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	2 OGRID Number
TEXACO EXPLORATION & PRODUCTION INC. 205 E. Bender, HOBBS, NM 88240	022351 3 API Number 30 025 32270

4 Property Code	5 Property Name	6 Well No.
11125	VACUUM GLORIETA WEST UNIT	70

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
G	35	17S	34E		2008	NORTH	1668	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
J	35	17S	34E		1832	South	1568	East	Lea

9 Proposed Pool 1	10 Proposed Pool 2
Vacuum Glorieta (unitized interval)	

11 Work Type Code	12 WellType Code	13 Rotary or C.T.	14 Lease Type Code	15 Ground Level Elevation
P	O	R	S	GR-4012', KB-4026'
16 Multiple	**17 Proposed Depth**	**18 Formation**	**19 Contractor**	**20 Spud Date**
No	6000 TVD	Upper Paddock	Unknown	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
11"	8 5/8"		1520'	650 SX, CIRC 210 SX	
7 7/8"	5 1/2"		6320'	1950 SX, CIRC 250 SX	

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

Objective: Texaco intends to directionally drill a 1444' horizontal lateral section from the subject existing wellbore.

1. MIRU pulling unit. Set CIBP @ 5880'.
2. Run in hole with whipstock. Run Gyro survey to orient whipstock - whipstock face should have azimuth of 176.7°. Set whipstock on CIBP @ 5880'.
3. Run in hole with starting mill to establish cut in casing (KOP @ 5860'). TOH with starting mill. TIH with watermellon mill, drillpipe, and drill collars. Mill ~10' window.
4. Drill 110' radius build section with EOB @ 5970' TVD.
5. Directionally drill horizontal section 1444' from surface location. TOH with drill equipment.
6. Acid stimulate horizontal section of well with a 29,000 gallon 15% HCL DSP coiled tubing treatment.
7. Run in hole with submersible pumping equipment. Return well to production. Place on test.

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 4 1997 Expiration Date:

Conditions of Approval:
Attached ☐

DeSoto/Nichols 3-94 ver 1.10

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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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Fee Lease - 3 Copies
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
3002532270	62160	VACUUM GLORIETA

