

30-015-37836

Today's Date: 4/14/2011



DIRECTIONAL REPORT

WELLNAME: SHOWSTOPPER 17 FEDERAL #9H

FIELD: WILLOW LAKE SE

AFE NO.:

WELL ID NO.: 30-015-37836

API NO.: 30-015-37836

RECEIVED
MAY 11 2011
NMOCD ARTESIA

SURVEY TYPE: GMS-0

MD:

ANGLE: 0.00

AZIMUTH: 0.00

TVD:

N/S: 0.00

E/W: 0.00

VS: 0.00

TARGET: 356.94

MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
	0.00	0.00		0.00	0.00	0.00	0.00
100	0.53	11.36	100	0.45	0.09	0.45	0.53
200	0.58	20.19	200	1.38	0.36	1.36	0.10
282			282	1.77	0.50	1.74	0.71
300	1.07	73.13	300	2.13	1.43	2.05	0.86
400	1.87	102.14	400	1.37	2.38	1.24	1.58
500	2.28	110.26	500	0.34	5.84	0.02	0.50
600	3.04	127.63	600	-1.97	9.81	-2.49	1.10
700	3.44	138.13	700	-5.83	13.91	-6.56	0.71
800	3.01	142.80	799	-10.15	17.50	-11.07	0.50
900	2.69	145.85	899	-14.19	20.41	-15.25	0.35
1,000	2.31	147.92	999	-17.84	22.80	-19.03	0.39
1,100	2.20	139.68	1,099	-21.01	25.11	-22.32	0.34
1,200	2.17	145.06	1,199	-24.02	27.43	-25.45	0.21
1,300	1.84	147.84	1,299	-26.93	29.37	-28.46	0.34
1,400	1.77	127.98	1,399	-29.24	31.44	-30.88	0.63
1,500	1.56	138.26	1,499	-31.21	33.57	-32.95	0.36
1,600	1.03	143.09	1,599	-32.94	35.01	-34.76	0.54
1,700	0.40	125.31	1,699	-33.86	35.84	-35.73	0.66
1,800	0.49	97.08	1,799	-34.12	36.55	-36.02	0.23
1,900	0.40	126.65	1,899	-34.38	37.25	-36.32	0.24
2,000	0.45	180.14	1,999	-34.98	37.53	-36.93	0.39
2,100	0.75	200.60	2,099	-35.98	37.30	-37.92	0.36
2,200	0.70	197.56	2,199	-37.18	36.88	-39.10	0.06
2,300	0.84	133.95	2,299	-38.27	37.23	-40.20	0.82
2,400	0.97	120.41	2,399	-39.21	38.49	-41.21	0.25
2,500	1.37	106.59	2,499	-39.98	40.36	-42.08	0.49
2,600	1.67	101.03	2,599	-40.60	42.94	-42.83	0.33
2,700	1.94	104.88	2,699	-41.31	46.00	-43.71	0.30
2,800	1.90	104.91	2,799	-42.17	49.24	-44.74	0.04
2,900	1.51	104.03	2,899	-42.92	52.12	-45.64	0.39
3,000	1.29	104.05	2,999	-43.51	54.49	-46.36	0.22
3,100	1.17	97.72	3,099	-43.92	56.60	-46.88	0.18
3,200	1.19	96.12	3,199	-44.17	58.64	-47.24	0.04
3,300	1.41	98.88	3,299	-44.47	60.89	-47.66	0.23
3,400	1.23	88.00	3,399	-44.62	63.18	-47.93	0.31
3,500	1.21	80.41	3,499	-44.41	65.29	-47.83	0.16
3,600	1.15	68.26	3,599	-43.86	67.26	-47.39	0.26
3,610	1.18	77.80	3,609	-43.80	67.46	-47.34	1.96
3,814	1.10	5.60	3,812	-41.41	69.70	-45.07	0.66
3,876	2.40	320.00	3,874	-39.82	68.92	-43.45	2.92
3,938	3.70	314.20	3,936	-37.43	66.66	-40.94	2.15
4,000	5.10	312.60	3,998	-34.17	63.19	-37.50	2.27
4,061	6.50	312.80	4,059	-29.99	58.66	-33.08	2.29
4,124	7.60	308.80	4,121	-24.96	52.80	-27.74	1.91
4,186	8.30	306.90	4,183	-19.70	46.03	-22.13	1.21
4,280	8.50	313.50	4,276	-10.85	35.56	-12.73	1.05
4,373	8.30	311.90	4,368	-1.63	25.58	-3.00	0.33
4,467	7.90	312.30	4,461	7.25	15.75	6.39	0.43
4,561	7.40	312.00	4,554	15.64	6.47	15.28	0.53
4,654	8.30	308.40	4,646	23.82	-3.24	23.96	1.10
4,749	8.40	314.00	4,740	32.90	-13.60	33.58	0.86
4,842	8.30	313.50	4,832	42.24	-23.36	43.43	0.13
4,936	7.80	313.70	4,925	51.32	-32.89	53.00	0.53
5,029	7.60	312.40	5,017	59.82	-41.99	61.98	0.28
5,123	7.30	312.30	5,111	68.03	-51.00	70.66	0.32
5,216	7.80	307.00	5,203	75.81	-60.41	78.93	0.92
5,265	8.00	309.00	5,251	80.65	-64.19	83.96	0.69
5,309	8.00	310.30	5,295	83.79	-70.39	87.43	0.53
5,402	7.30	309.30	5,387	91.72	-79.90	95.86	0.77
5,496	7.30	311.50	5,480	99.46	-88.99	104.07	0.30
5,589	7.10	314.30	5,573	107.39	-97.53	112.44	0.43
5,683	7.90	312.80	5,666	115.84	-106.43	121.35	0.88
5,778	7.00	311.50	5,760	124.11	-115.55	130.10	0.96
5,874	8.20	308.10	5,855	132.21	-125.32	138.71	1.33
5,969	7.80	305.60	5,949	140.14	-135.89	147.20	0.56
6,064	7.90	311.30	6,043	148.20	-146.04	155.79	0.83
6,160	7.20	308.60	6,138	156.31	-155.70	164.40	0.82
6,255	7.60	309.90	6,233	164.06	-165.17	172.64	0.46
6,350	7.50	311.60	6,327	172.20	-174.63	181.28	0.26
6,446	7.50	311.80	6,422	180.54	-183.98	190.10	0.03
6,541	7.10	317.00	6,516	188.96	-192.61	198.98	0.81



