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An Operating Unit of Smith International, Inc.

HOBBS OCD

MAY 02 2011

RECEIVED

DIRECTIONAL SURVEY REPORT

30-025-39716

YATES PETROLEUM
RED RAIDER BKS STATE #2H – ST1
LEA COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder Energy Services, Inc.
6213 W. Interstate 20 • Midland, TX • 79706
(432) 681-6000

Pathfinder

6213 W. Interstate 20
Midland, Texas. 79706
Tel. 432.687.1647
Fax 432.687.1544

HOBBS OCD

MAY 02 2011

PATHFINDER
A Schlumberger Company

DIRECTIONAL SURVEY COMPANY REPORT: **RECEIVED**

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) DAVID PHILLIPS
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 01-08-11 TO 02-01-11
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM
RED RAIDER BKS STATE #2H – ST1
LEA COUNTY, NM
RIG: LATSHAW #3
9. SURVEY CERTIFIED FROM: 8980 TO 13802 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4618.08 FEET ON A BEARING OF 179.39 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 13879 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


FRANCISCO SINISTERRA
MWD COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 01/08/2011
Date Completed: 01/31/2011

YATES PETROLEUM CORPORATION
RED RAIDER "BKS" STATE #2H ST1
LEA COUNTY, NM
Rig:LATSHAW #3
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:D.PHILLIPS
C.ALEX
P.DAS

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.11.41.7172 N LON:103.31.28.3665 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 791523.6080 Y: 435587.6890
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.18° EAST TO GRID
Vertical Section Plane: 179.57
Survey Vert. Reference: 18.00' Kelly Bushing To Ground
Altitude:3566.00' Ground To MSL

Measured Depth	13879.00	(feet)
Inclination	90.40	(deg)
Azimuth	181.88	(deg)
True Vertical Depth	9454.66	(feet)
Vertical Section	4618.06	(feet)
Survey X cord	791572.98	(feet)
Survey Y cord	430969.87	(feet)
Survey Lat	32.18222768 N	(deg)
Survey Lon	103.52449893 W	(deg)
Rectangular Corr. N/S	4617.82 S	(feet)
Rectangular Corr. E/W	49.37 E	(feet)
Closure Distance	4618.08	(feet)
Direction of Closure	179.39	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION

RED RAIDER "BKS" STATE #2H ST1

LEA COUNTY, NM

Rig:LATSHAW #3

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: D.PHILLIPS

C.ALEX

P.DAS

Survey Calculations by RX5 V6.03C using Minimum Curvature

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.11.41.7172 N LON:103.31.28.3665 W

GRID Reference:NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 791523.6080 Y: 435587.6890

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.18° EAST TO GRID

Vertical Section Plane: 179.57

Survey Vert. Reference: 18.00' Kelly Bushing To Ground

Altitude:3566.00' Ground To MSL

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Closure		DLS
						Rectangular	Offsets	Dist	Dir	
						(ft)	(ft)	(ft)	(deg)	
TIED INTO MS ENERGY SERVICES SURVEYS AT 8890' MD.										
8890.00	1.00	119.43	8888.67	0.00	-36.70	37.19 N	65.77 E	75.56@	60.51	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
8980.00	3.17	171.71	8978.61	90.00	-33.84	34.34 N	66.81 E	75.12@	62.80	2.98
9012.00	8.09	181.17	9010.45	32.00	-30.71	31.21 N	66.89 E	73.82@	64.99	15.60
9043.00	13.10	183.99	9040.91	31.00	-25.02	25.52 N	66.61 E	71.33@	69.03	16.24
9074.00	18.38	183.92	9070.74	31.00	-16.64	17.14 N	66.03 E	68.21@	75.45	17.03
9106.00	23.13	183.49	9100.65	32.00	-5.33	5.82 N	65.30 E	65.56@	84.90	14.85
9136.00	26.82	182.26	9127.84	30.00	7.31	6.82 S	64.67 E	65.03@	96.02	12.42
9167.00	29.02	180.79	9155.23	31.00	21.82	21.33 S	64.29 E	67.74@	108.36	7.44
9199.00	31.66	178.93	9182.85	32.00	37.98	37.49 S	64.34 E	74.47@	120.23	8.76
9230.00	34.56	178.71	9208.81	31.00	54.91	54.42 S	64.69 E	84.54@	130.07	9.36
9260.00	37.64	179.49	9233.05	30.00	72.58	72.09 S	64.97 E	97.05@	137.98	10.38
9292.00	40.19	180.55	9257.94	32.00	92.68	92.19 S	64.95 E	112.78@	144.83	8.24
9323.00	43.09	181.75	9281.11	31.00	113.26	112.78 S	64.53 E	129.94@	150.22	9.70
9354.00	45.90	182.70	9303.22	31.00	134.96	134.49 S	63.69 E	148.81@	154.66	9.32
9385.00	48.45	182.50	9324.29	31.00	157.67	157.20 S	62.66 E	169.23@	158.27	8.24
9417.00	51.97	181.16	9344.77	32.00	182.23	181.77 S	61.88 E	192.02@	161.20	11.46
9447.00	55.57	180.18	9362.50	30.00	206.42	205.97 S	61.60 E	214.98@	163.35	12.29
9479.00	59.27	179.12	9379.73	32.00	233.38	232.93 S	61.77 E	240.98@	165.15	11.89
9509.00	62.70	178.91	9394.27	30.00	259.61	259.15 S	62.22 E	266.52@	166.50	11.45
9541.00	66.39	179.42	9408.02	32.00	288.50	288.04 S	62.64 E	294.77@	167.73	11.62
9572.00	69.29	179.93	9419.72	31.00	317.21	316.74 S	62.80 E	322.91@	168.79	9.48
9603.00	72.19	180.45	9429.94	31.00	346.47	346.01 S	62.70 E	351.64@	169.73	9.49
9638.00	75.45	181.18	9439.69	35.00	380.07	379.61 S	62.22 E	384.68@	170.69	9.53
9669.00	77.73	181.64	9446.88	31.00	410.20	409.75 S	61.48 E	414.34@	171.47	7.50

