



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

Holly Energy Inc.
COMPANY

Salt Lake South Deep Well No. 1
WELL NAME

Lea County, New Mexico
LOCATION

JOB NUMBER
WT981-G0012
WT981-S0011
WT1281-S0142
WT182-S0171

TYPE OF SURVEY
GYROSCOPIC MULTI SHOT SURVEY
MAGNETIC MULTI SHOT SURVEY
MAGNETIC MULTI SHOT SURVEY
MAGNETIC MULTI SHOT SURVEY

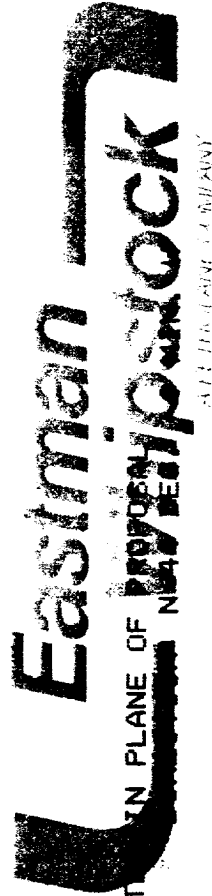
DATE
08-SEP-81
08-SEP-81
20-DEC-81
01-JAN-82

SURVEY BY
DOUG JEFFERS, TROY ONEY, STAN ROBERTS.

OFFICE
West Texas

HOLLY ENERGY INC.
SALT LAKE SOUTH DEEP WELL NO. 1
LEA COUNTY, NEW MEXICO BD1-386
12/20/81

EASTMAN WHIPSTOCK INC.
GYROSCOPIC MULTI SHOT SURVEY WT981-G0012
SURVEYOR: DOUG JEFFERS (0-5180')
MAGNETIC MULTI SHOT SURVEY WT981-S0011
SURVEYOR: TROY ONEY (5180'-6984')
MAGNETIC MULTI SHOT SURVEY WT1281-S0142
SURVEYOR: DOUG JEFFERS (6984'-13952')
MAGNETIC MULTI SHOT SURVEY WT182-S0171
SURVEYOR: STAN ROBERTS (13952'-14463')



VERTICAL SECTION CALCULATION IN PLANE OF

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

HOLLY ENERGY INC.

SALT LAKE SOUTH DEEP WELL NO. 1
LEA COUNTY, NEW MEXICO BDI-386

COMPUTATION
TIME DATE
15:47:55 07-APR-82

PAGE NO. 1

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
0.	0 0	0	0.	0.00	0.00	0.00	0.00
200.	0 15	S 87 W	200.	200.00	0.28	0.02 S	0.13
300.	0 0	0	100.	300.00	0.43	0.03 S	0.25
400.	0 0	0	100.	400.00	0.43	0.03 S	0.00
500.	0 15	S 78 W	100.	500.00	0.54	0.08 S	0.25
600.	0 30	S 45 W	100.	600.00	0.72	0.39 S	0.32
700.	0 30	S 75 W	100.	699.99	0.92	0.82 S	0.26
800.	0 15	S 84 W	100.	799.99	1.29	0.94 S	0.26
900.	0 30	S 53 W	100.	899.99	1.53	1.18 S	0.31
1000.	0 45	S 78 W	100.	999.99	1.89	1.62 S	0.36
1100.	0 30	S 67 W	100.	1099.98	2.38	1.95 S	0.28
1200.	0 30	S 74 W	100.	1199.97	2.74	2.24 S	0.06
1300.	0 15	S 11 W	100.	1299.97	3.11	2.70 S	0.45
1400.	0 15	S 13 E	100.	1399.97	3.38	3.14 S	0.10
1500.	0 0	0	100.	1499.97	2.20	3.35 S	0.25
1600.	0 15	S 37 E	100.	1599.97	1.99	3.52 S	0.25
1700.	0 0	0	100.	1699.97	1.77	3.69 S	0.25
1800.	0 15	S 70 E	100.	1799.97	1.57	3.77 S	0.25
1900.	0 15	S 38 E	100.	1899.97	1.15	4.02 S	0.14
2000.	0 0	0	100.	1999.97	0.93	4.19 S	0.25
2100.	0 0	0	100.	2099.97	0.93	4.19 S	0.00
2200.	0 15	N 69 E	100.	2199.97	0.85	4.11 S	0.25
2300.	0 30	N 84 E	100.	2299.96	0.52	3.96 S	0.27
2400.	0 45	N 80 E	100.	2399.96	-0.12	3.81 S	0.25
2500.	0 45	N 67 E	100.	2499.95	-0.73	3.44 S	0.17
2600.	0 45	N 63 E	100.	2599.94	-1.15	2.89 S	0.05
2700.	0 45	N 74 E	100.	2699.93	-1.65	2.41 S	0.14
2800.	1 0	N 62 E	100.	2799.92	-2.22	1.84 S	0.31
2900.	0 45	N 61 E	100.	2899.91	-2.63	1.11 S	0.25
3000.	1 0	N 73 E	100.	2999.90	-3.18	0.51 S	0.31

