

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-101

Revised February 10, 1994

Instructions on back
Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. 205 E. Bender, HOBBS, NM 88240		² OGRID Number 022351
⁴ Property Code 11125	⁵ Property Name VACUUM GLORIETA WEST UNIT	³ API Number 3002520339
		⁶ Well No. 103

⁷ Surface Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	31	17S	35E		760	SOUTH	560	WEST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
P	36	17S	34E		760	South	640	East	Lea

⁹ Proposed Pool 1 Vacuum Glorieta	¹⁰ Proposed Pool 2
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¹¹ Work Type Code P	¹² WellType Code O	¹³ Rotary or C.T. R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3988'
¹⁶ Multiple No	¹⁷ Proposed Depth 5950 TVD	¹⁸ Formation Upper Paddock	¹⁹ Contractor Unknown	²⁰ Spud Date 11/7/97

²¹ Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
No change					

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone.
Describe the blowout prevention program, if any. Use additional sheets if necessary.

Objective: Texaco intends to directionally drill a 1200' horizontal lateral section from the subject existing wellbore.

1. MIRU pulling unit. Set CIBP @ 5920'.
2. Run in hole with whipstock. Run Gyro survey to orient whipstock - whipstock should have azimuth of 270°. Set whipstock on CIBP @ 5920'.
3. Run in hole with starting mill to establish cut in casing (KOP @ 5900'). TOH with starting mill. TIH with watermelon mill, drillpipe, and drill collars. Mill ~10' window.
4. Drill 100' radius build section with EOB @ 5995' TVD.
5. Directionally drill horizontal section 1200' from surface location. TOH with drill equipment.
6. Acid stimulate horizontal section of well with a 24,000 gallon 15% HCL DSP coiled tubing treatment.
7. Run in hole with submersible pumping equipment. Return well to production. Place on test.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Directionally

²³ I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature *Darrell J. Carriger*

Printed Name Darrell J. Carriger

Title Prod. Engineer

Date 10/29/97

Telephone 397-0426

OIL CONSERVATION DIVISION

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

Approved By:

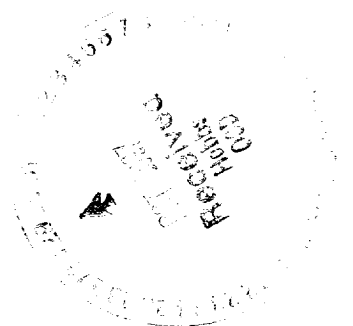
Title:

Approval Date NOV 4 1997

Expiration Date:

Conditions of Approval:

Attached ☐



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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

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Fee Lease - 3 Copies

☐ AMENDED REPORT

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3002520339	² Pool Code 62160	³ Pool Name VACUUM GLORIETA
⁴ Property Code 11125	⁵ Property Name VACUUM GLORIETA WEST UNIT	⁶ Well No. 103
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation

