

APPENDICES 4

DEVIATION RECORD

GEARHART DEVIATION SURVEYS - WEST MERENIE 4.

DEPTH (ft.)	DEVIATION (deg.)	DIFFERENCE (ft.)	MEAN DEV. (deg.)	MAX. HORIZON DRIFT (ft.)	CUM. (ft.)	VERTICAL DEPTH CORRECTION (ft.)	CUM. (ft.)	TRUE VERTICAL DEPTH (ft.)
2200	2							2200
2230	2	30	2.00	1.05	1.05	0.02	0.02	2229.92
2260	2.3	30	2.15	1.12	2.17	0.02	0.04	2259.96
2290	2.7	30	2.50	1.31	3.48	0.03	0.07	2289.93
2320	2.8	30	2.75	1.44	4.92	0.04	0.11	2319.89
2350	2.9	30	2.85	1.49	6.41	0.04	0.15	2349.85
2380	3.1	30	3.00	1.57	7.98	0.04	0.19	2379.81
2410	3.5	30	3.30	1.73	9.71	0.05	0.24	2409.76
2440	3.7	30	3.60	1.88	11.59	0.06	0.30	2439.70
2470	4.1	30	3.90	2.04	13.63	0.07	0.37	2469.63
2500	4.4	30	4.25	2.22	15.85	0.08	0.45	2499.55
2530	4.7	30	4.55	2.38	18.23	0.10	0.55	2529.45
2560	4.8	30	4.75	2.48	20.71	0.10	0.65	2559.35
2590	4.9	30	4.85	2.54	23.25	0.11	0.76	2589.24
2620	5.1	30	5.00	2.61	25.86	0.11	0.87	2619.13
2650	5.3	30	5.20	2.72	28.58	0.12	0.99	2649.01
2680	5.5	30	5.40	2.82	31.40	0.13	1.12	2678.88
2710	5.6	30	5.55	2.90	34.30	0.14	1.26	2708.74
2740	5.6	30	5.60	2.93	37.23	0.14	1.40	2738.60
		30	5.70	2.98	40.21	0.15	1.55	

DEPTH (ft.)	DEVIATION (deg.)	DIFFERENCE (ft.)	MEAN DEV. (deg.)	MAX. HORIZON DRIFT (ft.)	CUM. (ft.)	VERTICAL DEPTH CORRECTION (ft.)	CUM. (ft.)	TRUE VERTICAL DEPTH (ft.)
2770	5.8							
		30	5.85	3.06	43.27	0.16	1.71	2768.45
2800	5.9							
		30	6.00	3.14	46.41	0.16	1.87	2798.29
2830	6.1							
		30	6.20	3.24	49.65	0.18	2.05	2828.13
2860	6.3							
		30	6.35	3.32	52.97	0.18	2.23	2857.95
2890	6.4							
		30	6.45	3.37	56.34	0.19	2.42	2887.73
2920	6.5							
		30	6.60	3.45	59.79	0.20	2.62	2917.58
2950	6.7							
		30	6.75	3.53	63.32	0.21	2.83	2947.38
2980	6.8							
		30	6.90	3.60	66.92	0.22	3.05	2877.17
3010	7.0							
		30	7.15	3.73	70.65	0.23	3.28	3006.95
3040	7.3							
		30	7.40	3.86	74.51	0.25	3.53	3036.72
3070	7.5							
		30	7.65	3.99	78.50	0.27	3.80	3066.47
3100	7.8							
		30	7.90	4.12	82.62	0.28	4.08	3096.20
3130	8.0							
		30	8.10	4.23	86.85	0.30	4.38	3125.92
3160	8.2							
		30	8.25	4.30	91.15	0.31	4.69	3155.62
3190	8.3							
		30	8.45	4.41	95.56	0.33	5.02	3185.31
3220	8.6							
		30	8.80	4.59	100.15	0.35	5.37	3214.98
3250	9.0							
		30	9.30	4.85	105.00	0.40	5.77	3244.63
3280	9.6							
		30	10.05	5.24	110.24	0.46	6.23	3274.23
3310	10.5							
		30	10.85	5.65	115.89	0.54	6.77	3303.77

