

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Applicant EXHIBIT No. 1
CASE 1285



SURVEY REPORT

*Case 1285
App. Ex 1*

EASTMAN OIL WELL SURVEY COMPANY

D E N V E R • L O N G B E A C H • H O U S T O N

Longview • Odessa • Oklahoma City • Lafayette • Casper • Bakersfield • Ventura • Calgary

WELL NO.

EASTMAN SURVEY REPORT

THIS IS A RECORD OF A SUB-SURFACE SURVEY OF YOUR WELL

It includes:

- 1. A title page giving the name of company, name and number of well, and the well location.**
- 2. A horizontal plan (as well would appear, if viewed from above), showing each point on the survey in relation to the surface location. The bearing and distance from surface to bottom of the well is given.**
- 3. A number of record of survey sheets, giving the true vertical depth, angle and direction of drift, and rectangular coordinates of each point on the survey. From these, geological correlations, sub-surface lease maps, etc., may be made. This information is especially valuable when straightening or redrilling work is contemplated.**
- 4. If requested, vertical sections will be made showing the course of the well in two planes. The well will appear as if it were viewed from the side.**

NOTE

This is a strictly confidential report, and can be secured by no one except with a written order from you. The photographic film on which this survey was made has been destroyed. We have an office copy of the survey. These records are kept locked and are held in the strictest confidence. Should you desire, you may have the office record also. The only reason we deem it advisable to preserve the office copy is for your convenience in case of loss of this report. All records of the survey are your property.

This report is made on tracing cloth and paper with India ink, in order that copies can be rapidly and cheaply made. This booklet can be forwarded to any blueprint company, where copies will be made for a nominal sum. Each sheet of this survey bears a job number, but only the title sheet carries the name. To insure secrecy the title page may be sent to one company and the balance to another.

SUGGESTIONS

If desired, the depths may be stated as true elevations from sea level, instead of depths below the derrick floor. If this is requested, please submit the elevation of the derrick floor, when ordering the survey.

In requesting vertical sections, the operator will find it much to his advantage to have them made with some respect to the formation. He should ascertain from his geologist on which particular plane the vertical section should be projected.

Should the operator care to have his lease lines or nearby property lines shown on the plan, he should submit the necessary data when ordering the survey.

When surveying a number of wells on one lease, it is always desirable to correlate the surveys in the form of a sub-surface lease map. Submit your survey records and surface lease dimensions, and we will be glad to make you such a map.

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

**CHAMPLIN OIL & REFG. CO.
STATE "NM"— A-1
TATUM, NEW MEXICO**

JOB NO. WT-65557

DATE 6-6-57

EASTMAN OIL WELL SURVEY COMPANY

DENVER, COLORADO

LONG BEACH, CALIFORNIA

HOUSTON, TEXAS

SURVEY BY

ODESSA, TEXAS

OFFICE



The field data for this survey from readings

RECORD OF SURVEY

that ²⁵ was obtained by

field engineer for
Eastman Oil Survey Co., and is supported by signed field records.
The computation and drafting of this report was done under my
supervision and is true and correct to the best of my knowledge.

DATE 6-6-57

JOB NO. WT 65557

CHECKED BY

EASTMAN OFFICE ENGINEER

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
1	70	50	T I C A L							18
2	132	90	T I C A L		54	S 20 W		1		36
3	195	30			54	S 20 W		02		51
4	257	70			36	S 24 W		1		66
5	320	10	320 10							
6	382	50			36	S 24 W		1		86
7	444	90	T I C A L							
8	507	30	T I C A L							
9	569	70			27	S 47 W		1		
10	632	10	632 10	V E R T I C A L						
11	694	50								
12	756	90	T I C A L							
13	819	30	T I C A L							
14	881	70	T I C A L							
15	994	10	944 10		54	N 44 W		1		24
16	1006	50								
17	1068	90	1006 50		54	N 44 W		1		62
18	1131	30			54	N 28 W				10
19	1193	70			54	N 15 W				62
20	1256	10	1256 08		82	N 14 W	72			42
					82	N 14 W	52			22
21	1318	50			54	N 16 E	04			07
22	1380	90	T I C A L							
23	1443	30	T I C A L							
24	1505	70			68	N 03 W				10
25	1568	10	T I C A L							



