

*** G E O prati-37 DIRECTIONAL WELL SURVEY ***

Vertical section calculated in plane of proposal
 Direction : S 40 W

** 1**

Date: 01/21/86

MEASURED DEPTH feet	DRIFT ANGLE deg. min	DRIFT DIRECTION deg	COURSE LENGTH feet	TRUE VERT. DEPTH feet	RECTANGULAR COORDINATES feet	SEC- TION feet	DOGLEG SEVERITY dg/100ft		
0	0	0	0	0.00	0.00	0.00	0.00		
162	0	30	s 65w	162	0.30S	0.64W	0.31		
319	0	30	n 52w	157	0.14S	2.00W	0.33		
471	1	15	s 78w	152	0.38N	4.26W	0.66		
623	1	30	s 77w	152	0.41S	7.82W	0.17		
782	1	15	s 76w	159	1.30S	11.53W	0.16		
934	1	15	s 78w	152	2.05S	14.77W	0.00		
1090	2	0	n 84w	156	2.28S	19.18W	0.58		
1247	2	0	n 87w	157	1.85S	24.65W	0.07		
1403	2	30	n 68w	156	0.52S	30.62W	0.57		
1555	2	30	n 68w	152	1.96N	36.77W	0.00		
1674	2	0	n 70w	119	3.63N	41.13W	0.43		
1869	2	15	n 85w	195	5.20N	48.19W	0.31		
2026	2	15	n 87w	157	5.63N	54.34W	0.05		
2180	2	0	s 84w	154	5.48N	60.05W	0.27		
2335	2	45	s 82w	155	4.70N	66.43W	0.49		
2492	2	45	s 79w	157	3.45N	73.85W	0.09		
2590	3	0	s 79w	98	2.52N	78.68W	0.25		
2741	3	30	s 73w	151	0.44N	86.99W	0.40		
2833	3	30	s 68w	92	1.43S	92.28W	0.33		
2959	3	45	s 70w	126	4.28S	99.72W	0.22		
3115	4	15	s 68w	156	8.18S	109.88W	0.33		
3269	4	30	s 64w	154	12.96S	120.61W	0.26		
3424	4	45	s 67w	155	18.15S	131.98W	0.22		
3581	4	45	s 74w	157	22.49S	144.24W	0.37		
3737	4	45	s 83w	156	25.06S	156.90W	0.48		
3892	4	30	s 77w	155	27.23S	169.20W	0.35		
4046	4	45	s 78w	154	29.92S	181.33W	0.17		
4093	6	0	s 78w	47	30.83S	185.63W	2.66		
4126	6	30	s 70w	33	31.82S	189.09W	3.04		
4158	7	15	s 61w	32	4151.82	33.41S	192.57W	149.38	4.10
4190	7	45	s 53w	32	4183.55	35.69S	196.08W	153.37	3.62
4221	8	0	s 47w	31	4214.26	38.42S	199.33W	157.56	2.77
4253	9	0	s 41w	32	4245.90	41.82S	202.62W	162.27	4.17
4328	8	30	s 35w	75	4320.03	50.81S	209.64W	173.68	1.39
4452	8	45	s 34w	124	4442.63	66.14S	220.17W	192.19	0.23
4576	9	0	s 32w	124	4565.14	82.18S	230.59W	211.18	0.32
4700	9	0	s 34w	124	4687.62	98.45S	241.16W	230.43	0.25
4758	9	15	s 32w	58	4744.88	106.16S	246.17W	239.56	0.70
4853	9	0	s 26w	95	4838.68	119.34S	253.47W	254.35	1.04

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** 2**

Date: 01/21/86

MEASURED DEPTH feet	DRIFT ANGLE deg. min	DRIFT DIRECTION deg	COURSE LENGTH feet	TRUE VERT. DEPTH feet	RECTANGULAR COORDINATES feet	SEC-TION feet	DOGLEG SEVERITY dg/100ft
4945	9 15	S 27W	92	4929.52	132.40S 259.98W	268.53	0.32
5038	9 15	S 30W	93	5021.31	145.54S 267.11W	283.18	0.52
5101	9 0	S 32W	63	5083.51	154.10S 272.26W	293.05	0.64
5155	9 36	S 29W	54	5136.80	161.62S 276.69W	301.66	1.43
5187	9 36	S 26W	32	5168.35	166.35S 279.15W	306.87	1.57
5249	9 30	S 21W	62	5229.49	175.79S 283.25W	316.73	1.35
5295	9 0	S 14W	46	5274.89	182.84S 285.48W	323.56	2.67
5376	8 30	S 11W	81	5354.95	194.87S 288.14W	334.49	0.84
5467	8 15	S 12W	91	5444.98	207.86S 290.79W	346.14	0.32
5552	8 30	S 20W	85	5529.08	219.76S 294.20W	357.45	1.40
5697	9 0	S 27W	145	5672.39	239.98S 303.00W	378.60	0.81
5823	9 45	S 32W	126	5796.70	257.85S 313.10W	398.78	0.88
5982	10 0	S 38W	159	5953.35	280.19S 328.74W	425.95	0.67
6119	10 45	S 37W	137	6088.11	299.76S 343.76W	450.59	0.56
6247	11 15	S 34W	128	6213.76	319.64S 357.94W	474.94	0.59
6405	11 30	S 37W	158	6368.65	345.01S 376.04W	506.01	0.41
6531	12 15	S 33W	126	6491.96	366.25S 390.91W	531.84	0.88
6658	12 30	S 38W	127	6616.01	388.41S 406.72W	558.97	0.87
6754	12 45	S 34W	96	6709.69	405.38S 419.05W	579.90	0.95
6911	13 0	S 38W	157	6862.74	433.69S 439.61W	614.80	0.59
7069	13 30	S 38W	158	7016.53	462.22S 461.91W	650.99	0.32
7229	13 15	S 34W	160	7172.19	492.17S 483.66W	687.91	0.60
7324	13 45	S 34W	95	7264.57	510.55S 496.07W	709.97	0.53
7410	14 0	S 34W	86	7348.06	527.65S 507.60W	730.48	0.29
7505	15 45	S 32W	95	7439.87	548.10S 520.88W	754.69	1.92
7662	16 0	S 30W	157	7590.89	584.91S 543.00W	797.10	0.38
7758	15 0	S 32W	96	7683.39	606.91S 556.21W	822.44	1.18
7915	16 0	S 34W	157	7834.68	642.09S 579.06W	864.09	0.72
8076	17 15	S 32W	161	7988.95	680.72S 604.15W	909.81	0.85
8232	17 45	S 30W	156	8137.73	720.93S 628.31W	956.14	0.50
8359	17 15	S 32W	127	8258.86	753.67S 647.98W	993.86	0.62
8521	17 0	S 30W	162	8413.67	794.56S 672.55W	1040.97	0.40
8647	17 15	S 32W	126	8534.09	826.36S 691.66W	1077.62	0.51
8740	18 0	S 34W	93	8622.72	849.98S 706.99W	1105.57	1.04
8836	19 15	S 32W	96	8713.70	875.69S 723.69W	1136.00	1.46
8919	19 15	S 32W *	83	8792.06	898.90S 738.19W	1163.10	0.00

Closure distance : 1163.16 feet.
angle : S 39 deg 23 min W

**** END OF REPORT ****

* Projected

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