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	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
3100.	0 45	N 82 E	100.	3099.89	-3.97	0.18 S	5.53 E
3200.	0 30	N 69 E	100.	3199.88	-4.51	0.09 N	6.58 E
3300.	0 45	N 54 E	100.	3299.87	-4.80	0.61 N	7.54 E
3400.	0 45	N 51 E	100.	3399.86	-4.95	1.40 N	8.58 E
3500.	0 30	N 46 E	100.	3499.86	-4.99	2.13 N	9.39 E
3600.	0 30	N 48 E	100.	3599.85	-5.01	2.72 N	10.03 E
3700.	1 0	N 55 E	100.	3699.85	-5.14	3.54 N	11.05 E
3800.	1 0	N 67 E	100.	3799.83	-5.59	4.38 N	12.58 E
3900.	1 0	N 62 E	100.	3899.82	-6.14	5.13 N	14.15 E
4000.	1 15	N 71 E	100.	3999.80	-6.83	5.91 N	15.95 E
4100.	1 0	N 57 E	100.	4099.78	-7.43	6.77 N	17.71 E
4200.	1 0	N 67 E	100.	4199.75	-7.59	7.59 N	19.25 E
4300.	0 45	N 56 E	100.	4299.74	-8.32	8.32 N	20.59 E
4400.	0 45	N 66 E	100.	4399.74	-8.66	8.95 N	21.73 E
4500.	0 45	N 58 E	100.	4499.73	-9.02	9.57 N	22.89 E
4600.	0 45	N 52 E	100.	4599.72	-9.22	10.32 N	23.96 E
4700.	0 45	N 51 E	100.	4699.71	-9.35	11.13 N	24.98 E
4800.	1 0	N 54 E	100.	4799.70	-9.52	12.06 N	26.19 E
4900.	1 15	N 59 E	100.	4899.68	-9.88	13.14 N	27.83 E
5000.	1 15	N 56 E	100.	4999.66	-10.31	14.32 N	29.67 E
5100.	1 15	N 56 E	100.	5099.64	-10.69	15.54 N	31.48 E
5180.	1 0	N 56 E	80.	5179.62	-10.97	16.41 N	32.78 E
5241.	2 0	N 50 E	61.	5240.60	-11.16	17.37 N	34.06 E
5303.	2 0	N 38 E	62.	5302.56	-11.09	18.93 N	35.56 E
5397.	1 30	N 32 E	94.	5396.52	-10.54	21.28 N	37.21 E
5491.	1 15	N 75 E	94.	5490.49	-10.83	22.59 N	38.98 E
5585.	0 45	S 79 E	94.	5584.48	-11.91	22.65 N	40.60 E
5679.	1 0	S 76 E	94.	5678.46	-13.11	22.34 N	42.00 E
5774.	1 0	N 81 E	95.	5773.45	-14.30	22.26 N	43.65 E
5868.	0 45	N 88 E	94.	5867.44	-15.20	22.40 N	45.07 E

Eastman
Whipstock

HOLLY ENERGY INC.
SALT LAKE SOUTH DEEP WELL NO. 1
LEA COUNTY, NEW MEXICO BDI-386

COMPUTATION PAGE NO.
TIME DATE
15:47:55 07-APR-82

MEASURED DEPTH FEET	DRIFT		DIRECTION D	COURSE LENGTH FEET	TRUE		VERTICAL SECTION FEET	RECTANGULAR COORDINATES		DOGLEG SEVERITY DG/100FT
	ANGLE D M				VERTICAL DEPTH FEET			FEET		
5962.	1 0		N 86 E	94.	5961.43		-16.14	22.48 N	46.51 E	0.27
6056.	0 30		N 54 E	94.	6055.42		-16.63	22.89 N	47.65 E	0.67
6150.	0 45		N 21 E	94.	6149.41		-16.48	23.69 N	48.26 E	0.46
6244.	1 0		N 79 E	94.	6243.40		-16.58	24.58 N	49.31 E	0.93
6338.	0 45		N 31 E	94.	6337.39		-16.80	25.38 N	50.45 E	0.80
6432.	0 30		N 70 E	94.	6431.38		-16.87	26.01 N	51.23 E	0.51
6526.	0 30		S 47 E	94.	6525.38		-17.52	25.86 N	51.99 E	0.56
6620.	0 30		S 20 W	94.	6619.38		-18.18	25.11 N	52.17 E	0.59
6714.	1 0		S 19 W	94.	6713.37		-18.73	23.95 N	51.76 E	0.53
6808.	0 15		S 23 W	94.	6807.36		-19.17	22.99 N	51.40 E	0.80
6902.	0 30		S 27 W	94.	6901.36		-19.39	22.43 N	51.14 E	0.27
6933.	0 45		S 7 W	31.	6932.35		-20.10	22.10 N	51.08 E	1.41
6964.	1 0		S 18 W	20.	6963.35		-20.64	21.64 N	51.03 E	1.45
6984.	1 0		S 35 W	20.	6983.35		-21.33	21.33 N	50.88 E	1.48
6994.	1 0		S 2 E	10.	6993.35		-20.09	21.16 N	50.83 E	6.35
7087.	4 45		N 33 W	93.	7086.22		-18.54	20.12 N	47.53 E	6.05
7180.	5 45		N 39 W	93.	7178.83		-10.12	27.00 N	42.53 E	1.23
7274.	7 30		N 47 W	94.	7272.19		0.71	34.93 N	35.14 E	2.10
7367.	9 0		N 50 W	93.	7364.23		14.01	43.77 N	25.15 E	1.68
7460.	10 30		N 40 W	93.	7455.88		29.74	54.89 N	14.03 E	2.43
7553.	12 0		N 21 W	93.	7547.09		47.30	70.45 N	4.86 E	4.28
7646.	14 0		N 22 W	93.	7637.71		66.63	89.92 N	2.80 W	2.16
7740.	16 30		N 24 W	94.	7728.39		89.71	112.67 N	12.46 W	2.72
7833.	18 0		N 26 W	93.	7817.20		115.78	137.66 N	24.12 W	1.73
7926.	20 0		N 29 W	93.	7905.13		144.81	164.52 N	38.10 W	2.39
8019.	22 0		N 30 W	93.	7991.95		177.07	193.52 N	54.51 W	2.18
8112.	23 15		N 31 W	93.	8077.79		211.86	224.35 N	72.66 W	1.41
8205.	23 15		N 31 W	93.	8163.24		247.63	255.82 N	91.57 W	0.00
8299.	23 15		N 30 W	94.	8249.61		283.71	287.79 N	110.40 W	0.42
8392.	23 15		N 30 W	93.	8335.05		319.33	319.58 N	128.76 W	0.00

