ Pad Sec.2-T4N-R66W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4671.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1370685.69	3211898.73	40.348440	-104.739740	
Ensign Rig #136 - RKB 12.5' WELL @ 4684 ft (Ensign Rig #136 - RKB 13')						

FINAL SURVEY

Projected Bottom Hole Location  
11570'MD 7015'TVD 4872'S & 487'E of SHL  
91.9 degree Incl @ 181.7 degree AZM





# **PETROLEUM DEVELOPMENT CORP Weld County CO**

**SEC.2-T4N-R66W**

**Sorin Natural Resources 2R-HZ Pad Sec.2-T4N-R66W**

**Sorin Natural Resources 2R-323**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**16 September, 2014**

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Sorin Natural Resources 2R-323
<b>Project:</b>	SEC.2-T4N-R66W	<b>TVD Reference:</b>	WELL @ 4683.5ft (Ensign Rig #136 - RKB 12.5')
<b>Site:</b>	Sorin Natural Resources 2R-HZ Pad Sec.2-T4N-R66W	<b>MD Reference:</b>	WELL @ 4683.5ft (Ensign Rig #136 - RKB 12.5')
<b>Well:</b>	Sorin Natural Resources 2R-323	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

<b>Project</b>	SEC.2-T4N-R66W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site	Sorin Natural Resources 2R-HZ Pad Sec.2-T4N-R66W				
Site Position:		Northing:	1,370,685.98 ft	Latitude:	40.348440
From:	Lat/Long	Easting:	3,211,929.38 ft	Longitude:	-104.739630
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.49 °

Well	Sorin Natural Resources 2R-323					
Well Position	+N-S	0.0 ft	Northing:	1,370,685.69 ft	Latitude:	40.348440
	+E-W	0.0 ft	Easting:	3,211,898.73 ft	Longitude:	-104.739740
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,671.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	8/29/2014	8.41	66.90	52,770

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N-S (ft)</b>	<b>+E-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	174.38	

<b>Survey Program</b>	<b>Date</b> 9/16/2014				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
73.0	11,570.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</b>									
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N-S (ft)</b>	<b>+E-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.01	50.60	1.0	0.0	0.0	0.0	0.68	0.68	0.00
<b>SHL 20'FNL, 1394'FEL</b>									
73.0	0.50	50.60	73.0	0.2	0.2	-0.2	0.68	0.68	0.00
162.0	0.50	55.00	162.0	0.7	0.9	-0.6	0.04	0.00	4.94
257.0	0.60	85.10	257.0	1.0	1.7	-0.8	0.32	0.11	31.68
347.0	0.40	120.40	347.0	0.8	2.4	-0.6	0.40	-0.22	39.22
438.0	0.30	52.50	438.0	0.8	2.9	-0.5	0.44	-0.11	-74.62
529.0	0.40	71.20	529.0	1.1	3.4	-0.7	0.17	0.11	20.55
619.0	0.40	61.70	619.0	1.3	4.0	-0.9	0.07	0.00	-10.56
710.0	0.80	96.80	710.0	1.4	4.9	-0.9	0.58	0.44	38.57

