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HOUSTON, TEXAS

PAGE No. 1

Sii DATADRIL
Division of Smith International, Inc.DELTA DRILLING CO./L.L.&E.
HELLER # 1 *L 13-16-37*
LEA COUNTY, NEW MEXICO

12-10-65

MAGNETIC MULTISHOT
10 DEGREES EAST
N/A
N/A
OPERATOR- GARRY HENDRIX*** RECORD OF SURVEY ***
Calculated by Sii DATADRIL's C.A.D.D.S. SystemRadius of Curvature Method
All Angles are Decimal
Vertical Section Plane: N 0.00 E

TYPE OF SURVEY	MEASURED DEPTH (FEET)	INCL ANGLE (DEG)	COURSE DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH (FT)	RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	TOBLES SEVERITY (DEG/100')
	0.00	0.00	N 0.00 E	0.00	0.00	0.00 N 0.00 E	0.00	0.00
MNS	570.00	.50	S 54.00 E					.09
MNE	565.00	.75	S 46.00 E	92.00	664.99	2.11 S 2.79 E	-2.11	.25
MNS	755.00	.50	S 41.00 E	94.00	758.98	2.86 S 3.50 E	-2.86	.17
MNE	650.00	.50	S 51.00 E	93.00	851.98	3.42 S 4.06 E	-3.42	.09
MNE	945.00	.75	S 67.00 E	93.00	944.97	3.94 S 4.95 E	-3.94	.35
MNS	1035.00	.75	S 51.00 E	93.00	1037.96	4.57 S 5.79 E	-4.57	.22
MNE	1101.00	.75	S 62.00 E	93.00	1130.96	5.24 S 7.00 E	-5.24	.15
MNS	1224.00	.75	S 63.00 E	93.00	1223.95	5.80 S 8.08 E	-5.80	.01
MNS	1317.00	.75	S 63.00 E	93.00	1316.94	6.35 S 9.16 E	-6.35	0.00
MNE	1410.00	.50	S 57.00 E	93.00	1409.93	6.86 S 10.04 E	-6.86	.23
MNS	1503.00	.50	S 50.00 E	93.00	1502.93	7.34 S 10.99 E	-7.34	.07
MNE	1596.00	.50	S 65.00 E	93.00	1595.93	7.78 S 11.38 E	-7.78	.14
MNE	1689.00	.50	S 43.00 E	93.00	1688.92	8.25 S 12.03 E	-8.25	.21
MNE	1782.00	.75	S 15.00 E	93.00	1781.92	9.13 S 12.52 E	-9.13	.42
MNE	1875.00	.50	S 4.00 W	93.00	1874.91	10.15 S 12.61 E	-10.15	.35
MNE	1968.00	.50	S 2.00 W	93.00	1967.91	10.94 S 12.57 E	-10.94	.02
MNE	2061.00	.50	S 15.00 E	93.00	2060.91	11.75 S 12.66 E	-11.75	.15
MNE	2154.00	.75	S 8.00 W	93.00	2153.91	12.75 S 12.72 E	-12.75	.09
MNE	2247.00	.75	S 03.00 W	93.00	2246.90	13.83 S 12.70 E	-13.83	.05
MNE	2340.00	.50	S 12.00 W	93.00	2339.89	14.82 S 11.91 E	-14.82	.36

Sii DATADRIL Division of Smith International, Inc.

