

#2

TABULATION OF DEVIATION TESTS

TENNECO OIL COMPANY E&P

DEPTH INCLINATION

DEPTH INCLINATION

Please see attached survey.

10-29N-13W

RECEIVED
FEB 17 1987
OIL CON. DIV.
DIST. 3

AFFIDAVIT

This is to certify that to the best of my knowledge, the above tabulation details the the deviation test taken on Tenneco Oil Company's well: City of Farmington #2

Signed: Donald Barnes

Agent for Tenneco Oil Company

THE STATE OF COLORADO)
CITY AND COUNTY OF DENVER)

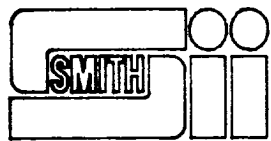
Before me, the undersigned authority, on this day, personally appeared, Donald S. Barnes, known to me to be an Agent for Tenneco Oil Company, and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein, and that said statement is true and correct. Subscribed and sworn to before me, a Notary Public in and for said County and state, this 13th day of February, 19 87.

My Commission Expires:

July 24, 1988

Allen K King
Notary Public

0024u



DATA DRIL

Division of Smith International, Inc.

REPORT of FINAL WELLBORE SURVEY

RECEIVED

FEB 17 1987

OIL CON. DIV.)
DIST. 3

TENNECO OIL COMPANY
CITY OF FARMINGTON #2
SEC 10-T29N-R13W
SAN JUAN COUNTY, NEW MEXICO

Sii DATADRIL
Division of Smith International, Inc.

TENNECO OIL COMPANY
CITY OF FARMINGTON #2
SEC 10-T29N-R13W
SAN JUAN COUNTY, NEW MEXICO
DIRECTIONAL SURVEYS

RECEIVED
FEB 17 1987
OIL CON. DIV.
DIST. 3

File Name: COF2MSS

***** RECORD OF SURVEY *****

Calculated by Sii DATADRIL's C.A.D.D.S. System

Radius of Curvature Method
All Angles are Decimal
Vertical Section Plane: S 74.77 W

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)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG 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 N 0.00 E	0.00	
743.00	1.25	S 40.00 W	743.00	742.94	6.21 S	5.21 W	6.66	8.10 S 40.00 W	.17	
819.00	3.00	S 50.00 W	76.00	818.89	8.20 S	7.20 W	9.10	10.91 S 41.29 W	2.35	
881.00	5.00	S 63.00 W	62.00	880.73	10.58 S	10.80 W	13.20	15.12 S 45.58 W	3.52	
975.00	8.00	S 70.00 W	94.00	974.12	14.82 S	20.55 W	23.72	25.34 S 54.20 W	3.30	
1070.00	10.00	S 78.00 W	95.00	1067.94	18.91 S	34.82 W	38.57	39.63 S 61.49 W	2.48	
1130.00	11.50	S 78.00 W	60.00	1126.89	21.24 S	45.77 W	49.74	50.46 S 65.11 W	2.50	
1161.00	11.75	S 78.00 W	31.00	1157.25	22.54 S	51.88 W	55.98	56.56 S 66.52 W	.81	
1224.00	13.00	S 78.00 W	63.00	1218.79	25.35 S	65.09 W	69.46	69.85 S 68.72 W	1.98	
1286.00	15.00	S 80.00 W	62.00	1278.94	28.21 S	79.81 W	84.41	84.65 S 70.53 W	3.32	
1340.00	16.50	S 76.00 W	54.00	1330.91	31.25 S	94.14 W	99.05	99.19 S 71.63 W	3.43	
1381.00	16.75	S 73.00 W	41.00	1370.20	34.39 S	105.44 W	110.77	110.91 S 71.94 W	2.18	
1473.00	17.50	S 66.00 W	92.00	1458.12	43.87 S	130.80 W	137.73	137.96 S 71.46 W	2.38	
1564.00	19.00	S 64.00 W	91.00	1544.54	55.91 S	156.63 W	165.82	166.31 S 70.35 W	1.79	
1688.00	21.00	S 62.00 W	124.00	1661.06	75.16 S	194.41 W	207.33	208.44 S 68.86 W	1.70	
1782.00	22.00	S 63.00 W	94.00	1748.51	91.07 S	224.97 W	240.99	242.71 S 67.96 W	1.13	
1882.00	23.50	S 62.00 W	100.00	1840.73	108.93 S	259.27 W	278.78	281.22 S 67.21 W	1.55	
1977.00	24.50	S 63.00 W	95.00	1927.52	126.77 S	293.54 W	316.54	319.75 S 66.64 W	1.14	
2100.00	25.00	S 63.00 W	123.00	2039.22	150.15 S	339.43 W	366.95	371.15 S 66.14 W	.41	
2287.00	25.00	S 64.00 W	187.00	2208.70	185.41 S	410.15 W	444.45	450.11 S 65.67 W	.23	
2474.00	25.50	S 64.00 W	187.00	2377.83	220.38 S	481.85 W	522.82	529.85 S 65.42 W	.27	

Sii DATADRIL
Division of Smith International, Inc.