15147155 07-APR-82

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	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	DOGLEO SEVERITY DG/100FT
8485.	22 30	N 32 W	93.	8420.74	354.55	350.57 N 147.38 W	1.16
8578.	23 0	N 31 W	93.	8506.50	389.66	381.23 N 166.17 W	0.68
8671.	23 0	N 29 W	93.	8592.11	424.92	412.70 N 184.34 W	0.84
8765.	22 15	N 32 W	94.	8678.88	460.08	443.85 N 202.69 W	1.46
8858.	22 0	N 31 W	93.	8765.03	494.28	473.72 N 220.99 W	0.49
8951.	22 30	N 32 W	93.	8851.10	528.66	503.74 N 239.39 W	0.67
9044.	22 30	N 30 W	93.	8937.02	563.33	534.25 N 257.72 W	0.82
9137.	22 45	N 33 W	93.	9022.87	598.26	564.75 N 276.41 W	1.27
9230.	22 45	N 33 W	93.	9108.63	633.56	594.91 N 296.00 W	0.00
9324.	22 45	N 33 W	94.	9194.33	669.24	625.40 N 315.80 W	0.00
9417.	23 15	N 34 W	93.	9280.92	704.97	65.70 N 335.85 W	0.68
9510.	23 0	N 35 W	93.	9367.33	735.80	65.80 N 356.54 W	0.50
9603.	23 45	N 32 W	93.	9444.33	764.57	114.57 N 376.90 W	1.51
9696.	23 45	N 35 W	93.	9536.94	794.80	747.80 N 397.57 W	1.30
9790.	23 30	N 40 W	94.	9623.06	851.51	777.67 N 420.50 W	2.15
9883.	24 0	N 39 W	93.	9708.19	888.85	806.57 N 444.32 W	0.69
9976.	24 0	N 40 W	93.	9793.15	926.56	835.76 N 468.38 W	0.44
10069.	23 30	N 37 W	93.	9878.27	963.84	865.07 N 491.70 W	1.41
10162.	23 45	N 41 W	93.	9963.48	1000.96	894.03 N 515.15 W	1.74
10256.	23 0	N 48 W	94.	10049.76	1038.23	920.61 N 541.27 W	3.06
10349.	21 15	N 54 W	93.	10135.91	1072.98	942.65 N 568.48 W	3.07
10442.	21 15	N 55 W	93.	10222.59	1106.12	962.22 N 595.92 W	0.39
10535.	21 15	N 57 W	93.	10309.26	1139.09	981.07 N 623.86 W	0.78
10628.	22 0	N 57 W	93.	10395.72	1172.48	999.73 N 652.60 W	0.81
10722.	21 45	N 58 W	94.	10482.95	1206.54	1018.55 N 682.14 W	0.48
10815.	22 0	N 57 W	93.	10569.25	1240.23	1037.17 N 711.36 W	0.48
10908.	21 15	N 59 W	93.	10655.71	1273.48	1055.33 N 740.43 W	1.13
11001.	21 45	N 57 W	93.	10742.24	1306.55	1073.39 N 769.33 W	0.95
11094.	21 15	N 58 W	93.	10828.76	1339.69	1091.70 N 798.08 W	0.67
11188.	21 30	N 59 W	94.	10916.30	1372.86	1109.60 N 827.29 W	0.47

HOLLY ENERGY INC.