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
RED RAIDER "BKS" STATE #2H ST1
LEA COUNTY, NM
RIG: LATSHAW #3

Page 02/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
9701.00	80.90	181.31	9452.81	32.00	441.63	441.19 S	60.67 E	445.34@	172.17	9.96
SIDETRACKED ORIGINAL WELLBORE AT 9731' MD (9457.04' TVD)										
9731.00	82.92	180.11	9457.04	30.00	471.32	470.88 S	60.31 E	474.73@	172.70	7.81
9763.00	83.01	178.47	9460.96	32.00	503.08	502.64 S	60.70 E	506.29@	173.11	5.09
9794.00	85.03	178.72	9464.19	31.00	533.90	533.46 S	61.46 E	536.99@	173.43	6.56
9825.00	88.55	180.26	9465.92	31.00	564.85	564.40 S	61.73 E	567.77@	173.76	12.39
9856.00	89.87	181.14	9466.35	31.00	595.84	595.40 S	61.35 E	598.55@	174.12	5.12
9919.00	89.87	180.59	9466.49	63.00	658.82	658.39 S	60.40 E	661.15@	174.76	0.87
10011.00	89.34	179.09	9467.13	92.00	750.82	750.38 S	60.66 E	752.83@	175.38	1.73
10105.00	89.87	179.01	9467.77	94.00	844.81	844.37 S	62.22 E	846.66@	175.79	0.57
10199.00	90.22	179.01	9467.70	94.00	938.81	938.35 S	63.84 E	940.52@	176.11	0.37
10293.00	91.98	179.97	9465.90	94.00	1032.78	1032.33 S	64.68 E	1034.35@	176.42	2.13
10387.00	90.66	180.15	9463.73	94.00	1126.75	1126.30 S	64.58 E	1128.15@	176.72	1.42
10480.00	89.16	180.32	9463.88	93.00	1219.74	1219.30 S	64.20 E	1220.99@	176.99	1.62
10573.00	89.60	179.45	9464.88	93.00	1312.74	1312.29 S	64.38 E	1313.87@	177.19	1.05
10665.00	89.69	178.89	9465.45	92.00	1404.73	1404.28 S	65.72 E	1405.82@	177.32	0.62
10758.00	90.31	178.98	9465.45	93.00	1497.73	1497.26 S	67.44 E	1498.78@	177.42	0.67
10851.00	90.48	179.32	9464.81	93.00	1590.72	1590.25 S	68.82 E	1591.74@	177.52	0.41
10943.00	89.60	180.98	9464.75	92.00	1682.71	1682.24 S	68.58 E	1683.64@	177.67	2.04
11036.00	90.04	180.69	9465.04	93.00	1775.69	1775.23 S	67.23 E	1776.51@	177.83	0.57
11129.00	90.66	180.39	9464.47	93.00	1868.67	1868.23 S	66.35 E	1869.41@	177.97	0.74
11223.00	89.52	181.04	9464.32	94.00	1962.65	1962.22 S	65.18 E	1963.30@	178.10	1.40
11316.00	89.69	180.98	9464.96	93.00	2055.62	2055.20 S	63.54 E	2056.18@	178.23	0.19
11410.00	90.13	180.90	9465.11	94.00	2149.59	2149.19 S	62.00 E	2150.08@	178.35	0.48
11502.00	90.48	180.66	9464.62	92.00	2241.57	2241.18 S	60.74 E	2242.00@	178.45	0.46
11596.00	90.40	179.75	9463.90	94.00	2335.56	2335.17 S	60.41 E	2335.96@	178.52	0.97
11690.00	89.96	180.33	9463.61	94.00	2429.56	2429.17 S	60.34 E	2429.92@	178.58	0.77
11781.00	90.22	179.62	9463.46	91.00	2520.55	2520.17 S	60.38 E	2520.90@	178.63	0.83