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Sorin Natural Resources 2R-323
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<b>Site:</b>	Sorin Natural Resources 2R-HZ Pad Sec.2-T4N-R66W	<b>MD Reference:</b>	WELL @ 4683.5ft (Ensign Rig #136 - RKB 12.5')
<b>Well:</b>	Sorin Natural Resources 2R-323	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)
801.0	0.40	97.50	801.0	1.3	5.8	-0.7	0.44	-0.44	0.77
892.0	0.60	91.40	892.0	1.2	6.6	-0.6	0.23	0.22	-6.70
959.0	0.80	118.40	959.0	1.0	7.4	-0.3	0.57	0.30	40.30
1,053.0	3.10	97.70	1,052.9	0.3	10.5	0.7	2.52	2.45	-22.02
1,145.0	5.90	108.30	1,144.6	-1.5	17.4	3.2	3.16	3.04	11.52
1,235.0	9.00	104.90	1,233.8	-4.7	28.6	7.5	3.48	3.44	-3.78
1,326.0	8.50	105.30	1,323.8	-8.4	42.0	12.4	0.55	-0.55	0.44
1,417.0	8.50	86.30	1,413.8	-9.7	55.2	15.0	3.07	0.00	-20.88
1,508.0	7.00	78.70	1,504.0	-8.2	67.3	14.7	1.99	-1.65	-8.35
1,599.0	6.50	91.20	1,594.3	-7.2	77.9	14.8	1.70	-0.55	13.74
1,690.0	5.50	82.20	1,684.8	-6.7	87.4	15.2	1.51	-1.10	-9.89
1,781.0	6.40	98.10	1,775.4	-6.8	96.7	16.3	2.05	0.99	17.47
1,871.0	5.20	93.80	1,864.9	-7.8	105.8	18.1	1.42	-1.33	-4.78
1,962.0	3.70	85.90	1,955.6	-7.9	112.8	18.9	1.78	-1.65	-8.68
2,053.0	5.50	110.40	2,046.3	-9.2	119.8	20.9	2.89	1.98	26.92
2,144.0	6.30	104.90	2,136.9	-12.0	128.8	24.5	1.08	0.88	-6.04
2,237.0	8.40	103.00	2,229.1	-14.8	140.3	28.5	2.27	2.26	-2.04
2,333.0	7.00	92.30	2,324.2	-16.6	153.0	31.5	2.08	-1.46	-11.15
2,428.0	5.80	84.30	2,418.6	-16.4	163.5	32.3	1.57	-1.26	-8.42
2,523.0	7.20	94.40	2,513.0	-16.4	174.3	33.4	1.90	1.47	10.63
2,618.0	7.30	90.70	2,607.3	-16.9	186.2	35.1	0.50	0.11	-3.89
2,713.0	7.10	88.70	2,701.5	-16.8	198.1	36.2	0.34	-0.21	-2.11
2,809.0	6.30	82.10	2,796.9	-16.0	209.3	36.4	1.16	-0.83	-6.88
2,904.0	7.10	89.60	2,891.2	-15.2	220.3	36.7	1.25	0.84	7.89
