

SUB-SURFACE
DIRECTIONAL
SURVEY
REPORT

ORYX ENERGY COMPANY

COMPANY
C. S. CAYLOR WELL NO. 3

WELL NAME
LEA COUNTY, NEW MEXICO

STATE AND COUNTY

ORYX ENERGY COMPANY

WELL # .
C.S. CAYLOR WELL NO. 3

LOCATION .
LEA COUNTY, NEW MEXICO

DATE .
8-18-80

JOB TYPE .
GYRO MULTISHOT

JOB # .
09-2382

SURVEYOR .
LARRY MASSEY

DEPTHS .
0'-9536'

DRILLER .
DR. J. J. EAST

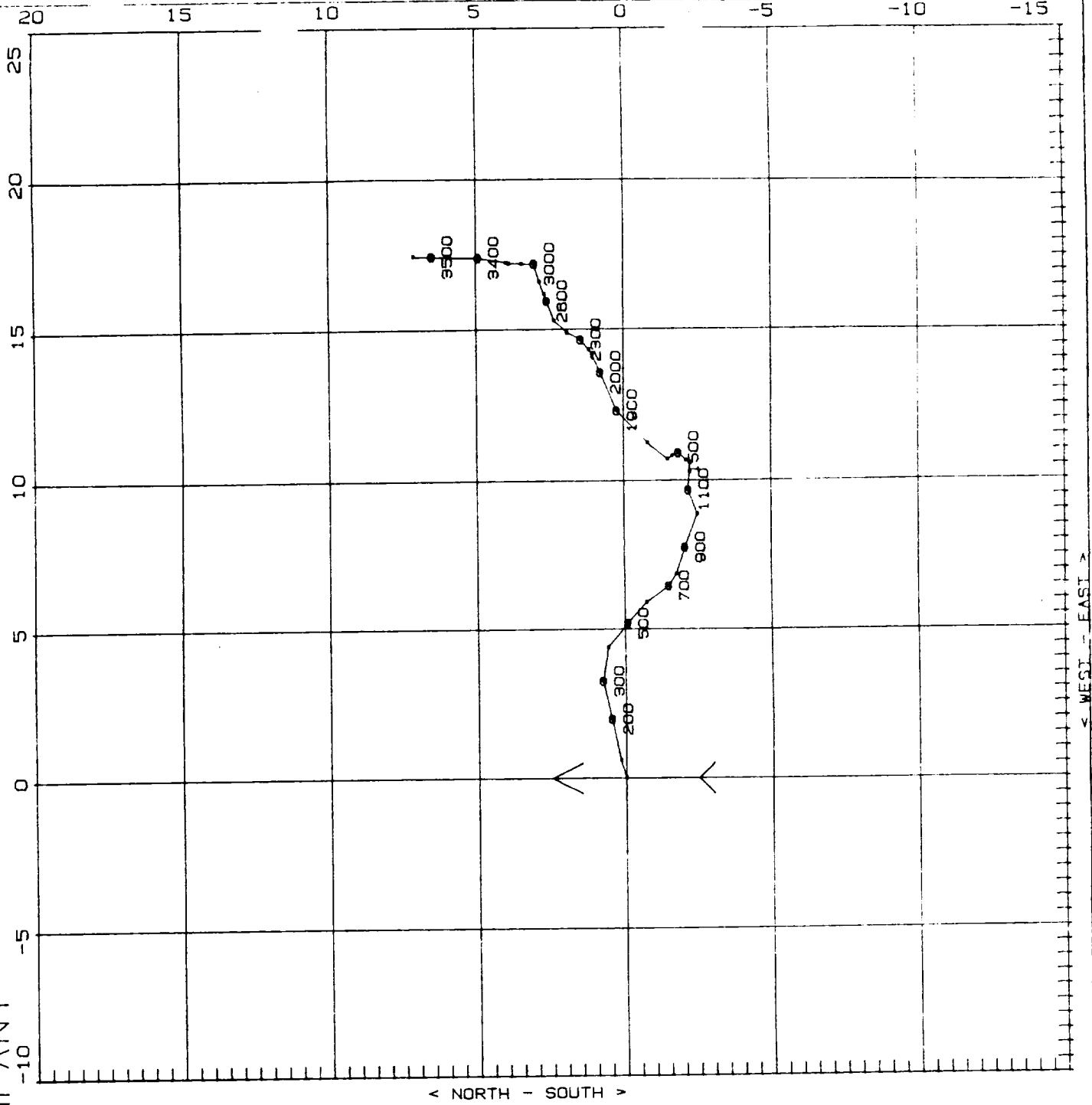
FILE # .
WT-TT7

FINAL STATION DATA:

MD. 3536.00
TVD. 3535.87
N/S 7.11
E/W 17.45

CLOSURE DISTANCE
18.84 FEET
CLOSURE DIRECTION
N 67.82 E

1 IN. = 5 FT.



CUSTOMER : ORYX ENERGY COMPANY
WELL # : C.S. CAYLOR WELL NO. 3
LOCATION : LEA COUNTY, NEW MEXICO
DATE : 6-18-90

TYPE : GYRO MULTISHOT

W # : GS-2382

SURVEYOR : LARRY MASSEY

DEPTH : 0'-3536'

ECL. : 9 DEGREES EAST

LEV. : 0'

WELL # : ~~WT~~-TT7



METHOD : RADIUS OF CURVATURE

SECTION : 0

FINAL STATION DATA

THIS SURVEY IS CORRECT TO THE
BEST OF MY KNOWLEDGE AND IS
SUPPORTED BY ACTUAL FIELD DATA.
Larry Massey
DIG REPRESENTATIVE

MEASURED	INCL.	HOLE	COURSE	VERTICAL	RECTANGULAR	UL	DS	UN	E	DUG	LIC
DEPTH	ANGLE	DEFECTION	LENGTH	DEPTH	COR	D	I	N	A	T	E
FLET	DIGS.	DEGS.	FLET	FLET	N/S	feet	L/W	FILL	DIGS.	Do/100	I

