

ORIGINAL

SPERRY-SUN DRILLING SERVICES 1994
SURVEY DATA

KCC

SEP 29

MOBIL OIL
TATE

CONFIDENTIAL

CONFIDENTIAL

CONSERVATION DIVISION
WICHITA, KS

03-JUL-1994
00:30:05

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.44	106.50	100.00	0.11 S	0.37 E	0.09	0.44
200.00	0.41	135.50	200.00	0.47 S	0.99 E	0.42	0.21
300.00	0.46	110.20	299.99	0.87 S	1.61 E	0.78	0.20
400.00	0.58	78.20	399.99	0.90 S	2.49 E	0.77	0.31
500.00	0.68	95.20	499.98	0.85 S	3.57 E	0.66	0.21
600.00	0.64	107.30	599.98	1.07 S	4.70 E	0.82	0.14
700.00	0.94	106.80	699.97	1.48 S	6.02 E	1.16	0.30
800.00	1.02	78.10	799.95	1.53 S	7.67 E	1.13	0.49
900.00	1.15	126.80	899.94	1.95 S	9.35 E	1.46	0.90
1000.00	1.36	126.10	999.91	3.25 S	11.11 E	2.66	0.21
1100.00	1.22	137.80	1099.89	4.73 S	12.78 E	4.06	0.30
1200.00	1.55	136.00	1199.86	6.50 S	14.44 E	5.73	0.33
1300.00	1.78	130.70	1299.82	8.48 S	16.55 E	7.60	0.28
1400.00	1.97	139.20	1399.76	10.80 S	18.86 E	9.80	0.34
1500.00	1.56	150.60	1499.72	13.28 S	20.65 E	12.19	0.54
1600.00	1.17	137.30	1599.69	15.22 S	22.01 E	14.05	0.50
1700.00	1.07	106.30	1699.67	16.23 S	23.60 E	14.98	0.61
1800.00	1.02	105.00	1799.65	16.72 S	25.35 E	15.38	0.06
1900.00	1.01	99.80	1899.64	17.10 S	27.08 E	15.66	0.09
1928.00	1.64	114.68	1927.63	17.31 S	27.69 E	15.84	2.55
1958.00	2.20	146.76	1957.61	17.98 S	28.39 E	16.47	3.97
1989.00	3.78	168.31	1988.57	19.47 S	28.93 E	17.93	6.17
2020.00	6.07	176.82	2019.46	22.11 S	29.22 E	20.55	7.73
2052.00	8.52	180.25	2051.19	26.17 S	29.31 E	24.60	7.77
2084.00	10.93	181.39	2082.73	31.58 S	29.22 E	30.00	7.55
2116.00	11.99	181.55	2114.09	37.93 S	29.06 E	36.36	3.31
2147.00	13.22	184.14	2144.35	44.68 S	28.72 E	43.12	4.37
2179.00	15.66	188.54	2175.33	52.61 S	27.81 E	51.08	8.36
2212.00	18.38	189.65	2206.88	62.14 S	26.28 E	60.68	8.30
2243.00	21.73	191.11	2236.00	72.60 S	24.35 E	71.22	10.93
2274.00	24.94	190.64	2264.46	84.65 S	22.04 E	83.38	10.37
2316.00	28.76	189.49	2301.93	103.33 S	18.74 E	102.21	9.18
2347.00	32.00	188.53	2328.67	118.81 S	16.29 E	117.80	10.57
2378.00	35.26	186.74	2354.48	135.82 S	14.02 E	134.91	10.99
2410.00	38.65	184.85	2380.05	154.96 S	12.09 E	154.12	11.17
2441.00	42.24	184.20	2403.63	175.01 S	10.51 E	174.22	11.66
2470.00	45.95	184.11	2424.46	195.13 S	9.05 E	194.39	12.79
2504.00	49.57	184.06	2447.31	220.23 S	7.25 E	219.55	10.65
2536.00	53.38	184.22	2467.24	245.20 S	5.44 E	244.58	11.91