2,999.0	6.30	85.40	2,985.6	-14.8	231.4	37.4	0.99	-0.84	-4.42
3,094.0	7.40	87.70	3,079.9	-14.1	242.7	37.8	1.19	1.16	2.42
3,189.0	7.10	86.30	3,174.1	-13.5	254.7	38.3	0.37	-0.32	-1.47
3,284.0	5.50	119.00	3,268.6	-15.3	264.5	41.1	4.06	-1.68	34.42
3,379.0	7.00	109.00	3,363.0	-19.4	274.0	46.1	1.95	1.58	-10.53
3,474.0	6.10	102.80	3,457.4	-22.4	284.4	50.1	1.20	-0.95	-6.53
3,569.0	7.40	97.20	3,551.7	-24.3	295.4	53.1	1.53	1.37	-5.89
3,664.0	7.00	93.00	3,646.0	-25.4	307.2	55.3	0.70	-0.42	-4.42
3,759.0	6.90	94.00	3,740.3	-26.1	318.7	57.1	0.17	-0.11	1.05
3,854.0	7.80	88.60	3,834.5	-26.3	330.8	58.6	1.19	0.95	-5.68
3,949.0	7.50	86.60	3,928.7	-25.8	343.4	59.3	0.42	-0.32	-2.11
4,043.0	6.90	88.20	4,021.9	-25.2	355.2	59.9	0.67	-0.64	1.70
4,139.0	6.50	93.50	4,117.3	-25.4	366.4	61.1	0.77	-0.42	5.52
4,234.0	7.40	95.80	4,211.6	-26.3	377.9	63.2	0.99	0.95	2.42
4,329.0	6.50	94.50	4,305.9	-27.4	389.3	65.4	0.96	-0.95	-1.37
4,424.0	7.50	99.30	4,400.2	-28.8	400.8	67.9	1.22	1.05	5.05
4,519.0	6.90	101.20	4,494.4	-30.9	412.5	71.1	0.68	-0.63	2.00
4,615.0	7.90	90.50	4,589.6	-32.1	424.8	73.5	1.77	1.04	-11.15
4,710.0	6.70	91.60	4,683.8	-32.3	436.8	74.9	1.27	-1.26	1.16
4,805.0	7.70	89.30	4,778.1	-32.4	448.7	76.1	1.10	1.05	-2.42
4,900.0	6.90	88.00	4,872.3	-32.1	460.8	77.1	0.86	-0.84	-1.37
4,995.0	8.40	88.90	4,966.5	-31.8	473.4	78.0	1.58	1.58	0.95
5,090.0	7.20	85.90	5,060.6	-31.2	486.3	78.7	1.33	-1.26	-3.16
5,186.0	7.30	95.80	5,155.8	-31.4	498.4	80.0	1.30	0.10	10.31
5,281.0	6.10	94.90	5,250.2	-32.4	509.4	82.1	1.27	-1.26	-0.95
5,376.0	4.80	93.70	5,344.7	-33.1	518.4	83.7	1.37	-1.37	-1.26
5,471.0	3.80	89.30	5,439.5	-33.3	525.5	84.6	1.11	-1.05	-4.63
5,567.0	2.90	81.20	5,535.3	-32.9	531.1	84.8	1.06	-0.94	-8.44
5,662.0	1.80	63.60	5,630.2	-31.9	534.8	84.1	1.37	-1.16	-18.53

