



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

ARCO OIL AND GAS COMPANY
COMPANY

ATLANTIC ST 30WELL NO. 1
WELL NAME

B-30-17-36

LEA COUNTY, NEW MEXICO
LOCATION

JOB NUMBER

430-0711

TYPE OF SURVEY

MAGNETIC MULTI SHOT SURVEY

DATE

12-1-87

SURVEY BY
TIM STEPHENS

OFFICE
WEST TEXAS BASE

RECEIVED

FEB 17 1973

ODD
POWER OFFICE

EASTMAN CHRISTENSEN

RECORD OF SURVEY

FOR

* OPERATOR : ARCO OIL AND GAS COMPANY *
* WELL NAME : ATLANTIC ST 30 WELL NO.1 *
* LOCATION : LEA COUNTY, NEW MEXICO *
* JOB NUMBER : *
* RIG : MCVAY RIG 7 *
* DECLINATION : 10.00 E *

EC DISTRICT : WEST TEXAS BASE



RECEIVED

FEB 17 1999

**OCD
HOBBBS OFFICE**

ARCO OIL AND GAS COMPANY
ATLANTIC ST 30 WELL NO.1
LEA COUNTY, NEW MEXICO

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

PAGE NO. 2

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
3595.00	0 0	N 0 0 E	0.00	3595.00	0.00 N	0.00
3703.00	1 45	N 5 0 W	108.00	3702.98	1.64 N	1.62
3795.00	1 45	N 6 0 W	92.00	3794.94	4.44 N	0.41
3888.00	2 0	N 16 0 W	93.00	3887.89	7.42 N	0.99
3980.00	1 45	N 24 0 W	92.00	3979.84	10.25 N	2.02
4072.00	2 15	N 38 0 W	92.00	4071.78	12.99 N	3.67
4164.00	2 30	N 47 0 W	92.00	4163.71	15.80 N	6.24
4257.00	2 45	N 46 0 W	93.00	4256.61	18.73 N	9.33
4350.00	2 30	N 51 0 W	93.00	4349.51	21.55 N	12.52
4443.00	2 30	N 51 0 W	93.00	4442.42	24.11 N	15.67
4535.00	2 45	N 50 0 W	92.00	4534.33	26.79 N	18.92
4628.00	2 45	N 51 0 W	93.00	4627.22	29.62 N	22.37
4721.00	2 30	N 54 0 W	93.00	4720.12	32.22 N	25.75
4814.00	2 30	N 61 0 W	93.00	4813.03	34.40 N	29.16
4907.00	2 30	N 67 0 W	93.00	4905.94	36.17 N	32.81
5000.00	2 15	N 74 0 W	93.00	4998.86	37.46 N	36.44
5094.00	2 15	N 69 0 W	94.00	5092.79	38.63 N	39.94
5186.00	2 15	N 63 0 W	92.00	5184.72	40.10 N	43.24
5278.00	2 0	N 61 0 W	92.00	5276.66	41.70 N	46.25
5371.00	2 0	N 56 0 W	93.00	5369.60	43.39 N	49.01
5464.00	1 45	N 51 0 W	93.00	5462.55	45.20 N	51.46
5555.00	1 30	N 46 0 W	91.00	5553.51	46.91 N	53.39
5649.00	1 30	N 40 0 W	94.00	5647.48	48.71 N	55.07
5743.00	1 30	N 42 0 W	94.00	5741.45	50.57 N	56.68
5835.00	1 15	N 27 0 W	92.00	5833.42	52.38 N	57.93
5928.00	1 30	N 19 0 W	93.00	5926.40	54.43 N	58.80
6021.00	1 30	N 23 0 W	93.00	6019.36	56.71 N	59.67
6113.00	1 30	N 31 0 W	92.00	6111.33	58.85 N	60.77
6207.00	1 45	N 34 0 W	94.00	6205.29	61.10 N	62.20
6300.00	1 45	N 34 0 W	93.00	6298.25	63.45 N	63.79

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ATLANTIC ST 30 WELL NO.1
LEA COUNTY, NEW MEXICO

