

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

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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 011125	⁵ Property Name VACUUM GLORIETA WEST UNIT	³ API Number 30 025 30779
		⁶ Well No. 72Y

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
E	36	17S	34E		2008	NORTH	990	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
G	36	17S	34E		2165'	NORTH	2497'	EAST	LEA
⁹ Proposed Pool 1 Vacuum Glorieta unitized interval (same zone)					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² WellType Code O	¹³ Rotary or C.T. R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4005'
¹⁶ Multiple No	¹⁷ Proposed Depth 5960'TVD	¹⁸ Formation Paddock	¹⁹ Contractor Unknown	²⁰ Spud Date 6/12/98

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 intendsto drill a horizontal lateral interval from the existing vertical oil well.

1. MIRU pulling unit. TOH with submersible pumping equipment. Set CIBP @ 5859'. Run gyro survey to orient whipstock. RIH with retrievable whipback whipstock (orient whipstock with gyro survey) on top of CIBP. RIH with starting mill to establish cut in casing (window is from 5849'- 5856').
2. Drill a short radius curve using a 4-3/4" drill bit to a MD of 6016' and TVD 5960'.
3. Drill a 1800' horizontal lateral section with an azimuth of 95 degrees.
4. TOH with drill equipment.
5. Rig up coiled tubing unit. Acid stimulate horizontal section with 15% HCL.
6. Rig down coiled tubing unit and run in hole with production equipment.
7. Return well to production and place well on test.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway,

Plug Back

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.		OIL CONSERVATION DIVISION LARRY E. WILLIAMS District Engineer	
Signature <i>Darrell J. Carriger</i>	Approved By:		
Printed Name Darrell J. Carriger	Title:	Title:	
Title Prod. Engineer	Approval APR 2 1998	Expiration Date:	
Date 4/27/98	Telephone 397-0426	Conditions of Approval: Attached ☐	

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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-102

Revised February 10, 1994

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State Lease - 4 Copies

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

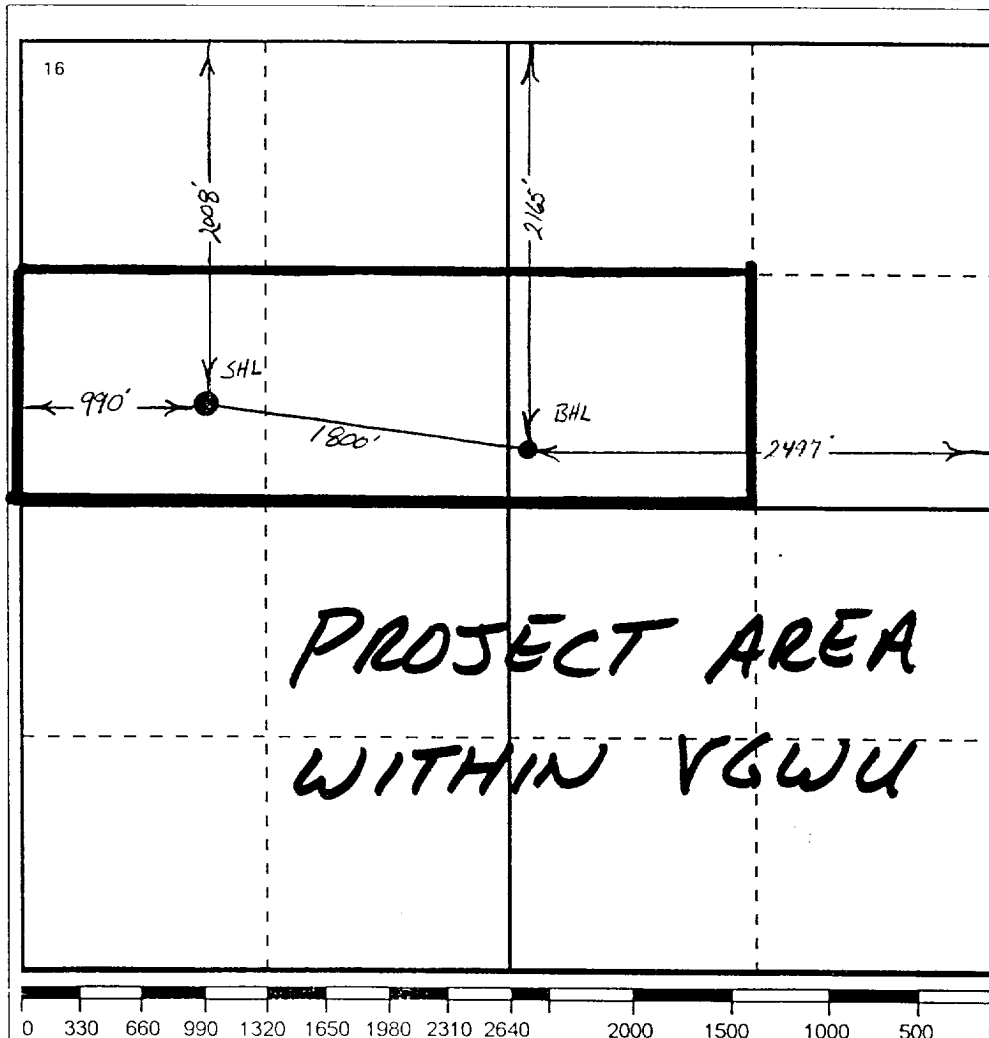
¹ API Number 3002530779	² Pool Code 62160	³ Pool Name VACUUM GLORIETA
⁴ Property Code 011125	⁵ Property Name VACUUM GLORIETA WEST UNIT	⁶ Well No. 72Y
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation

¹⁰ Surface Location

UI or lot no. E	Section 36	Township 17S	Range 34E	Lot.Idn	Feet From The 2008	North/South Line NORTH	Feet From The 990	East/West Line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UI or lot no. G	Section 36	Township 17S	Range 34E	Lot.Idn	Feet From The 2165'	North/South Line NORTH	Feet From The 2497'	East/West Line EAST	County LEA
¹² Dedicated Acres 120	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.						

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

Darrell J. Carriger

Printed Name

Darrell J. Carriger

Position

Prod. Engineer

Date

18 SURVEYOR CERTIFICATION

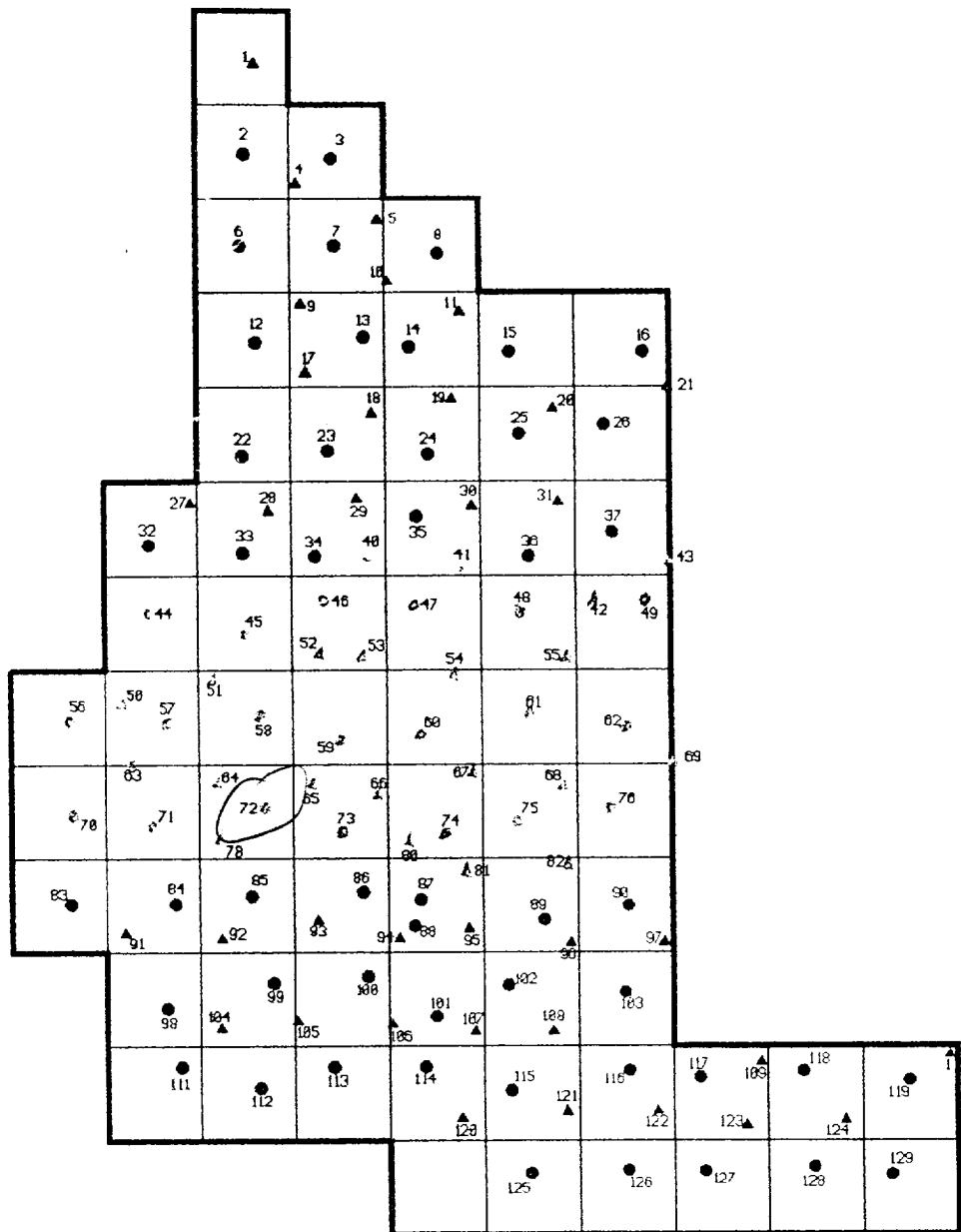
I hereby certify that the well location shown
on this plat was plotted from field notes of
actual surveys made by me or under my
supervision, and that the same is true and
correct to the best of my knowledge and
belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.

PROJECT AREA



TEXACO EXPLORATION AND PRODUCTION

VACUUM GLORIETA WEST UNIT

Date: 4/27/98 BY: DARRELL J. CARRIGER



Job Number:
 Company: TEXACO E&P
 Lease/Well: VGWU #72
 Location: LEA COUNTY
 Rig Name: YALE E. KEY #119
 RKB: 4014
 G.L. or M.S.L.:

State/Country: NEW MEXICO
 Declination: 9.11603
 Grid:
 File name: D:\DATA\TEXACO-1\VGWU\VGWU_72\VGWU_72.SVY
 Date/Time: 23-Mar-98 / 15:58
 Curve Name: PROPOSAL (REV.0)

PHOENIX DRILLING SERVICES, INC.

