

TRIM

**REPORT
and
PLAN
of
SUB-SURFACE
MAGNETIC
SURVEY**

JAMES C. DUNIGAN
COCKBURN FEDERAL NO. 1
BUCKEYE, NEW MEXICO

JOB NO. WT 121460

DATE 12-16-60

HUGHMAN OIL WELL SURVEY COMPANY



RECORD OF SURVEY

JOB NO. WT 121160 DATE 12-16-60

CHECKED BY _____

STATION SURFACE	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
1	350 00	Vertical	100 00		29	Vertical	28		07	
2	450 00	0° 10'				N 14 E				
3	550 00	Vertical				Vertical				
4	650 00	Vertical	750 00			Vertical				
5	750 00	Vertical				Vertical				
6	850 00	Vertical			44	Vertical	65		30	
7	950 00	0° 15'			29	N 32 E	74		58	
8	1050 00	0° 10'				N 72 E	74		58	
9	1150 00	Vertical			58	Vertical	1 26		84	
10	1250 00	0° 20'	1250 00			N 27 E				
11	1350 00	0° 30'			87	N 07 E	2 12		95	
12	1450 00	0° 30'			87	N 18 W	2 95		68	
13	1550 00	0° 40'			1 16	N 28 W	3 97		14	
14	1650 00	0° 55'			1 60	N 18 W	5 49			
15	1750 00	1° 00'	1749 96		1 75	N 30 W	7 01			35
16	1850 00	0° 55'			1 60	N 43 W	8 18			1 23
17	1950 00	1° 00'			1 75	N 43 W	9 46			2 32
18	2050 00	0° 50'			1 45	N 42 W	10 54			3 51
19	2150 00	0° 55'			1 60	N 28 W	11 95			4 48
20	2250 00	0° 45'	2249 78		1 31	N 42 W	12 92			5 23
21	2350 00	0° 55'			1 60	N 38 W	14 18			6 11
22	2450 00	0° 45'			1 31	N 23 W	15 39			7 10
23	2550 00	0° 50'			1 45	N 08 W	16 83			7 61
24	2650 00	0° 45'			1 31	N 07 E	18 13			7 81
25	2750 00	1° 00'	2749 72		1 75	N 32 E	19 61			7 65



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STATION - F.W.M.	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
26	2850 00	0° 45'			1 31	N 22 E	20 82			6 23
27	2950 00	0° 45'			1 31	N 19 E	22 06			5 80
28	3050 00	0° 50'			1 45	N 02 E	23 51			5 75
29	3150 00	0° 40'			1 16	North	24 67			5 75
30	3250 00	0° 40'	3249 67		1 16	North	25 83			5 75
31	3350 00	0° 30'			87	N 02 E	26 70			5 72
32	3450 00	0° 30'			87	N 17 E	27 53			5 47
33	3550 00	0° 40'			1 16	N 08 W	28 68			5 63
34	3650 00	0° 30'			87	N 02 E	29 53			5 60
35	3750 00	0° 30'	3749 66		87	N 03 W	30 42			5 65
36	3850 00	0° 40'			1 16	N 12 W	31 55			5 89
37	3950 00	0° 45'			1 31	N 07 E	32 85			5 73
38	4050 00	0° 30'			87	N 14 E	33 69			5 52
39	4150 00	0° 45'			1 31	N 02 E	35 00			5 47
40	4250 00	0° 30'	4249 63		87	N 26 W	35 78			5 85
41	4350 00	0° 45'			1 31	N 13 W	37 06			6 14
42	4450 00	0° 30'			87	N 23 W	37 86			6 48
43	4550 00	0° 30'			87	N 18 W	38 69			6 75
44	4662 00	0° 15'			49	N 55 E	38 97			6 35
45	4819 00	0° 45'	4818 60		2 06	N 62 E	39 94			4 53
46	4966 00	0° 55'			2 35	N 34 E	41 89			3 22
47	5059 00	0° 15'			41	N 12 W	42 29			3 31
48	5224 00	1° 10'			3 37	N 02 E	45 66			3 19
49	5318 00	0° 45'			1 23	N 40 E	46 60			2 40
50	5412 00	1° 00'	5411 53		1 65	N 74 E	47 05			81



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STATION No.	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
51	5567 00	1° 00'			2 71	N 87 E	47 19		1 90	
52	5650 00	0° 15'			37	N 62 E	47 36		2 23	
53	5753 00	1° 00'			1 80	N 32 E	48 89		3 18	
54	5860 00	1° 30'			2 80	N 32 E	51 26		4 66	
55	5940 00	2° 00'	5939 40		2 79	N 22 E	53 85		5 71	
56	6152 00	3° 00'			11 09	N 22 E	64 13		9 86	
57	6248 00	2° 30'			4 19	N 22 E	68 01		11 43	
58	6308 00	2° 45'			2 88	N 32 E	70 45		12 96	
59	6432 00	3° 00'			6 49	N 38 E	75 56		16 96	
60	6555 00	2° 15'	6553 66		4 83	N 38 E	79 37		19 93	
61	6648 00	2° 30'			4 05	N 35 E	82 69		22 25	
62	6773 00	1° 45'			3 81	N 43 E	85 48		24 85	
63	6836 00	2° 15'			2 48	N 56 E	86 87		26 91	
64	6950 00	3° 45'			7 46	N 78 E	88 42		34 21	
65	6959 00	2° 45'	6957 21		43	N 67 E	88 59		34 61	
66	7001 00	1° 30'			1 10	N 33 W	89 51		34 01	
67	7085 00	2° 15'			3 30	N 58 W	91 26		31 21	
68	7170 00	1° 55'			2 84	N 48 W	93 16		29 10	
69	7271 00	2° 30'			4 40	N 23 W	97 21		27 38	
70	7390 00	2° 30'	7387 95		5 19	N 08 W	102 35		26 66	
71	7489 00	2° 15'			3 89	North	106 24		26 66	
72	7581 00	2° 40'			4 28	N 07 E	110 49		27 18	
73	7648 00	3° 00'			3 50	N 04 E	113 98		27 42	
74	7713 00	3° 15'			3 69	N 10 E	117 61		28 06	
75	7827 00	3° 30'	7824 36		6 95	N 27 E	123 80		31 22	