RELEASED

OCT 6 1998

FROM CONFIDENTIAL

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SEP 30 1994

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MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
2568.00	57.17	184.47	2485.46	271.42 S	3.45 E	270.86	11.86
2599.00	60.95	184.42	2501.40	297.92 S	1.39 E	297.44	12.19
2630.00	65.00	184.18	2515.48	325.45 S	0.68 W	325.04	13.08
2662.00	69.08	184.10	2527.96	354.83 S	2.80 W	354.50	12.75
2693.00	73.20	184.13	2537.98	384.09 S	4.91 W	383.82	13.29
2725.00	77.51	184.94	2546.07	414.94 S	7.36 W	414.76	13.69
2756.00	81.42	184.75	2551.74	445.31 S	9.93 W	445.22	12.63
2786.00	86.05	184.72	2555.01	475.02 S	12.39 W	475.01	15.43
2817.00	89.95	184.32	2556.09	505.90 S	14.83 W	505.98	12.65
2849.00	90.10	184.10	2556.07	537.81 S	17.18 W	537.97	0.83
2881.00	89.46	183.81	2556.20	569.73 S	19.39 W	569.97	2.20
2913.00	89.14	183.66	2556.59	601.66 S	21.47 W	601.96	1.10
2945.00	89.54	184.05	2556.96	633.59 S	23.63 W	633.96	1.75
2976.00	90.09	184.01	2557.06	664.51 S	25.80 W	664.95	1.78
3007.00	90.58	183.64	2556.88	695.44 S	27.87 W	695.95	1.98
3039.00	90.83	183.74	2556.48	727.37 S	29.93 W	727.94	0.84
3071.00	90.34	182.67	2556.16	759.32 S	31.72 W	759.94	3.68
3102.00	90.04	182.64	2556.05	790.29 S	33.16 W	790.94	0.97
3215.00	89.80	181.50	2556.21	903.21 S	37.24 W	903.92	1.03
3309.00	88.50	181.20	2557.61	997.17 S	39.45 W	997.87	1.42
3343.00	88.10	181.10	2558.61	1031.15 S	40.13 W	1031.84	1.21
3374.00	89.00	180.60	2559.40	1062.14 S	40.59 W	1062.81	3.32
3405.00	90.30	180.90	2559.59	1093.13 S	41.00 W	1093.78	4.30
3516.00	91.87	182.27	2557.49	1204.07 S	44.07 W	1204.72	1.88
3549.00	93.15	181.18	2556.04	1237.02 S	45.06 W	1237.68	5.09
3581.00	94.24	181.61	2553.98	1268.94 S	45.84 W	1269.60	3.66
3609.00	93.35	181.18	2552.13	1296.87 S	46.52 W	1297.53	3.53
3656.00	92.90	181.56	2549.56	1343.79 S	47.64 W	1344.44	1.25
3683.00	90.80	181.68	2548.69	1370.76 S	48.40 W	1371.42	7.79
3700.00	89.32	181.19	2548.67	1387.75 S	48.83 W	1388.41	9.17
3732.00	89.19	181.40	2549.09	1419.74 S	49.55 W	1420.39	0.77
3771.00	89.50	181.77	2549.54	1458.72 S	50.63 W	1459.38	1.24
3803.00	89.46	181.56	2549.83	1490.71 S	51.56 W	1491.37	0.67
3830.00	89.65	181.58	2550.04	1517.70 S	52.30 W	1518.36	0.71
3870	89.40	181.60	2550.23	1557.68 S	53.41	1558.34	3.8

THE DOGLEG SEVERITY IS IN DEGREES PER 100 FEET
THE VERTICAL SECTION WAS COMPUTED ALONG 183.00°

RELEASED

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE
DISPLACEMENT IS 1518.6 FEET IN THE DIRECTION OF 181.97°
COORDINATE VALUES ARE GIVEN RELATIVE TO THE PLATFORM REFERENCE POINT
VERTICAL SECTION IS GIVEN RELATIVE TO THE WELLHEAD LOCATION
FROM CONFIDENTIAL

OCT 6 1998