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MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
6,637	7.30	321.20	6,612	198.06	-200.48	208.48	0.59
6,732	6.70	318.00	6,706	206.88	-207.97	217.69	0.75
6,796	6.40	316.80	6,769	212.25	-212.91	223.32	0.52
6,821	6.30	317.70	6,794	214.28	-214.78	225.44	0.56
6,853	7.70	323.30	6,826	217.30	-217.25	228.59	4.86
6,885	9.30	328.40	6,858	221.22	-219.88	232.65	5.52
6,917	10.10	330.70	6,889	225.87	-222.61	237.43	2.78
6,949	10.50	334.70	6,921	230.96	-225.23	242.65	2.56
6,980	11.50	338.70	6,951	236.39	-227.56	248.20	4.06
7,012	14.00	342.80	6,982	243.06	-229.86	254.98	8.30
7,044	17.90	344.20	7,013	251.49	-232.35	263.54	12.25
7,076	21.80	341.20	7,043	261.85	-235.60	274.06	12.59
7,108	25.40	346.10	7,072	274.14	-239.17	286.52	12.80
7,139	27.70	353.70	7,100	287.77	-241.56	300.25	13.22
7,171	30.20	358.10	7,128	303.21	-242.64	315.73	10.26
7,203	33.50	358.80	7,155	320.08	-243.09	332.61	10.38
7,235	36.60	358.30	7,182	338.45	-243.56	350.97	9.73
7,266	39.40	357.40	7,206	357.52	-244.28	370.05	9.21
7,298	42.00	358.30	7,230	378.37	-245.06	390.92	8.33
7,330	44.90	359.70	7,254	400.37	-245.44	412.90	9.55
7,362	48.00	0.90	7,276	423.56	-245.31	436.05	10.06
7,393	51.40	1.40	7,296	447.20	-244.83	459.63	11.04
7,425	55.30	1.60	7,315	472.86	-244.16	485.22	12.20
7,457	58.70	0.90	7,332	499.68	-243.58	511.97	10.78
7,489	62.20	0.70	7,348	527.51	-243.19	539.74	10.95
7,521	65.50	2.50	7,362	556.22	-242.38	568.37	11.48
7,553	69.10	4.10	7,374	585.69	-240.68	597.70	12.16
7,584	70.40	4.60	7,385	614.69	-238.47	626.54	4.46
7,616	69.60	4.80	7,396	644.66	-236.01	656.34	2.57
7,648	71.30	4.80	7,407	674.70	-233.48	686.21	5.31
7,680	73.00	4.40	7,417	705.06	-231.04	716.39	5.44
7,710	76.00	3.00	7,425	733.91	-229.18	745.10	10.96
7,742	78.90	2.50	7,432	765.11	-227.68	776.17	9.19
7,774	82.30	2.80	7,437	796.64	-226.22	807.58	10.66
7,806	85.10	4.10	7,440	828.38	-224.31	839.17	9.64
7,837	87.10	3.70	7,442	859.24	-222.20	869.87	6.58
7,869	87.40	2.00	7,444	891.16	-220.61	901.67	5.39
7,901	89.10	359.70	7,445	923.14	-220.14	933.57	8.94
7,996	89.60	356.50	7,446	1018.07	-223.29	1028.54	3.41
8,028	89.50	359.70	7,446	1050.04	-224.35	1060.52	10.01
8,092	89.30	359.20	7,447	1114.04	-224.96	1124.46	0.84
8,155	89.90	359.70	7,447	1177.03	-225.57	1187.39	1.24
8,219	89.10	359.00	7,448	1241.03	-226.29	1251.34	1.66
8,282	89.60	359.90	7,449	1304.02	-226.90	1314.27	1.63
8,346	90.20	1.60	7,449	1368.01	-226.06	1378.13	2.82
8,442	91.30	1.80	7,447	1463.96	-223.21	1473.79	1.17
8,536	90.90	359.50	7,446	1557.93	-222.15	1567.56	2.48
8,599	89.30	358.30	7,446	1620.91	-223.36	1630.52	3.17
8,631	89.40	358.50	7,446	1652.90	-224.25	1662.51	0.70
8,726	87.80	357.90	7,448	1747.82	-227.23	1757.46	1.80
8,821	89.30	357.60	7,451	1842.71	-230.96	1852.41	1.61
8,916	89.20	357.60	7,452	1937.62	-234.94	1947.40	0.10
9,012	90.00	357.20	7,453	2033.52	-239.29	2043.39	0.93
9,107	90.50	357.80	7,452	2128.43	-243.44	2138.39	0.82
9,202	89.00	357.40	7,453	2223.34	-247.42	2233.38	1.63
9,266	90.50	357.90	7,453	2287.28	-250.04	2297.37	2.47
9,329	91.60	358.80	7,452	2350.24	-251.85	2360.34	2.26
9,393	90.70	359.00	7,450	2414.22	-253.08	2424.29	1.44
9,457	90.50	359.00	7,450	2478.21	-254.20	2488.24	0.31
9,520	91.00	360.00	7,449	2541.20	-254.75	2551.17	1.77
9,584	88.80	358.50	7,449	2605.19	-255.59	2615.11	4.16
9,647	89.50	358.10	7,450	2668.15	-257.45	2678.09	1.28
9,711	90.60	358.50	7,450	2732.12	-259.35	2742.07	1.83
9,774	91.10	358.30	7,449	2795.09	-261.11	2805.04	0.85
9,837	91.50	358.50	7,448	2858.05	-262.87	2868.01	0.71
9,901	91.50	358.10	7,446	2922.00	-264.77	2931.97	0.63
9,964	91.30	357.80	7,444	2984.94	-267.02	2994.94	0.57
10,028	90.50	357.20	7,443	3048.87	-269.81	3058.93	1.56
10,092	90.50	357.00	7,443	3112.78	-273.05	3122.92	0.31
10,155	91.00	357.00	7,442	3175.69	-276.35	3185.92	0.79
10,219	91.10	358.60	7,441	3239.63	-278.81	3249.90	2.50
10,345	92.40	360.00	7,437	3365.56	-280.34	3375.73	1.52

