

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

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

OIL CONSERVATION DIVISION

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

☐ 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 30 025 31131
		⁶ Well No. 115

⁷ Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
A	1	18S	34E		604	NORTH	856	EAST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	31	17 18S	35E		146	South	443	West	Lea

⁹ Proposed Pool 1 Vacuum Glorieta (unitized interval)	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 3986 GL
¹⁶ Multiple No	¹⁷ Proposed Depth 5965 TVD	¹⁸ Formation Upper Paddock	¹⁹ Contractor Unknown	²⁰ Spud Date 11/9/97

²¹ Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP

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 1400' horizontal lateral section from the subject existing wellbore.

1. MIRU pulling unit. Set CIBP @ 5895'.
2. Run in hole with whipstock. Run Gyro survey to orient whipstock - whipstock face should have azimuth of 60°. Set whipstock on CIBP @ 5895'.
3. Run in hole with starting mill to establish cut in casing (KOP @ 5865'). TOH with starting mill. TIH with watermelon mill, drillpipe, and drill collars. Mill ~10' window.
4. Drill 100' radius build section with EOB @ 5965'.
5. Directionally drill horizontal section 1400' from surface location. TOH with drill equipment.
6. Acid stimulate horizontal section of well with a 28,000 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

Approved By: ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

Title:

Approval Date: NOV 3 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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Submit to Appropriate District Office

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☐ AMENDED REPORT

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30 025 31131	² Pool Code 62160	³ Pool Name VACUUM GLORIETA
⁴ Property Code 11125	⁵ Property Name VACUUM GLORIETA WEST UNIT	⁶ Well No. 115
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation 3986 GL

¹⁰ Surface Location

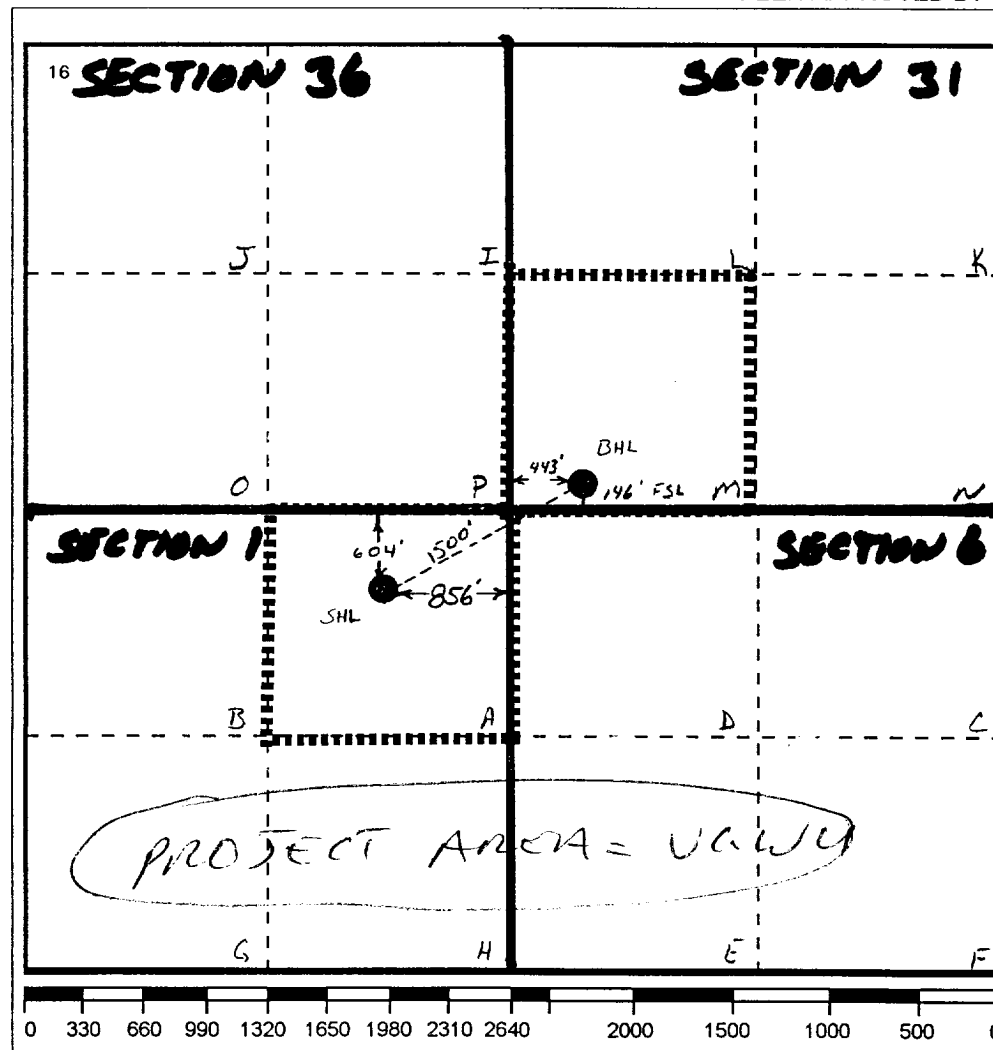
Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
A	1	18S	34E		604	NORTH	856	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	31	17 18S	35E		146	South	443	West	Lea