SALT LAKE SOUTH DEEP WELL NO. 1

LEA COUNTY, NEW MEXICO BDI-386

COMPUTATION

PAGE NO. 5

TIME DATE

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MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE		VERTICAL SECTION FEET	RECTANGULAR COORDINATES		DOGLEG SEVERITY DG/100FT
				VERTICAL DEPTH FEET			FEET		
11281.	21 15	N 60 W	93.	11002.90		1405.52	1126.80 N	856.49 W	0.48
11374.	21 15	N 57 W	93.	11089.58		1438.15	1144.41 N	885.23 W	1.17
11467.	21 15	N 57 W	93.	11176.25		1470.99	1162.77 N	913.49 W	0.00
11560.	21 45	N 57 W	93.	11262.78		1504.20	1181.33 N	942.08 W	0.54
11653.	21 15	N 58 W	93.	11349.31		1537.35	1199.65 N	970.83 W	0.67
11747.	21 0	N 59 W	94.	11436.99		1570.15	1217.35 N	999.71 W	0.47
11840.	20 0	N 57 W	93.	11524.10		1601.75	1234.61 N	1027.33 W	1.31
11933.	17 0	N 58 W	93.	11612.29		1630.44	1250.46 N	1052.22 W	3.24
12026.	14 30	N 59 W	93.	11701.79		1654.88	1263.65 N	1073.74 W	2.70
12119.	13 0	N 59 W	93.	11783.71		1676.23	1275.03 N	1092.69 W	1.61
12213.	13 0	N 54 W	94.	11863.71		1696.84	1286.70 N	1110.31 W	1.20
12306.	12 0	N 57 W	93.	11949.00		1718.50	1298.10 N	1126.90 W	1.28
12399.	11 15	N 54 W	93.	12034.38		1739.78	1309.71 N	1142.34 W	1.04
12492.	10 15	N 57 W	93.	12156.96	ETROLAN 175W/94Y	1761.54	1318.54 N	1156.64 W	1.23
12585.	11 45	N 55 W	93.	12248.25		1769.30	1328.46 N	1171.35 W	1.66
12679.	14 0	N 53 W	94.	12339.88		1789.93	1340.77 N	1188.29 W	2.44
12772.	14 45	N 55 W	93.	12429.97		1812.66	1354.34 N	1206.97 W	0.97
12865.	16 15	N 55 W	93.	12519.59		1837.06	1368.60 N	1227.33 W	1.61
12958.	18 0	N 55 W	93.	12608.46		1863.94	1384.30 N	1249.76 W	1.88
13051.	18 0	N 51 W	93.	12696.91		1892.32	1401.59 N	1272.70 W	1.33
13144.	18 0	N 54 W	93.	12785.36		1920.74	1419.09 N	1295.50 W	1.00
13238.	17 0	N 54 W	94.	12875.00		1948.57	1435.70 N	1318.37 W	1.06
13331.	16 0	N 56 W	93.	12964.17		1974.50	1450.85 N	1340.00 W	1.24
13424.	15 0	N 58 W	93.	13053.79		1998.71	1464.39 N	1360.85 W	1.22
13517.	13 30	N 69 W	93.	13143.93		2020.26	1474.58 N	1381.30 W	3.32
13610.	13 15	N 67 W	93.	13234.40		2039.91	1482.64 N	1401.25 W	0.57
13704.	13 0	N 68 W	94.	13325.95		2059.49	1490.81 N	1420.97 W	0.36
13797.	12 15	N 66 W	93.	13416.70		2078.20	1498.75 N	1439.68 W	0.93
13890.	11 30	N 68 W	93.	13507.71		2095.81	1506.23 N	1457.29 W	0.92
13921.	12 0	N 68 W	31.	13538.06		2101.58	1508.60 N	1463.15 W	1.61

HOLLY ENERGY INC.
SALT LAKE SOUTH DEEP WELL NO. 1
LEA COUNTY, NEW MEXICO B01-386

COMPUTATION PAGE NO. 6
TIME DATE
15147155 07-APR-82

MEASURED DEPTH FEET	DRIFT		DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET		VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		DOGLEG SEVERITY DG/100FT
	ANGLE D M									
13952.	12 0		N 68 W	31.	13568.38		2107.47	1511.01 N	1469.12 W	0.00
13998.	11 45		N 80 W	46.	13613.40		2115.65	1513.61 N	1478.21 W	5.39
14091.	10 0		N 76 W	93.	13704.72		2130.19	1517.26 N	1495.36 W	2.05
14184.	8 30		N 75 W	93.	13796.51		2142.94	1521.00 N	1509.84 W	1.62
14277.	7 15		N 78 W	93.	13888.63		2153.68	1523.98 N	1522.22 W	1.41
14370.	5 30		N 62 W	93.	13981.05		2162.94	1527.50 N	1531.90 W	2.66
14463.	5 0		N 63 W	93.	14073.66		2171.00	1531.43 N	1539.44 W	0.55

FINAL CLOSURE - DIRECTION
DISTANCE

2171.00 N 4.00 E
Eastman Whipstock
A PERIPLANE COMPANY

HOLLY ENERGY INC.
 3011 LAKE SOUTH DEER WELLS RD.
 LEA COUNTY, NEW MEXICO 8801-5600

EASTMAN INSTRUMENTAL INC.

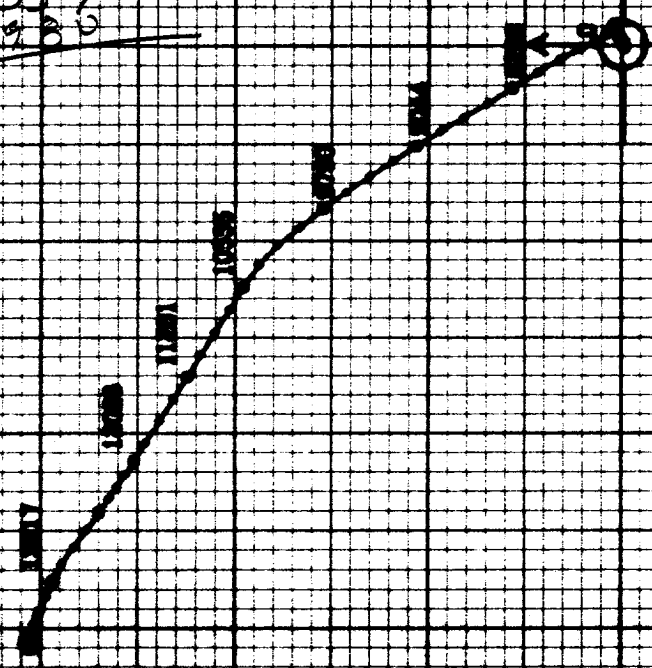
HORIZONTAL PROJECTION
 SCALE: 1 IN. = 500 FEET
 DEPTH INDICATOR, MD

FINAL SURVEY
 DEPTH 14463 MD. 1475.00 TVD
 NORTH 153.142 WEST 1538.14
 CLOSURE 211.44 N 15 8 56 W

153.1
 500
 203.9
 1980

1980

153.1
 500
 203.1



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-12
Supersedes C-12B
Effective 1-1-65