¹⁰ Surface Location

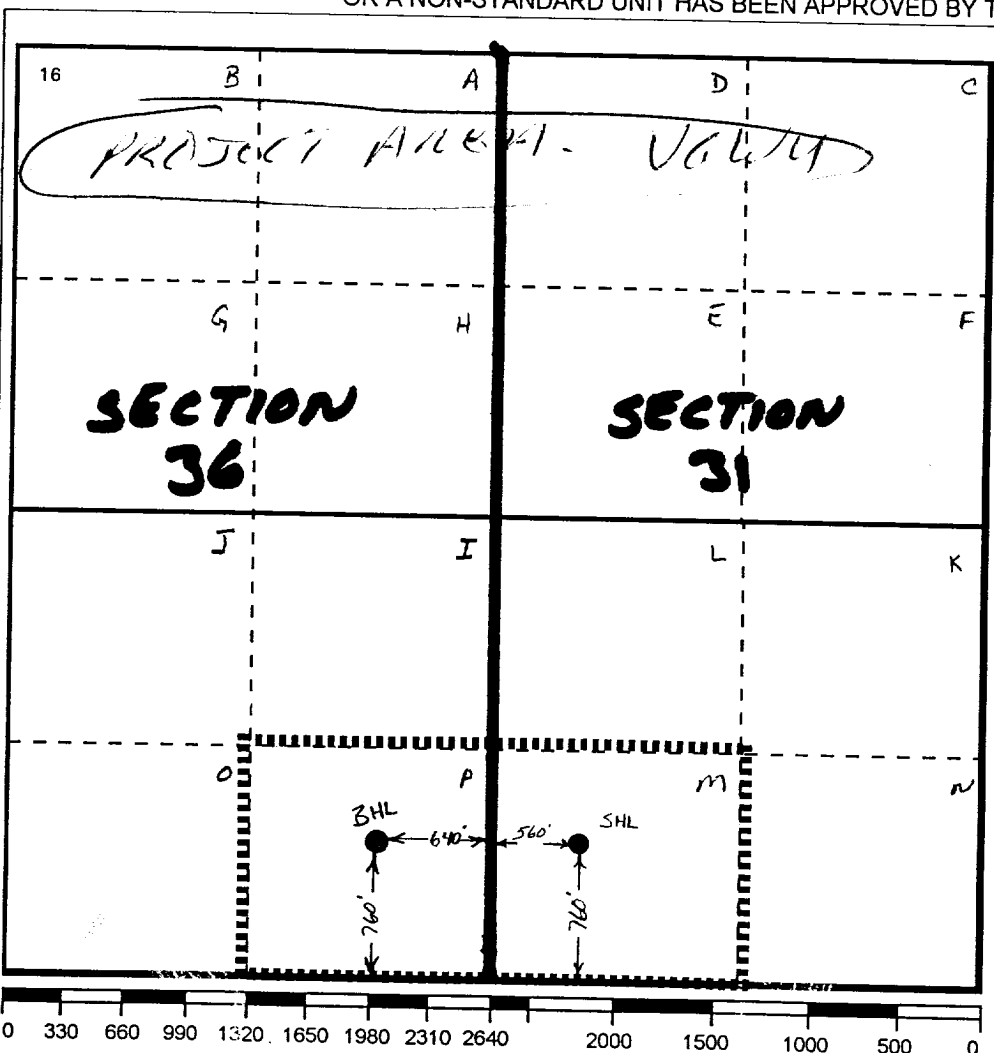
UI or lot no. M	Section 31	Township 17S	Range 35E	Lot.Idn	Feet From The 760	North/South Line SOUTH	Feet From The 560	East/West Line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UI or lot no. P	Section 36	Township 17S	Range 34E	Lot.Idn	Feet From The 760	North/South Line SOUTH	Feet From The 640	East/West Line EAST	County LEA
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¹² Dedicated Acres 80	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