TENNECO OIL COMPANY
CITY OF FARMINGTON #2

SEC 10-T29N-R13W
SAN JUAN COUNTY, NEW MEXICO

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)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DEG/100')
2727.00	29.00	S 64.00 W	253.00	2602.72	271.15 S	585.95 W	636.60	645.65	S 65.17 W	1.38
2814.00	26.50	S 62.00 W	87.00	2679.70	289.54 S	622.04 W	676.25	686.12	S 65.04 W	3.07
2877.00	24.50	S 63.00 W	63.00	2736.56	302.06 S	646.09 W	702.75	713.22	S 64.94 W	3.25
2975.00	23.75	S 59.00 W	98.00	2826.00	321.48 S	681.12 W	741.65	753.17	S 64.73 W	1.84
3100.00	24.00	S 62.00 W	125.00	2940.31	346.39 S	725.15 W	790.67	803.63	S 64.47 W	.99
3288.00	25.50	S 60.00 W	188.00	3111.03	384.54 S	793.98 W	867.11	882.20	S 64.16 W	.91
3478.00	27.00	S 62.00 W	190.00	3281.44	425.28 S	867.48 W	948.73	966.11	S 63.88 W	.92
3663.00	27.75	S 63.00 W	185.00	3445.72	464.56 S	942.93 W	1031.85	1051.16	S 63.77 W	.48
3908.00	28.00	S 65.00 W	245.00	3662.29	514.77 S	1045.88 W	1144.37	1165.70	S 63.79 W	.40
4161.00	29.00	S 64.00 W	253.00	3884.63	566.74 S	1154.84 W	1263.16	1286.41	S 63.86 W	.44
4286.00	29.00	S 65.00 W	125.00	3993.95	592.83 S	1209.53 W	1322.79	1347.00	S 63.89 W	.39
4338.00	28.50	S 68.00 W	52.00	4039.54	602.80 S	1232.47 W	1347.53	1371.99	S 63.94 W	2.94
4403.00	26.00	S 74.00 W	65.00	4097.33	612.45 S	1260.59 W	1377.22	1401.51	S 64.09 W	5.71
4465.00	24.75	S 84.00 W	62.00	4153.34	617.55 S	1286.64 W	1403.68	1427.17	S 64.36 W	7.19
4573.00	22.25	N 90.00 W	108.00	4252.38	619.80 S	1329.62 W	1445.74	1466.99	S 65.01 W	3.20
4667.00	20.25	N 88.00 W	94.00	4339.98	619.21 S	1363.68 W	1478.45	1497.68	S 65.58 W	2.26
4759.00	16.75	N 85.00 W	92.00	4427.21	617.47 S	1392.81 W	1506.09	1523.53	S 66.09 W	3.94
4854.00	14.00	N 83.00 W	95.00	4518.81	614.79 S	1417.86 W	1529.57	1545.41	S 66.56 W	2.95
4885.00	12.75	N 81.00 W	31.00	4548.96	615.80 S	1424.96 W	1536.16	1551.53	S 66.70 W	4.30
4944.00	11.25	N 77.00 W	59.00	4606.67	611.46 S	1437.00 W	1547.16	1561.68	S 66.95 W	2.91
5005.00	11.75	N 74.00 W	61.00	4666.45	608.41 S	1448.77 W	1557.72	1571.34	S 67.22 W	1.28
5068.00	12.00	N 73.00 W	63.00	4728.10	604.73 S	1461.20 W	1568.74	1581.39	S 67.52 W	.51
5131.00	12.25	N 71.00 W	63.00	4789.69	600.64 S	1473.79 W	1579.91	1591.48	S 67.83 W	.78
5195.00	12.50	N 74.00 W	64.00	4852.21	596.52 S	1486.87 W	1591.35	1602.06	S 68.14 W	1.08
5255.00	12.25	N 75.00 W	60.00	4910.81	593.08 S	1499.26 W	1602.40	1612.30	S 68.42 W	.55
5321.00	13.00	N 75.00 W	66.00	4975.22	589.35 S	1513.17 W	1614.86	1623.91	S 68.72 W	1.14
5384.00	11.75	N 75.00 W	63.00	5036.75	585.85 S	1526.23 W	1626.53	1634.81	S 69.00 W	1.98
5447.00	11.00	N 72.00 W	63.00	5098.51	582.32 S	1538.14 W	1637.10	1644.68	S 69.26 W	1.52
5527.00	11.50	N 77.00 W	80.00	5176.98	578.15 S	1553.18 W	1650.51	1657.29	S 69.58 W	1.37
5559.00	11.50	N 77.00 W	32.00	5208.33	576.72 S	1559.37 W	1656.13	1662.62	S 69.70 W	0.00
5596.00	13.00	N 73.00 W	37.00	5244.49	574.69 S	1566.98 W	1662.91	1669.04	S 69.86 W	4.66
5630.00	14.00	N 73.00 W	34.00	5277.55	572.37 S	1574.57 W	1669.62	1675.37	S 70.02 W	2.94
5691.00	15.00	N 68.00 W	61.00	5336.61	567.27 S	1588.96 W	1682.17	1687.18	S 70.35 W	2.63