All distances must be from the outer boundaries of the Section

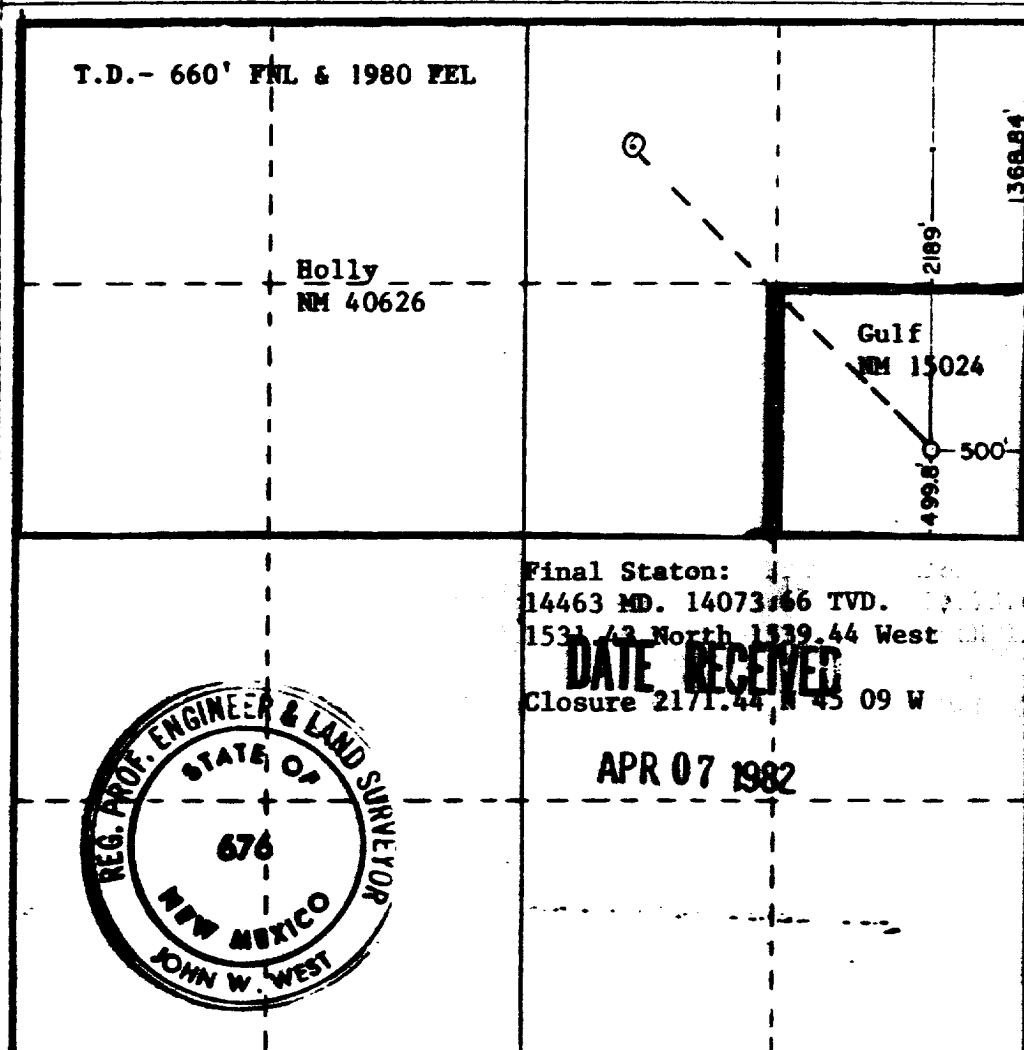
Operator Holly Energy Corp.		Lease Salt Lake South Deep		Well No. 1
Unit Letter H	Section 6	Township 21South	Range 32East	County Lea
Actual Footage Location of Well: 8189 feet from the North line and 500 feet from the East line				
Ground Level Elev. 3634.7'	Producing Formation Morrow	Pool South Salt Lake Morrow	Dedicated Acreage: 320 Acres	

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 Communitization

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

Robert Loyd

Name
Robert Loyd
Position
Dist. Superintendent
Company
Holly Energy Inc.
Date
June 4, 1981

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
April 9, 1981
Registered Professional Engineer and/or Land Surveyor
John W. West
Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6802
Ronald J. Eiden 3239



P. O. Box 5577/Midland, Texas 79701/(915) 563-0511
TWX 910-881-5066/Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, DOUG JEFFERS, in the employ of Eastman Whipstock, Inc., did on the days of SEPTEMBER 8, 1981 thru SEPTEMBER 8, 1981 conduct or supervise the taking of a GYROSCOPIC MULTI SHOT survey by the method of magnetic orientation from a depth of 0 feet to 5180 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of HOLLY ENERGY INC. for their SALT LAKE SOUTH DEEP #1, LEA County, State of NEW MEXICO, in the _____ field.

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

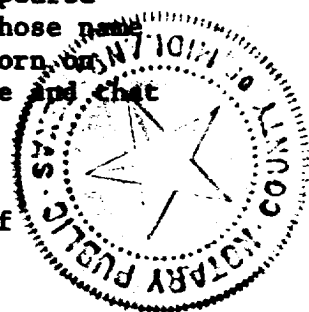
Douglas Jeffers
Directional Supervisor/Surveyor

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

Tim Stephens

Before me, the undersigned authority, on this day personally appeared DOUG JEFFERS, 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 15TH day of JAN, 1982.



