



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

Inexco Oil Company
COMPANY

Norris Well No. 1
WELL NAME

Lea County, New Mexico
LOCATION

JOB NUMBER

WT0863-S0299

TYPE OF SURVEY

Magnetic Multi Shot

DATE

8/3/63

SURVEY BY
Gary DeSpain

OFFICE
West Texas

INEXCO OIL COMPANY
NORRIS WELL NO. 1
LEA COUNTY, NEW MEXICO BDI-161
AUGUST 3, 1983

EASTMAN WHIPSTOCK, INC.
MAGNETIC MULTI SHOT SURVEY WT0883-S0299
SURVEYOR: GARY DESPAIN (4707'-11746')



RADIUS OF CURVATURE METHOD

TIME DATE

07:46:09 09-AUG-83

MEASURED	DRIFT	DRIFT	DRIFT	COURSE	TRUE	VERTICAL	RECTANGULAR	DOGLEG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	FEET	FEET	FEET	SEVERITY
FEET	D M	D	FEET	FEET				DG/100FT
4707.	0 0	0	0.	4707.00	0.00	0.00	0.00	0.00
4748.	1 0	N 16 W	41.	4748.00	0.34 N	0.10 W	2.44	0.31
4842.	0 45	N 6 W	94.	4841.99	1.75 N	0.37 W	0.31	0.44
4937.	0 45	N 38 W	95.	4936.98	2.89 N	0.83 W	0.83	0.29
5031.	1 0	N 31 W	94.	5030.97	4.07 N	1.64 W	0.29	
5125.	0 45	N 73 W	94.	5124.96	4.93 N	2.75 W	0.71	0.59
5219.	1 0	N 40 W	94.	5218.94	5.71 N	3.93 W	0.37	0.40
5313.	0 45	N 56 W	94.	5312.93	6.67 N	4.99 W	0.75	
5407.	1 0	N 37 W	94.	5406.92	7.65 N	6.03 W	0.18	0.37
5501.	1 0	N 4 E	94.	5500.91	9.19 N	6.48 W	0.42	0.53
5596.	1 0	N 6 W	94.	5595.89	10.17 N	6.51 W	0.85	
5690.	1 0	N 26 W	94.	5689.88	12.15 N	6.96 W	0.39	0.33
5784.	1 15	N 42 W	94.	5783.87	13.13 N	7.99 W	0.07	0.27
5878.	1 30	N 54 W	94.	5877.86	15.11 N	9.21 W	0.11	
5972.	1 15	N 56 W	94.	5971.81	17.53 N	10.64 W	0.27	0.11
6066.	1 0	N 42 W	94.	6065.79	18.74 N	12.03 W	0.27	0.13
6160.	1 0	N 60 W	94.	6159.77	19.77 N	13.30 W	0.28	0.84
6255.	1 0	N 56 W	95.	6254.76	20.65 N	14.71 W	0.27	0.11
6349.	0 45	N 60 W	94.	6348.75	21.41 N	15.93 W	0.27	0.11
6443.	0 45	N 68 W	94.	6442.74	21.95 N	17.03 W	0.27	0.11
6537.	1 0	N 67 W	94.	6536.73	22.49 N	18.36 W	0.27	0.13
6631.	1 0	N 60 W	94.	6630.72	23.23 N	19.82 W	0.28	0.84
6725.	1 15	N 64 W	94.	6724.70	24.09 N	21.45 W	0.27	0.11
6819.	2 0	N 73 W	94.	6818.66	25.07 N	23.93 W	0.27	0.11
6913.	2 15	N 72 W	94.	6912.59	26.12 N	27.25 W	0.27	0.11
7008.	2 15	N 66 W	95.	7007.52	27.45 N	30.74 W	0.25	0.17
7102.	2 15	N 62 W	94.	7101.45	29.07 N	34.05 W	0.33	0.41
7196.	2 15	N 54 W	94.	7195.38	31.02 N	37.18 W	0.28	0.84
7290.	2 0	N 62 W	94.	7289.31	32.87 N	40.13 W	0.27	0.11
7384.	2 15	N 64 W	94.	7383.25	34.45 N	43.24 W	0.27	0.11