Sii DATADRIL
Division of Smith International, Inc.

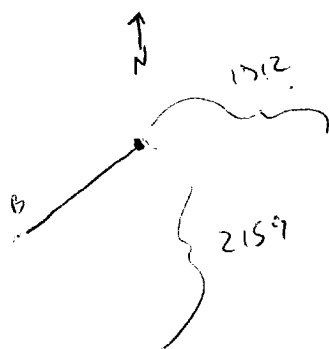
TENNECO OIL COMPANY
CITY OF FARMINGTON #2

SEC 10-T29N-R13W
SAN JUAN COUNTY, NEW MEXICO

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)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DEG/100')
5708.00	15.00	N 68.00 W	17.00	5353.03	565.62 S	1593.04 W	1685.68	1690.47	S 70.45 W	0.00
5752.00	14.25	N 60.00 W	44.00	5395.60	560.76 S	1603.02 W	1694.02	1698.27	S 70.72 W	4.89
5783.00	14.25	N 63.00 W	31.00	5425.65	557.12 S	1609.72 W	1699.54	1703.40	S 70.91 W	2.38
5800.00	15.00	N 63.00 W	17.00	5442.10	555.17 S	1613.55 W	1702.72	1706.38	S 71.01 W	4.41
5841.00	16.00	N 64.00 W	41.00	5481.61	550.28 S	1623.35 W	1710.89	1714.08	S 71.27 W	2.52
5905.00	16.75	N 63.00 W	64.00	5543.01	542.23 S	1639.50 W	1724.36	1726.84	S 71.70 W	1.25
5968.00	17.00	N 62.00 W	63.00	5603.30	533.78 S	1655.72 W	1737.79	1739.63	S 72.13 W	.61
6067.00	19.00	N 61.00 W	99.00	5697.45	519.19 S	1682.60 W	1759.90	1760.88	S 72.85 W	2.04
6163.00	20.00	N 60.00 W	96.00	5787.94	503.41 S	1710.49 W	1782.66	1783.03	S 73.60 W	1.10
6253.00	20.00	N 59.00 W	90.00	5872.51	487.78 S	1737.01 W	1804.15	1804.20	S 74.31 W	.38

BOTTOM HOLE CLOSURE: 1804.20 Feet at S 74.31 Degrees W

Bottom hole closure 1804.20



1736
1712 + ~~488~~
488
2159 - ~~1736~~

Sii DATADRIL
Division of Smith International, Inc.