Ray C. Stenke
Notary Public in and for the County of
Midland, Texas
My commission expires 7/9/85



P. O. Box 5577/Midland, Texas 79701/(915) 563-0511
TWX 910-881-5066/Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, TROY ONEY, in the employ of Eastman Whipstock, Inc., did on the days of SEPTEMBER 7, 1981 thru SEPTEMBER 8, 1981 conduct or supervise the taking of a MAGNETIC MULTI SHOT survey by the method of magnetic orientation from a depth of 5180 feet to 6984 feet, with recordings of inclination and direction being obtained at approximate intervals of 94 feet.

This survey was conducted at the request of HOLLY ENERGY INC. for their SALT LAKE SOUTH DEEP #1, LEA County, State of NEW MEXICO, in the _____ field.

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

Troy Oney
Directional Supervisor/Surveyor

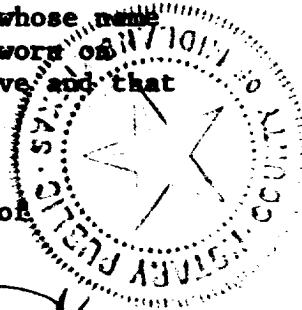
The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Tim Stephens

Before me, the undersigned authority, on this day personally appeared TROY ONEY, 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 15TH day of JAN, 1982

Ray C. Stenke
Notary Public in and for the County of
Midland, Texas
My commission expires 7/9/85





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

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, DOUG JEFFERS in the employ of Eastman Whipstock, Inc. did on the days of DECEMBER 20, 19 81 thru DECEMBER 20, 19 81 conduct or supervise the taking of a MAGNETIC MULTI SHOT survey by the method of magnetic orientation from a depth of 6984 feet to 13952 feet, with recordings of inclination and direction being obtained at approximate intervals of 93 feet.

This survey was conducted at the request of HOLLY ENERGY for their SALT LAKE SOUTH DEEP #1, LEA County, State of NEW MEXICO, in the field.

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

Douglas Jeffers
DIRECTIONAL SUPERVISOR/SURVEYOR

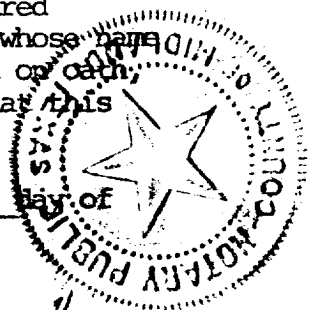
The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman whipstock, Inc.

Tim Stephens

Before me, the undersigned authority, on the day personally appeared DOUG JEFFERS, 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 therein recited.

Subscribed and sworn to before me on this JAN, 1982

15TH



Ray L. Steink

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



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

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

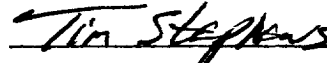
I, STAN ROBERTS in the employ of Eastman Whipstock, Inc. did on the days of JANUARY 1, 1982 thru JANUARY 1, 1982 conduct or supervise the taking of a MAGNETIC MULTI SHOT survey by the method of magnetic orientation from a depth of 13952 feet to 14463 feet, with recordings of inclination and direction being obtained at approximate intervals of 93 feet.

This survey was conducted at the request of HOLLY ENERGY for their SALT LAKE SOUTH DEEP #1, LEA COUNTY, County, State of NEW MEXICO, in the _____ field.

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

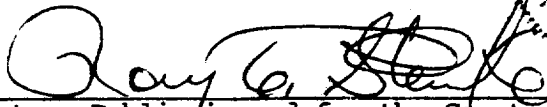

DIRECTIONAL SUPERVISOR/SURVEYOR

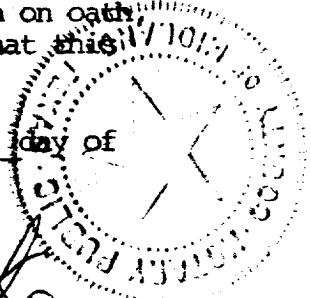
The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman whipstock, Inc.



Before me, the undersigned authority, on the day personally appeared STAN ROBERTS, 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 therein recited.

Subscribed and sworn to before me on this 15TH day of JAN, 1982.


