

EASTMAN CHRISTENSEN

RECORD OF SURVEY

FOR

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* OPERATOR : ARCO OIL AND GAS COMPANY *
* WELL NAME : ATLANTI ST 30 WELL NO.1 *
* LOCATION : LEA COU TY, NEW MEXICO *
* JOB NUMBER : *
* RIG : MCVAY R 6 7 *
* DECLINATION : 10.0 E *
* * * * *

EC DISTRICT : WEST TEXAS BASE

RCO OIL AND GAS COMPANY
ATLANTIC ST 30 WELL NO.1
EA COUNTY, NEW MEXICO

DECLINATION : 10.00
DATE PRINTED : 02-DEC-87
OUR REF. NO. : 501241.4AR
JOB NUMBER :

PAGE NO. 2

MEASURED DEPTH	D R I F T ANGLE D M	D R I F T DIRECTION D M	COURSE LENGTH	TRUE VERTICAL DEPTH	R E C T A N G U L A R C O O R D I N A T E S	DOGLEG SEVERITY
3595.00	0 0	N 0	0.00	3595.00	0.00 N	0.00 E
3703.00	1 45	N 5	108.00	3702.98	1.64 N	0.14 W
3795.00	1 45	N 6	92.00	3794.94	4.44 N	0.41 W
3888.00	2 0	N 16	93.00	3887.89	7.42 N	0.99 W
3980.00	1 45	N 24	92.00	3979.84	10.25 N	2.02 W
4072.00	2 15	N 38	92.00	4071.78	12.99 N	3.67 W
4164.00	2 30	N 47	92.00	4163.71	15.80 N	6.24 W
4257.00	2 45	N 46	93.00	4256.61	18.73 N	9.33 W
4350.00	2 30	N 51	93.00	4349.51	21.55 N	12.52 W
4443.00	2 30	N 51	93.00	4442.42	24.11 N	15.67 W
4535.00	2 45	N 50	92.00	4534.33	26.79 N	18.92 W
4628.00	2 45	N 51	93.00	4627.22	29.62 N	22.37 W
4721.00	2 30	N 54	93.00	4720.12	32.22 N	25.75 W
4814.00	2 30	N 61	93.00	4813.03	34.40 N	29.16 W
4907.00	2 30	N 67	93.00	4905.94	36.17 N	32.81 W
5000.00	2 15	N 74	93.00	4998.86	37.46 N	36.44 W
5094.00	2 15	N 69	94.00	5092.79	38.63 N	39.94 W
5186.00	2 15	N 63	92.00	5184.72	40.10 N	43.24 W
5278.00	2 0	N 61	93.00	5276.66	41.70 N	46.25 W
5371.00	2 0	N 56	93.00	5369.60	43.39 N	49.01 W
5464.00	1 45	N 51	93.00	5462.55	45.20 N	51.46 W
5555.00	1 30	N 46	91.00	5553.51	46.91 N	53.39 W
5649.00	1 30	N 40	94.00	5647.48	48.71 N	55.07 W
5743.00	1 30	N 42	94.00	5741.45	50.57 N	56.68 W
5835.00	1 15	N 27	92.00	5833.42	52.38 N	57.93 W
5928.00	1 30	N 19	93.00	5926.40	54.43 N	58.80 W
6021.00	1 30	N 23	93.00	6019.36	56.71 N	59.67 W
6113.00	1 30	N 31	92.00	6111.33	58.85 N	60.77 W
6207.00	1 45	N 34	94.00	6205.29	61.10 N	62.20 W
6300.00	1 45	N 34	93.00	6298.25	63.45 N	63.79 W
						0.00

CONTINUED ON NEXT PAGE ...

NRCO OIL AND GAS COMPANY
ATLANTIC ST 30 WELL NO.1
SEA COUNTY, NEW MEXICO

DATE PRINTED : 02-DEC-87
OUR REF. NO. : S01241.4AR
DECLINATION : 10.00 JOB NUMBER :
PAGE NO. 3

MEASURED DEPTH	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH	TRUE VERTICAL DEPTH	R E C T A N G U L A R C O O R D I N A T E S	DOGLEG SEVERITY
6393.00	1 45	N 40 0 W	93.00	6391.21	65.72 N 65.49 W	0.20
6485.00	2 0	N 46 0 W	92.00	6483.16	67.92 N 67.55 W	0.35
6578.00	2 0	N 48 0 W	93.00	6576.10	70.13 N 69.92 W	0.08
6671.00	2 0	N 47 0 W	93.00	6669.05	72.33 N 72.31 W	0.04
6764.00	2 0	N 51 0 W	93.00	6761.99	74.46 N 74.76 W	0.15
6855.00	2 15	N 48 0 W	91.00	6852.93	76.65 N 77.33 W	0.30
6948.00	2 30	N 49 0 W	93.00	6945.85	79.20 N 80.21 W	0.27
7041.00	2 30	N 41 0 W	93.00	7038.76	82.07 N 83.08 W	0.37
7134.00	2 15	N 33 0 W	93.00	7131.68	85.14 N 85.40 W	0.45
7226.00	2 30	N 30 0 W	92.00	7223.60	88.39 N 87.39 W	0.30
7318.00	2 0	N 25 0 W	92.00	7315.53	91.60 N 89.06 W	0.58
7409.00	2 0	N 22 0 W	91.00	7406.47	94.51 N 90.32 W	0.12
7501.00	2 0	N 20 0 W	92.00	7498.42	97.50 N 91.47 W	0.08
7594.00	2 15	N 16 0 W	93.00	7591.35	100.78 N 92.54 W	0.31
7689.00	2 45	N 19 0 W	95.00	7686.26	104.73 N 93.78 W	0.54
7783.00	3 0	N 24 0 W	94.00	7780.14	109.12 N 95.51 W	0.38
7877.00	3 15	N 23 0 W	94.00	7874.00	113.82 N 97.56 W	0.27
7971.00	3 30	N 23 0 W	94.00	7967.84	118.91 N 99.72 W	0.27
8065.00	3 45	N 19 0 W	94.00	8061.65	124.46 N 101.85 W	0.38
8159.00	3 45	N 18 0 W	94.00	8155.45	130.29 N 103.80 W	0.07
8251.00	4 0	N 12 0 W	92.00	8247.24	136.29 N 105.41 W	0.52
8341.00	4 0	N 10 0 W	90.00	8337.02	142.46 N 106.60 W	0.16
8433.00	4 0	N 14 0 W	92.00	8428.80	148.73 N 107.94 W	0.30
8525.00	4 15	N 13 0 W	92.00	8520.56	155.09 N 109.76 W	0.41
8603.00	4 45	N 20 0 W	78.00	8598.32	160.88 N 111.76 W	0.67

CLOSURE - DISTANCE : 195.89
DIRECTION : N 34 47 W

REPORT UNITS : Feet
SURVEY CALCULATION METHOD : Radius of curvature

SURVEY RUN INFORMATION
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RECEIVED

JAN 25 1988

CD
PROCESS OFFICE