TENNECO OIL COMPANY
CITY OF FARMINGTON #2
SEC 10-T29N-R13W
SAN JUAN COUNTY, NEW MEXICO
DIRECTIONAL SURVEYS

File Name: COF2MSS

***** INTERPOLATED/EXTRAPOLATED SURVEY *****

Calculated by Sii Datadril's C.A.D.S. System

All Angles are Decimal
Vertical Section Plane: S 74.77 W

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TRUE VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	DIRECTION (DEG)	DOGLEG SEVERITY (DEG/100')
6162.00	19.99	N 60.01 W	0.00	5787.00	503.57 S 1710.20 W	1782.42	1782.80	S 73.59 W	0.00
6270.00	20.00	N 59.00 W	108.00	5888.49	484.79 S 1742.00 W	1808.17	1808.20	S 74.45 W	.32

***** THE ABOVE STATIONS ARE INTERPOLATED/EXTRAPOLATED DATA ONLY *****

8 JAN 1987 @ 10:51

TENNECO OIL COMPANY
CITY OF FARMINGTON #2
SEC 10-T29N-R13W
SAN JUAN COUNTY, NEW MEXICO

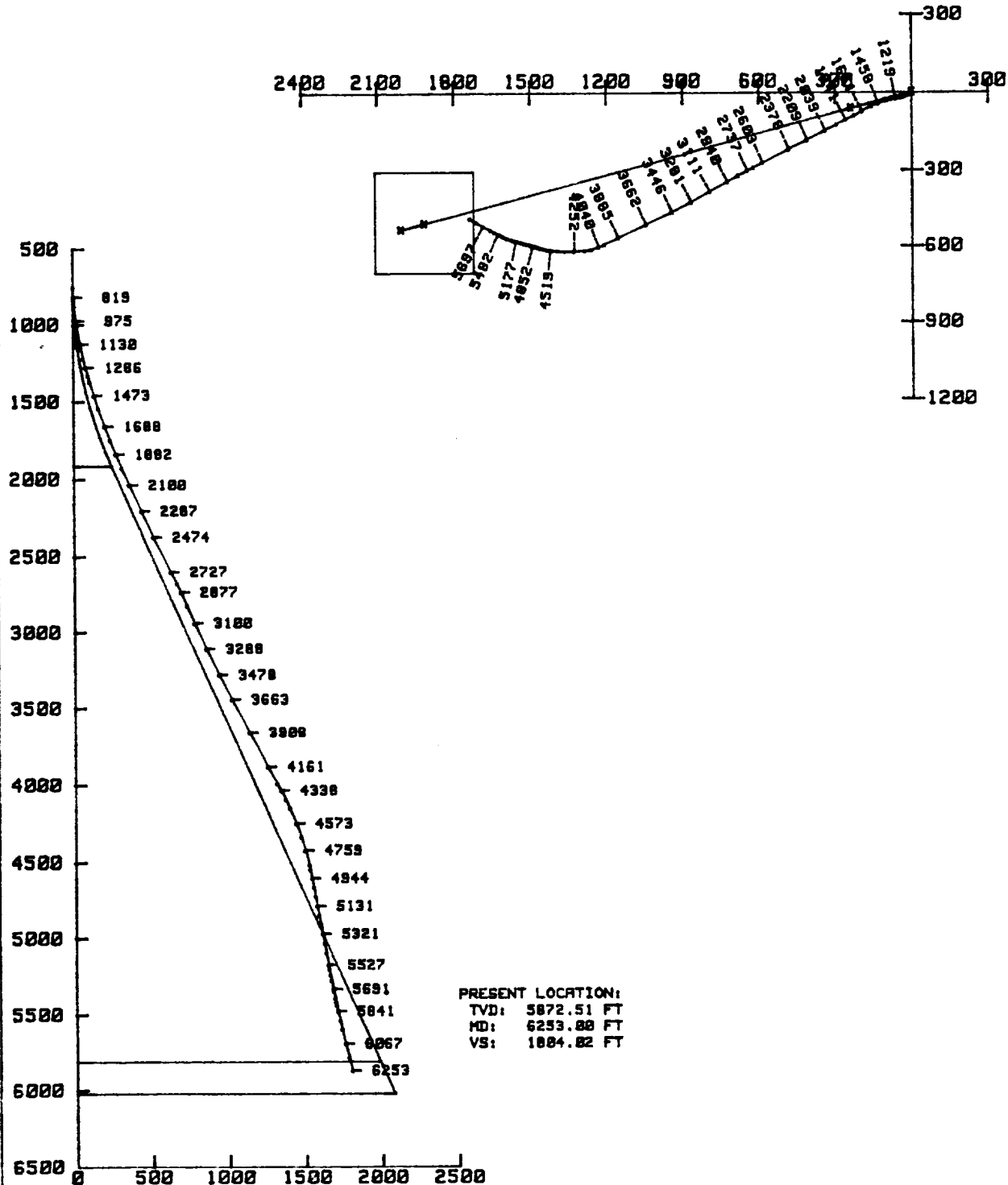


DATADRILL

Division of Smith International, Inc.