3536.60 1.20 8 N 01.00 E 30.00 30.87 7.11 N 10.40 E 18.04 N 67.00 E 1.11

ORYX ENERGY COMPANY
C.S. CAYLOR WELL NO. 3
WT-TT7

PAGE 1
19:13:55
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MEASURED DEPTH FEET	INCL. ANGLE DEGS.	HOLE DIRECTION	COURSE LENGTH FEET	VERTICAL DEPTH FEET	TRUE	N/S	RECTANGULAR DEPTH FEET	C L O S U R E	DISTANCE	DIRECTION	SEVERITY
0.00	0.00	N 73.00 E	0.00	0.00	0.00	N	0.00	N 00.00 E	0.00		0.00
100.00	.70	N 73.00 E	100.00	100.00	100.00	N	.18	N 73.00 E	.61	N 73.00 E	.70
200.00	.90	N 83.00 E	100.00	199.99	199.99	N	.47	N 76.48 E	2.00	N 76.48 E	.24
300.00	.60	N 71.00 E	100.00	299.98	299.98	N	.76	N 76.60 E	3.31	N 76.60 E	.34
400.00	.80	S 53.00 E	100.00	399.97	399.97	N	.58	N 82.47 E	4.42	N 82.47 E	.68
500.00	.40	S 47.00 E	100.00	499.97	499.97	N	.09	S 80.90 E	5.10	S 80.90 E	.40
600.00	.70	S 49.00 E	100.00	599.96	599.96	N	.74	S 82.88 E	5.94	S 82.88 E	.30
700.00	.40	S 23.00 E	100.00	699.96	699.96	N	1.51	S 76.07 E	6.63	S 76.07 E	.38
800.00	.20	N 89.00 E	100.00	799.95	799.95	N	1.77	S 75.51 E	7.09	S 75.51 E	.37
900.00	.90	S 53.00 E	100.00	899.95	899.95	N	2.07	S 75.10 E	8.04	S 75.10 E	.75
1000.00	.50	S 85.60 E	100.00	999.94	999.94	N	2.50	S 74.30 E	9.26	S 74.30 E	.54
1100.00	.50	N 43.00 E	100.00	1099.94	1099.94	N	2.20	S 77.21 E	9.92	S 77.21 E	.44
1200.00	.30	S 25.00 E	100.00	1199.94	1199.94	N	2.24	S 77.52 E	10.53	S 77.52 E	.65
1300.00	.10	N 42.00 E	100.00	1299.94	1299.94	N	2.26	S 77.57 E	10.80	S 77.57 E	.53
1400.00	.10	N 23.00 E	100.00	1399.93	1399.93	N	2.11	S 70.82 E	10.89	S 70.82 E	.03
1500.00	.30	N 63.00 E	100.00	1499.93	1499.93	N	1.80	S 50.32 E	11.07	S 50.32 E	.20
1600.00	.10	S 70.00 W	100.00	1599.93	1599.93	N	1.65	S 81.35 E	10.95	S 81.35 E	.10
1700.00	.20	N 35.00 E	100.00	1699.93	1699.93	N	1.49	S 82.00 E	10.81	S 82.00 E	.29
1800.00	.80	N 42.00 E	100.00	1799.93	1799.93	N	.81	S 85.85 E	11.20	S 85.85 E	.20
1900.00	.90	N 48.00 E	100.00	1899.92	1899.92	N	.22	N 84.91 E	12.31	N 84.91 E	.12
2000.00	.70	N 09.00 E	100.00	1999.91	1999.91	N	.78	N 60.01 E	13.59	N 60.01 E	.50
2100.00	.10	N 47.00 E	100.00	2099.91	2099.91	N	1.07	N 60.60 E	14.23	N 60.60 E	.22
2200.00	.10	N 71.00 E	100.00	2199.91	2199.91	N	1.18	N 80.31 E	14.39	N 80.31 E	.60
2300.00	.40	N 40.00 E	100.00	2299.90	2299.90	N	1.45	N 84.25 E	15.75	N 84.25 E	.11
2400.00	.20	N 14.00 E	100.00	2399.90	2399.90	N	1.91	N 81.07 E	15.62	N 81.07 E	.20

DRYX ENERGY COMPANY
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WT-TT7

PAGE 2
17:14:51
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MEASURED INCL. HOLE DIRECTION DEGS. DEPTH FEET COURSE LENGTH FEET TRUE VERTICAL DEPTH FEET RECORDINATES N/S feet L/W DISTANCE DIRECTION DEGS. DOG-LEG SEVERITY

2500.00	.50	N 71.00 E	100.00	2499.90	2.35 N	15.29 E	15.47' N 81.27' E	.43
2600.00	.30	N 60.00 E	100.00	2599.90	2.59 N	15.95 E	16.16' N 80.77' E	.20
2700.00	0.00	* * * * *	100.00	2699.90	2.69 N	16.19 E	16.41' N 80.57' E	.30
2800.00	.50	N 69.00 E	100.00	2799.90	2.85 N	16.60 E	16.84' N 80.27' E	.50
2900.00	.10	N 77.00 E	100.00	2899.89	3.00 N	17.10 E	17.36' N 80.05' E	.40
3000.00	0.00	* * * * *	100.00	2999.89	3.02 N	17.18 E	17.44' N 80.04' E	.10
3100.00	.50	N 01.00 E	100.00	3099.89	3.45 N	17.19 E	17.53' N 78.64' E	.50
3200.00	0.00	* * * * *	100.00	3199.89	3.89 N	17.20 E	17.63' N 77.25' E	.50
3300.00	.10	N 18.00 E	100.00	3299.89	3.97 N	17.22 E	17.60' N 77.01' E	.10
3400.00	1.00	N 02.00 E	100.00	3399.89	4.92 N	17.39 E	18.07' N 74.21' E	.90
3500.00	.80	N 01.00 E	100.00	3499.87	6.49 N	17.43 E	18.60' N 69.59' E	.20
3536.00	1.20	N 02.00 E	36.00	3535.87	7.11 N	17.45 E	18.84' N 67.82' E	1.11

CLOSURE DISTANCE = 18.84 FEET
CLOSURE DIRECTION = N 67.82 E