DELTA DRILLING CO./L.L.B.E.
HELLER # 1 *L 13-16-37*

LEA COUNTY, NEW MEXICO

TYPE OF SURVEY	MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	DOGLEB SEVERITY (DEG/100')
MMS	2400.00	.50	S 3.00 W	93.00	2432.88	15.62 S 11.81 E	-15.62	.08
MMS	2500.00	.50	S 37.00 W	93.00	2525.89	16.37 S 11.54 E	-16.37	.31
MMS	2610.00	.50	S 43.00 W	93.00	2618.88	16.99 S 11.01 E	-16.99	.06
MMS	2710.00	.25	S 31.00 W	93.00	2711.87	17.48 S 10.65 E	-17.48	.28
MMS	2800.00	.25	S 50.00 W	93.00	2804.87	17.79 S 10.39 E	-17.79	.09
MMS	2890.00	.25	S 64.00 W	93.00	2897.87	18.01 S 10.05 E	-18.01	.07
MMS	2990.00	.25	S 33.00 W	93.00	2990.87	18.27 S 9.75 E	-18.27	.14
MMS	3080.00	.50	S 51.00 E	93.00	3083.87	18.82 S 9.83 E	-18.82	.53
MMS	3170.00	.50	S 44.00 E	93.00	3176.87	19.37 S 10.43 E	-19.37	.07
MMS	3270.00	.75	R 77.00 E	93.00	3268.88	19.84 S 11.36 E	-19.84	.70
MMS	3360.00	.75	N 80.00 E	93.00	3360.88	19.40 S 12.55 E	-19.40	.04
MMS	3450.00	.75	N 71.00 E	93.00	3455.84	19.10 S 13.73 E	-19.10	.13
MMS	3540.00	.75	N 77.00 E	93.00	3548.84	18.76 S 14.90 E	-18.76	.05
MMS	3640.00	.75	N 64.00 E	93.00	3643.82	18.78 S 17.23 E	-18.78	.10
MMS	3730.00	.75	S 63.00 E	93.00	3734.82	18.78 S 17.23 E	-18.78	.43
MMS	3830.00	.50	S 51.00 E	93.00	3827.81	19.33 S 18.13 E	-19.33	.30
MMS	3920.00	.50	S 62.00 E	93.00	3920.81	19.78 S 18.61 E	-19.78	.10
MMS	4010.00	.75	S 45.00 E	93.00	4010.81	20.38 S 19.62 E	-20.38	.33
MMS	4100.00	1.00	S 47.00 E	93.00	4106.79	21.37 S 20.64 E	-21.37	.27
MMS	4200.00	.50	S 36.00 E	93.00	4199.79	22.28 S 21.45 E	-22.28	.56
MMS	4290.00	.50	S 33.00 E	93.00	4292.78	22.95 S 21.91 E	-22.95	.03
MMS	4380.00	.50	S 4.00 W	93.00	4385.78	23.72 S 22.11 E	-23.72	.34
MMS	4470.00	.75	S 15.00 E	93.00	4476.77	24.72 S 22.20 E	-24.72	.35
MMS	4570.00	.75	S 47.00 E	93.00	4571.77	25.75 S 22.82 E	-25.75	.44
MMS	4660.00	.75	S 48.00 E	93.00	4664.76	26.57 S 23.72 E	-26.57	.01
MMS	4750.00	1.00	S 20.00 E	93.00	4757.75	27.74 S 24.50 E	-27.74	.52
MMS	4850.00	.50	S 44.00 E	93.00	4850.74	28.77 S 25.15 E	-28.77	.62
MMS	4940.00	.75	S 29.00 E	93.00	4943.73	29.58 S 25.75 E	-29.58	.32
MMS	5030.00	.50	S 6.00 E	93.00	5036.73	30.54 S 26.05 E	-30.54	.38
MMS	5080.00	.25	S 30.00 E	29.00	5065.73	30.72 S 26.11 E	-30.72	1.00
MMS	5130.00	.50	S 12.00 E	23.00	5088.73	30.96 S 26.16 E	-30.86	1.19
MMS	5170.00	1.25	S 30.00 E	87.00	5170.72	31.70 S 27.02 E	-31.70	1.36
MMS	5210.00	1.25	S 61.00 E	93.00	5215.69	31.98 S 29.09 E	-31.98	.05

Sii DATADRIL Division of Smith International, Inc.

DELTA DRILLING CO./L.L.C.