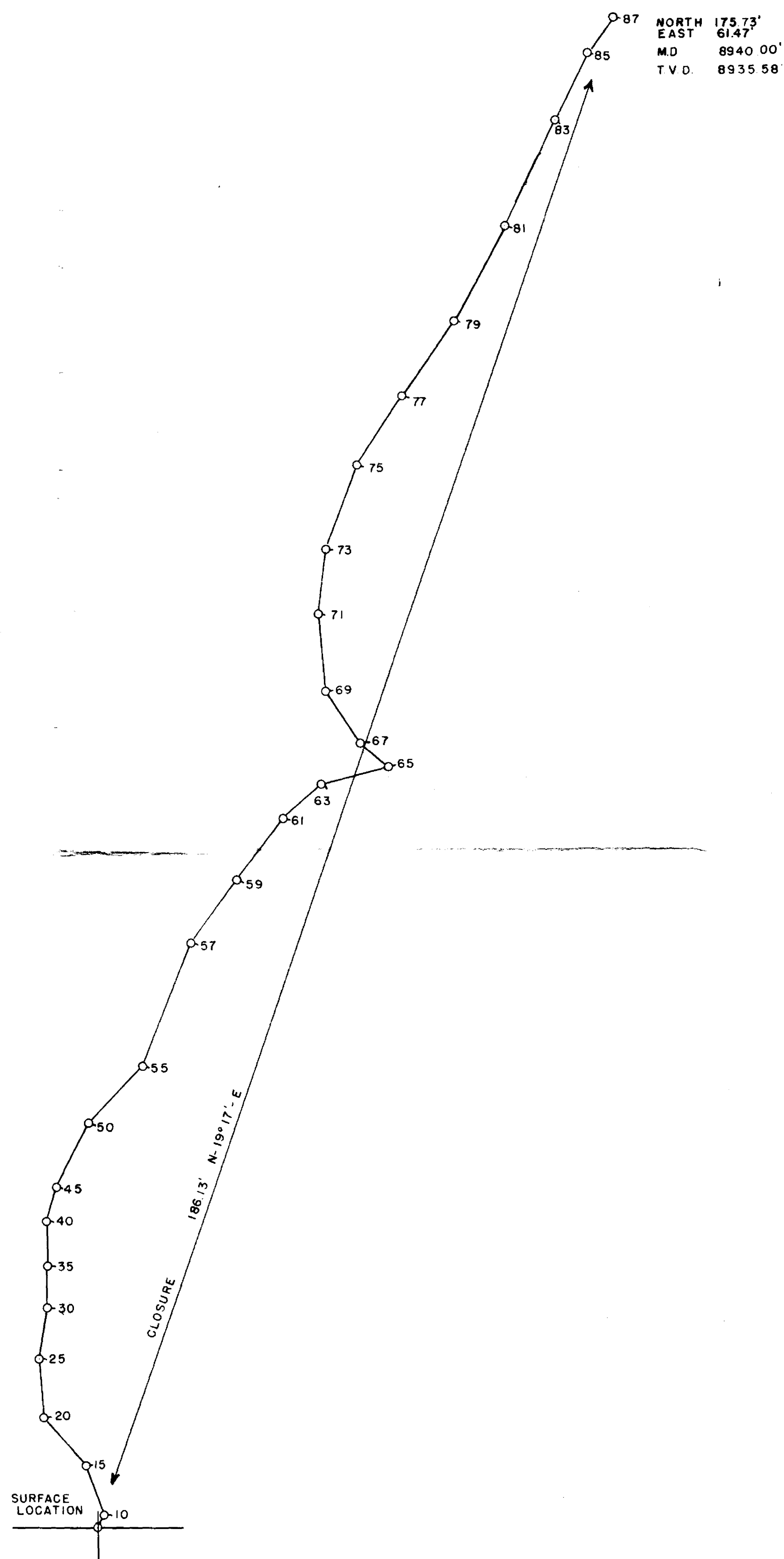
RECORD OF SURVEY

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STATION in feet	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
76	7888 00	4° 30'			4 79	N 32 E	127 86		33 76	
77	7950 00	4° 30'			4 87	N 34 E	131 90		36 48	
78	8010 00	4° 00'			4 19	N 34 E	135 37		38 82	
79	8102 00	4° 00'			6 42	N 37 E	140 50		42 68	
80	8196 00	3° 45'	8192 42		6 16	N 27 E	145 99		45 48	
81	8302 00	3° 30'			6 47	N 30 E	151 59		48 72	
82	8392 00	3° 15'			5 10	N 27 E	156 13		51 04	
83	8555 00	3° 00'			8 52	N 24 E	163 91		54 51	
84	8715 00	2° 45'			7 68	N 26 E	170 81		57 88	
85	8736 00	2° 30'	8731 64		92	N 32 E	171 59		58 37	
86	8779 00	2° 00'			1 85	N 37 E	173 07		59 54	
87	8940 00	1° 15'	8935 58		3 29	N 36 E	175 73		61 47	
CLOSURE 186.13' NORTH 19° 17' EAST										

PLAN



Job No.