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MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
10,409	91.70	359.90	7,435	3429.52	-280.40	3439.60	1.10
10,504	90.80	358.80	7,433	3524.49	-281.48	3534.49	1.50
10,567	88.40	357.40	7,433	3587.45	-283.56	3597.47	4.41
10,631	88.20	357.90	7,435	3651.36	-286.19	3661.43	0.84
10,694	88.40	357.40	7,437	3714.28	-288.77	3724.40	0.85
10,758	90.10	359.32	7,438	3778.24	-290.60	3788.37	4.01
10,822	90.70	358.30	7,437	3842.23	-291.93	3852.33	1.85
10,885	90.70	358.30	7,436	3905.20	-293.80	3915.31	0.00
10,949	90.40	357.80	7,436	3969.16	-295.98	3979.30	0.91
11,012	90.60	359.00	7,435	4032.13	-297.74	4042.27	1.93
11,076	91.30	359.90	7,434	4096.11	-298.35	4106.20	1.78
11,139	91.70	1.10	7,432	4159.09	-297.80	4169.06	2.01
11,203	91.80	1.80	7,431	4223.04	-296.18	4232.83	1.10
11,267	89.10	0.40	7,430	4287.02	-294.95	4296.65	4.75
11,330	89.60	0.40	7,431	4350.01	-294.51	4359.53	0.79
11,393	89.90	360.00	7,431	4413.01	-294.29	4422.43	0.79
11,456	89.00	360.00	7,432	4476.01	-294.29	4485.33	1.43
11,520	88.90	359.30	7,433	4539.99	-294.69	4549.25	1.10
11,584	88.50	359.30	7,434	4603.97	-295.47	4613.18	0.63
11,679	88.40	358.30	7,437	4698.92	-297.46	4708.10	1.06
11,755	88.30	359.00	7,439	4774.86	-299.25	4784.03	0.93
11,810	88.30	359.00	7,441	4829.83	-300.20	4838.97	0.00