DEPTH (ft.)	DEVIATION (deg.)	DIFFERENCE (ft.)	MEAN DEV. (deg.)	MAX. HORIZON DRIFT (ft.)	CUM. (ft.)	VERTICAL DEPTH CORRECTION (ft.)	CUM. (ft.)	TRUE VERTICAL DEPTH (ft.)
3340	11.2							
		30	11.45	5.96	121.85	0.60	7.37	3333.23
3370	11.7							
		30	11.85	6.16	128.01	0.64	8.01	3362.63
3400	12.0							
		30	11.75	6.11	134.12	0.63	8.64	3391.99
3430	11.5							
		30	11.40	5.93	140.05	0.59	9.23	3421.36
3460	11.3							
		30	11.25	5.85	145.90	0.58	9.81	3450.77
3490	11.2							
		30	11.10	5.78	151.68	0.56	10.37	3480.19
3520	11.0							
		30	11.00	5.72	157.40	0.55	10.92	3509.63
3550	11.0							
		30	11.00	5.72	163.12	0.55	11.47	3539.08
3580	11.0							
		30	11.00	5.72	168.84	0.55	12.02	3568.53
3610	11.0							
		30	10.95	5.70	174.54	0.55	12.57	3597.98
3640	10.9							
		30	10.85	5.65	180.19	0.54	13.11	3627.43
3670	10.8							
		30	10.70	5.57	185.76	0.52	13.63	3656.89
3700	10.6							
		30	10.70	5.57	191.33	0.52	14.15	3686.37
3730	10.8							
		30	10.85	5.65	196.98	0.54	14.69	3715.85
3760	10.9							
		30	11.00	5.72	202.70	0.55	15.24	3745.31
3790	11.1							
		30	11.20	5.83	208.53	0.57	15.81	3774.76
3820	11.3							
		30	11.55	6.01	214.54	0.61	16.42	3804.19
3850	11.8							
		30	11.90	6.19	220.73	0.64	17.06	3833.58
3880	12.0							
		30	12.10	6.29	227.02	0.67	17.73	3862.94

DEPTH (ft.)	DEVIATION (deg.)	DIFFERENCE (ft.)	MEAN DEV. (deg.)	MAX. HORIZON DRIFT (ft.)	CUM. (ft.)	VERTICAL DEPTH CORRECTION (ft.)	CUM. (ft.)	TRUE VERTICAL DEPTH (ft.)
3910	12.2							
		30	12.30	6.39	233.41	0.69	18.42	3892.27
3940	12.4							
		30	12.45	6.47	239.88	0.71	19.13	3921.58
3970	12.5							
		13	12.50	2.81	242.69	0.31	19.62	3950.87
3983	12.5							
		33	12.62	7.21	249.90	0.80	20.42	3963.38
4016	12.75							
		32	12.88	7.13	257.03	0.81	21.23	3995.58
4048	13.00							
		34	13.38	7.87	264.90	0.92	22.15	4026.77
4082	13.75							
		32	14.13	7.81	272.71	0.97	23.12	4059.85
4114	14.50							
		32	14.75	8.15	280.86	1.06	24.18	4090.88
4146	15.00							
		30	15.38	7.96	288.82	1.07	25.25	4121.82
4176	15.75							
		31	15.87	8.48	297.30	1.18	26.43	4150.75
4207	16.00							
		32	16.25	8.95	306.25	1.28	27.71	4180.57
4239	16.50							
		33	16.37	9.30	322.62	1.34	29.05	4211.29
4272	16.25							
		31	16.75	8.93	331.55	1.32	30.37	4242.95
4303	17.25							
		30	17.21	8.88	340.43	1.34	31.71	4272.63
4333	17.00							
		32	17.50	9.62	350.05	1.48	33.19	4301.29
4365	18.00							
		32	18.00	9.89	359.94	1.57	34.76	4331.81
4397	18.00							
		31	18.00	9.58	369.52	1.52	36.28	4362.24
4428	18.00							
		33	18.00	10.20	379.72	1.62	37.90	4391.72



# OILMIN N.L.

## WEST MEREEIE No.4A

DATE: 31-7-83

TYPE OF SURVEY: MAGNETIC SINGLE SHOT SURVEY

DIRECTIONAL SUPERVISION: HOFKO OILFIELD SERVICES PTY.LTD.