The field data for this survey from readings 2.6
thru 50 was obtained by Hatchinson
field engineer for
Eastman Oil Survey Co., and is supported by signed field records.
The computation and drafting of this report was done under my
supervision and is true and correct to the best of my knowledge.
J. C. Hatchinson
EASTMAN OFFICE ENGINEER

RECORD OF SURVEY

DATE 6-6-57

JOB NO. WT 6-5557

CHECKED BY

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
26	1630 50	VERTICAL	VERTICAL	VERTICAL			2 58			4 10
27	1692 90	VERTICAL	VERTICAL				2 35			4 59
28	1755 30	VERTICAL	VERTICAL				1 88			4 86
29	1817 70	VERTICAL	VERTICAL							
30	1880 10	VERTICAL	1880 08							
31	1942 50	0° 30'			54	S 65 W				
32	2004 90	0° 30'			54	S 30 W				
33	2067 30	VERTICAL	VERTICAL							
34	2129 70	VERTICAL	VERTICAL							
35	2192 10	0° 40'	2192 07		72	S 02 W	1 16			4 89
36	2254 50	0° 30'			54	S 08 E	63			4 81
37	2316 90	1° 00'			09	S 04 E		46		4 73
38	2379 30	1° 00'			09	S 15 E		51		4 45
39	2441 70	1° 00'			09	S 08 E		59		4 30
40	2504 10	0° 45'	2504 03		82	S 32 E		29		3 87
41	2566 50	VERTICAL	VERTICAL							
42	2628 90	VERTICAL	VERTICAL							
43	2691 30	1° 00'			09	N 43 W		49		4 61
44	2753 70	1° 00'			09	N 04 E		40		4 53
45	2816 10	1° 00'	2816 00		09	N 01 E		31		4 51
46	2878 50	0° 30'			54	N 07 E	24			4 44
47	2940 90	VERTICAL	VERTICAL							
48	3003 30	0° 15'			27	S 28 E	0			4 31
49	3065 70	0° 45'			82	S 15 E		79		4 10
50	3128 10	0° 45'	3127 98		82	S 15 E		58		3 89



The field data for this survey from readings 51 through 75 was obtained by Hutchinson

RECORD OF SURVEY

field engineer for Eastman Oil Survey Co., and is supported by signed field records. The computation and drafting of this report was done under my supervision and is true and correct to the best of my knowledge.

6-6-57

WT 65557

DATE

JOB NO.

CHECKED BY

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
51	3190 50	1° 00'			1 09	S 18 E		2 62		3 55
52	3252 90	1° 00'			1 09	S 22 E		3 63		3 14
53	3315 30	1° 00'			1 09	S 32 E		4 55		2 56
54	3377 70	1° 20'			1 45	S 66 E		5 14		1 24
55	3440 10	1° 00'	3239 92		1 09	S 31 E		6 07		68
56	3502 50	1° 00'			1 09	S 31 E		7 00		12
57	3564 90	1° 00'			1 09	S 33 E		7 91	47	
58	3627 30	1° 00'			1 09	S 50 E		8 61	1 30	
59	3689 70	1° 00'			1 09	S 52 E		9 28	2 16	
60	3752 10	1° 00'	3751 87		1 09	S 42 E		10 09	2 89	
61	3814 50	0° 45'			82	S 39 E		10 73	3 41	
62	3876 90	0° 45'			82	S 30 E		11 44	3 82	
63	3939 30	0° 30'			54	S 15 E		11 96	3 96	
64	4001 70	0° 30'			54	S 15 E		12 48	4 10	
65	4064 10	1° 00'	4063 84		1 09	S 43 E		13 28	4 84	
66	4126 50	1° 00'			1 09	S 43 E		14 08	5 58	
67	4188 90	1° 00'			1 09	S 36 E		14 96	6 22	
68	4251 30	0° 45'			82	S 47 E		15 52	6 82	
69	4313 70	1° 00'			1 09	S 25 E		16 51	7 28	
70	4376 10	1° 00'	4375 79		1 09	S 25 E		17 50	7 74	
71	4438 50	0° 30'			54	S 28 E		17 98	7 99	
72	4500 90	0° 30'			54	S 31 E		18 44	8 27	
73	4563 30	0° 15'			27	S 45 E		18 63	8 46	
74	4625 70	0° 15'			27	S 33 E		18 86	8 61	
75	4688 10		4687 79		VERTICAL					