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<b>Well:</b>	Sorin Natural Resources 2R-323	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)
5,757.0	1.50	61.10	5,725.2	-30.6	537.2	83.1	0.32	-0.32	-2.63
5,852.0	1.60	61.70	5,820.2	-29.4	539.5	82.1	0.11	0.11	0.63
5,947.0	1.30	56.70	5,915.1	-28.2	541.6	81.1	0.34	-0.32	-5.26
6,043.0	1.10	59.00	6,011.1	-27.1	543.3	80.2	0.21	-0.21	2.40
6,138.0	1.00	62.70	6,106.1	-26.3	544.8	79.5	0.13	-0.11	3.89
6,233.0	2.20	146.90	6,201.1	-27.4	546.5	80.8	2.44	1.26	88.63
6,265.0	3.90	153.30	6,233.0	-28.9	547.3	82.3	5.41	5.31	20.00
6,297.0	6.10	153.40	6,264.9	-31.4	548.6	84.9	6.88	6.88	0.31
6,328.0	8.50	155.70	6,295.6	-34.9	550.3	88.7	7.80	7.74	7.42
6,360.0	10.60	158.70	6,327.2	-39.8	552.3	93.7	6.74	6.56	9.38
6,392.0	12.60	164.90	6,358.5	-46.0	554.3	100.0	7.36	6.25	19.38
6,424.0	14.00	166.30	6,389.7	-53.1	556.1	107.3	4.49	4.38	4.38
6,455.0	15.50	168.90	6,419.7	-60.8	557.8	115.1	5.29	4.84	8.39
6,487.0	17.50	170.10	6,450.3	-69.7	559.5	124.2	6.34	6.25	3.75
6,519.0	19.20	170.80	6,480.7	-79.7	561.1	134.2	5.36	5.31	2.19
6,551.0	20.90	171.70	6,510.8	-90.5	562.8	145.2	5.40	5.31	2.81
6,582.0	23.00	174.00	6,539.5	-102.0	564.2	156.8	7.32	6.77	7.42
6,614.0	25.10	176.50	6,568.7	-115.0	565.3	169.8	7.29	6.56	7.81
6,646.0	26.90	177.30	6,597.5	-129.0	566.0	183.8	5.73	5.63	2.50
6,678.0	28.80	180.10	6,625.8	-144.0	566.4	198.7	7.21	5.94	8.75
6,709.0	30.40	181.20	6,652.7	-159.3	566.2	213.9	5.45	5.16	3.55
6,741.0	31.70	181.70	6,680.2	-175.8	565.8	230.3	4.14	4.06	1.56
6,773.0	33.40	181.60	6,707.1	-193.0	565.3	247.4	5.32	5.31	-0.31
6,804.0	35.80	181.20	6,732.6	-210.6	564.9	264.9	7.78	7.74	-1.29
6,836.0	38.60	183.30	6,758.1	-229.9	564.1	284.0	9.61	8.75	6.56
6,868.0	40.80	184.70	6,782.8	-250.3	562.7	304.2	7.42	6.88	4.38
6,900.0	42.70	184.90	6,806.6	-271.5	560.9	325.1	5.95	5.94	0.63
6,931.0	44.90	185.40	6,829.0	-292.9	558.9	346.2	7.18	7.10	1.61
6,963.0	47.80	184.90	6,851.1	-315.9	556.9	368.9	9.13	9.06	-1.56
6,995.0	50.60	184.20	6,872.0	-340.1	554.9	392.8	8.91	8.75	-2.19
7,027.0	52.80	183.80	6,891.8	-365.1	553.2	417.5	6.94	6.88	-1.25
7,059.0	55.20	182.80	6,910.6	-391.0	551.7	443.1	7.91	7.50	-3.13
7,090.0	57.90	182.40	6,927.7	-416.8	550.5	468.7	8.78	8.71	-1.29
7,122.0	60.20	182.10	6,944.2	-444.2	549.5	495.9	7.23	7.19	-0.94
7,154.0	62.30	181.90	6,959.6	-472.3	548.5	523.7	6.59	6.56	-0.63
7,185.0	63.10	180.90	6,973.8	-499.8	547.8	551.0	3.86	2.58	-3.23
7,217.0	64.90	178.90	6,987.8	-528.6	547.9	579.7	7.95	5.63	-6.25
7,249.0	68.30	178.00	7,000.5	-557.9	548.7	609.0	10.93	10.63	-2.81
7,280.0	72.50	178.70	7,010.9	-587.1	549.5	638.1	13.71	13.55	2.26
7,312.0	75.40	180.50	7,019.8	-617.9	549.7	668.7	10.55	9.06	5.63
7,344.0	78.70	181.40	7,026.9	-649.0	549.2	699.7	10.67	10.31	2.81
7,376.0	81.00	181.90	7,032.6	-680.5	548.3	730.9	7.35	7.19	1.56
7,407.0	83.20	181.90	7,036.8	-711.2	547.3	761.4	7.10	7.10	0.00
7,439.0	84.20	181.90	7,040.3	-743.0	546.2	792.9	3.13	3.13	0.00
7,471.0	85.60	181.20	7,043.2	-774.9	545.4	824.5	4.89	4.38	-2.19
7,486.0	86.80	180.70	7,044.2	-789.8	545.1	839.4	8.66	8.00	-3.33
7,524.0	88.55	180.51	7,045.7	-827.8	544.7	877.1	4.64	4.62	-0.51
7"									
7,525.0	88.60	180.50	7,045.8	-828.8	544.7	878.1	4.64	4.62	-0.51
7,615.0	89.70	180.00	7,047.1	-918.8	544.3	967.6	1.34	1.22	-0.56
7,706.0	89.40	179.30	7,047.8	-1,009.8	544.9	1,058.3	0.84	-0.33	-0.77
7,797.0	90.40	179.30	7,048.0	-1,100.8	546.0	1,148.9	1.10	1.10	0.00