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

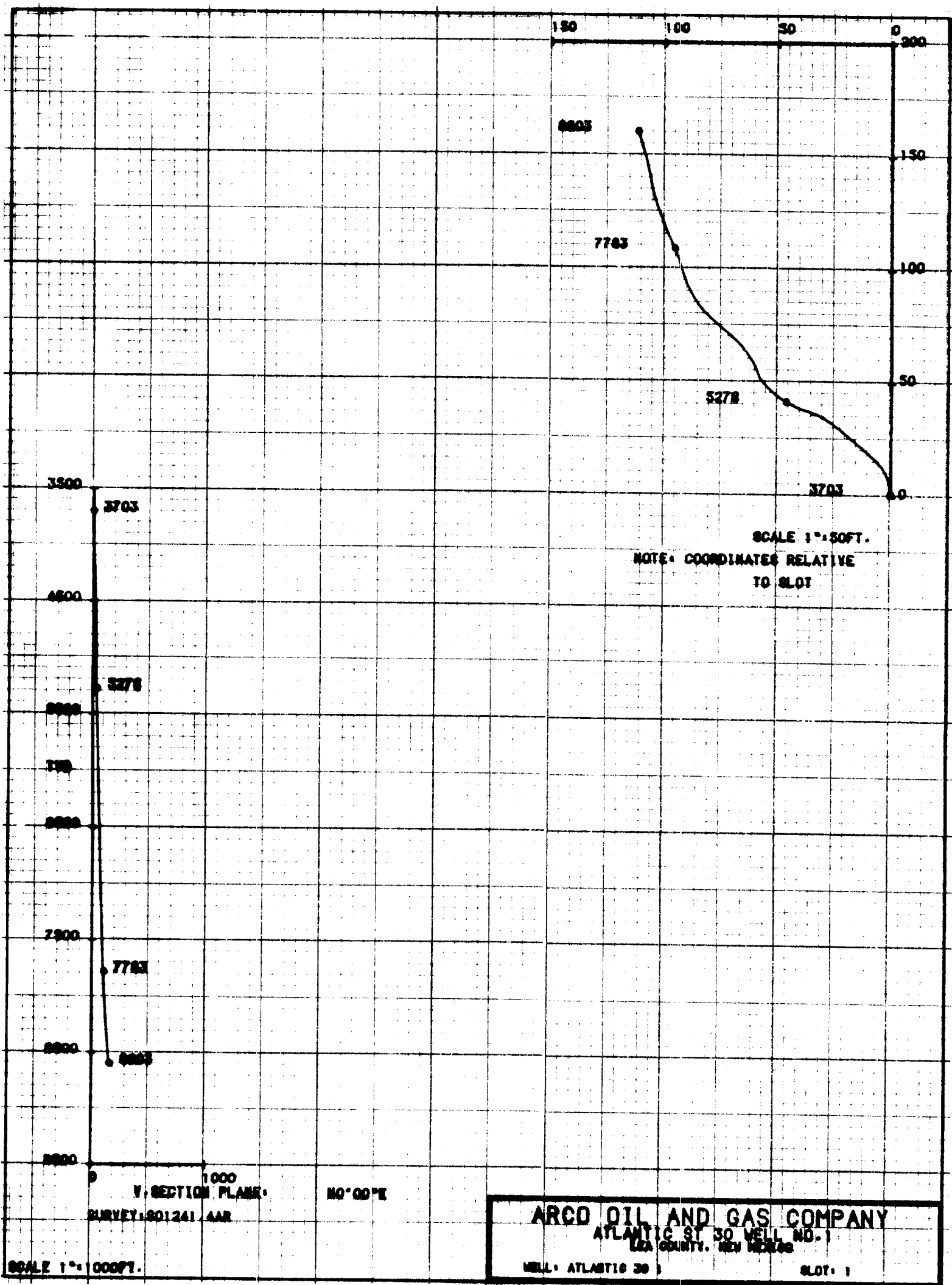
SURVEY RUN INFORMATION
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HOBBS OFFICE



2103 Market, Midland, Texas 79703, Phone: (915) 694-9517, (915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, TIM STEPHENS, in the employ of Eastman Christensen, Inc. did on the days of DECEMBER 1, 1987 thru DECEMBER 2, 1987 conduct or supervise the taking of a MAGNETIC MULTI-SHOT survey by the method of magnetic orientation from a depth of 3595 feet to 8603 feet, with recordings of inclination and direction being obtained at approximate intervals of 94 feet.

This survey was conducted at the request of ARCO OIL AND GAS COMPANY for their ATLANTIC ST 30 WELL 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 Christensen, Inc. and is true and correct to the best of my knowledge.

Tim Stephens
Directional Supervisor/Surveyor

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

Ray Christensen

Before me, the undersigned authority, on this day personally appeared TIM STEPHENS, 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 _____ day of _____, 19____

Notary Public in and for the
County of Midland, Texas
My commission expires _____