The field data for this survey from readings 51
through 75 was obtained by Hutchinson field engineer for
Eastman Oil Survey Co., and is supported by signed field records.
The computation and drafting of this report was done under my
supervision and is true and correct to the best of my knowledge.
6-6-57
DATE
JOB NO. WT 65557
CHECKED BY [Signature]
EASTMAN OFFICE ENGINEER

RECORD OF SURVEY

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
51	3190 50	1° 00'			1 09	S 18 E		2 62		3 55
52	3252 90	1° 00'			1 09	S 22 E		3 63		3 14
53	3315 30	1° 00'			1 09	S 32 E		4 55		2 56
54	3377 70	1° 20'			1 45	S 66 E		5 14		2 24
55	3440 10	1° 00'	3439 92		1 09	S 31 E		6 07		1 68
56	3502 50	1° 00'			1 09	S 31 E		7 00		12
57	3564 90	1° 00'			1 09	S 33 E		7 91	47	
58	3627 30	1° 00'			1 09	S 50 E		8 61	1 30	
59	3689 70	1° 00'			1 09	S 52 E		9 28	2 16	
60	3752 10	1° 00'	3751 87		1 09	S 42 E		10 09	2 89	
61	3814 50	0° 45'			82	S 39 E		10 73	3 41	
62	3876 90	0° 45'			82	S 30 E		11 44	3 82	
63	3939 30	0° 30'			54	S 15 E		11 96	3 96	
64	4001 70	0° 30'			54	S 15 E		12 48	4 10	
65	4064 10	1° 00'	4063 84		1 09	S 43 E		13 28	4 84	
66	4126 50	1° 00'			1 09	S 43 E		14 08	5 58	
67	4188 90	1° 00'			1 09	S 36 E		14 96	6 22	
68	4251 30	0° 45'			82	S 47 E		15 52	6 82	
69	4313 70	1° 00'			1 09	S 25 E		16 51	7 28	
70	4376 10	1° 00'	4375 79		1 09	S 25 E		17 50	7 74	
71	4438 50	0° 30'			54	S 28 E		17 98	7 99	
72	4500 90	0° 30'			54	S 31 E		18 44	8 27	
73	4563 30	0° 15'			27	S 45 E		18 63	8 46	
74	4625 70	0° 15'			27	S 33 E		18 86	8 61	
75	4688 10		4687 79		VERTICAL					



The field data for this survey from readings 76

was obtained by Hutchinson

field engineer for
Eastman Oil Survey Co., and is supported by signed field records
The computation and drafting of this report was done under my
supervision and is true and correct to the best of my knowledge

6-6-57

DATE

JOB NO. WT 65557

DATE

CHECKED BY

EASTMAN OFFICE ENGINEER

RECORD OF SURVEY

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
76	4750 50	V	VERTICAL					18 86	3 41	
77	4812 90	V	VERTICAL							
78	4875 30	V	VERTICAL							
79	4937 70	V	VERTICAL							
80	5000 00		4999 79							
81	5062 50	1° 00'			1 09	S 37 W		18 86	8 61	
82	5124 90	1° 00'			1 09	S 52 W		19 73	7 95	
83	5187 30	1° 00'			1 09	S 35 W		20 40	7 09	
84	5249 70	1° 00'			1 09	S 13 W		21 29	6 46	
85	5312 10	0° 30'	5311 75		1 09	S 12 W		22 35	6 21	
86	5374 50	V	VERTICAL					22 88	6 10	
87	5436 90	0° 15'			27	S 35 W		23 10	5 95	
88	5499 30	0° 45'			82	S 35 W		23 77	6 42	
89	5561 70	0° 45'			82	S 31 E		24 47	6 84	
90	5624 10		5623 73			VERTICAL				
91	5686 50	0° 15'			27	N 08 E		24 20	6 88	
92	5748 90	V	VERTICAL							
93	5811 30	0° 15'			27	N 35 E		23 98	7 03	
94	5873 70	0° 15'			27	N 33 E		23 75	7 18	
95	5936 10	0° 30'	5935 73		54	N 43 E		23 36	7 55	
96	5998 50	0° 30'			54	N 50 E		23 01	7 96	
97	6060 90	0° 30'			54	N 38 E		22 58	8 29	
98	6123 30	0° 45'			82	N 48 E		22 03	8 90	
99	6185 70	0° 45'			82	N 48 E		21 48	9 51	
100	6248 62	0° 45'	6247 70		82	S 83 E		21 58	10 32	

The field data for this survey from readings 101

through 125 was obtained by Hubert L. Sore

field engineer for Eastman Oil Survey Co., and is supported by signed field record. The computation and drafting of this report was done under the supervision and is true and correct to the best of my knowledge.