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

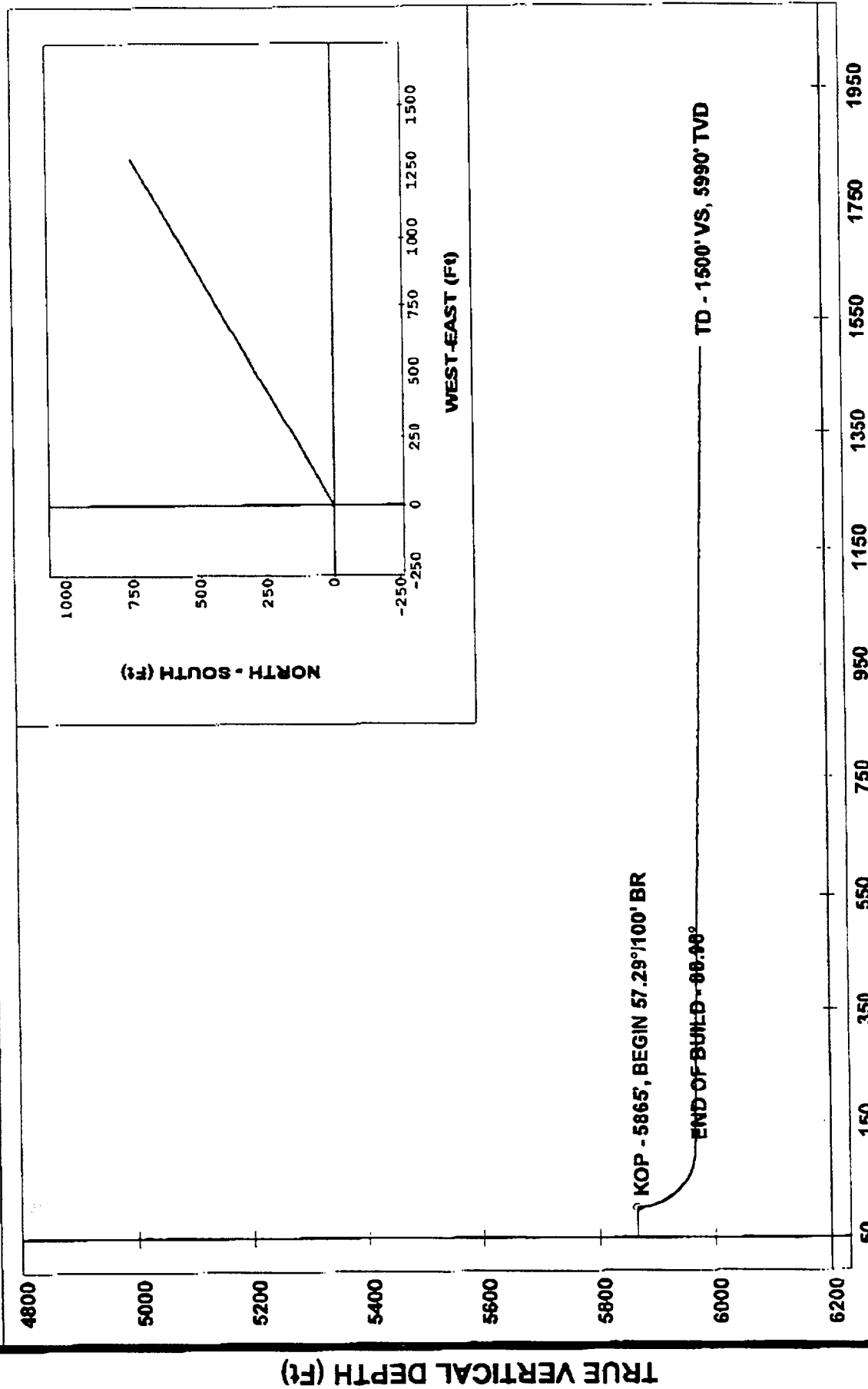
Professional Surveyor

Certificate No.

