



SUMMARY OF ROUTINE CORE ANALYSES RESULTS

Vacuum Oven Dried at 180° F Net Confining Stress: As Noted

Whiting Oil and Gas Corporation
Razor 26J-2633L Well
Undisclosed Field

Weld County, Colorado
File No.: CO-66164
Date: 10/11/2013

Core Number	Sample Number	Sample Depth, feet	Net Confining Stress, psi	Permeability, millidarcys		Porosity, percent		Grain Density, gm/cc	Fluid Saturations, percent		
				to Air	Klinkenberg	Ambient	NCS		Water	Oil	Total
1	1-1	6,990.50	2,100	138.	125.	17.0	16.8	2.65	59.6	6.0	65.6
1	1-2	6,991.40	2,100	263.	242.	21.1	20.9	2.65	74.2	4.2	78.4
1	1-3(F)	6,992.30	2,100		+	25.8		2.65	61.2	4.3	65.5
1	1-4	6,993.40	2,100	113.	101.	20.2	19.9	2.65	64.2	2.6	66.8
1	1-5(F)	6,994.00	2,100		+	17.4		2.65	58.0	6.2	64.2
1	1-6	6,995.20	2,100	24.9	21.1	18.5	18.2	2.66	72.5	9.1	81.7
1	1-7	6,996.60	2,100	0.0028	0.0009	6.9	6.7	2.71	81.6	3.9	85.5
1	1-8	6,997.50	2,100	0.0005	0.0001	4.9	4.8	2.73	85.1	8.5	93.6
1	1-9	6,998.40	2,100	0.0013	0.0003	4.7	4.6	2.72	87.2	3.4	90.5
1	1-10	6,999.85	2,100		<0.0001	4.7	4.6	2.72	93.5	1.7	95.2
1	1-12	7,001.15	2,100	0.0010	0.0003	4.3	4.2	2.76	91.5	7.1	98.6
1	1-14	7,003.70	2,100	0.0009	0.0002	5.7	5.6	2.74	86.5	3.9	90.4
1	1-16	7,005.60	2,100	0.0010	0.0002	6.6	6.5	2.72	80.5	9.8	90.3
1	1-18	7,007.00	2,100		<0.0001	5.7	5.6	2.74	80.3	9.9	90.2
1	1-20	7,009.30	2,100	0.0016	0.0004	6.4	6.3	2.73	74.8	8.2	82.9
1	1-22	7,011.50	2,100	0.0031	0.0011	7.1	6.9	2.74	87.2	0.0	87.2
1	1-24(F)	7,013.70	2,100		+	5.4		2.76	87.9	1.6	89.4
1	1-26	7,015.30	2,100	0.0025	0.0008	5.8	5.7	2.71	81.0	7.7	88.7
1	1-28	7,017.20	2,100	0.0019	0.0005	5.7	5.6	2.74	82.3	2.8	85.1
1	1-30	7,019.80	2,100		<0.0001	7.7	7.6	2.79	92.7	1.6	94.3
1	1-32	7,021.50	2,100	0.0010	0.0002	5.9	5.8	2.71	86.3	0.0	86.3
1	1-34	7,023.70	2,100		<0.0001	5.3	5.2	2.76	94.7	2.8	97.5
1	1-36(F)	7,025.30	2,100		+	6.1		2.78	82.6	0.0	82.7
1	1-38(f)	7,027.80	2,100	0.0093	0.0041	5.3	5.2	2.70	72.2	1.9	74.1
1	1-40(F)	7,029.20	2,100		+	5.7		2.72	60.3	2.2	62.5
1	1-42c	7,031.50	2,100		<0.0001	5.9		2.80	95.3	0.0	95.3
1	1-44	7,033.70	2,100	0.0008	0.0002	5.0	4.9	2.74	78.5	6.7	85.2
1	1-46	7,035.30	2,100	0.0008	0.0002	4.7	4.6	2.73	73.0	7.8	80.8
1	1-48	7,037.50	2,100		<0.0001	5.0	4.9	2.75	78.6	4.3	82.8
1	1-50(F)	7,039.70	2,100		+	4.8		2.78	94.5	0.1	94.6
1	1-52(F)	7,041.80	2,100		+	4.1		2.73	56.3	4.2	60.5
1	1-54	7,043.30	2,100		<0.0001	4.1	4.0	2.74	75.8	4.8	80.6
1	1-56	7,045.30	2,100		<0.0001	4.5	4.4	2.75	93.5	2.2	95.7
1	1-58(F)	7,047.60	2,100		+	5.2		2.73	75.1	0.1	75.2
1	1-60(F)	7,049.90	2,100		+	3.2		2.72			**
1	1-62	7,051.30	2,100		<0.0001	3.7	3.6	2.73	81.4	0.5	81.8
1	1-64(F)	7,053.80	2,100		+	4.4		2.73	61.4	12.8	74.2
1	1-66	7,055.40	2,100		<0.0001	4.3	4.2	2.74	93.1	0.0	93.1
1	1-68	7,057.90	2,100	0.0004	0.0001	3.6	3.5	2.72			**
1	1-70(F)	7,059.30	2,100		+	4.8		2.74	84.7	0.0	84.7
1	1-72(F)	7,061.70	2,100		+	4.6		2.76	89.2	1.5	90.6
1	1-74(F)	7,063.50	2,100		+	4.4		2.73	88.3	4.1	92.4
1	1-76	7,065.50	2,100		<0.0001	3.6	3.5	2.73	87.0	0.0	87.0
1	1-78(F)	7,067.60	2,100		+	4.3		2.73	82.9	0.0	83.0
1	1-80	7,069.60	2,100		<0.0001	4.0	3.9	2.73	50.4	21.6	72.0
1	1-82(F)	7,071.40	2,100		+	4.1		2.72	59.4	10.1	69.5
1	1-84c	7,073.80	2,100		<0.0001	4.5		2.74	79.5	2.4	81.9