LEA COUNTY, NEW MEXICO

HELLER # 1 *L 13-16-39*

TYPE OF SURVEY	MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	DOGLEG SEVERITY (DEG/100')
MMS	5362.00	1.25	S 86.00 E	93.00	5361.67	32.21 S	31.10 E	-32.21	.12
MMS	5455.00	1.50	S 82.00 E	93.00	5454.64	32.45 S	33.32 E	-32.45	.29
MMS	5548.00	1.50	S 88.00 E	93.00	5547.61	32.66 S	35.75 E	-32.66	.17
MMS	5641.00	1.75	N 77.00 E	93.00	5640.58	32.41 S	33.36 E	-32.41	.53
MMS	5734.00	1.00	N 87.00 E	93.00	5733.55	32.09 S	40.57 E	-32.09	.84
MMS	5827.00	.50	S 34.00 E	93.00	5826.54	32.61 S	41.61 E	-32.61	.92
MMS	5920.00	.50	S 38.00 E	93.00	5919.54	33.27 S	42.09 E	-33.27	.04
MMS	6013.00	.50	S 55.00 E	93.00	6012.53	33.83 S	42.68 E	-33.83	.16
MMS	6106.00	.50	S 53.00 E	93.00	6105.53	34.30 S	43.33 E	-34.30	.02
MMS	6199.00	.50	S 65.00 E	93.00	6198.53	34.72 S	44.03 E	-34.72	.11
MMS	6292.00	.50	S 68.00 E	93.00	6291.52	35.05 S	44.77 E	-35.05	.03
MMS	6385.00	.50	S 67.00 E	93.00	6384.52	35.36 S	45.52 E	-35.36	.01
MMS	6478.00	.50	S 58.00 E	93.00	6477.51	35.73 S	46.24 E	-35.73	.08
MMS	6571.00	.50	S 60.00 E	93.00	6570.51	36.04 S	46.92 E	-36.04	.02
MMS	6664.00	.75	S 62.00 E	93.00	6663.51	36.64 S	47.82 E	-36.64	.27
MMS	6757.00	.50	S 17.00 E	93.00	6756.50	37.40 S	48.45 E	-37.40	.37
MMS	6850.00	.75	S 5.00 E	93.00	6849.49	38.40 S	48.65 E	-38.40	.30
MMS	6943.00	.50	S 83.00 W	93.00	6942.49	39.11 S	48.07 E	-39.11	.95
MMS	7036.00	.75	S 21.00 W	93.00	7035.48	39.70 S	47.31 E	-39.70	.73
MMS	7129.00	.75	S 17.00 W	93.00	7128.48	40.86 S	46.91 E	-40.86	.06
MMS	7222.00	1.00	S 45.00 W	93.00	7221.46	42.06 S	46.19 E	-42.06	.52
MMS	7315.00	1.00	S 40.00 W	93.00	7314.45	43.26 S	45.09 E	-43.26	.09
MMS	7408.00	1.00	S 37.00 W	93.00	7407.44	44.53 S	44.06 E	-44.53	.06
MMS	7501.00	1.00	S 41.00 W	93.00	7500.42	45.79 S	43.06 E	-45.79	.08
MMS	7594.00	1.00	S 40.00 W	93.00	7593.41	47.02 S	42.01 E	-47.02	.02
MMS	7687.00	1.00	S 45.00 W	93.00	7686.39	48.22 S	40.91 E	-48.22	.09
MMS	7780.00	1.25	S 52.00 W	93.00	7779.38	49.43 S	39.54 E	-49.43	.31
MMS	7873.00	1.00	S 44.00 W	93.00	7872.36	50.65 S	38.19 E	-50.65	.32
MMS	7966.00	1.00	S 47.00 W	93.00	7965.34	51.79 S	37.03 E	-51.79	.06
MMS	8059.00	1.00	S 54.00 W	93.00	8058.33	52.82 S	35.78 E	-52.82	.13
MMS	8152.00	1.00	S 44.00 W	93.00	8151.31	53.88 S	34.55 E	-53.88	.15
MMS	8245.00	1.00	S 35.00 W	93.00	8244.30	54.93 S	33.52 E	-54.93	.17
MMS	8338.00	1.00	S 33.00 W	93.00	8337.29	55.98 S	32.51 E	-55.98	.34

Sii DATADRIL
Division of Smith International, Inc.

DELTA DRILLING CO./L.L.C.