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

Signature

Printed Name

Darrell J. Carriger

Position

Prod. Engineer

Date

10/28/97

18 SURVEYOR CERTIFICATION

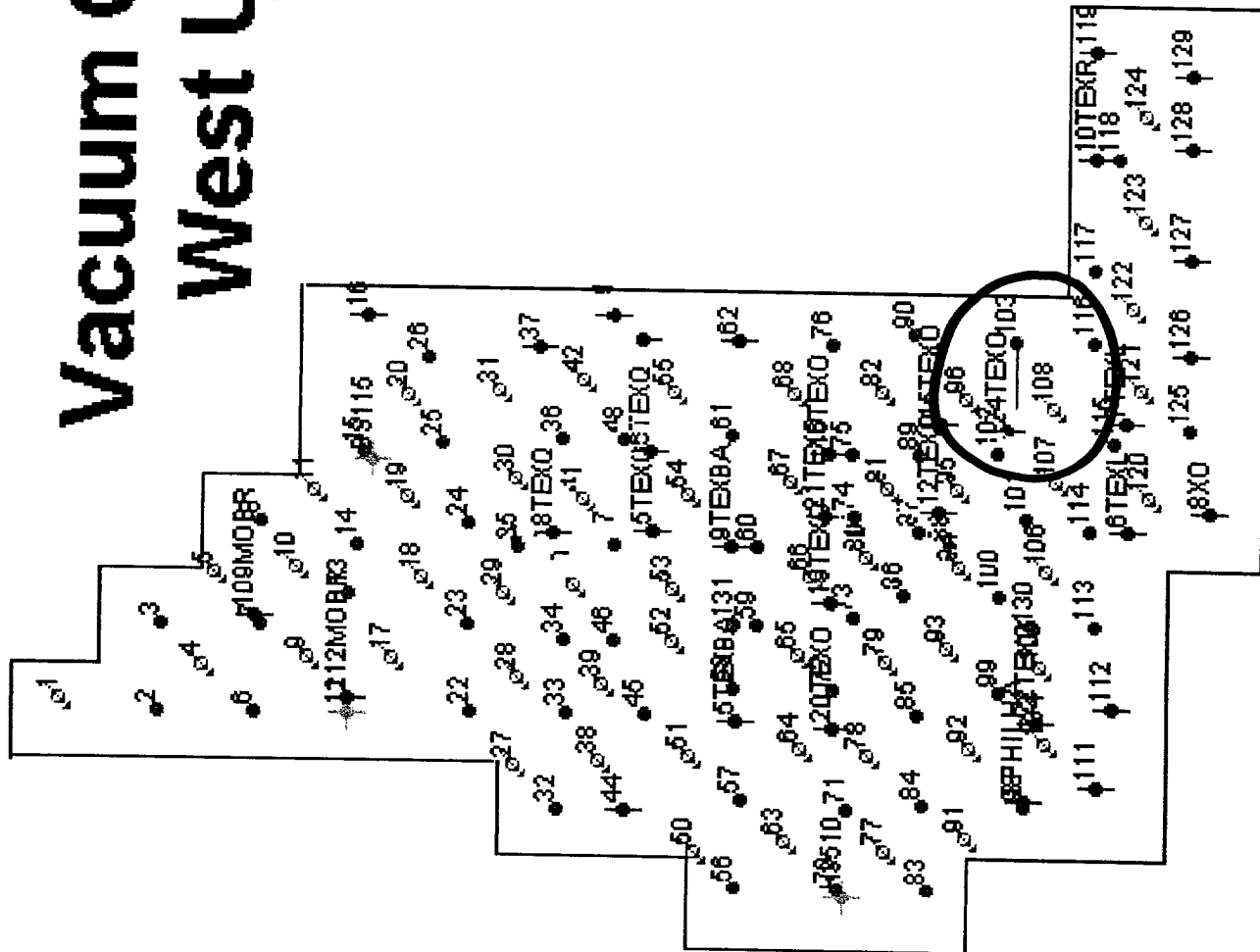
I hereby certify that the well location shown
on this plat was plotted from field notes of
actual surveys made by me or under my
supervision, and that the same is true and
correct to the best of my knowledge and
belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