4 Property Code	5 Property Name	6 Well No.
11125	VACUUM GLORIETA WEST UNIT	70

7 OGRID Number	8 Operator Name	9 Elevation
022351	TEXACO EXPLORATION & PRODUCTION INC.	GR-4012', KB-4026'

10 Surface Location

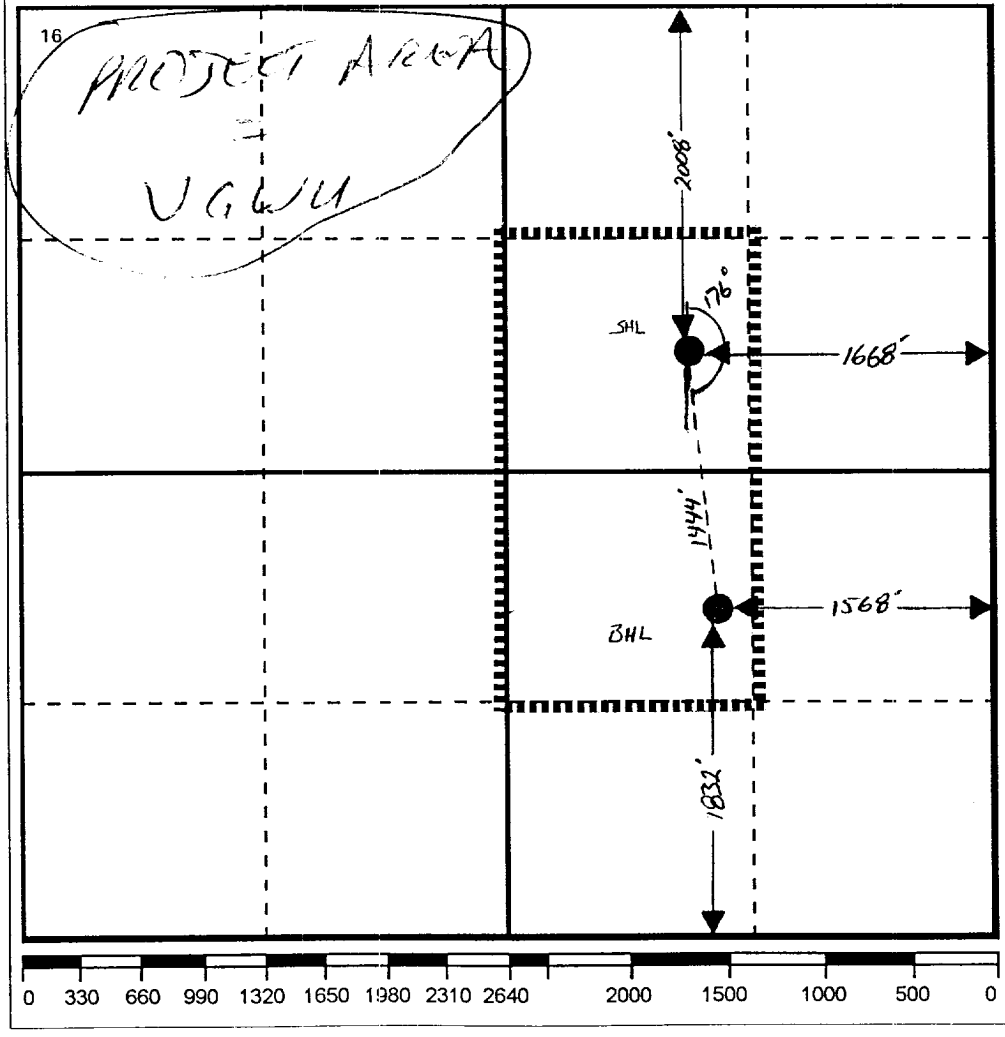
Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
G	35	17S	34E		2008	NORTH	1668	EAST	LEA

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
J	35	17S	34E		1832	South	1568	East	Lea

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
80	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

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.