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
RED RAIDER "BKS" STATE #2H ST1
LEA COUNTY, NM
RIG:LATSHAW #3

Page 03/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir		DLS (dg/100ft)
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(dg/100ft)
11875.00	89.60	180.56	9463.61	94.00	2614.55	2614.17 S	60.23 E	2614.86@	178.68	1.20
11968.00	89.87	180.61	9464.04	93.00	2707.53	2707.16 S	59.29 E	2707.81@	178.75	0.30
12061.00	90.13	180.12	9464.04	93.00	2800.52	2800.16 S	58.69 E	2800.78@	178.80	0.60
12154.00	90.22	179.86	9463.76	93.00	2893.52	2893.16 S	58.71 E	2893.76@	178.84	0.30
12247.00	90.40	179.58	9463.25	93.00	2986.52	2986.16 S	59.16 E	2986.75@	178.86	0.36
12341.00	89.78	180.31	9463.11	94.00	3080.52	3080.16 S	59.25 E	3080.73@	178.90	1.02
12435.00	89.78	179.97	9463.47	94.00	3174.51	3174.16 S	59.02 E	3174.71@	178.93	0.36
12527.00	89.87	179.83	9463.75	92.00	3266.51	3266.16 S	59.18 E	3266.69@	178.96	0.18
12619.00	90.84	179.19	9463.18	92.00	3358.51	3358.15 S	59.97 E	3358.69@	178.98	1.26
12712.00	90.40	178.99	9462.17	93.00	3451.50	3451.13 S	61.45 E	3451.68@	178.98	0.52
12805.00	89.78	179.53	9462.03	93.00	3544.49	3544.12 S	62.65 E	3544.68@	178.99	0.88
12897.00	90.40	179.28	9461.88	92.00	3636.49	3636.12 S	63.60 E	3636.67@	179.00	0.73
12957.00	90.40	179.47	9461.46	60.00	3696.49	3696.11 S	64.26 E	3696.67@	179.00	0.32
13050.00	90.48	179.66	9460.75	93.00	3789.49	3789.11 S	64.97 E	3789.66@	179.02	0.22
13144.00	91.10	179.66	9459.45	94.00	3883.48	3883.10 S	65.52 E	3883.65@	179.03	0.66
13238.00	90.84	180.60	9457.86	94.00	3977.46	3977.08 S	65.31 E	3977.62@	179.06	1.04
13332.00	90.13	180.74	9457.06	94.00	4071.44	4071.07 S	64.21 E	4071.58@	179.10	0.77
13426.00	90.48	180.46	9456.56	94.00	4165.42	4165.06 S	63.23 E	4165.54@	179.13	0.48
13521.00	90.66	180.94	9455.62	95.00	4260.40	4260.05 S	62.07 E	4260.50@	179.17	0.54
13615.00	89.69	182.47	9455.33	94.00	4354.33	4354.01 S	59.27 E	4354.41@	179.22	1.93
13710.00	90.04	182.34	9455.56	95.00	4449.21	4448.92 S	55.28 E	4449.27@	179.29	0.39
13802.00	90.40	181.88	9455.20	92.00	4541.12	4540.86 S	51.90 E	4541.16@	179.35	0.64
STRAIGHT LINE PROJECTION TO BIT AT 13879'MD.										
13879.00	90.40	181.88	9454.66	77.00	4618.06	4617.82 S	49.37 E	4618.08@	179.39	0.00