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File No.: CO-66164
Date: 10/11/2013

Core Number	Sample Number	Sample Depth, feet	Net Confining Stress, psi	Permeability, millidarcys		Porosity, percent		Grain Density, gm/cc	Fluid Saturations, percent		
				to Air	Klinkenberg	Ambient	NCS		Water	Oil	Total
1	1-88(F)	7,077.20	2,100		+	4.9		2.78	91.3	5.8	97.2
1	1-90c	7,079.40	2,100		<0.0001	4.5		2.78	96.9	0.2	97.1
2	2-21	7,530.50	2,280		<0.0001	4.2	4.1	2.80	91.1	3.7	94.8
2	2-23	7,532.20	2,280		<0.0001	3.3	3.2	2.75	78.1	9.0	87.2
2	2-25	7,534.20	2,280	0.0013	0.0003	0.6	0.6	2.71			**
3	3-2	7,535.20	2,280	0.013	0.0062	1.2	1.2	2.73			**
3	3-3	7,536.70	2,280	30.5	25.9	5.8	5.6	2.71	57.3	5.1	62.4
3	3-4	7,537.30	2,280	50.6	43.9	8.4	8.2	2.70	57.2	1.4	58.6
3	3-6c	7,539.70	2,280	239.	219.	10.7		2.71	41.2	0.6	41.7
3	3-8	7,541.50	2,280		+	1.4		2.72			**
3	3-9	7,542.50	2,280	531.	498.	20.8	20.5	2.64	83.4	0.5	84.0
3	3-10	7,543.40	2,280	0.0068	0.0028	1.6	1.5	2.72			**
3	3-11	7,544.80	2,280	254.	233.	18.0	17.7	2.63	84.0	1.8	85.8
3	3-12	7,545.15	2,280	409.	381.	18.0	17.7	2.64	80.9	0.0	81.0
3	3-13	7,546.40	2,280	279.	257.	14.3	14.1	2.64	75.8	2.0	77.8
3	3-14	7,547.10	2,280	251.	231.	17.2	16.9	2.64	77.7	0.0	77.8
3	3-15	7,548.50	2,280	4.05	3.23	7.1	7.0	2.68	38.3	0.7	39.0
3	3-17	7,550.20	2,280	0.022	0.012	7.5	7.4	2.64	47.6	12.9	60.5
3	3-18	7,551.50	2,280	166.	151.	13.4	13.2	2.63	74.7	0.0	74.7
3	3-19	7,552.25	2,280	128.	115.	11.3	11.1	2.64	66.7	5.9	72.6
3	3-20	7,553.20	2,280	94.3	83.9	11.4	11.2	2.63	82.0	1.9	84.0
3	3-23	7,556.80	2,280	3.80	3.02	5.5	5.4	2.66	52.7	1.4	54.1
3	3-24	7,557.50	2,280	0.011	0.0051	3.1	3.0	2.72			**
3	3-30	7,563.50	2,280	0.340	0.257	6.7	6.6	2.68	59.2	0.0	59.2
3	3-31(F)	7,564.50	2,280		+	2.7		2.69	49.3	1.6	50.9
3	3-32	7,565.30	2,280	4.75	3.80	9.8	9.6	2.69	55.1	1.2	56.3
3	3-33	7,566.40	2,280	74.0	65.2	13.7	13.5	2.65	57.0	0.0	57.0
3	3-34	7,567.30	2,280	21.5	18.1	12.8	12.6	2.65	72.8	3.7	76.6
3	3-35	7,568.80	2,280	12.9	10.7	13.4	13.2	2.64	75.1	1.0	76.1
3	3-38	7,571.70	2,280	0.986	0.795	11.2	11.0	2.66	66.8	0.0	66.9
3	3-39	7,572.50	2,280	1.07	0.827	10.0	9.8	2.67	69.1	0.3	69.5
3	3-42	7,575.30	2,280	13.2	10.9	14.2	13.9	2.64	66.9	4.3	71.2
3	3-43	7,576.80	2,280	39.0	33.5	15.7	15.5	2.64	58.2	0.3	58.5
3	3-44	7,577.80	2,280	24.4	20.6	14.2	14.0	2.65	58.9	0.0	58.9
3	3-46	7,579.70	2,280	60.2	52.7	12.8	12.6	2.66			**
3	3-48	7,581.10	2,280	26.2	22.2	12.3	12.0	2.67	60.9	0.0	60.9
3	3-50	7,583.20	2,280	121.	108.	11.5	11.2	2.67	58.3	0.8	59.1
3	3-50Ac	7,583.70	2,280	24.2	20.3	9.2		2.65	21.7	4.8	26.6
3	3-51	7,584.80	2,280	1.83	1.42	11.0	10.8	2.67	62.1	0.0	62.1
3	3-53	7,586.50	2,280	12.1	9.98	13.7	13.5	2.66	60.2	0.0	60.2
3	3-57	7,590.50	2,280		<0.0001	4.5	4.4	2.69	85.5	0.2	85.7
3	3-59	7,592.60	2,280	0.0025	0.0008	6.6	6.4	2.69	66.3	4.7	71.0
3	3-61	7,594.60	2,280	0.0004	0.0001	4.6	4.5	2.69	82.2	0.5	82.7
3	3-64c	7,597.50	2,280	0.0008	0.0002	4.0		2.68	64.7	14.1	78.8
3	3-66c	7,599.20	2,280	0.0024	0.0007	6.2		2.69	74.6	0.0	74.6
3	3-68	7,601.20	2,280	0.0009	0.0002	4.5	4.4	2.69	82.8	6.7	89.5
3	3-70	7,603.20	2,280	0.0021	0.0006	5.4	5.2	2.68	79.6	5.5	85.1