Vacuum West

Date/Time: 28-Oct-97 / 16:06

Company: TEXACO
 Lease/Well: VGWU NO. 115
 Location: LEA COUNTY, NM
 Rig Name:
 Grid:
 File name: C:\WINSERVE\GWU#115.SVY



°-- VGWU#115 (REV.1) 10/28/97

VERTICAL SECTION (Ft) @ 60.00°



Job Number:
Company: TEXACO
Lease/Well: VGWU NO. 115
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#115.SVY

Date/Time: 28-Oct-97 / 16:06

Curve Name: VGWU#115(REV.1) 10/28/97

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 60.00

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 - 5865', BEGIN 57.29'/100' BR										
5865.00	.00	60.00	5865.00	-5865.00	.00	.00	.00	.00	.00	.00
5875.00	5.73	60.00	5874.98	-5874.98	.25	.43	.50	.50	60.00	57.29
5885.00	11.46	60.00	5884.87	-5884.87	1.00	1.73	1.99	1.99	60.00	57.29
5895.00	17.19	60.00	5894.55	-5894.55	2.23	3.87	4.47	4.47	60.00	57.29
5905.00	22.91	60.00	5903.94	-5903.94	3.96	6.84	7.89	7.89	60.00	57.29
5915.00	28.64	60.00	5912.94	-5912.94	6.12	10.60	12.24	12.24	60.00	57.29
5925.00	34.37	60.00	5921.47	-5921.47	8.73	15.12	17.46	17.46	60.00	57.29
5935.00	40.10	60.00	5929.42	-5929.42	11.76	20.36	23.51	23.51	60.00	57.29
5945.00	45.83	60.00	5936.74	-5936.74	15.16	26.26	30.32	30.32	60.00	57.29
5955.00	51.56	60.00	5943.34	-5943.34	18.92	32.76	37.83	37.83	60.00	57.29
5965.00	57.29	60.00	5949.15	-5949.15	22.98	39.81	45.96	45.96	60.00	57.29