TIME DATE

07:46:09 09-AUG-83

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	R E C T A N G U L A R C O O R D I N A T E S FEET	DOGLEG SEVERITY DG/100FT
7478.	2 15	N 63 W	94.	7477.18	36.10 N 46.54 W	0.04
7572.	2 15	N 64 W	94.	7571.10	37.74 N 49.84 W	0.04
7667.	2 15	N 70 W	95.	7666.03	39.20 N 53.27 W	0.25
7761.	2 15	N 65 W	94.	7759.96	40.61 N 56.68 W	0.21
7855.	2 15	N 56 W	94.	7853.89	42.43 N 59.89 W	0.38
7949.	2 0	N 61 W	94.	7947.82	44.25 N 62.86 W	0.33
8043.	1 45	N 84 W	94.	8041.77	45.17 N 65.78 W	0.84
8137.	2 0	N 49 W	94.	8135.72	46.38 N 68.56 W	1.23
8231.	2 0	N 54 W	94.	8229.66	48.42 N 71.12 W	0.19
8326.	2 0	N 44 W	95.	8324.61	50.59 N 73.62 W	0.37
8420.	2 15	N 26 W	94.	8418.54	56.13 N 75.61 W	0.75
8514.	1 45	N 25 W	94.	8512.48	56.13 N 77.03 W	0.53
8608.	1 45	N 29 W	94.	8606.35	58.13 N 78.33 W	0.13
8702.	2 0	N 13 W	94.	8700.35	61.13 N 80.13 W	0.55
8796.	2 15	N 37 W	94.	8794.32	64.10 N 82.37 W	0.36
8890.	2 30	N 41 W	94.	8888.24	67.13 N 84.82 W	0.32
8985.	2 30	N 33 W	95.	8983.15	70.44 N 87.31 W	0.37
9079.	2 15	N 30 W	94.	9077.07	73.76 N 89.35 W	0.30
9173.	2 0	N 32 W	94.	9171.01	76.74 N 91.14 W	0.28
9267.	2 15	N 39 W	94.	9264.94	79.58 N 93.16 W	0.38
9361.	2 15	N 42 W	94.	9358.87	82.38 N 95.56 W	0.13
9455.	2 0	N 48 W	94.	9452.81	84.85 N 98.02 W	0.36
9549.	1 15	N 48 W	94.	9546.77	86.63 N 100.01 W	0.80
9644.	1 30	N 40 W	95.	9641.74	88.27 N 101.59 W	0.33
9738.	1 15	N 61 W	94.	9735.71	89.70 N 103.32 W	0.59
9832.	0 45	N 55 W	94.	9829.70	90.56 N 104.71 W	0.54
9926.	1 0	N 53 W	94.	9923.69	91.41 N 105.87 W	0.27
10020.	0 30	N 53 W	94.	10017.68	92.15 N 106.85 W	0.53
10114.	0 0	0	94.	10111.68	92.39 N 107.18 W	0.53
10208.	0 45	S 70 W	94.	10205.67	92.18 N 107.76 W	0.80