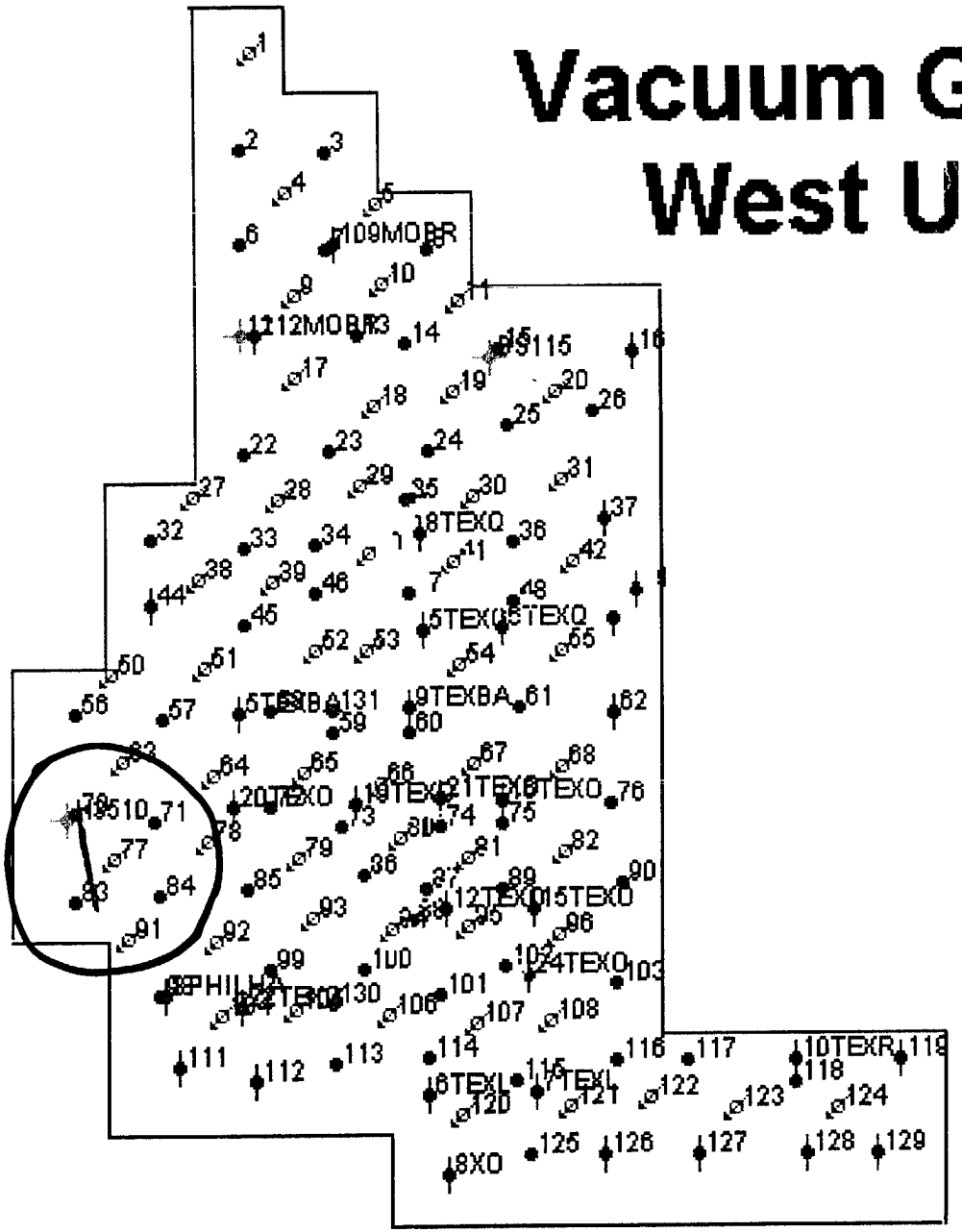
Date Surveyed

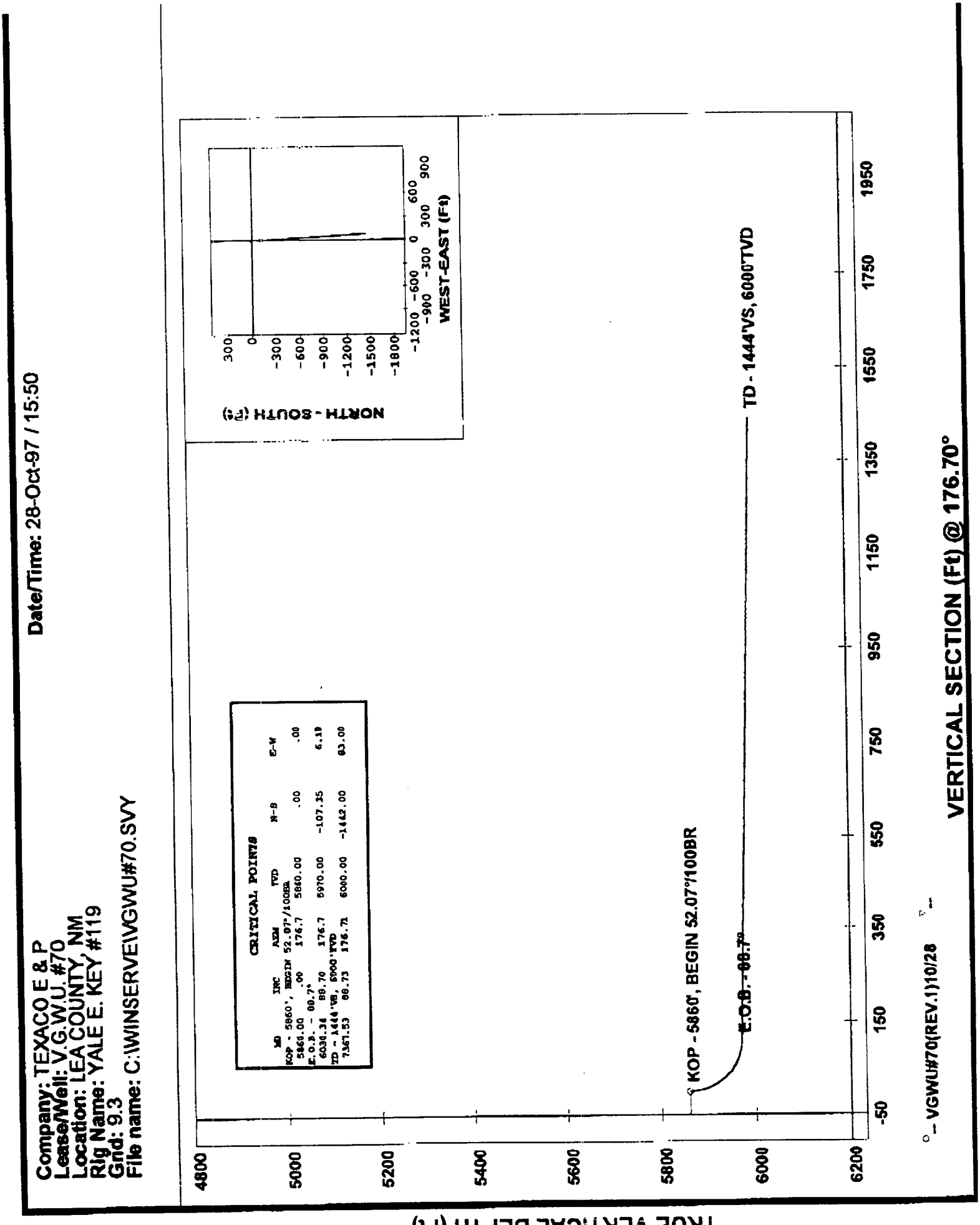
Signature & Seal of Professional Surveyor