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	
5975.00	63.02	60.00	5954.13	-5954.13	27.32	47.31	54.63	54.63	60.00	57.29
5985.00	68.74	60.00	5958.21	-5958.21	31.88	55.21	63.76	63.76	60.00	57.29
5995.00	74.47	60.00	5961.37	-5961.37	36.62	63.43	73.24	73.24	60.00	57.29
6005.00	80.20	60.00	5963.56	-5963.56	41.50	71.88	82.99	82.99	60.00	57.29
6015.00	85.93	60.00	5964.76	-5964.76	46.46	80.47	92.92	92.92	60.00	57.29
END OF BUILD - 88.98°										
6020.32	88.98	60.00	5965.00	-5965.00	49.12	85.07	98.23	98.23	60.00	57.29
6050.32	88.98	60.00	5965.54	-5965.54	64.11	111.05	128.23	128.23	60.00	.00
6080.32	88.98	60.00	5966.07	-5966.07	79.11	137.02	158.22	158.22	60.00	.00
6110.32	88.98	60.00	5966.61	-5966.61	94.11	163.00	188.22	188.22	60.00	.00
6140.32	88.98	60.00	5967.14	-5967.14	109.11	188.98	218.21	218.21	60.00	.00
6170.32	88.98	60.00	5967.68	-5967.68	124.10	214.95	248.21	248.21	60.00	.00
6200.32	88.98	60.00	5968.21	-5968.21	139.10	240.93	278.20	278.20	60.00	.00
6230.32	88.98	60.00	5968.75	-5968.75	154.10	266.91	308.20	308.20	60.00	.00
6260.32	88.98	60.00	5969.28	-5969.28	169.10	292.88	338.19	338.19	60.00	.00
6290.32	88.98	60.00	5969.82	-5969.82	184.09	318.86	368.19	368.19	60.00	.00
6320.32	88.98	60.00	5970.35	-5970.35	199.09	344.84	398.18	398.18	60.00	.00
6350.32	88.98	60.00	5970.89	-5970.89	214.09	370.81	428.18	428.18	60.00	.00
6380.32	88.98	60.00	5971.43	-5971.43	229.09	396.79	458.17	458.17	60.00	.00
6410.32	88.98	60.00	5971.96	-5971.96	244.08	422.77	488.17	488.17	60.00	.00
6440.32	88.98	60.00	5972.50	-5972.50	259.08	448.74	518.16	518.16	60.00	.00
6470.32	88.98	60.00	5973.03	-5973.03	274.08	474.72	548.16	548.16	60.00	.00
6500.32	88.98	60.00	5973.57	-5973.57	289.08	500.70	578.15	578.15	60.00	.00
6530.32	88.98	60.00	5974.10	-5974.10	304.07	526.67	608.15	608.15	60.00	.00
6560.32	88.98	60.00	5974.64	-5974.64	319.07	552.65	638.14	638.14	60.00	.00
6590.32	88.98	60.00	5975.17	-5975.17	334.07	578.63	668.14	668.14	60.00	.00
6620.32	88.98	60.00	5975.71	-5975.71	349.07	604.60	698.13	698.13	60.00	.00
6650.32	88.98	60.00	5976.24	-5976.24	364.07	630.58	728.13	728.13	60.00	.00
6680.32	88.98	60.00	5976.78	-5976.78	379.06	656.56	758.13	758.13	60.00	.00
6710.32	88.98	60.00	5977.31	-5977.31	394.06	682.53	788.12	788.12	60.00	.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	CLOSURE Direction Deg	Dogleg Severity Deg/100
6740.32	88.98	60.00	5977.85	-5977.85	409.06	708.51	818.12	818.12	60.00	.00
6770.32	88.98	60.00	5978.38	-5978.38	424.06	734.49	848.11	848.11	60.00	.00
6800.32	88.98	60.00	5978.92	-5978.92	439.05	760.46	878.11	878.11	60.00	.00
6830.32	88.98	60.00	5979.45	-5979.45	454.05	786.44	908.10	908.10	60.00	.00
6860.32	88.98	60.00	5979.99	-5979.99	469.05	812.42	938.10	938.10	60.00	.00
6890.32	88.98	60.00	5980.52	-5980.52	484.05	838.39	968.09	968.09	60.00	.00
6920.32	88.98	60.00	5981.06	-5981.06	499.04	864.37	998.09	998.09	60.00	.00
6950.32	88.98	60.00	5981.59	-5981.59	514.04	890.35	1028.08	1028.08	60.00	.00
6980.32	88.98	60.00	5982.13	-5982.13	529.04	916.32	1058.08	1058.08	60.00	.00
7010.32	88.98	60.00	5982.66	-5982.66	544.04	942.30	1088.07	1088.07	60.00	.00
7040.32	88.98	60.00	5983.19	-5983.19	559.03	968.28	1118.07	1118.07	60.00	.00
7070.32	88.98	60.00	5983.73	-5983.73	574.03	994.25	1148.06	1148.06	60.00	.00
7100.32	88.98	60.00	5984.26	-5984.26	589.03	1020.23	1178.06	1178.06	60.00	.00
7130.32	88.98	60.00	5984.80	-5984.80	604.03	1046.21	1208.05	1208.05	60.00	.00
7160.32	88.98	60.00	5985.33	-5985.33	619.02	1072.18	1238.05	1238.05	60.00	.00
7190.32	88.98	60.00	5985.87	-5985.87	634.02	1098.16	1268.04	1268.04	60.00	.00
7220.32	88.98	60.00	5986.40	-5986.40	649.02	1124.14	1298.04	1298.04	60.00	.00
7250.32	88.98	60.00	5986.94	-5986.94	664.02	1150.11	1328.03	1328.03	60.00	.00
7280.32	88.98	60.00	5987.47	-5987.47	679.02	1176.09	1358.03	1358.03	60.00	.00
7310.32	88.98	60.00	5988.01	-5988.01	694.01	1202.07	1388.03	1388.03	60.00	.00
7340.32	88.98	60.00	5988.54	-5988.54	709.01	1228.04	1418.02	1418.02	60.00	.00
7370.32	88.98	60.00	5989.07	-5989.07	724.01	1254.02	1448.02	1448.02	60.00	.00
7400.32	88.98	60.00	5989.61	-5989.61	739.01	1280.00	1478.01	1478.01	60.00	.00
TD - 1500' VS, 6990' TVD										
7422.31	88.98	60.00	5990.00	-5990.00	750.00	1299.04	1500.00	1500.00	60.00	.00