A Schlumberger Company

TIE-IN SURVEY INFORMATION SHEET**CLIENT INFORMATION**

CLIENT:	Yates Petroleum		
LEASE / WELL No.:	Red Raider "BKS" State #2H		
WELL LOCATION:	Lea County		
COUNTY / STATE / COUNTRY:	Lea County	NM	USA
RIG:	Latshaw # 3		
API WELL No:	30-025-39716		
JOB No:	700001198 WT-WT		
P.O. / AFE No.	10-125-0		
DIRECTIONAL COMPANY:	PathFinder		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
<i>On Wall Plat:</i>		<i>LWD Calculated:</i>	
X = 791523.608000		Y = 435587.689000	
Feet		Feet	
SITE LATITUDE:	32.194921 N	SITE LONGITUDE:	103.524546 W
GRID SYSTEM:	TRUE ☐ UTM ☐ LAMBERT ☒ ZONE:		
PROPOSED DRIFT DIRECTION:	179.57		
KELLY BUSHING ELEVATION:	3578		
ALTITUDE:	3566	Feet	WATER DEPTH: Feet

TIE-IN SURVEY

MEASURED DEPTH:	8890
DRIFT ANGLE:	1
DRIFT DIRECTION:	179.57
TRUE VERTICAL DEPTH:	8888.67
VERTICAL SECTION:	-36.7
RECTANGULAR COORDINATE (N / S) :	37.19
RECTANGULAR COORDINATE (E / W) :	65.77
CLOSURE DISTANCE / DIRECTION:	
SURVEY CALCULATION METHOD:	AA ☐ MC ☒ RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	MS Energy
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO

WELL PLAN

KICKOFF DEPTH 89.87	13879.01
KICKOFF ANGLE:	MAX ANGLE: 90

PES Engineers: _____ David Phillips
 _____ Chris Alex

**Signature of both field engineers required if applicable

Directional Driller: _____

DATE: _____

GYROSCOPIC DIRECTIONAL SURVEY BY MINIMUM CURVATURE

 * YATES PETROLEUM CORP. *

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***** DEPTH MEASURED IN FEET *****
***** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE **
* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
**
** COMPANY REPRESENTATIVE **
*****
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MS ENERGY SERVICES.
ODESSA, TEXAS