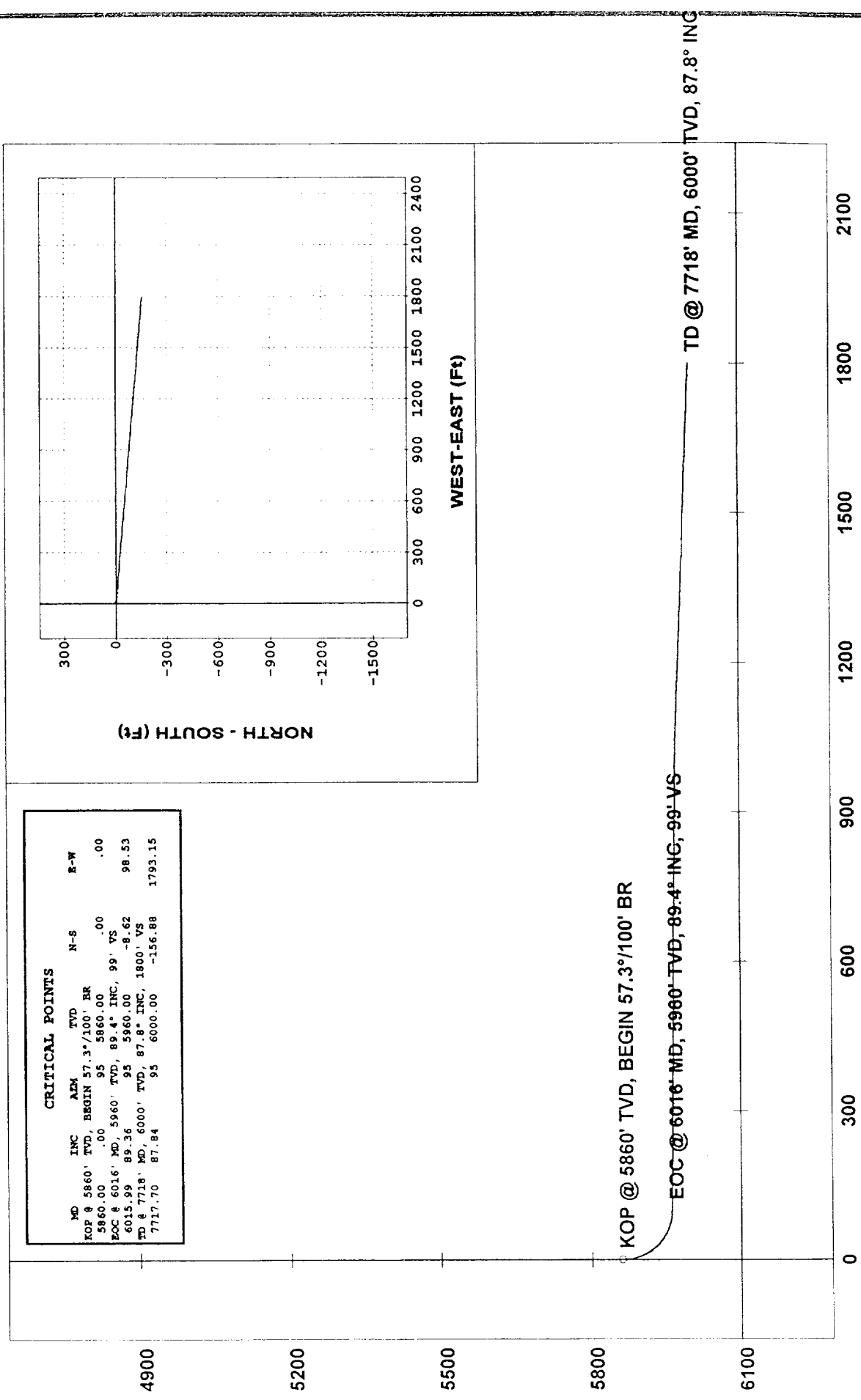
WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 95.00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
KOP @ 5860' TVD, BEGIN 57.3°/100' BR									
5860.00	.00	95.00	5860.00	.00	.00	.00	.00	.00	.00
5870.00	5.73	95.00	5869.98	-.04	.50	.50	.50	95.00	57.29
5880.00	11.46	95.00	5879.87	-.17	1.99	1.99	1.99	95.00	57.29
5890.00	17.19	95.00	5889.55	-.39	4.45	4.47	4.47	95.00	57.29
5900.00	22.92	95.00	5898.94	-.69	7.86	7.89	7.89	95.00	57.29
5910.00	28.65	95.00	5907.94	-1.07	12.19	12.24	12.24	95.00	57.29
5920.00	34.38	95.00	5916.46	-1.52	17.40	17.47	17.47	95.00	57.29
5930.00	40.10	95.00	5924.42	-2.05	23.42	23.51	23.51	95.00	57.29
5940.00	45.83	95.00	5931.74	-2.64	30.21	30.33	30.33	95.00	57.29
5950.00	51.56	95.00	5938.33	-3.30	37.69	37.84	37.84	95.00	57.29