6-6-54

WT 65557

DATE

JOB NO.

CHECKED BY

EASTMAN OFFICE ENGINEER



RECORD OF SURVEY

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
101	6310 50	0° 30'				S 74° W		21 73	9 80	
102	6382 90	0° 30'				S 52° W		22 06	9 37	
103	6435 30	0° 30'				S 85° W		22 11	8 83	
104	6497 70	0° 45'				S 43° W		22 71	8 27	
105	6560 10	0° 45'	6559 68			S 62° W		23 09	7 55	
106	6622 50	0° 45'				S 38° W		23 74	7 05	
107	6684 90	1° 00'			1	S 31° W		24 67	6 49	
108	6747 30	0° 45'				S 58° W		25 10	5 79	
109	6809 70	0° 30'				S 22° W		25 60	5 59	
110	6872 10	1° 00'	6871 63		1	S 40° W		26 43	4 89	
111	6934 50	1° 00'				S 45° W		27 20	4 12	
112	6996 90	1° 00'			1	S 36° W		28 08	3 48	
113	7059 30	1° 00'			1	S 44° W		28 86	2 72	
114	7121 70	1° 00'			1	S 42° W		29 67	1 99	
115	7184 10	1° 00'	7183 58		1	S 66° W		30 11	1 99	
116	7246 50	1° 00'				S 40° W		30 94	29	70
117	7308 90	1° 00'			1	S 65° W		31 40		68
118	7371 30	1° 00'			1	S 64° W		31 88		68
119	7433 70	1° 00'			1	S 66° W		32 32		62
120	7496 10	1° 00'	7495 53		1	S 60° W		32 87		
121	7558 50	1° 00'				S 58° W		33 45		54
122	7620 90	1° 00'			1	S 66° W		33 89		54
123	7683 30	1° 00'			1	S 75° W		34 17		59
124	7745 70	1° 00'			1	S 55° W		34 80		48
125	7808 10	1° 00'	7807 48		1	S 36° W		35 68		12



The field data for this survey from readings 126

RECORD OF SURVEY

that 150 was obtained by

field engineer for
Eastman Oil Survey Co., and is supported by signed field records.
The computation and drafting of this report was done under my
supervision and is true and correct to the best of my knowledge.

JOB NO. WT 65557

DATE 6-6-57

CHECKED BY

J. C. Hubbard
EASTMAN OFFICE ENGINEER

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
126	7870 50	1° 00'			1 09	S 36 W		36 56		8 76
127	7932 90	1° 00'			1 09	S 53 W		37 22		9 63
128	7995 30	1° 00'			1 09	S 37 W		38 09		10 29
129	8057 70	1° 00'			1 09	S 53 W		38 75		11 16
130	8120 10	1° 00'	8119 43		1 09	S 50 W		39 45		11 99
131	8182 50	1° 20'			1 45	S 36 W		40 62		12 84
132	8244 90	1° 20'			1 45	S 36 W		41 79		13 69
133	8307 30	1° 20'			1 45	S 64 W		42 43		14 99
134	8369 70	1° 20'			1 45	S 70 W		42 93		16 35
135	8432 10	1° 20'	8431 33		1 45	S 40 W		44 04		17 28
136	8494 50	1° 20'			1 45	S 37 W		45 20		18 15
137	8556 90	1° 10'			1 27	S 25 W		46 35		18 69
138	8619 30	1° 00'			1 09	S 49 W		47 07		19 51
139	8681 70	1° 00'			1 09	S 32 W		47 99		20 09
140	8744 10	1° 00'	8743 27		1 09	S 22 W		49 00		20 50
141	8806 50	1° 00'			1 09	S 37 W		49 87		21 16
142	8868 90	1° 00'			1 09	S 52 W		50 54		22 02
143	8931 30	1° 00'			1 09	S 35 W		51 43		22 65
144	8993 70	1° 00'			1 09	S 13 W		52 49		22 90
145	9056 10	0° 30'	9055 23		54	S 12 W		53 02		23 01
146	9118 50	VERTICAL								
147	9180 90	0° 15'			27	S 34 W		53 28		23 16
148	9243 30	0° 45'			82	S 35 E		53 91		22 69
149	9305 70	0° 45'			82	S 31 E		54 61		22 27
150	9368 10		9367 21		VERTICAL					



RECORD OF SURVEY

The field data for this survey from readings 151

was obtained by Hutchinson

field engineer for
Eastman Oil Survey Co., and is supported by signed field records.
The computation and drafting of this report was done under my
supervision and is true and correct to the best of my knowledge.