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<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)
7,888.0	90.70	180.30	7,047.1	-1,191.7	546.3	1,239.5	1.15	0.33	1.10
7,982.0	90.10	179.60	7,046.4	-1,285.7	546.4	1,333.1	0.98	-0.64	-0.74
8,077.0	91.50	182.40	7,045.1	-1,380.7	544.7	1,427.4	3.29	1.47	2.95
8,172.0	92.00	182.10	7,042.2	-1,475.6	541.0	1,521.5	0.61	0.53	-0.32
8,268.0	92.50	181.70	7,038.4	-1,571.5	537.8	1,616.6	0.67	0.52	-0.42
8,368.0	91.00	181.60	7,035.4	-1,671.4	534.9	1,715.7	1.50	-1.50	-0.10
8,458.0	92.20	181.00	7,032.9	-1,761.3	532.9	1,805.0	1.49	1.33	-0.67
8,553.0	89.30	182.10	7,031.6	-1,856.3	530.3	1,899.3	3.26	-3.05	1.16
8,649.0	89.70	181.70	7,032.5	-1,952.2	527.1	1,994.4	0.59	0.42	-0.42
8,744.0	91.00	182.60	7,031.9	-2,047.1	523.6	2,088.6	1.66	1.37	0.95
8,838.0	90.10	182.80	7,031.0	-2,141.0	519.1	2,181.6	0.98	-0.96	0.21
8,933.0	88.50	180.10	7,032.1	-2,236.0	516.7	2,275.8	3.30	-1.68	-2.84
9,028.0	88.80	179.60	7,034.4	-2,330.9	517.0	2,370.4	0.61	0.32	-0.53
9,123.0	89.00	179.80	7,036.2	-2,425.9	517.5	2,464.9	0.30	0.21	0.21
9,219.0	89.30	179.10	7,037.6	-2,521.9	518.4	2,560.5	0.79	0.31	-0.73
9,314.0	90.80	180.50	7,037.5	-2,616.9	518.7	2,655.1	2.16	1.58	1.47
9,409.0	90.70	181.00	7,036.3	-2,711.9	517.5	2,749.5	0.54	-0.11	0.53
9,504.0	90.30	181.40	7,035.5	-2,806.9	515.5	2,843.8	0.60	-0.42	0.42
9,598.0	90.00	182.60	7,035.2	-2,900.8	512.2	2,937.0	1.32	-0.32	1.28
9,694.0	91.60	182.60	7,033.9	-2,996.7	507.9	3,032.0	1.67	1.67	0.00
9,788.0	91.80	181.70	7,031.1	-3,090.6	504.3	3,125.1	0.98	0.21	-0.96
9,883.0	92.20	181.60	7,027.8	-3,185.5	501.6	3,219.3	0.43	0.42	-0.11
9,979.0	91.40	179.60	7,024.8	-3,281.4	500.6	3,314.7	2.24	-0.83	-2.08
10,074.0	92.30	179.30	7,021.7	-3,376.4	501.5	3,409.3	1.00	0.95	-0.32
10,169.0	89.80	178.70	7,020.0	-3,471.3	503.2	3,503.9	2.71	-2.63	-0.63
10,264.0	91.10	179.10	7,019.2	-3,566.3	505.0	3,598.6	1.43	1.37	0.42
10,359.0	89.30	178.60	7,018.9	-3,661.3	506.9	3,693.3	1.97	-1.89	-0.53
10,454.0	89.10	179.80	7,020.2	-3,756.3	508.2	3,788.0	1.28	-0.21	1.26
10,549.0	89.20	181.90	7,021.6	-3,851.2	506.8	3,882.4	2.21	0.11	2.21
10,645.0	90.50	181.20	7,021.9	-3,947.2	504.2	3,977.6	1.54	1.35	-0.73
10,740.0	91.50	180.50	7,020.2	-4,042.2	502.8	4,072.0	1.28	1.05	-0.74
10,835.0	90.80	182.30	7,018.3	-4,137.1	500.5	4,166.2	2.03	-0.74	1.89
10,930.0	90.70	179.30	7,017.1	-4,232.1	499.2	4,260.6	3.16	-0.11	-3.16
11,026.0	88.70	180.50	7,017.6	-4,328.1	499.3	4,356.2	2.43	-2.08	1.25
11,121.0	89.00	180.00	7,019.5	-4,423.1	498.9	4,450.7	0.61	0.32	-0.53
11,216.0	89.70	181.60	7,020.5	-4,518.0	497.6	4,545.1	1.84	0.74	1.68
11,311.0	90.00	182.60	7,020.8	-4,613.0	494.1	4,639.2	1.10	0.32	1.05
11,406.0	91.20	180.70	7,019.8	-4,707.9	491.4	4,733.4	2.37	1.26	-2.00
11,502.0	91.70	181.70	7,017.4	-4,803.9	489.4	4,828.7	1.16	0.52	1.04
11,513.0	91.90	181.70	7,017.0	-4,814.9	489.0	4,839.6	1.82	1.82	0.00
11,570.0	91.90	181.70	7,015.1	-4,871.8	487.4	4,896.1	0.00	0.00	0.00
BHL 500' FSL, 834' FEL									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,524.0	7,045.7	7"	7	7-1/2	

<b>Company:</b>	PETROLEUM DEVELOPMENT CORP Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Sorin Natural Resources 2R-323
<b>Project:</b>	SEC.2-T4N-R66W	<b>TVD Reference:</b>	WELL @ 4683.5ft (Ensign Rig #136 - RKB 12.5')
<b>Site:</b>	Sorin Natural Resources 2R-HZ Pad Sec.2-T4N-R66W	<b>MD Reference:</b>	WELL @ 4683.5ft (Ensign Rig #136 - RKB 12.5')
<b>Well:</b>	Sorin Natural Resources 2R-323	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Checked By: _____	Approved By: _____	Date: _____
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