VERTICAL PLANE
SCALE: 500 FEET/DIVISION

HORIZONTAL PLANE
SCALE: 300 FEET/DIVISION



PRESENT LOCATION:
TVD: 5872.51 FT
MD: 6253.88 FT
VS: 1884.82 FT

VERTICAL SECTION PLANE: S 75.14 W

TENNECO OIL COMPANY
 CITY OF FARMINGTON #2
 SEC 10-T29N-R13W
 SAN JUAN COUNTY, NEW MEXICO

8 JAN 1987 @ 11:25



DATADRIL

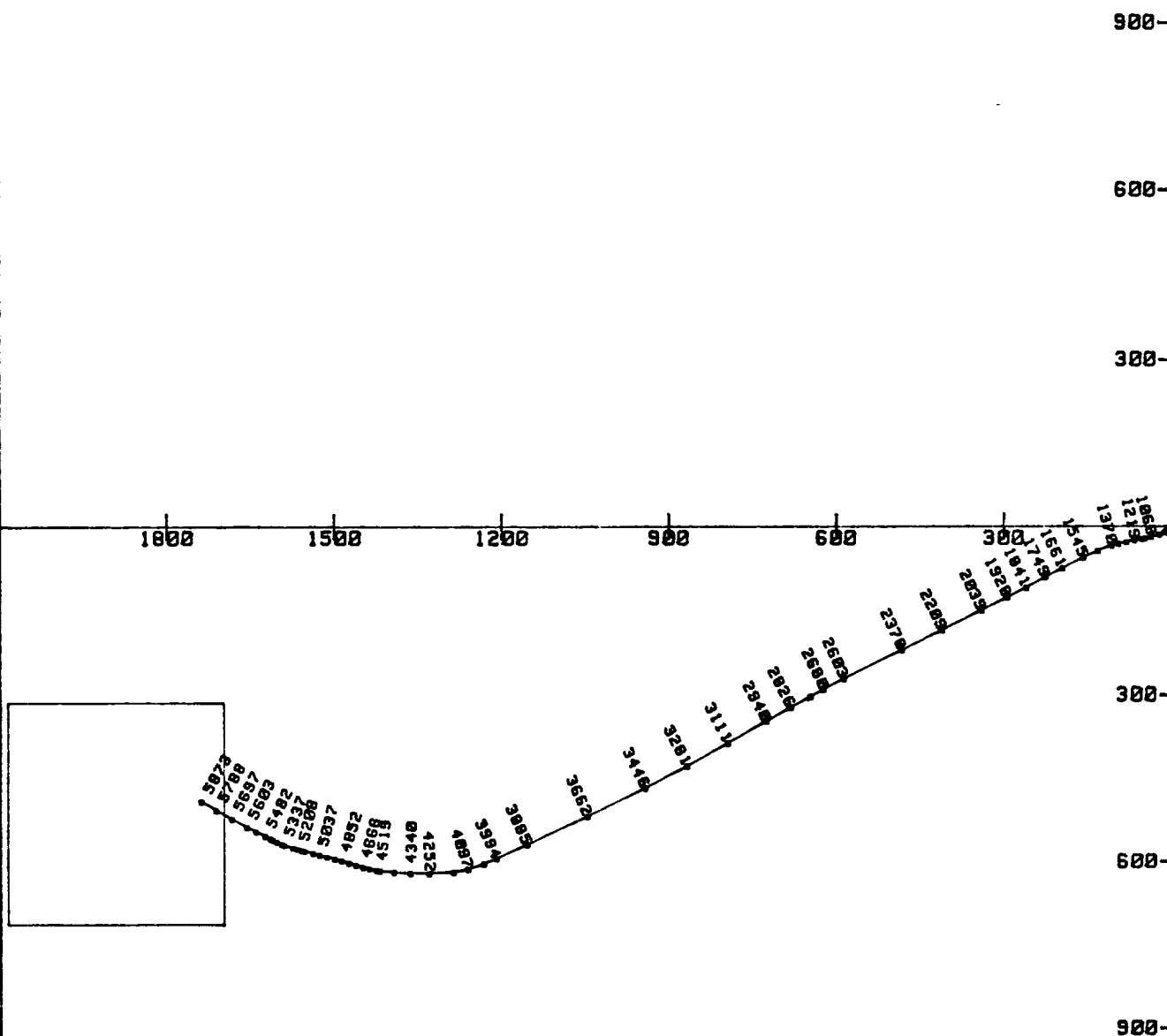
Division of Smith International, Inc.