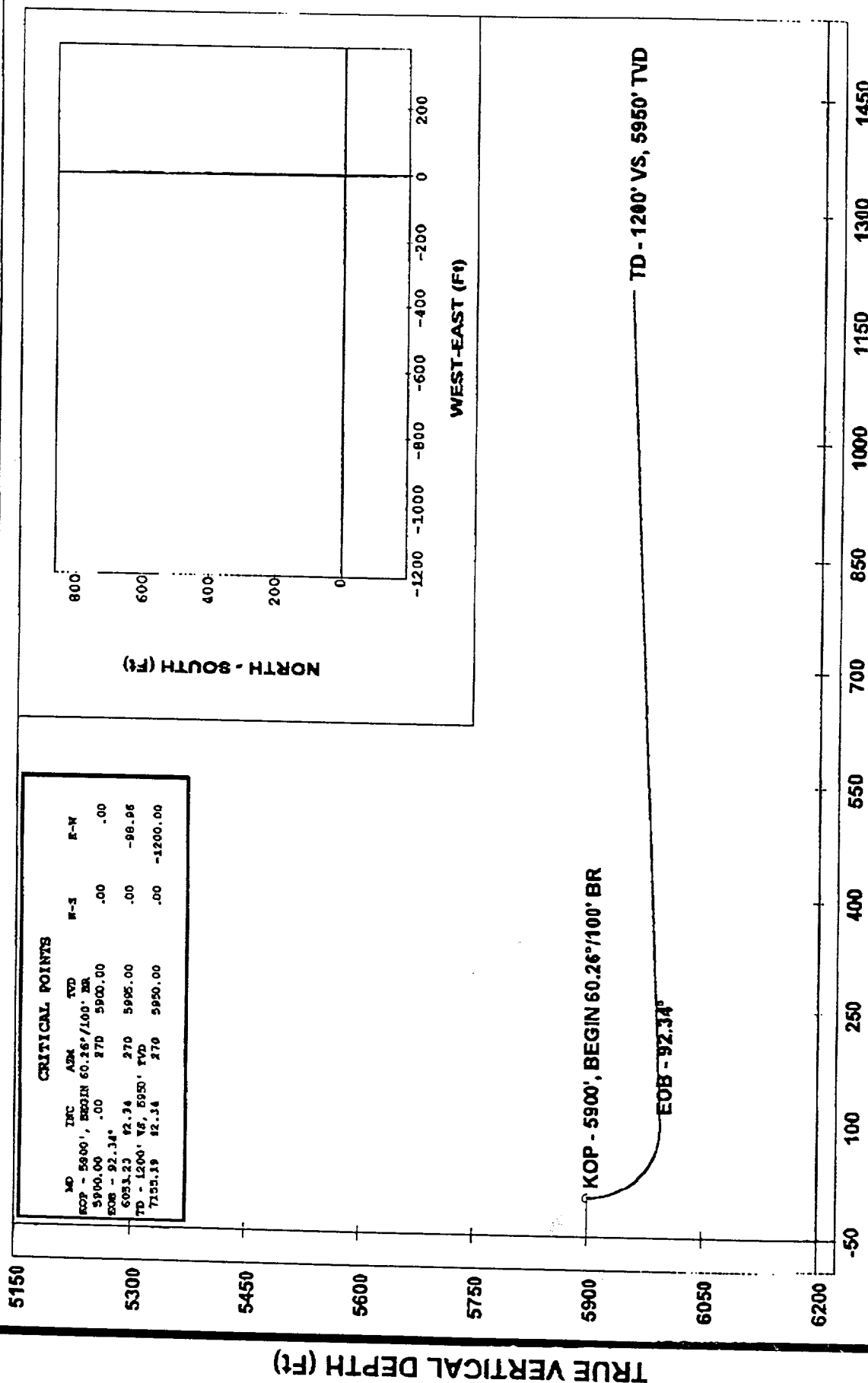
Certificate No.

Vacuum Glorieta West Unit



Company: TEXACO
 Lease/Well: VGWU NO. 103
 Location: LEA COUNTY, NM
 Rig Name:
 Grid:
 File name: C:\WINSERVE\VGWU#103.SVY

Date/Time: Tuesday, October 28, 1997



0-- VGWU#103(REV1) 10/28/97

VERTICAL SECTION (FT) @ 270.00°



Job Number:
Company: TEXACO
Lease/Well: VGWU NO. 103
Location: LEA COUNTY, NM
Rig Name:
RKB:
G.L or M.S.L.:

State/Country: NEW MEXICO/USA
Declination:
Grid:
File name: C:\WINSERVE\VGWU#103.SVY
Date/Time: 28-Oct-97 / 15:25
Curve Name: VGWU#103(REV1) 10/28/97

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 270.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
KOP - 5900', BEGIN 60.26'/100' BR										
5900.00	.00	270.00	5900.00	-5900.00	.00	.00	.00	.00	.00	.00
5910.00	6.03	270.00	5909.98	-5909.98	.00	-.53	.53	.53	270.00	60.26
5920.00	12.05	270.00	5919.85	-5919.85	.00	-2.10	2.10	2.10	270.00	60.26
5930.00	18.08	270.00	5929.50	-5929.50	.00	-4.69	4.69	4.69	270.00	60.26
5940.00	24.10	270.00	5938.83	-5938.83	.00	-8.29	8.29	8.29	270.00	60.26
5950.00	30.13	270.00	5947.73	-5947.73	.00	-12.85	12.85	12.85	270.00	60.26
5960.00	36.16	270.00	5956.10	-5956.10	.00	-18.31	18.31	18.31	270.00	60.26
5970.00	42.18	270.00	5963.85	-5963.85	.00	-24.62	24.62	24.62	270.00	60.26
5980.00	48.21	270.00	5970.89	-5970.89	.00	-31.72	31.72	31.72	270.00	60.26
5990.00	54.23	270.00	5977.15	-5977.15	.00	-39.51	39.51	39.51	270.00	60.26
6000.00	60.26	270.00	5982.56	-5982.56	.00	-47.91	47.91	47.91	270.00	60.26

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
								Distance FT	Direction Deg	
6010.00	66.29	270.00	5987.05	-5987.05	.00	-56.84	56.84	56.84	270.00	60.26
6020.00	72.31	270.00	5990.59	-5990.59	.00	-66.19	66.19	66.19	270.00	60.26
6030.00	78.34	270.00	5993.12	-5993.12	.00	-75.86	75.86	75.86	270.00	60.26
6040.00	84.36	270.00	5994.62	-5994.62	.00	-85.74	85.74	85.74	270.00	60.26
6050.00	90.39	270.00	5995.08	-5995.08	.00	-95.73	95.73	95.73	270.00	60.26
EOB - 92.34°										
6053.23	92.34	270.00	5995.00	-5995.00	.00	-98.96	98.96	98.96	270.00	60.26
6153.24	92.34	270.00	5990.92	-5990.92	.00	-198.88	198.88	198.88	270.00	.00
6253.24	92.34	270.00	5986.83	-5986.83	.00	-298.80	298.80	298.80	270.00	.00
6353.24	92.34	270.00	5982.75	-5982.75	.00	-398.72	398.72	398.72	270.00	.00
6453.24	92.34	270.00	5978.67	-5978.67	.00	-498.63	498.63	498.63	270.00	.00
6553.24	92.34	270.00	5974.58	-5974.58	.00	-598.55	598.55	598.55	270.00	.00
6653.24	92.34	270.00	5970.50	-5970.50	.00	-698.47	698.47	698.47	270.00	.00
6753.24	92.34	270.00	5966.42	-5966.42	.00	-798.38	798.38	798.38	270.00	.00
6853.24	92.34	270.00	5962.33	-5962.33	.00	-898.30	898.30	898.30	270.00	.00
6953.24	92.34	270.00	5958.25	-5958.25	.00	-998.22	998.22	998.22	270.00	.00
7053.24	92.34	270.00	5954.16	-5954.16	.00	-1098.13	1098.13	1098.13	270.00	.00
7153.24	92.34	270.00	5950.08	-5950.08	.00	-1198.05	1198.05	1198.05	270.00	.00
TD - 1200' VS, 5950' TVD										
7155.19	92.34	270.00	5950.00	-5950.00	.00	-1200.00	1200.00	1200.00	270.00	.01