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				to Air	Klinkenberg	Ambient	NCS		Water	Oil	Total
3	3-72	7,605.80	2,280	0.0008	0.0002	3.4	3.3	2.70	84.7	3.5	88.2
3	3-73	7,606.50	2,280	0.015	0.0073	7.1	7.0	2.69	65.1	7.6	72.6
3	3-75	7,608.60	2,280	0.015	0.0074	3.0	2.9	2.71			**
3	3-80	7,613.60	2,280	144.	130.	16.9	16.7	2.65	46.9	0.2	47.0
3	3-82	7,615.50	2,280	90.3	80.2	14.8	14.6	2.67	51.1	2.8	53.9
3	3-83	7,616.50	2,280	0.432	0.333	8.5	8.3	2.70	29.6	0.0	29.7
3	3-84	7,617.20	2,280	179.	162.	13.8	13.6	2.67	35.7	0.0	35.7
3	3-85	7,618.20	2,280	233.	213.	16.2	15.9	2.66	40.8	0.0	40.8
3	3-88	7,621.40	2,280	339.	314.	19.1	18.8	2.65	45.6	0.0	45.7
3	3-90(F)	7,623.10	2,280		+	16.0		2.66	51.0	0.0	51.1
3	3-91	7,624.10	2,280	278.	256.	16.6	16.3	2.67	41.5	0.0	41.5
3	3-92	7,625.50	2,280	66.4	58.0	15.7	15.4	2.67	45.0	5.7	50.7
3	3-96	7,629.20	2,280	999.	949.	25.3	25.1	2.63			**
3	3-98	7,631.50	2,280	1601.	1535.	26.9	26.6	2.63	28.9	1.1	30.0
3	3-100	7,633.10	2,280	1628.	1561.	27.2	26.9	2.64	34.2	0.0	34.2
3	3-102	7,635.00	2,280	795.	752.	25.7	25.4	2.64	42.5	0.0	42.5
3	3-104	7,637.70	2,280	814.	770.	26.2	25.9	2.64	37.2	2.7	39.8
3	3-106	7,639.80	2,280	1399.	1338.	26.7	26.4	2.65	29.9	0.0	30.0
3	3-109c	7,642.30	2,280		+	22.2		2.66	45.3	0.0	45.3
Average values:				158.	148.	9.6	10.1	2.70	68.7	3.1	71.8

+ Indicates the sample is unsuitable for this type of measurement

** Indicates pore volume / water out was insufficient to report saturations

(f) Indicates the sample has a visible fracture or lamination that may affect permeability

(F) Indicates the sample is fractured into multiple pieces

c Indicates the sample is chipped

Indicates the sample was drilled with water