LEA COUNTY, NEW MEXICO

HELLER # 1 *L 13-16-37*

TYPE OF SURVEY	MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	DOGLEG SEVERITY (DEG/100')
MMS	8431.00	1.00	S 47.00 W	93.00	8430.27	57.72 S 31.57 E	-57.72	.26
MMS	8524.00	1.25	S 49.00 W	93.00	8523.25	58.94 S 30.22 E	-58.94	.27
MMS	8617.00	1.25	S 47.00 W	93.00	8616.23	60.30 S 28.71 E	-60.30	.05
MMS	8710.00	1.25	S 51.00 W	93.00	8709.21	61.63 S 27.18 E	-61.63	.09
MMS	8803.00	1.25	S 57.00 W	93.00	8802.17	62.92 S 25.54 E	-62.82	.14
MMS	8896.00	1.00	S 53.00 W	93.00	8895.17	63.87 S 24.04 E	-63.87	.28
MMS	8989.00	1.00	S 43.00 W	93.00	8988.16	64.95 S 22.84 E	-64.95	.19
MMS	9082.00	1.00	S 55.00 W	93.00	9081.14	66.01 S 21.62 E	-66.01	.22
MMS	9175.00	.75	S 45.00 W	93.00	9174.13	66.89 S 20.50 E	-66.89	.29
MMS	9268.00	.75	S 52.00 W	93.00	9267.12	67.85 S 19.58 E	-67.85	.04
MMS	9361.00	.50	S 52.00 W	93.00	9360.12	68.21 S 18.71 E	-68.21	.29
MMS	9454.00	.50	S 53.00 W	93.00	9453.11	68.76 S 18.12 E	-68.76	.27
MMS	9547.00	.50	S 14.00 W	93.00	9546.11	69.50 S 17.73 E	-69.50	.18
MMS	9640.00	.50	S 86.00 W	93.00	9639.10	69.99 S 17.68 E	-69.99	.63
MMS	9733.00	.25	S 53.00 E	93.00	9732.10	70.44 S 17.68 E	-70.44	.76
MMS	9826.00	.25	S 53.00 E	93.00	9825.10	70.68 S 17.40 E	-70.68	0.00
MMS	9919.00	.25	S 59.00 E	93.00	9918.10	70.91 S 17.74 E	-70.91	.03
MMS	10012.00	.50	S 32.00 E	93.00	10011.10	71.33 S 18.17 E	-71.33	.32
MMS	10105.00	.50	S 34.00 E	93.00	10104.10	72.01 S 18.61 E	-72.01	.02
MMS	10198.00	.50	S 83.00 W	93.00	10197.09	72.83 S 18.33 E	-72.63	.92
MMS	10291.00	.25	S 5.00 E	93.00	10290.09	73.06 S 17.98 E	-73.06	.59
MMS	10384.00	.50	S 7.00 E	93.00	10383.09	73.66 S 18.08 E	-73.66	.27
MMS	10477.00	.25	S 56.00 E	93.00	10476.09	74.16 S 18.36 E	-74.16	.41
MMS	10570.00	.25	S 67.00 E	93.00	10569.09	74.36 S 18.71 E	-74.36	.05
MMS	10663.00	.50	S 66.00 E	93.00	10662.08	74.60 S 19.27 E	-74.60	.27
MMS	10756.00	.50	S 40.00 E	93.00	10755.08	75.08 S 19.91 E	-75.08	.24
MMS	10849.00	.25	S 25.00 W	93.00	10848.08	75.66 S 19.99 E	-75.66	.49
MMS	10942.00	.50	S 13.00 E	93.00	10941.08	76.25 S 19.93 E	-76.25	.37
MMS	11035.00	.25	S 64.00 E	93.00	11034.07	76.71 S 20.29 E	-76.71	.42
MMS	11128.00	.50	S 44.00 E	93.00	11127.07	77.07 S 20.79 E	-77.07	.30
MMS	11221.00	.50	S 7.00 E	93.00	11220.07	77.76 S 21.10 E	-77.76	.34
MMS	11314.00	.50	S 75.00 W	93.00	11313.07	78.36 S 20.69 E	-78.36	.70
MMS	11407.00	.50	S 75.00 W	93.00	11406.06	78.56 S 19.90 E	-78.56	.00

Sii DATADRIL
Division of Smith International, Inc.

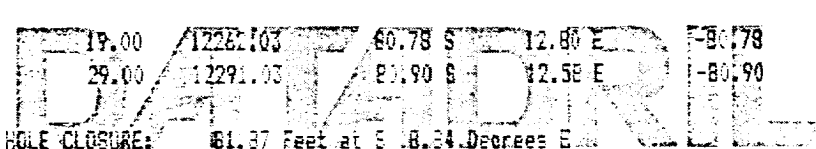
DELTA DRILLING CO./L.L.CE.