SHEET L OF 2

SURVEY NUMBER	MEASURED DEPTH	ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	DIRECTION	RECTANGULAR COORDINATES			
						NORTH	SOUTH	EAST	WEST
1	2300	1.25	2299.98	1.72	S 45.0 W		1.54		1.54
2	2374	2.75	2373.81	4.68	S 40.25 W		4.25		3.83
3	2406	4.1	2405.73	6.81	S 29.0 W		6.25		4.94
4	2437	6.45	2436.56	10.20	S 20.0 W		9.52		6.13
5	2468	8.73	2467.20	14.83	S 17.0 W		14.01		7.50
6	2500	10.88	2498.63	20.76	S 18.0 W		19.75		9.37
7	2532	12.95	2529.82	27.77	S 19.0 W		26.53		11.70
8	2564	14.83	2560.75	35.85	S 16.5 W		34.38		14.03
9	2595	16.41	2590.48	44.56	S 13.5 W		42.91		16.08
10	2660	19.00	2651.94	65.67	S 11.00 W		63.68		20.12
11	2723	22.15	2710.29	89.40	S 9.5 W		87.10		24.04
12	2817	24.9	2795.55	128.93	S 9.75 W		126.11		30.74
13	2849	26.83	2824.11	143.35	S 9.75 W		140.34		33.19
14	2921	27.83	2887.79	176.91	S 10.00 W		173.44		39.03
15	2984	28.45	2943.18	206.86	S 10.75 W		202.92		44.63
16	3079	28.65	3026.55	252.27	S 11.50 W		247.56		53.71
17	3179	29.20	3113.84	300.87	S 12.00 W		295.28		63.85
18	3250	29.43	3175.68	335.62	S 12.00 W		329.40		71.11
19	3339	29.18	3253.39	378.83	S 12.25 W		371.80		80.31
20	3434	29.35	3336.20	425.07	S 13.75 W		417.03		91.38
21	3495	29.43	3389.33	454.73	S 15.25 W		445.94		99.26
22	3590	28.63	3472.72	499.68	S 16.00 W		489.69		111.80
23	3654	27.63	3529.42	528.95	S 16.50 W		518.15		120.23
24	3711	27.28	3580.06	554.71	S 16.50 W		543.19		127.65
25	3774	27.35	3636.04	583.21	S 17.00 W		570.87		136.11

# OILMIN N.L.

## WEST MEREE NIE No.4A

TYPE OF SURVEY: MAGNETIC SINGLE SHOT SURVEY

DATE: 31-7-83

DIRECTIONAL SUPERVISION: HOFCO OILFIELD SERVICES PTY.LTD.