HORIZONTAL PLOT



SCALE: 300 FEET/INCH

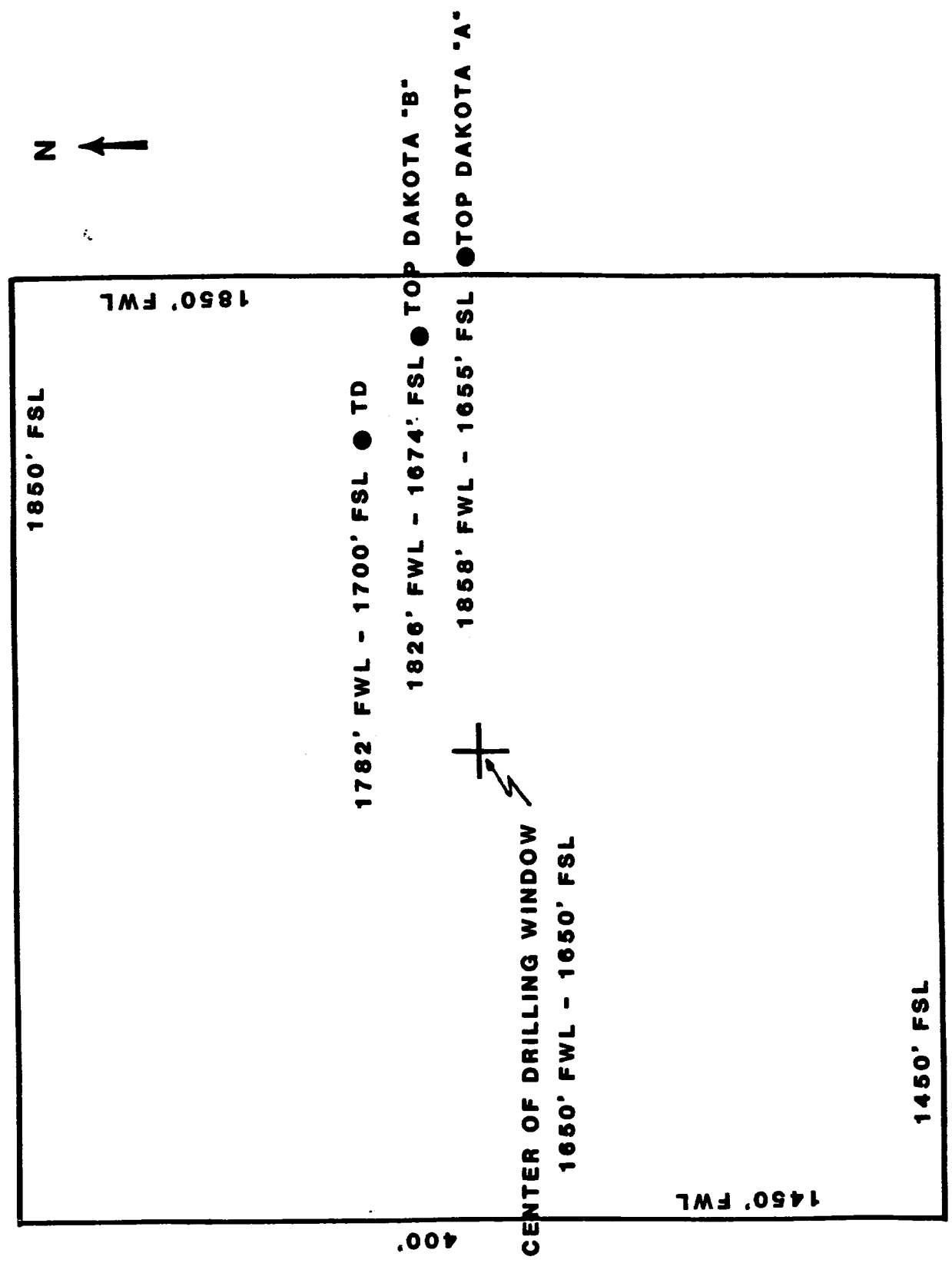
BHL: 1804 FEET
 @ S 74.31 W
 TVD: 5873 FEET
 MD: 6253 FEET



TENNECO OIL COMPANY

City of Farmington #2

Plan View - Bottom Hole Locations



TENNECO OIL COMPANY

CITY OF FARMINGTON #2

FORMATION TOPS