LEA COUNTY, NEW MEXICO

HELLER # 1

L 13-16-37

TYPE OF SURVEY	MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	DOGLEG SEVERITY (DEG/100')
MMS	11530.00	.50	S 77.00 W	93.00	11499.06	78.75 S 19.11 E	-78.75	.01
MMS	11593.00	.50	S 80.00 W	93.00	11552.05	78.91 S 18.32 E	-78.91	.03
MMS	11686.00	.50	S 75.00 W	93.00	11685.05	79.09 S 17.52 E	-79.09	.05
MMS	11779.00	.50	S 80.00 W	93.00	11778.05	79.26 S 16.73 E	-79.26	.05
MMS	11872.00	.50	S 89.00 W	93.00	11871.04	79.48 S 15.95 E	-79.48	.10
MMS	11965.00	.50	S 68.00 W	93.00	11964.04	79.78 S 15.20 E	-79.78	.01
MMS	12058.00	.50	S 66.00 W	93.00	12057.04	80.09 S 14.45 E	-80.09	.02
MMS	12151.00	.50	S 68.00 W	93.00	12150.03	80.41 S 13.70 E	-80.41	.02
MMS	12244.00	.50	S 68.00 W	93.00	12243.03	80.71 S 12.95 E	-80.71	0.00
MMS	12263.00	.50	S 62.00 W	19.00	12262.03	80.78 S 12.80 E	-80.78	.28
MMS	12292.00	.50	S 62.00 W	29.00	12291.03	80.90 S 12.58 E	-80.90	0.00


 BOTTOM HOLE CLOSURE: 81.37 Feet at S 18.34 Degrees E

Division of Smith International, Inc.

DELTA DRILLING CO./L.L.&E.
 HELLER # 1 *L* 13-16-37
 LEA COUNTY, NEW MEXICO

8 DEC 1987 @ 8:11



DATADRIL

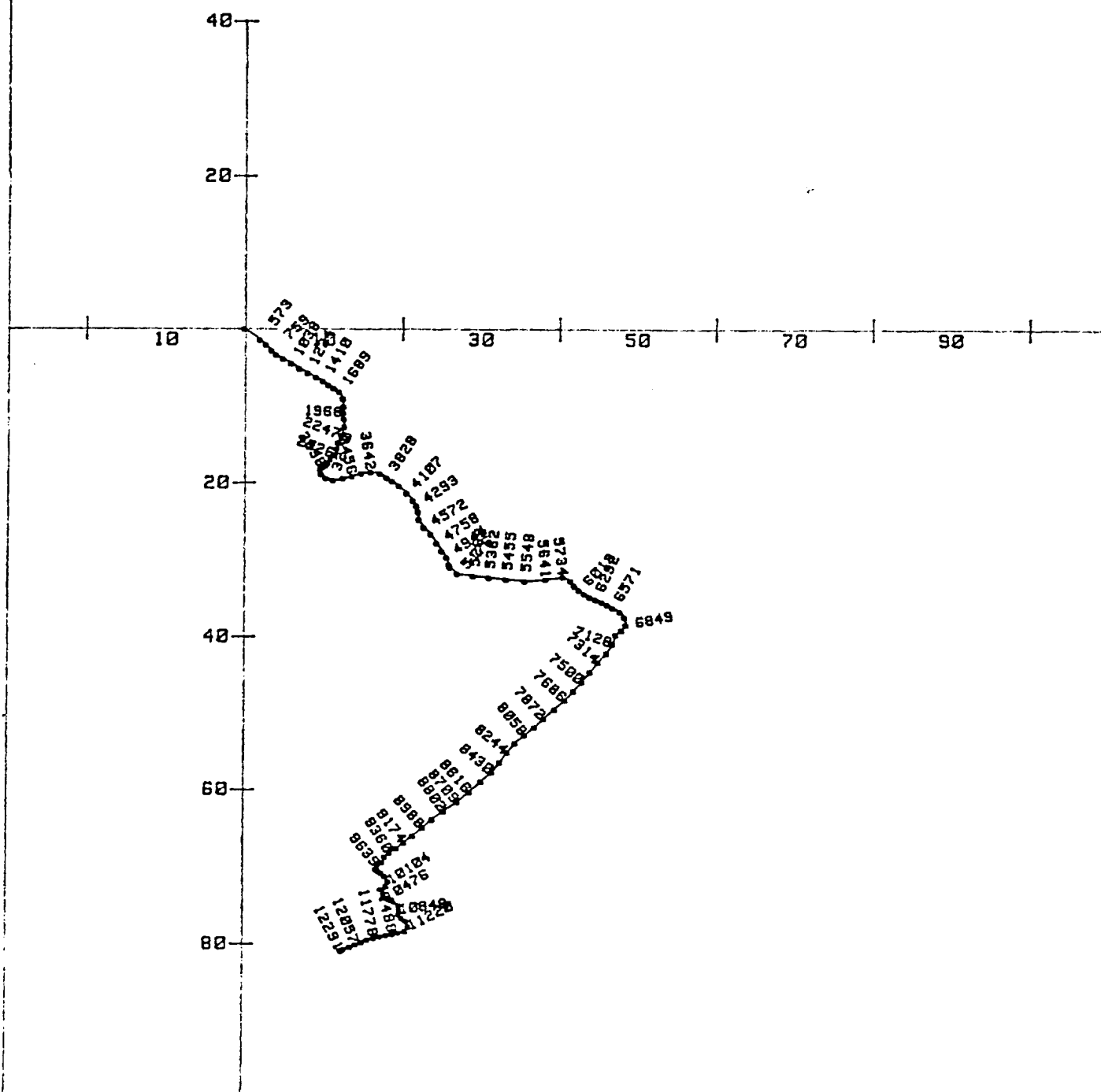
Division of Smith International, Inc.