DATE 6-6-57

JOB NO. WT 65557

DATE

DATE

CHECKED BY

EASTMAN OFFICE ENGINEER

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
151	9430	0° 15'	RTICAL		27	N 08 E		54 34		22 23
152	9492	0° 15'			27	N 35 E		54 34		22 23
153	9555	0° 15'			27	N 33 E		54 12		22 08
154	9617	0° 15'			54	N 43 E		53 89		21 93
155	9680	0° 30'			54	N 43 E		53 50		21 15
156	9742	0° 30'	9679 21		54	N 50 E		53 15		21 15
157	9804	0° 30'			54	N 38 E		52 72		20 82
158	9867	0° 45'			82	N 48 E		52 17		20 21
159	9929	0° 45'			82	N 48 E		51 62		19 60
160	9992	0° 45'			82	N 83 E		51 72		18 79
161	10054	0° 45'	10303 03		82	N 66 E		51 39		18 04
162	10116	0° 45'			82	N 89 E		51 38		17 22
163	10179	2° 00'			2 18	S 84 E		51 61		15 05
164	10241	2° 00'			2 18	S 84 E		51 84		12 88
165	10304	2° 20'			2 34	S 83 E		52 15		10 36
166	10366	2° 30'	10614 80		2 72	S 80 E		52 62		7 68
167	10428	2° 00'			2 18	S 62 E		53 64		5 76
168	10491	2° 00'			2 18	S 62 E		54 66		3 84
169	10553	2° 30'			2 72	S 69 E		55 63		1 30
170	10616	1° 45'			1 90	S 67 E		56 37	45	
171	10678	1° 45'	10926 56		1 90	S 56 E		57 43	2 03	
172	10740	2° 00'			2 18	S 57 E		58 62	3 86	
173	10803	2° 00'			2 18	S 35 E		60 41	5 11	
174	10865	2° 30'			2 72	S 24 E		62 89	6 22	
175	10928	2° 45'			3 00	S 24 E		65 63	7 44	



The field data for this survey from readings 176

RECORD OF SURVEY

The ¹⁸⁸ was obtained by Utah, field engineer for Eastman Oil Survey Co., and is supported by signed field records.

The computation and drafting of this report was done under my supervision and is true and correct to the best of my knowledge.

6-6-57

JOB NO. WT 65557

DATE

CHECKED BY

P. E. Eastman
EASTMAN OFFICE ENGINEER

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
176	10990 51	3° 20'			3 63	S 34 E		68 64	9 47	
177	11052 91	3° 30'			3 81	S 24 E		72 12	11 02	
178	11115 31	3° 45'			4 08	S 23 E		75 88	12 61	
179	11177 71	3° 45'			4 08	S 27 E		79 52	14 46	
180	11240 11	4° 00'	11237 92		4 36	S 18 E		83 67	15 81	
181	11302 51	4° 00'			4 36	S 30 E		87 45	17 99	
182	11364 91	4° 00'			4 36	S 22 E		91 49	19 62	
183	11427 31	4° 00'			4 36	S 16 E		95 68	20 82	
184	11489 71	4° 45'			5 17	S 13 E		100 72	21 98	
185	11552 11	4° 45'	11549 05		5 17	S 04 E		105 88	22 34	
186	11614 51	5° 00'			5 44	S 04 W		111 31	21 96	
187	11676 91	4° 45'			5 17	S 03 W		116 47	21 69	
188	11707 52	4° 45'	11703 91		2 53	S 05 W		118 99	21 47	
					CLOSURE	120.10°	S 10° 19' E			

Eastman

Originators **OF CONTROLLED DIRECTIONAL
DRILLING**

Pioneers **OF OIL WELL SURVEY SERVICE**