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



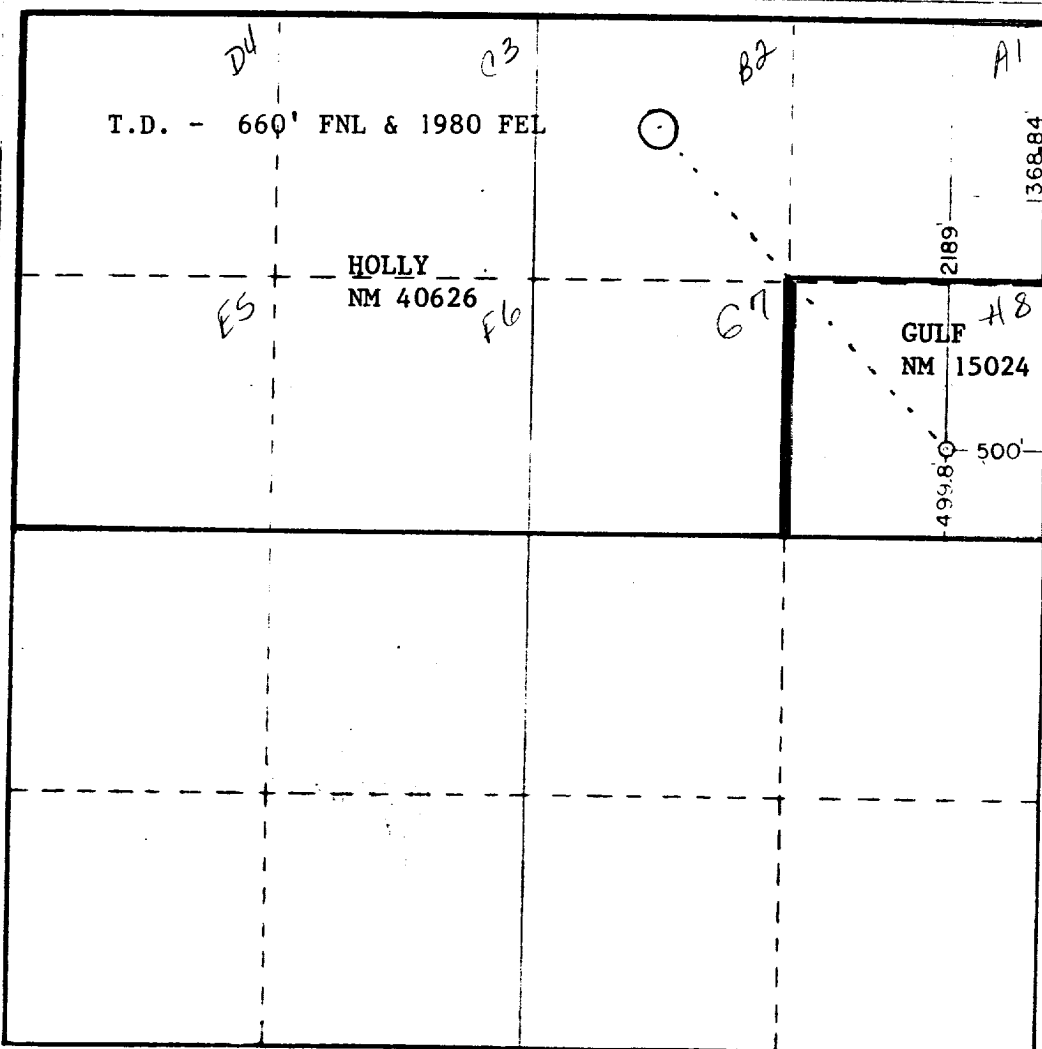
Operator Holly Energy Corp.		Lease Salt Lake South Deep		Well No. 1
Init Letter H	Section 6	Township 21South	Range 32East	County Lea
Actual Footage Location of Well: 2189 feet from the North line and 500 feet from the East line				
Ground Level Elev 3634.7'	Producing Formation Morrow	Pool South Salt Lake Morrow	Dedicated Acreage 320	

- 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 Communitization

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.

Robert Loyd

Name
Robert Loyd
Position
District Superintendent

Company
Holly Energy, Inc.

Date
June 4, 1981

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

Date Surveyed
April 9, 1981

Registered Professional Engineer and Land Surveyor

John W. West
Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6A63
Ronald J. Eidson 2219

RECEIVED

JUL 14 1981

OIL CONSERVATION DIV.



COUNTY LEA FIELD Salt Lake, S. STATE NM
 OPR HOLLY ENERGY, INC. API 30-025-27492
 O 1 LEASE Salt Lake South Deep MAP
Sec 6, T21S, R32E COORD
2189 FNL, 500 FEL of Sec 5-2-53 NM
3 mi SW/Halfway SPD 8-13-81 CMP 2-2-82

	WELL CLASS: INIT D FIN DG LSE CODE			
	FORMATION	DATUM	FORMATION	DATUM
13 3/8-516-570 sx				
9 5/8-5198-3500 sx				
5 1/2-14,510-1380 sx				
2 3/8-13,913				
	ID 14,510 (BRNT)		PBD 14,468	

IP (Morrow) Perfs 14,120-128 F 2000 MCFGPD. Pot based on
 24 hr test thru 20/64 chk. GOR (NR); gty (Gas) (NR); (Cond)
 65.6; CP Pkr; TP 850

CONTR Hondo #10

OPRSTEX 3635 GL

sub-s 17

F.R. 7-20-81
 PD 14,100 RT (Morrow)
 (BHL: 657 FNL, 2039 FEL of Sec)
 8-19-81 Drlg Tight
 8-27-81 Drlg 4401
 9-4-81 Drlg 5399
 9-10-81 Drlg 7027
 9-14-81 Drlg 7487
 9-22-81 Drlg 8462
 10-5-81 Drlg 9750
 10-21-81 Drlg 10,875
 10-27-81 Drlg 11,269
 11-5-81 Drlg 11,750
 11-17-81 Drlg 12,740
 mw 10.1, vis 32
 12-2-81 Drlg 13,461

5-2-53 NM

LEA
HOLLY ENERGY, INC.

Salt Lake, S.
1 Salt Lake South Deep
Sec 6, T21S, R32E

NM
Page #2

12-8-81 Drlg 14,061
12-16-81 TD 14,260; fsg
12-30-81 Drlg 14,388
Unable to rec fish
Set Plug @ 13,931 & Drld off
1-13-82 TD 14,510; WOC
2-3-82 TD 14,510; PBD 14,468, Tstg
Perf (Morrow) 14,120-128
Acid (14,120-128) 2000 gals + 5000 SCF N₂
Flwd 2065 MCFGPD + 22 BC + 7 BW in 24 hrs thru
32/64 chk (14,120-128)
2-9-82 TD 14,510; PBD 14,468; WOSP
5-2-53 NM