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
5960.00	57.29	95.00	5944.15	-4.01	45.79	45.97	45.97	95.00	57.29
5970.00	63.02	95.00	5949.12	-4.76	54.43	54.64	54.64	95.00	57.29
5980.00	68.75	95.00	5953.21	-5.56	63.52	63.76	63.76	95.00	57.29
5990.00	74.48	95.00	5956.36	-6.38	72.97	73.25	73.25	95.00	57.29
6000.00	80.21	95.00	5958.55	-7.23	82.68	83.00	83.00	95.00	57.29
6010.00	85.94	95.00	5959.76	-8.10	92.57	92.92	92.92	95.00	57.29
EOC @ 6016' MD, 5960' TVD, 89.4° INC, 99' VS									
6015.99	89.36	95.00	5960.00	-8.62	98.53	98.91	98.91	95.00	57.05
6016.06	89.36	95.00	5960.00	-8.63	98.60	98.98	98.98	95.00	11.99
6116.06	89.36	95.00	5961.11	-17.34	198.21	198.97	198.97	95.00	.00
6216.06	89.36	95.00	5962.22	-26.06	297.83	298.97	298.97	95.00	.00
6316.06	89.36	95.00	5963.33	-34.77	397.44	398.96	398.96	95.00	.00
6416.06	89.36	95.00	5964.44	-43.49	497.05	498.95	498.95	95.00	.00
6516.06	89.36	95.00	5965.55	-52.20	596.67	598.95	598.95	95.00	.00
6616.06	89.36	95.00	5966.66	-60.92	696.28	698.94	698.94	95.00	.00
6716.06	89.36	95.00	5967.77	-69.63	795.89	798.93	798.93	95.00	.00
6816.06	89.36	95.00	5968.88	-78.35	895.51	898.93	898.93	95.00	.00
6916.06	89.36	95.00	5969.99	-87.06	995.12	998.92	998.92	95.00	.00
6917.14	89.36	95.00	5970.00	-87.16	996.19	1000.00	1000.00	95.00	.00
6929.84	87.84	95.00	5970.31	-88.26	1008.84	1012.69	1012.69	95.00	12.00
7029.84	87.84	95.00	5974.08	-96.97	1108.39	1112.62	1112.62	95.00	.00
7129.84	87.84	95.00	5977.85	-105.68	1207.94	1212.55	1212.55	95.00	.00
7229.84	87.84	95.00	5981.62	-114.39	1307.49	1312.48	1312.48	95.00	.00
7329.84	87.84	95.00	5985.38	-123.10	1407.04	1412.41	1412.41	95.00	.00
7429.84	87.84	95.00	5989.15	-131.81	1506.58	1512.34	1512.34	95.00	.00
7529.84	87.84	95.00	5992.92	-140.52	1606.13	1612.27	1612.27	95.00	.00
7629.84	87.84	95.00	5996.69	-149.23	1705.68	1712.20	1712.20	95.00	.00
TD @ 7718' MD, 6000' TVD, 87.8° INC, 1800' VS									
7717.70	87.84	95.00	6000.00	-156.88	1793.15	1800.00	1800.00	95.00	.00

Company: TEXACO E&P
Lease/Well: VGWU #72
Location: LEA COUNTY
Rig Name: YALE E. KEY #119
State/Country: NEW MEXICO
Declination: 9.11603

Grid: D:\DATA\TEXACO~1\VGWU\VGWU_72\VGWU_72.SVY
File name: D:\DATA\TEXACO~1\VGWU\VGWU_72\VGWU_72.SVY
Date/Time: 23-Mar-98 / 15:58



CRITICAL POINTS				
MD	INC	AZM	TVD	R-W
KOP @ 5860'	TVD, BEGIN 57.3°/100' BR	95	5860.00	.00
EOC @ 6016'	MD, 5960' TVD, 89.4° INC, 99' VS	95	5960.00	.00
TD @ 7718'	MD, 6000' TVD, 87.8° INC, 1800' VS	95	6000.00	1793.15