SHEET 2 OF 2

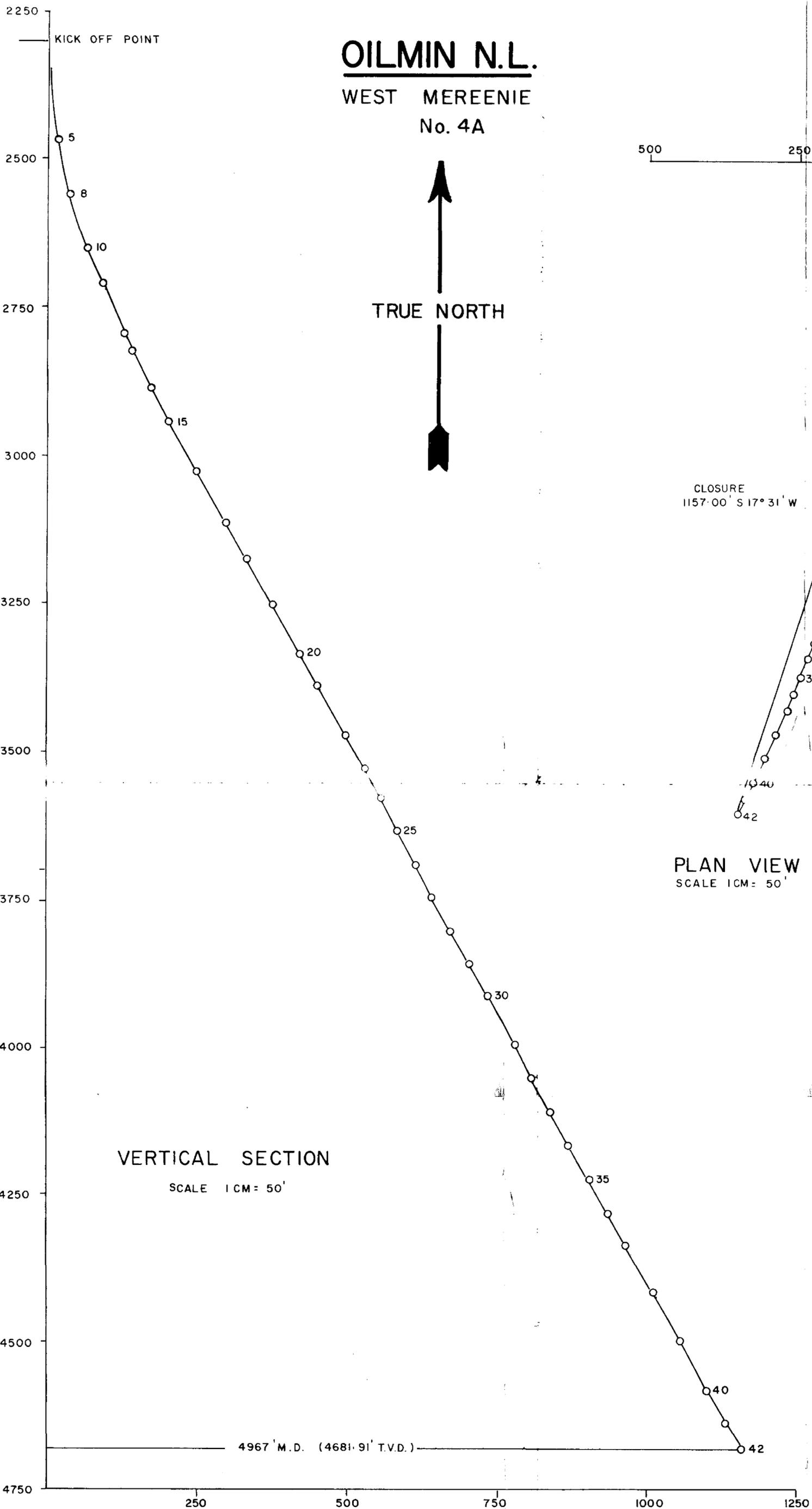
SURVEY NUMBER	MEASURED DEPTH	ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	DIRECTION	RECTANGULAR COORDINATES			
						NORTH	SOUTH	EAST	WEST
26	3838	27.60	3692.76	612.36	S 17.50 W		599.15		145.03
27	3902	28.28	3749.12	642.17	S 17.50 W		628.07		154.15
28	3965	28.88	3804.25	672.06	S 17.75 W		657.04		163.42
29	4028	28.88	3859.46	701.87	S 18.50 W		685.89		173.07
30	4091	28.73	3914.71	731.49	S 19.00 W		714.52		182.93
31	4185	28.48	3997.34	775.25	S 19.50 W		756.77		197.89
32	4249	27.78	4053.97	804.28	S 20.25 W		784.75		208.21
33	4315	27.75	4112.38	834.06	S 21.25 W		813.39		219.35
34	4378	28.70	4167.64	863.24	S 22.25 W		841.39		230.80
35	4446	29.35	4226.91	895.36	S 22.5 W		872.18		243.55
36	4510	29.45	4282.64	925.61	S 23.00 W		901.15		255.85
37	4572	29.35	4336.68	954.79	S 23.25 W		929.07		267.85
38	4662	29.05	4415.36	996.64	S 23.75 W		969.07		285.45
39	4757	28.78	4498.63	1040.31	S 24.25 W		1010.76		304.23
40	4852	29.00	4581.72	1084.18	S 24.75 W		1052.59		323.51
41	4915	29.33	4636.65	1113.40	S 25.75 W		1080.39		336.92
42	4967	29.50	4681.91	1137.54	S 26.5 W		1103.31		348.35
<u>CLOSURE:</u> 1157.00' S 17° 31' W									

# OILMIN N.L.

WEST MEREENIE

No. 4A

TRUE NORTH



500 250 SURFACE

CLOSURE  
1157.00' S 17° 31' W

PLAN VIEW  
SCALE 1CM = 50'

1340  
42

SURFACE

10

250

500

750

1000

1250