TIME DATE

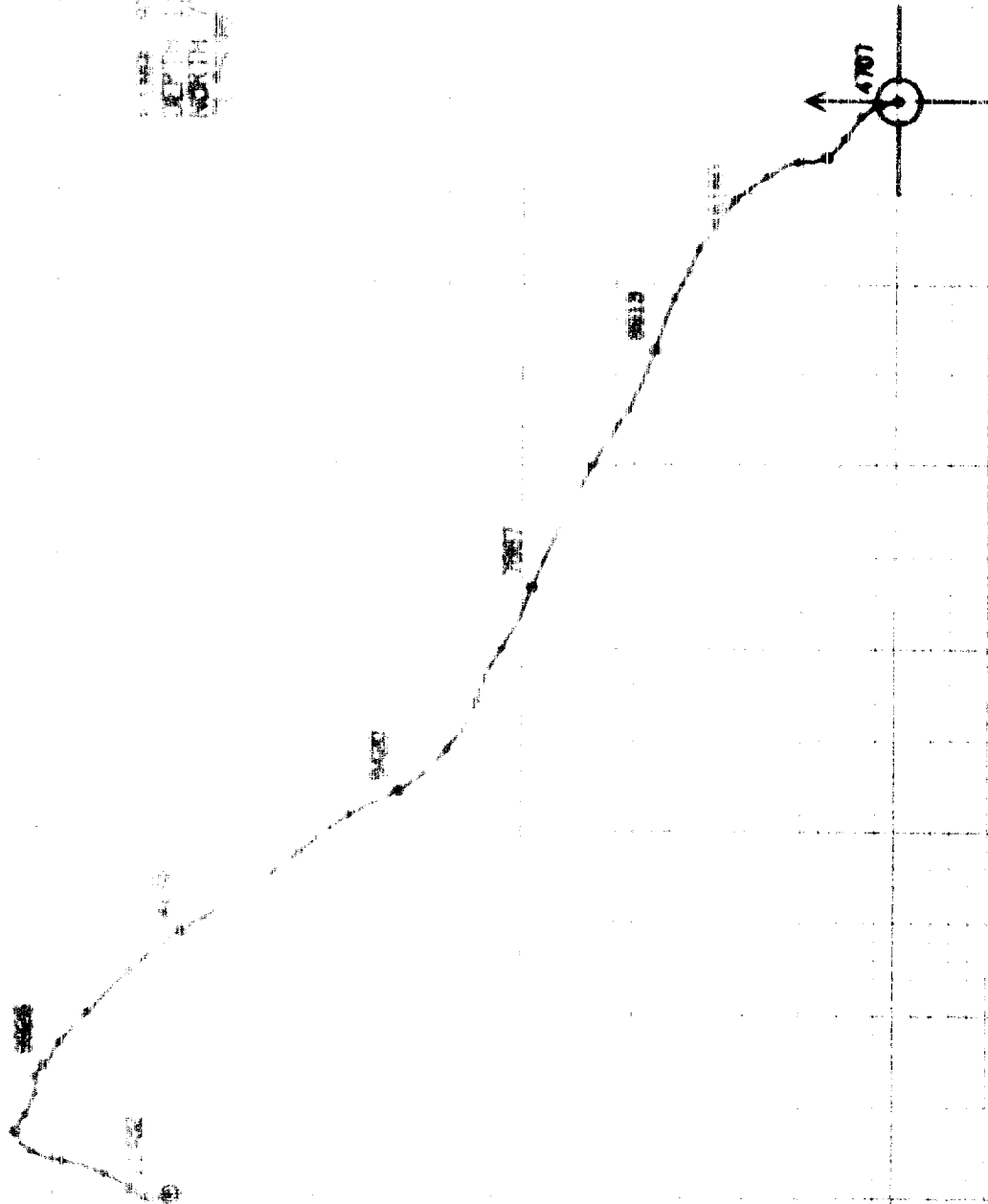
07:46:09 09-AUG-83

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE		R E C T A N G U L A R C O O R D I N A T E S FEET	DOGLEG SEVERITY DG/100FT
				VERTICAL DEPTH FEET			
10303.	0 45	N 54 W	95.	10300.67		92.35 N 108.94 W	0.74
10397.	1 0	N 83 W	94.	10394.66		92.87 N 110.26 W	0.53
10491.	0 30	N 48 W	94.	10488.65		93.37 N 111.36 W	0.70
10585.	0 45	N 67 W	94.	10582.64		93.92 N 112.22 W	0.34
10679.	0 45	N 67 W	94.	10676.63		94.40 N 113.35 W	0.00
10773.	1 0	S 30 W	94.	10770.62		93.98 N 114.60 W	1.25
10867.	1 0	S 38 W	94.	10864.61		92.63 N 115.51 W	0.15
10962.	1 0	S 16 W	95.	10959.59		91.16 N 116.26 W	0.40
11056.	1 15	S 4 W	94.	11053.58		89.34 N 116.58 W	0.36
11150.	1 30	S 16 W	94.	11147.55		87.13 N 116.97 W	0.40
11244.	1 30	S 25 W	94.	11241.52		84.82 N 117.83 W	0.25
11338.	0 45	S 25 W	94.	11335.50		83.11 N 118.61 W	0.80
11432.	1 0	S 35 W	94.	11429.48		81.11 N 119.33 W	0.31
11526.	1 0	S 35 W	94.	11523.46		80.11 N 120.47 W	0.33
11620.	0 45	S 31 E	94.	11617.46		79.45 N 120.71 W	1.26
11715.	1 0	S 11 E	95.	11712.45		78.10 N 120.20 W	0.41
11746.	0 30	S 56 E	31.	11743.45		77.77 N 119.98 W	2.38

FINAL CLOSURE - DIRECTION: N 57 DEGS 3 MINS W
DISTANCE: 142.98 FEET

HORIZONTAL PROJECTION
SCALE 1 IN. = 20 FEET
DEPTH INDICATOR: MD

EROTHAN INDUSTRIES, INC.



THE



P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

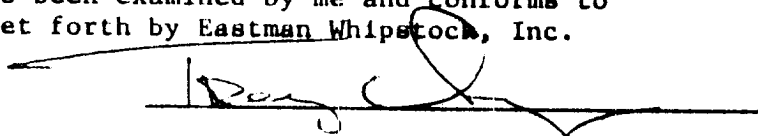
I, Gary DeSpain, in the employ of Eastman Whipstock, Inc., did on the days of August 2, 19 83 thru August 3, 19 83 conduct or supervise the taking of a Magnetic Multi Shot survey by the method of magnetic orientation from a depth of 4,707 feet to 11,746 feet, with recordings of inclination and direction being obtained at approximate intervals of 94 feet.

This survey was conducted at the request of Inexco Oil Company for their Norris Well No. 1, Lea County, State of New Mexico, in the field.

This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

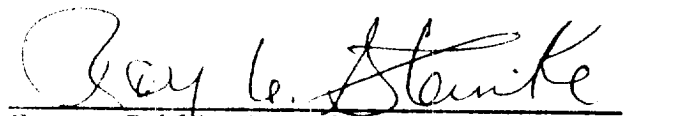

Directional Supervisor/ Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.



Before me, the undersigned authority, on this day personally appeared Gary DeSpain, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 9th day of Aug., 19 83


Notary Public in and for the
County of Midland, Texas
My commission expires 7/9/85

