

PHILLIPS PETROLEUM COMPANY

SURVEY REPORT

WELL NAME: ROOSEVELT HOT SPRINGS 82-33

LOCATION: BEAVER COUNTY, UTAH

FILE NO.: A2-263, FL14-03

JOB NO.: RM688-G1539

TYPE: GYROSCOPIC MULTIPLE SHOT, MAGNETIC MULTIPLE SHOT

SURVEYOR: IRVIN MCFALL

DECLINATION: 14 EAST

COMPUTER OPERATOR: STEVE THURSTON

VERTICAL SECTION CALCULATED IN PLANE OF BOTTOM HOLE CLOSURE



RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

HILLIPS PETROLEUM COMPANY
WELL NAME: ROOSEVELT HOT SPRINGS 82-33
LOCATION: BEAVER COUNTY, UTAH

SURVEY REPORT

COMPUTATION
TIME DATE
15:00:57 22-JUN-83

PAGE NO. 2

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	R E C T A N G U L A R C O O R D I N A T E S FEET	DOGLEG SEVERITY DG/100FT
2775.00	3 30	N 56	100.0	2772.96	63.97	28.71 N 74.05 W	1.26
2875.00	3 0	N 42	100.0	2872.80	69.39	32.42 N 78.32 W	0.73
2975.00	3 30	N 36	100.0	2972.64	75.02	36.82 N 81.89 W	0.60
3075.00	4 0	N 27	100.0	3072.42	81.55	42.39 N 85.30 W	0.77
3175.00	4 15	N 26	100.0	3172.16	88.70	48.83 N 88.51 W	0.26
3275.00	4 30	N 36	100.0	3271.87	96.32	55.36 N 92.44 W	0.30
3375.00	4 0	N 41	100.0	3371.60	103.69	61.16 N 97.05 W	0.62
3475.00	4 30	N 41	100.0	3471.32	111.02	66.75 N 101.91 W	0.50
3575.00	5 0	N 36	100.0	3570.98	119.25	73.23 N 107.06 W	0.65
3675.00	5 15	N 31	100.0	3670.53	128.18	80.68 N 111.99 W	0.51
3775.00	4 30	N 31	100.0	3770.22	136.67	87.96 N 116.37 W	0.75
3875.00	5 0	N 37	100.0	3869.87	144.95	94.82 N 121.00 W	0.70
3975.00	5 0	N 41	100.0	3969.49	153.60	101.60 N 126.48 W	0.35
4075.00	5 0	N 43	100.0	4069.11	162.20	108.07 N 132.31 W	0.17
4175.00	4 30	N 40	100.0	4168.77	170.37	114.27 N 137.80 W	0.56
4275.00	5 0	N 43	100.0	4268.42	178.55	120.47 N 143.28 W	0.56
4375.00	5 15	N 36	100.0	4368.02	187.41	127.36 N 148.96 W	0.67
4475.00	5 0	N 30	100.0	4467.62	196.34	134.85 N 153.83 W	0.59
4575.00	5 30	N 29	100.0	4567.20	205.48	142.82 N 158.33 W	0.51
4675.00	7 0	N 20	100.0	4666.61	216.25	152.71 N 162.84 W	1.79
4775.00	8 0	N 12	100.0	4765.75	228.76	165.25 N 166.44 W	1.44
4875.00	8 45	N 12	100.0	4864.68	242.40	179.50 N 169.47 W	0.75
4975.00	10 0	N 11	100.0	4963.35	257.61	195.46 N 172.71 W	1.26
5075.00	10 0	N 8	100.0	5061.83	273.60	212.58 N 175.58 W	0.52
5175.00	11 15	N 6	100.0	5160.11	290.25	230.88 N 177.83 W	1.30
5275.00	11 45	N 6	100.0	5258.10	308.10	250.71 N 179.91 W	0.50
5375.00	11 30	N 7	100.0	5356.05	326.22	270.73 N 182.19 W	0.32
5475.00	10 45	N 6	100.0	5454.17	343.56	289.90 N 184.37 W	0.77

FINAL CLOSURE - DIRECTION:

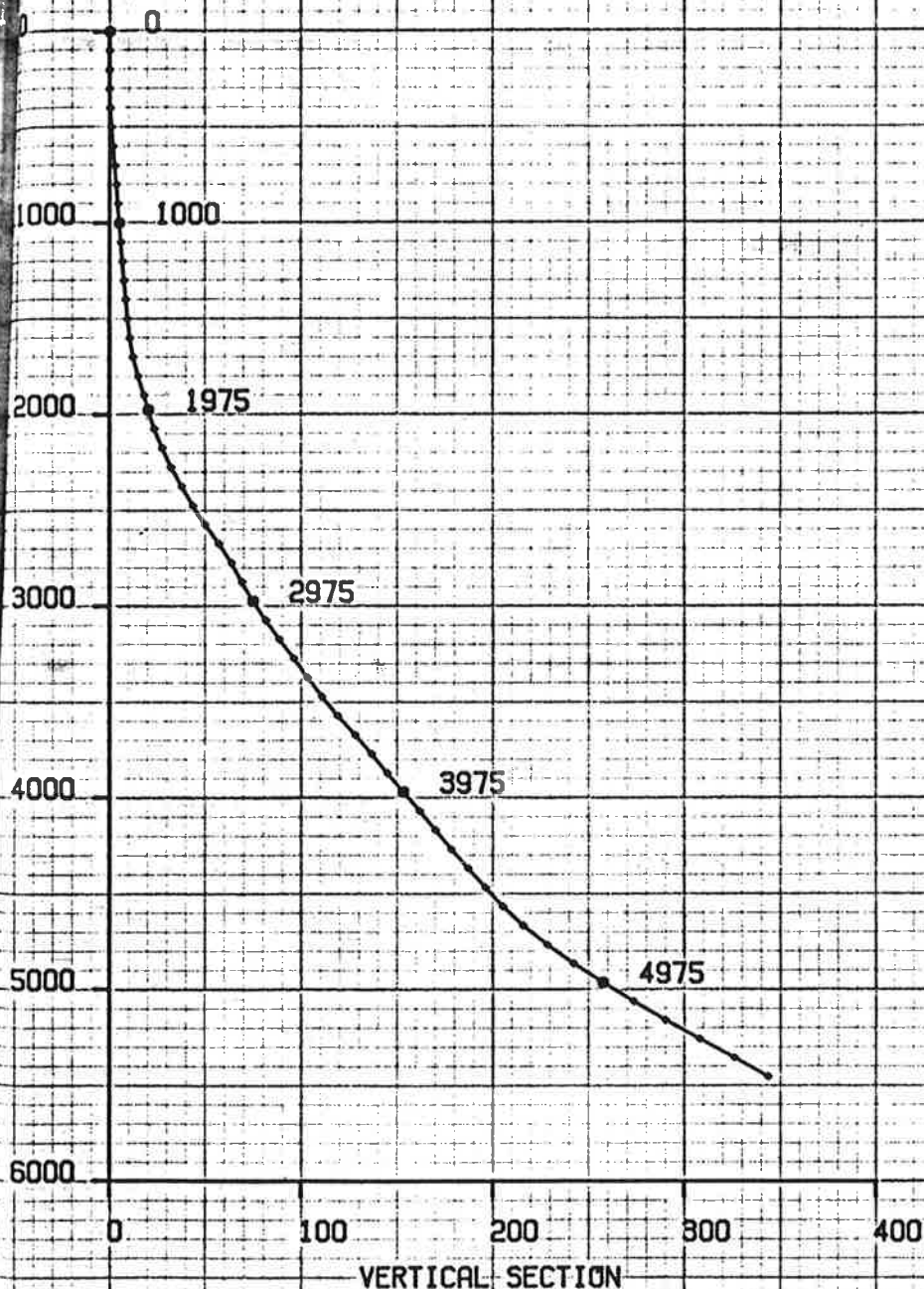
N 32 DEGS 27 MINS 22 SECS W

PHILLIPS PETROLEUM COMPANY
WELL NAME: ROOSEVELT HOT SPRINGS 82-33
LOCATION: BEAVER COUNTY, UTAH

VERTICAL PROJECTION

HORIZONTAL SCALE 1 IN. = 100 FEET
VERTICAL SCALE 1 IN. = 1000 FEET

EASTMAN WHIPSTOCK, INC.



CLOSURE 343.56 N 32 27 22 W

PHILLIPS PETROLEUM COMPANY
WELL NAME: ROOSEVELT HOT SPRINGS 82-33
LOCATION: BEAVER COUNTY, UTAH

HORIZONTAL PROJECTION

SCALE 1 IN. = 50 FEET
DEPTH INDICATOR: MD

EASTMAN WHIPSTOCK, INC.

5475

FINAL STATION:
DEPTH 5475 MD. 5454.17 TVD
NORTH 289.90 WEST 184.37
CLOSURE 343.56 N 32 27 22 W

4975

4475

3975

3475

2975

2475

1975

0

0

COMPANY-PHILLIPS PETROLEUM C

DATE- 16-JUN-83

LEASE- ROOSEVELT HOT SPNGS 82-33

LOCATION- MILFORD

RIG- PRODUCTION

DECLINATION-14E

DEPTH-

JOB NO.