5-3-82 TD 14,510; PBD 14,468; Complete
LOG TOPS: Yates 3100, Third Bone Spring 10,176,
Wolfcamp 11,220, Strawn 12,838, Atoka 12,968,
Morrow 13,878, Morrow Clastics 13,978,
Barnett 14,450
LOGS RUN: DILL, CNL, FDC, GRNL
Rig Released 1-4-82
5-8-82 COMPLETION ISSUED

5-2-53 NM
IC 30-025-70473-81

COUNTY **LEA** FIELD **Salt Lake, S.** STATE **NM**
 OPR **HOLLY ENERGY, INC.** API **30-025-27492**
 NO **1** LEASE **Salt Lake South Deep** MAP
 Sec 6, T21S, R32E CO-ORD
2189 FNL, 500 FEL of Sec **2-1-52 NM**
3 mi SW/Halfway RE-SPD **10-27-82** RE **11-4-82**

CSG	WELL CLASS: INITDX FIN DG LSE. CODE			
	FORMATION	DATUM	FORMATION	DATUM
13 3/8-516-570 sx				
9 5/8-5198-3500 sx				
5 1/2-14,510-1380 sx				
2 3/8-13,913				
	TD 14,510 (BRNT)		PHD 14,468	

(Morrow) Perfs 14,040-430 NO NEW POTENTIAL

CONTR OPRSELEV **3635 GL** sub-s

1-31-83 F.R.C. 2-5-83 OWWO
 PD 14,468 WO
 (BHL: 657 FNL, 2039 FEL of Sec)
 (Orig. Cmp. 2-4-82 thru (Morrow) Perfs
 14,120-128, OTD 14,510, OPB 14,468)
 TD 14,510; PBD 14,468; Complete
 Perf (Morrow) 14,040-044, 14,054-066,
 14,088-094, 14,206-210, 14,216-221,
 14,228-234, 14,339-342, 14,368-376,
 14,416-430 w/1 SPF
 Acid (14,040-430) 10,000 gals
 2-5-83 COMPLETION ISSUED

2-1-52 NM
 IC 30-025-70074-83

COUNTY LEA FIELD Salt Lake, S. STATE NM
 OPR HOLLY ENERGY, INC. PI 30-025-27492
 NO 1 LEASE Salt Lake South Deep
 Sec 6, T21S, R32E
 2189 FNL, 500 FEL of Sec 5-2-53 NM
 3 mi SW/Halfway SPD 8-13-81 CMP *2-4-82

	WELL CLASS: INIT D FIN DG LSE. CODE			
	FORMATION	DATUM	FORMATION	DATUM
13 3/8-516-570 sx				
9 5/8-5198-3500 sx				
5 1/2-14,510-1380 sx				
2 3/8-13,913				
	TD 14,510 (BRNT)		PBD 14,468	

*IP(Morrow) Perfs 14,120-128 CAOF 2573 MCFGPD. GOR 3699;
 gty (Gas).6669; (Cond) 52.5; SIWHP 3948; SIBHP 5702

CONTR Hondo #10 OPRSELEV 3635 GL sub-s 17

F.R. 7-20-81
 PD 14,100 RT (Morrow)
 (BHL: 657 FNL, 2039 FEL of Sec)
 8-19-81 Drlg Tight
 8-27-81 Drlg 4401
 9-4-81 Drlg 5399
 9-10-81 Drlg 7027
 9-14-81 Drlg 7487
 9-22-81 Drlg 8462
 10-5-81 Drlg 9750
 10-21-81 Drlg 10,875
 10-27-81 Drlg 11,269
 11-5-81 Drlg 11,750
 11-17-81 Drlg 12,740
 mw 10.1, vis 32
 12-2-81 Drlg 13,461
 12-8-81 Drlg 14,061

5-2-53 NM

LEA
HOLLY ENERGY, INC.

Salt Lake, S.
1 Salt Lake South Deep
Sec 6, T21S, R32E

NM
Page #2

12-16-81 TD 14,260; fsg
12-30-81 Drlg 14,388
Unable to rec fish
Set Plug @ 12,931 & Drld off
1-13-82 TD 14,510; WOC
2-3-82 TD 14,510; pBD 14,468; Tstg
Perf (Morrow) 14,120-128
Acid (14,120-128) 2000 gals + 5000 SCF N2
Flwd 2065 MCFGPD + 22 BC + 7 BW in 24 hrs thru
32/64 chk (14,120-128)
2-9-82 TD 14,510; PBD 14,468; WOSP
5-3-82 TD 14,510; PBD 14,468; Complete

5-2-53 NM

5-3-82

Continued

*(Morrow) FOUR POINT GAUGES:

Flwd 508 MCFGPD, 8/64 chk, 60 mins, TP 3329
Flwd 990 MCFGPD, 10/64 chk, 60 mins, TP 2817
Flwd 1686 MCFGPD, 12.5/64 chk, 60 mins, TP 2160
Flwd 2053 MCFGPD, 15/64 chk, 60 mins, TP 1630
LOG TOPS: Yates 3100, Third Bone Spring 10,176,
Wolfcamp 11,220, Strawn 12,838, Atoka 12,968,
Morrow 12,878, Morrow Clastics 13,978, Barnett
14,450

LOGS RUN: DILL, GNL, FDC, GRNL

Rig Released 1-4-82

*Denotes Changes & Additions

5-2-53 NM

LEA
HOLLY ENERGY, INC.

Salt Lake, S.
1 Salt Lake South Deep
Sec 6, T21S, R32E

NM
Page #3

5-8-82 COMPLETION ISSUED
9-25-82 RE-ISSUED COMPLETION

5-2-53 NM
IC 30-025-70373-81