



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

YATES PETROLEUM CORPORATION
COMPANY

FALCON W.I. STATE WELL NO. 1
WELL NAME

LEA COUNTY, NEW MEXICO
LOCATION

JOB NUMBER
WT1282-S0100

TYPE OF SURVEY
MAGNETIC MULTISHOT SURVEY

DATE
12/27/83

SURVEY BY
TROY ONEY

OFFICE
WEST TEXAS

YATES PETROLEUM CORP.

FALCON W.I. STATE WELL NO. 1
LEA COUNTY, NEW MEXICO BD1-296
DECEMBER 27, 1982

EASTMAN WHIPSTOCK, INC.

MAGNETIC MULTI SHOT SURVEY

SURVEYOR: TROY ONEY

WT1282-S0100
(455'-4190')

Eastman
Whipstock

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

YATES PETROLEUM CORP.

FALCON W.I. STATE WELL NO. 1

LEA COUNTY, NEW MEXICO

BD1-296

COMPUTATION

PAGE NO. 1

TIME DATE

00:10:37 00-00

MEASURED DEPTH FEET	BRIFT ANGLE D M	BRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	R-E-C-T-A-N-G-U-L-A-R		SEVERITY DG/100FT
					C O O R D I N A T E S	FEET	
0.	0 0	0	0.	0.00	0.00	0.00	0.00
455.	0 0	0	455.	455.00	0.00	0.00	0.00
500.	0 15	N 50 E	45.	500.00	0.06 N	0.07 E	0.56
600.	0 0	0	100.	600.00	0.20 N	0.24 E	0.25
700.	0 15	N 76 E	100.	700.00	0.25 N	0.45 E	0.25
800.	0 45	N 55 E	100.	800.00	0.61 N	1.24 E	0.52
900.	0 15	N 82 E	100.	899.99	0.93 N	2.05 E	0.54
1000.	0 30	S 79 E	100.	999.99	0.91 N	2.70 E	0.28
1100.	0 30	S 77 E	100.	1099.98	0.73 N	3.55 E	0.02
1200.	0 30	S 82 E	100.	1199.98	0.57 N	4.41 E	0.04
1300.	0 30	S 82 E	100.	1299.98	0.15 N	5.27 E	0.00
1400.	0 30	S 85 E	100.	1399.97	0.55 N	6.14 E	0.03
1500.	0 45	S 50 E	100.	1499.97	0.06 S	7.13 E	0.45
1600.	1 0	S 34 E	100.	1599.96	1.19 S	8.15 E	0.35
1700.	1 0	S 32 E	100.	1699.94	2.65 S	9.10 E	0.03
1800.	1 15	S 33 E	100.	1799.92	4.31 S	10.16 E	0.25
1900.	0 45	S 53 E	100.	1899.91	5.53 S	11.34 E	0.60
2000.	1 0	S 57 E	100.	1999.89	6.45 S	12.59 E	0.26
2100.	1 0	S 61 E	100.	2099.88	7.35 S	14.09 E	0.07
2200.	1 15	S 79 E	100.	2199.86	8.02 S	15.92 E	0.43
2300.	1 30	N 62 E	100.	2299.83	7.67 S	18.25 E	0.95
2400.	2 15	N 48 E	100.	2399.78	5.80 S	20.93 E	0.87
2500.	3 0	N 34 E	100.	2499.67	2.35 S	23.92 E	0.98
2600.	2 30	N 18 E	100.	2599.56	1.95 N	26.02 E	0.91
2700.	1 30	N 13 E	100.	2699.49	5.31 N	26.95 E	1.01
2800.	1 0	N 13 E	100.	2799.47	7.43 N	27.44 E	0.50
2900.	0 45	N 4 E	100.	2899.46	8.94 N	27.67 E	0.28
3000.	1 15	N 5 W	100.	2999.44	10.68 N	27.65 E	0.52
3100.	1 0	N 16 W	100.	3099.42	12.61 N	27.29 E	0.33
3200.	2 0	N 25 W	100.	3199.39	15.06 N	26.38 E	1.02

YATES PETROLEUM CORP.
FALCON W.I. STATE WELL NO. 1
LEA COUNTY, NEW MEXICO

BD1-296

COMPUTATION
TIME 00:10:37
DATE 00--00

PAGE NO. 2

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	SEVERITY DG/100FT
3300.	1 45	N 24 W	100.	3299.33	18.04 N 25.02 E	0.25
3400.	1 45	N 34 W	100.	3399.29	20.71 N 23.54 E	0.30
3500.	1 15	N 39 W	100.	3499.25	22.81 N 21.99 E	0.52
3600.	1 15	N 30 W	100.	3599.23	24.61 N 20.75 E	0.20
3700.	1 15	N 40 W	100.	3699.20	26.39 N 19.50 E	0.22
3800.	2 0	N 25 W	100.	3799.16	28.78 N 17.98 E	0.86
3900.	2 0	N 20 W	100.	3899.10	32.00 N 16.65 E	0.17
4000.	2 0	N 26 W	100.	3999.04	35.21 N 15.28 E	0.21
4100.	2 0	N 15 W	100.	4098.98	38.48 N 14.06 E	0.38
4190.	2 0	N 20 W	90.	4188.93	41.47 N 13.12 E	0.19

FINAL CLOSURE - DIRECTION:
DISTANCE:

N 17 DEGS 33 MINS E
43.50 FEET

STATE WELL NO. 1
LOS ALAMOS, NEW MEXICO

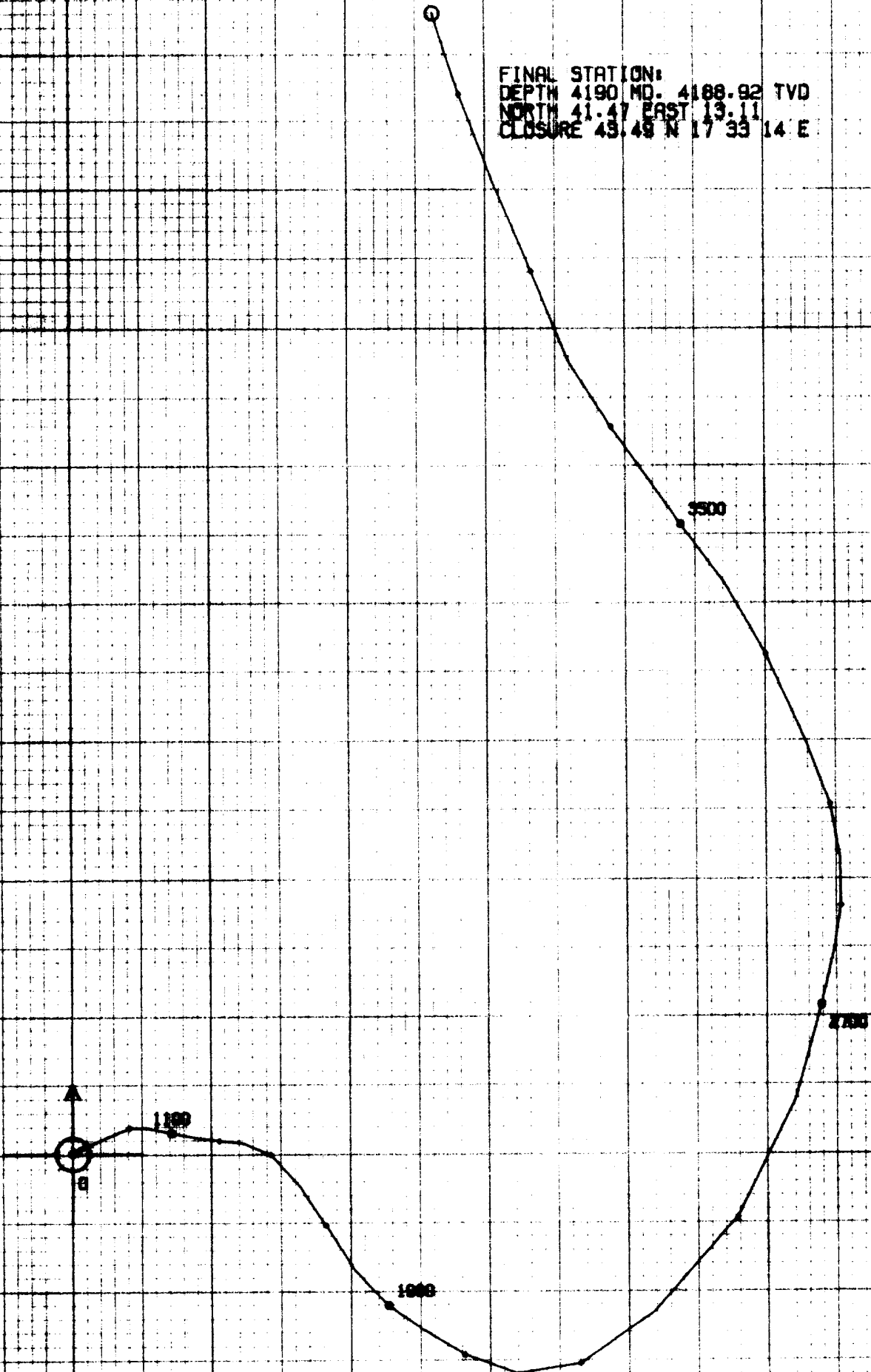
NO. 1
601-296

CHAPMAN INDUSTRIES, INC.

HORIZONTAL PROJECTION

SCALE 1 IN. = 5 FEET
DEPTH INDICATOR: MD

FINAL STATION:
DEPTH 4190 MD. 4188.92 TVD
NORTH 41.47 EAST 13.11
CLOSURE 49.45 N 17 35 14 E





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

SURVIVAL CERTIFICATE

STATE OF TEXAS
COUNTY OF MIDLAND

I, Troy Oney in the employ of Eastman Whipstock, Inc. did on the days of 12-27, 1982 thru 12-28, 1982 conduct or supervise the taking of a Magnetic Multi Shot survey for the location of magnetic orientation from a depth of 455 feet to 4190 feet, with recordings of inclination and direction being obtained at continuous intervals of 100 feet.

This survey was conducted at the request of Yates Petroleum Corp. for their Falcon W.I. State Well No. 1, Lea County, State of New Mexico, in the Lea field.

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

Troy Oney
SUPERVISOR/GEOPHYSICIST

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

[Signature]

Before me, the undersigned authority, on this day personally appeared TROY ONEY, known to me to be the person whose name is subscribed to the 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 as so stated.

Subscribed and sworn to before me on this 12TH day of APRIL, 1983.



Ray W. Atkin
Notary Public in and for the County
Midland, Texas
My commission expires 7/9/85

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator YATES PETROLEUM CORPORATION			Lease Falcon "W1" State		Well No. 1
Unit Letter L	Section 4	Township 15 South	Range 33 East	County Lea	
Actual Footage Location of Well:					
1980	feet from the	South	line and	660	feet from the
4209.4'	Producing Formation	Foot		West	Dedicated Acreage
	Permo-Penn	Saunders Permo-Penn		40	Acreage

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Gliserio Rodriguez
Name

Gliserio Rodriguez
Position

Regulatory Manager
Company

Yates Petroleum Corp.
Date

12/2/82

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

November 30, 1982

Registered Professional Engineer
and/or Land Surveyor

Gary L. Jones
Certificate No.

7977