HORIZONTAL PLOT



SCALE: 20 FEET/INCH

BHL: 82 FEET
 @ S 8.84 E
 TVD: 12291 FEET
 MD: 12292 FEET



DELTA DRILLING CO./L.L.&E.
 HELLER # 1 *L 13-16-37*
 LER COUNTY, NEW MEXICO

8 DEC 1987 @ 8:06

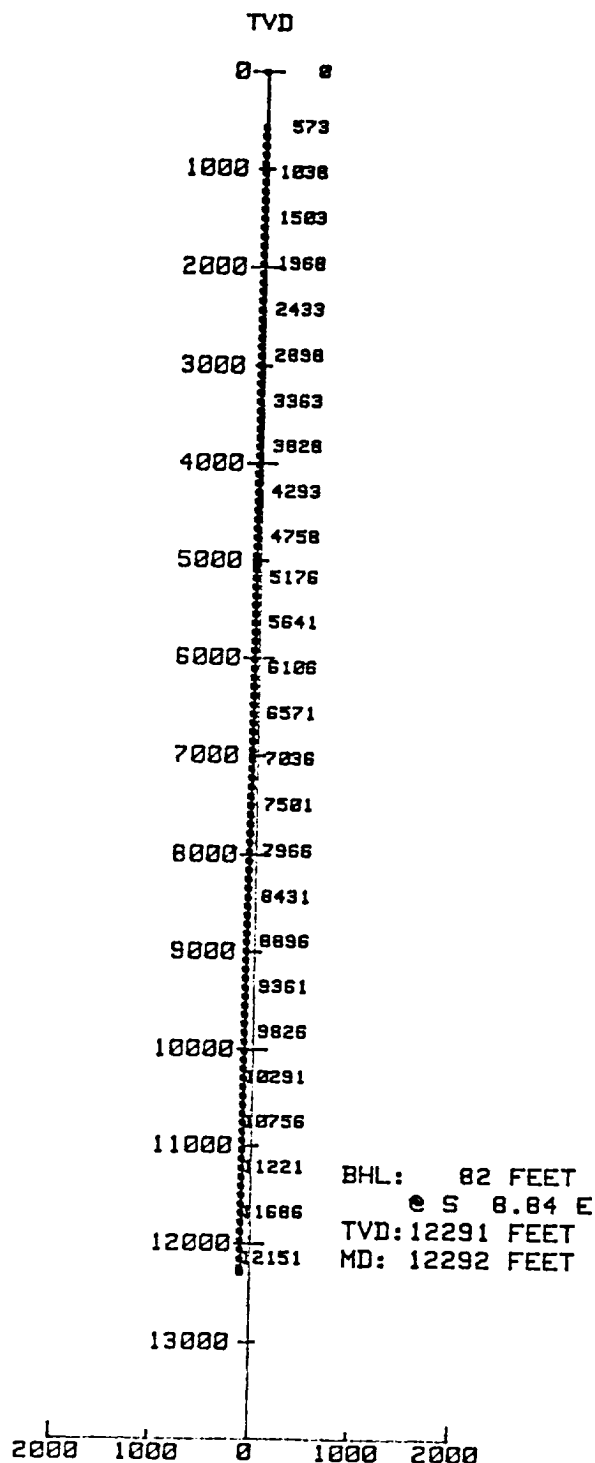


DATADRIL

Division of Smith International, Inc.