JOB NUMBER: SVCO-110027

WELL NAME: RED RAIDER BKS ST. #2H

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
0.0	0.00	0.00	0.000	00.00	000.00	0.00 N 0.00 E	0.00		0.00	AT 000.00
200.0	200.00	0.00	0.000	00.00	000.00	0.00 N 0.00 E	0.00	0.00	0.00	AT 000.00
400.0	400.00	-0.44	0.017	00.25	357.34	0.44 N 0.02 W	0.13	0.25	0.44	AT 357.34
600.0	600.00	-1.06	0.430	00.25	294.39	1.05 N 0.44 W	0.13	0.26	1.14	AT 337.40
800.0	799.99	-2.11	0.782	00.50	002.44	2.10 N 0.80 W	0.23	0.47	2.25	AT 339.23
1000.0	999.99	-3.85	0.709	00.50	001.49	3.85 N 0.74 W	0.00	0.01	3.92	AT 349.14
1200.0	1199.98	-5.59	0.832	00.50	349.55	5.58 N 0.87 W	0.05	0.10	5.65	AT 351.10
1400.0	1399.97	-7.20	1.420	00.50	329.60	7.19 N 1.47 W	0.09	0.17	7.34	AT 348.42
1600.0	1599.96	-8.75	2.900	00.75	306.65	8.72 N 2.97 W	0.17	0.35	9.21	AT 341.22
1800.0	1799.94	-10.13	5.108	00.75	296.84	10.10 N 5.18 W	0.06	0.13	11.35	AT 332.82
2000.0	1999.93	-11.46	6.755	00.50	325.89	11.41 N 6.84 W	0.20	0.40	13.30	AT 329.05
2200.0	2199.92	-13.13	8.142	00.75	315.94	13.07 N 8.24 W	0.14	0.27	15.45	AT 327.77
2400.0	2399.90	-15.05	9.931	00.75	316.99	14.97 N 10.04 W	0.01	0.01	18.03	AT 326.14
2600.0	2599.89	-17.11	11.520	00.75	327.05	17.03 N 11.65 W	0.07	0.13	20.63	AT 325.62
2800.0	2799.86	-19.79	12.972	01.00	334.20	19.70 N 13.12 W	0.14	0.27	23.67	AT 326.33
3000.0	2999.83	-22.70	14.847	01.00	319.35	22.59 N 15.02 W	0.13	0.26	27.13	AT 326.39
3200.0	3199.80	-26.20	16.280	01.25	351.50	26.07 N 16.48 W	0.33	0.67	30.84	AT 327.71
3400.0	3399.75	-30.54	16.545	01.25	000.65	30.41 N 16.77 W	0.10	0.20	34.73	AT 331.12
3600.0	3599.70	-34.50	15.245	01.25	034.80	34.38 N 15.50 W	0.37	0.73	37.72	AT 335.73
3800.0	3799.66	-38.42	13.542	01.25	011.34	38.31 N 13.83 W	0.25	0.51	40.73	AT 340.15
4000.0	3999.61	-42.55	12.213	01.25	023.49	42.45 N 12.53 W	0.13	0.26	44.27	AT 343.55
4200.0	4199.58	-44.99	10.097	00.75	069.65	44.91 N 10.43 W	0.45	0.91	46.11	AT 346.92
4400.0	4399.57	-45.84	8.095	00.50	061.80	45.78 N 8.44 W	0.13	0.26	46.55	AT 349.56
4600.0	4599.49	-45.31	3.062	02.50	101.98	45.28 N 3.40 W	1.07	2.14	45.41	AT 355.70
4800.0	4799.32	-42.94	-4.852	02.25	111.03	42.97 N 4.53 E	0.22	0.45	43.21	AT 006.02
5000.0	4999.20	-40.89	-11.499	01.75	101.07	40.98 N 11.19 E	0.30	0.61	42.48	AT 015.28
5200.0	5199.09	-39.52	-17.897	02.00	102.13	39.66 N 17.60 E	0.13	0.25	43.39	AT 023.93
5400.0	5398.99	-38.62	-24.355	01.75	092.17	38.81 N 24.06 E	0.20	0.41	45.66	AT 031.80
5600.0	5598.93	-38.53	-29.150	01.00	088.22	38.75 N 28.86 E	0.38	0.76	48.31	AT 036.68
5800.0	5798.90	-38.73	-32.633	01.00	084.40	38.97 N 32.34 E	0.03	0.07	50.64	AT 039.69
6000.0	5998.87	-38.91	-35.680	00.75	088.45	39.18 N 35.39 E	0.13	0.26	52.79	AT 042.09
6200.0	6198.85	-39.12	-38.724	01.00	083.51	39.41 N 38.43 E	0.13	0.26	55.04	AT 044.28
6400.0	6398.83	-39.58	-41.740	00.75	077.56	39.89 N 41.44 E	0.13	0.27	57.52	AT 046.10
6600.0	6598.81	-40.26	-43.791	00.50	061.58	40.58 N 43.49 E	0.15	0.30	59.48	AT 046.98
6800.0	6798.81	-40.64	-44.997	00.25	092.61	40.98 N 44.69 E	0.16	0.31	60.64	AT 047.48
7000.0	6998.81	-40.28	-46.236	00.50	112.66	40.62 N 45.93 E	0.14	0.28	61.32	AT 048.51
7200.0	7198.80	-40.20	-47.869	00.50	071.74	40.56 N 47.57 E	0.17	0.35	62.51	AT 049.54
7400.0	7398.79	-40.37	-49.125	00.25	102.81	40.74 N 48.82 E	0.16	0.31	63.58	AT 050.16
7600.0	7598.79	-40.56	-49.875	00.25	047.89	40.93 N 49.57 E	0.12	0.23	64.29	AT 050.45
7800.0	7798.79	-40.38	-50.938	00.50	121.97	40.76 N 50.63 E	0.25	0.49	65.00	AT 051.16
8000.0	7998.78	-39.35	-52.856	00.75	115.04	39.75 N 52.56 E	0.13	0.26	65.90	AT 052.90
8200.0	8198.75	-38.56	-55.768	01.00	097.12	38.98 N 55.48 E	0.18	0.37	67.80	AT 054.91
8400.0	8398.73	-38.11	-58.789	00.75	099.20	38.55 N 58.50 E	0.13	0.25	70.06	AT 056.62
8600.0	8598.71	-37.78	-61.821	01.00	093.27	38.24 N 61.54 E	0.13	0.27	72.45	AT 058.14
8800.0	8798.68	-37.27	-64.809	00.75	107.35	37.75 N 64.53 E	0.16	0.33	74.76	AT 059.67
8890.0	8888.67	-36.70	-66.051	01.00	119.43	37.19 N 65.77 E	0.34	0.31	75.56	AT 060.51

* THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *
* 8890.00 FEET EQUALS 75.56 FEET AT 060.51 *