EASTMAN WHIPSTOCK

RADIUS OF CURVATURE METHOD

SURVEYOR-IRVIN MCFALL

DEPTH	ANGLE	DIRECT	TVD	N/S COORD	E/W COORD
0 TIE IN	0	N74E			
100	00 00	N 15E	100.00	0.00	0.00
200	00 15	N 72E	200.00	.15 N	.14 E
300	00 15	N 46E	300.00	.37 N	.51 E
400	00 30	N 8W	400.00	.97 N	.72 E
500	00 30	N 12W	499.99	1.83 N	.57 E
600	00 30	N 36W	599.99	2.62 N	.22 E
700	00 30	N 70W	699.99	3.14 N	.47 W
800	00 45	N 82W	799.98	3.40 N	1.53 W
900	00 45	N 89W	899.97	3.50 N	2.83 W
1000	01 00	S 87W	999.96	3.47 N	4.36 W
1100	01 00	S 83W	1099.94	3.32 N	6.10 W
1200	01 15	S 79W	1199.92	3.01 N	8.03 W
1300	01 30	S 79W	1299.90	2.55 N	10.39 W
1400	01 30	S 79W	1399.86	2.05 N	12.96 W
1500	01 45	S 79W	1499.82	1.51 N	15.74 W
1600	01 45	S 80W	1599.77	.95 N	18.75 W
1700	02 00	N 80W	1699.72	.95 N	22.00 W
1800	02 30	N 73W	1799.64	1.87 N	25.82 W
1900	02 30	N 78W	1899.55	2.96 N	30.04 W
1975	02 00	N 72W	1974.49	3.72 N	32.88 W

BOTTOM HOLE CLOSURE

33.09 FEET AT N 83.55W

DEPTH	ANGLE	DIRECT	TVD	N/S COORD	E/W COORD
1975 TIE IN	02 00	N72W	1974.49	3.72 N	-32.88 W
2075	02 30	N67W	2074.41	5.09 N	36.56 W
2175	03 00	N63W	2174.30	7.12 N	40.90 W
2275	03 00	N58W	2274.16	9.70 N	45.46 W
2375	04 00	N58W	2373.97	12.94 N	50.63 W
2475	03 30	N56W	2473.76	16.50 N	56.12 W
2575	04 15	N53W	2573.53	20.42 N	61.62 W
2675	04 45	N58W	2673.22	24.86 N	68.08 W
2775	03 30	N56W	2772.96	28.78 N	74.12 W
2875	03 00	N42W	2872.80	32.49 N	78.38 W
2975	03 30	N36W	2972.64	36.89 N	81.95 W
3075	04 00	N27W	3072.42	42.46 N	85.36 W
3175	04 15	N26W	3172.16	48.90 N	88.57 W
3275	04 30	N36W	3271.87	55.43 N	92.50 W
3375	04 00	N41W	3371.60	61.23 N	97.11 W
3475	04 30	N41W	3471.32	66.82 N	101.97 W
3575	05 00	N36W	3570.98	73.30 N	107.13 W
3675	05 15	N31W	3670.58	80.75 N	112.05 W
3775	04 30	N31W	3770.21	88.03 N	116.43 W
3875	05 00	N37W	3869.87	94.89 N	121.06 W
3975	05 00	N41W	3969.49	101.66 N	126.54 W
4075	05 00	N43W	4069.11	108.14 N	132.37 W
4175	04 30	N40W	4168.77	114.34 N	137.86 W
4275	05 00	N43W	4268.42	120.54 N	143.35 W
4375	05 15	N36W	4368.02	127.43 N	149.03 W
4475	05 00	N30W	4467.62	134.92 N	153.89 W
4575	05 30	N29W	4567.20	142.88 N	158.39 W
4675	07 00	N20W	4666.61	152.78 N	162.90 W
4775	08 00	N12W	4765.75	165.32 N	166.50 W
4875	08 45	N12W	4864.68	179.57 N	169.53 W
4975	10 00	N11W	4963.34	195.53 N	172.78 W
5075	10 00	N08W	5061.83	212.65 N	175.64 W
5175	11 15	N06W	5160.11	230.95 N	177.89 W
5275	11 45	N06W	5258.10	250.78 N	179.97 W
5375	11 30	N07W	5356.05	270.80 N	182.25 W
5475	10 45	N06W	5454.17	289.97 N	184.44 W

BOTTOM HOLE CLOSURE

343.66 FEET AT H 32.46W