VERTICAL PLOT

SCALE: 2000 FEET/INCH



VERTICAL SECTION

SECTION PLANE: N 0.00 E

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.O.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☐ Fee ☒
5. State Oil & Gas Lease No.
Fee Lease

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT - I" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐	7. Unit Agreement Name -----
2. Name of Operator The Louisiana Land and Exploration Company	8. Farm or Lease Name Heller
3. Address of Operator Suite 1200, 2950 North Loop West, Houston, Texas 77092	9. Well No. 1
4. Location of well UNIT LETTER <u>L</u> , <u>1650</u> FEET FROM THE <u>south</u> LINE AND <u>510</u> FEET FROM THE <u>west</u> LINE, SECTION <u>13</u> TOWNSHIP <u>16 S</u> RANGE <u>37 E</u> N.M.P.M.	10. Field and Pool, or Wildcat Wildcat
11. Elevation (Show whether DF, RT, GR, etc.) 3771.3 GR	12. County Lea

10. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☒	OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Drill well to 500 feet with 17½" bit. Ran 500 feet of 13-3/8", 61 #/ft, K-55, LT&C casing. Cemented casing with 575 sacks of class 'C' cement plus 2% CaCl₂ and circulated 60 sacks of cement to surface. Bumped cement plug at 4:30 P.M. on 11/28/86. Tested casing to 1500 psi. Started drilling out float equipment at 11:30 P.M. on 11/29/86.

Drilled well to 5100 feet with 11" bit. Ran 5100 feet of 8-5/8", 32 #/ft, K-55, ST&C casing. Cemented casing with 2420 sacks lite cement followed with 200 sacks of class 'C' cement. Circulated 90 bbls (approximately 760 sacks) of cement to surface. Bumped cement plug at 10:30 A.M. on 12/10/86. Tested casing to 1500 psi. Started drilling out float equipment at 6:30 A.M. on 12/11/86.

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

SIGNED J. A. Coughlin TITLE Senior Engineer DATE 2/2/87

ORIGINAL SIGNED BY JERRY SEXTON
APPROVED BY DISTRICT 1 SUPERVISOR TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

FEB 5 1987

RECEIVED
FEB 4 1987
OCD
HOBBS OFFICE

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

30 025-29788

Form C-101
Revised 10-1-78

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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease	
STATE ☐	FEE ☒
5. State Oil & Gas Lease No.	
Fee Lease	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work			7. Unit Agreement Name		
b. Type of Well DRILL ☒ DEEPEN ☐ PLUG BACK ☐ OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐			8. Farm or Lease Name Heller		
2. Name of Operator The Louisiana Land and Exploration Company			9. Well No. 1		
3. Address of Operator Suite 1200, 2950 North Loop West, Houston, Texas 77092			10. Field and Pool, or Wildcat Wildcat		
4. Location of Well UNIT LETTER <u>L</u> LOCATED <u>1650</u> FEET FROM THE <u>south</u> LINE AND <u>510</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>13</u> TWP. <u>16S</u> RGE. <u>37E</u> NMPM			12. County Lea		
19. Proposed Depth 13,000			19A. Formation Strawn		20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 3771.3 GR		21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor Unknown		22. Approx. Date Work will start November 11, 1986

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
26	20"	94#	50'	75	Surface
17-1/2	13-3/8"	61#	500'	525	Surface
11	8-5/8"	32#	5100'	2200	Surface
7-7/8	5-1/2"	17#	13000'	700	9000

Blowout preventers to be adequate for depth and area.
Completion to be conventional perforation and treatment.
Gas acreage has not been committed to contract.

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed S. A. Craighead Title Senior Petroleum Engineer Date October 30, 1986

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT SUPERVISOR TITLE DATE NOV 14 1986

CONDITIONS OF APPROVAL, IF ANY:

NOV 3 1986
FBI
RECORDS OFFICE