

AME / SCIENTIFIC DRILLING
MIDLAND TEXAS

FAS

MAGNETIC DIRECTIONAL SURVEY
FOR

AMOCO PRODUCTION

JOB NUMBER: 132-M-1184-110

WELL NAME: SALMAN KANCH A-1

LOCATION: MORA COUNTY N.M.

SURVEY DATE: 11/01/84

SURVEY ENGINEER: PAINTNER

TIE-IN INFORMATION: AT 6900.00 FEET
FROM 132-G-1084-103

METHOD OF CALCULATION: THE RADIUS OF CURVATURE

COMMENTS:

* THIS SURVEY IS CORRECT TO THE BEST OF MY *
* KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA. *
* *
* *Edward D. Painter* *
* ***** *
* (COMPANY REPRESENTATIVE) *
* ***** *

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JOB NUMBER: 132-N-1184-110

DATE: 11/01/84

INRUN SURVEY

BY

THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BLANKING D M	COORDINATES LATITUDE DEPARTURE	D-LEG PLR 100
6900.00	6889.45	115.17	10.04	9-45 S	31-37 E	105.341N 377.32 E	.00
6943.00	6931.86	111.69	7.10	9-15 S	32-0 E	79.31 N 81.06 E	1.17
7036.00	7023.84	103.98	13.75	7-45 S	22-0 E	67.08 N 87.29 E	2.26
7129.00	7115.81	96.47	13.75	9-15 S	34-0 E	54.96 N 92.73 E	2.49
7222.00	7207.70	89.70	14.35	8-30 S	32-0 E	42.93 N 101.55 E	.87
7315.00	7299.97	82.76	11.53	5-45 S	16-0 E	32.43 N 106.23 E	3.62
7408.00	7392.65	76.33	7.70	3-45 S	8-0 W	24.80 N 106.76 E	2.99
7501.00	7485.43	70.71	6.28	4-0 S	3-0 E	18.53 N 106.48 E	.84
7594.00	7578.25	65.95	5.88	3-15 S	11-0 E	12.70 N 107.20 E	.97
7687.00	7671.14	61.75	4.46	2-15 S	53-0 W	8.75 N 105.68 E	3.26
7780.00	7764.04	58.46	4.26	3-0 S	82-0 W	7.14 N 101.79 E	1.61
7873.00	7856.34	55.73	6.08	4-30 N	78-0 W	7.35 N 95.74 E	2.12
7966.00	7949.50	54.11	7.90	5-15 N	68-0 W	9.66 N 88.19 E	1.22
8059.00	8042.05	53.34	9.12	6-0 N	64-0 W	13.36 N 79.07 E	.91
8121.00	8103.70	52.02	6.61	6-15 N	64-0 W	16.26 N 73.92 E	.40

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JOB NUMBER: 132-M-1194-110

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INRUN SURVEY

BY

THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE	DIPARTURE	D-LEC PLR 100
8214.00	8196.17	52.79	9.92	6- 0 N 61-	0 W	20.84 N	65.12 E	.44
8307.00	8288.72	52.81	9.12	5-15 N 61-	0 W	25.26 N	57.15 E	.81
8400.00	8381.38	52.91	7.90	4-30 N 60-	0 W	29.15 N	50.27 E	.81
8493.00	8474.14	53.16	6.69	3-45 N 58-	0 W	32.60 N	44.54 E	.82
8586.00	8566.98	53.56	5.48	3- 0 N 56-	0 W	35.58 N	39.95 E	.82
8679.00	8659.88	53.79	4.26	2-15 N 60-	0 W	37.84 N	36.33 E	.83
8772.00	8752.81	53.77	3.65	2-15 N 63-	0 W	39.58 N	33.13 E	.13
8865.00	8845.74	53.78	3.45	2- 0 N 59-	0 W	41.25 N	30.11 E	.31
8958.00	8938.70	54.09	2.84	1-30 N 51-	0 W	42.80 N	27.79 E	.60
9051.00	9031.67	54.73	2.23	1-15 N 38-	0 W	44.47 N	26.22 E	.43
9144.00	9124.65	55.39	1.82	1- 0 N 42-	0 W	45.87 N	25.05 E	.28
9237.00	9217.64	56.03	1.42	0-45 N 26-	0 W	47.04 N	24.26 E	.37
9330.00	9310.63	56.76	1.22	0-45 N 23-	0 W	48.15 N	23.76 E	.04
9423.00	9403.63	57.54	1.02	0-30 N 2-	0 E	49.14 N	23.57 E	.39
9516.00	9496.62	58.32	.81	0-30 N 55-	0 E	49.83 N	23.95 E	.48

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INKUN SURVEY

BY

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MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE DEPARTURE	D-LEG PIR 100
9609.00	9589.62	58.93	.81	0-30 N 80-0 E	50.10 N	24.70 E	.28
9702.00	9682.62	59.62	1.02	0-45 N 67-0 E	50.35 N	25.68 E	.34
9795.00	9775.61	60.60	1.22	0-45 N 63-0 E	50.86 N	26.79 E	.06
9888.00	9868.60	61.37	1.02	0-30 N 75-0 E	51.22 N	27.73 E	.30
9981.00	9961.60	61.98	.81	0-30 N 65-0 E	51.50 N	28.49 E	.09
10074.00	10054.59	62.75	.81	0-30 N 2-0 W	52.15 N	28.89 E	.59
10115.00	10095.59	62.96	.27	0-15 N 15-0 W	52.42 N	28.85 E	.64

THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF

10115.00 FEET EQUALS 59.84 FEET AT N 28-50 E.

