

PETROLEUM DEVELOPMENT CORPORATION
STRANGE FEDERAL NO. 5, slot #1
TOM TOM, CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 3
Your ref : STEERING TOOL SRH SURVEY
Last revised : 6-Jul-93

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100Ft	Vert Sect
4420.00	87.60	221.00	4069.98	97.38 S	359.49 W	26.17	369.85
4430.00	87.60	218.80	4070.40	105.05 S	365.90 W	21.98	378.66
4440.00	88.00	216.90	4070.79	112.94 S	372.03 W	19.40	387.29
4450.00	88.10	212.10	4071.13	121.17 S	377.69 W	47.98	395.62
4460.00	89.10	209.70	4071.37	129.75 S	382.82 W	25.99	403.58
4470.00	89.60	208.60	4071.48	138.48 S	387.69 W	12.08	411.36
4480.00	91.40	206.60	4071.40	147.34 S	392.32 W	26.91	418.97
4490.00	92.40	203.60	4071.07	156.39 S	396.56 W	31.61	426.28
4500.00	93.00	201.30	4070.60	165.62 S	400.38 W	23.74	433.26
4510.00	93.00	198.30	4070.07	175.02 S	403.76 W	29.96	439.91
4520.00	93.60	199.50	4069.50	184.46 S	406.99 W	13.40	446.43
4530.00	94.70	201.20	4068.77	193.81 S	410.46 W	20.21	453.14
4540.00	94.60	202.90	4067.96	203.05 S	414.20 W	16.97	460.06
4550.00	96.10	205.00	4067.03	212.15 S	418.24 W	25.73	467.21
4560.00	96.40	206.80	4065.94	221.09 S	422.59 W	18.14	474.57
4570.00	97.70	207.20	4064.71	229.93 S	427.09 W	13.59	482.05
4580.00	99.00	208.60	4063.26	238.68 S	431.72 W	19.00	489.61
4590.00	100.10	210.00	4061.60	247.28 S	436.55 W	17.65	497.30
4600.00	101.60	212.10	4059.72	255.69 S	441.61 W	25.50	505.14
4610.00	102.20	214.10	4057.66	263.89 S	446.95 W	20.47	513.16
4630.00	101.20	217.60	4053.60	279.76 S	458.42 W	17.85	529.72
4635.00	100.80	219.50	4052.65	283.60 S	461.48 W	38.15	533.99
4640.00	100.60	220.70	4051.72	287.36 S	464.65 W	23.92	538.33
4645.00	100.60	222.00	4050.80	291.04 S	467.89 W	25.56	542.72
4650.00	100.30	223.50	4049.89	294.66 S	471.23 W	30.11	547.16
4655.00	99.60	224.40	4049.03	298.20 S	474.65 W	22.59	551.66
4660.00	99.00	225.30	4048.22	301.70 S	478.13 W	21.44	556.19
4665.00	98.80	226.50	4047.44	305.14 S	481.68 W	24.05	560.76
4670.00	98.30	227.20	4046.70	308.52 S	485.28 W	17.08	565.37
4675.00	97.80	227.80	4046.00	311.86 S	488.93 W	15.53	570.01
4680.00	97.80	227.90	4045.32	315.19 S	492.61 W	1.98	574.66
4685.00	97.20	228.60	4044.67	318.49 S	496.30 W	18.35	579.32
4690.00	96.50	229.70	4044.07	321.73 S	500.06 W	25.94	584.02
4695.00	95.70	230.50	4043.54	324.92 S	503.87 W	22.56	588.74
4700.00	94.80	233.40	4043.08	327.99 S	507.79 W	60.50	593.53
4705.00	93.50	234.80	4042.72	330.92 S	511.83 W	38.16	598.37
4710.00	92.40	235.40	4042.47	333.77 S	515.93 W	25.05	603.23
4715.00	90.40	235.30	4042.34	336.61 S	520.04 W	40.05	608.11
4720.00	88.70	235.50	4042.38	339.45 S	524.16 W	34.23	612.98
4725.00	87.90	235.80	4042.53	342.27 S	528.28 W	17.09	617.86
4735.00	87.80	237.50	4042.91	347.77 S	536.63 W	17.02	627.66
4745.00	87.90	239.20	4043.28	353.01 S	545.14 W	17.02	637.51
4755.00	86.70	240.90	4043.75	358.00 S	553.79 W	20.79	647.40
4760.00	86.50	242.00	4044.05	360.38 S	558.17 W	22.32	652.36
4765.00	86.70	243.00	4044.35	362.69 S	562.60 W	20.36	657.32
4775.00	86.90	244.00	4044.90	367.14 S	571.54 W	10.18	667.28
4785.00	85.00	244.70	4045.61	371.46 S	580.53 W	20.24	677.23
4790.00	84.10	244.90	4046.08	373.58 S	585.03 W	18.44	682.20
4800.00	83.40	244.90	4047.17	377.80 S	594.03 W	7.00	692.12
4810.00	81.80	244.00	4048.46	382.07 S	602.98 W	18.32	702.02

All data is in feet unless otherwise stated
Coordinates from structure and TVD from wellhead.
Vertical section is from wellhead on azimuth 248.08 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

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