Certificate No.

DeSoto/Nichols 3/94 ver 1.10

Vacuum Glorieta West Unit




Company: TEXACO E & P
Lease/Well: V.G.W.U. #70
Location: LEA COUNTY, NM
Rig Name: YALE E. KEY #119
Gnd: 9.3
File name: C:\WINSERVE\VGWU#70.SVY
Date/Time: 28-Oct-97 / 15:50
CRITICAL POINTS
MD INC AZM TVD N-S E-W
KOP - 5860', BEGIN 52.07°/100BR
5860.00 .00 176.7 5860.00 .00 .00
E.O.B. - 88.7°
6030.34 88.70 176.7 5970.00 -107.35 6.19
TD - 1444'VS, 6000'TVD
7361.53 88.73 176.71 6000.00 -1442.00 83.00
NORTH - SOUTH (Ft)
300
0
-300
-600
-900
-1200
-1500
-1800
-1200 -600 0 600
-900 -300 300 900
WEST-EAST (Ft)
KOP - 5860', BEGIN 52.07°/100BR
E.O.B. - 88.7°
TD - 1444'VS, 6000'TVD
4800
5000
5200
5400
5600
5800
6000
6200
-50 150 350 550 750 950 1150 1350 1550 1750 1950
TRUE VERTICAL DEPTH (Ft)
VERTICAL SECTION (Ft) @ 176.70°
VGWU#70(REV.1)10/28

Job Number:
Company: TEXACO E & P
Lease/Well: V.G.W.U. #70
Location: LEA COUNTY, NM
Rig Name: YALE E. KEY #119
RKB:
G.L. or M.S.L.:

State/Country: NM, USA
Declination:
Grid: 9.3
File name: C:\WINSERVE\VGWU#70.SVY
Date/Time: 28-Oct-97 / 15:50
Curve Name: VGWU#70(REV.1)10/28

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 176.70

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
KOP - 5860', BEGIN 52.07°/100BR										
5860.00	.00	176.70	5860.00	-5860.00	.00	.00	.00	.00	.00	.00
5870.00	5.21	176.70	5869.99	-5869.99	-.45	.03	.45	.45	176.70	52.07
5880.00	10.41	176.70	5879.89	-5879.89	-1.81	.10	1.81	1.81	176.70	52.07
5890.00	15.62	176.70	5889.63	-5889.63	-4.06	.23	4.06	4.06	176.70	52.07
5900.00	20.83	176.70	5899.12	-5899.12	-7.18	.41	7.19	7.19	176.70	52.07
5910.00	26.04	176.70	5908.30	-5908.30	-11.15	.64	11.17	11.17	176.70	52.07
5920.00	31.24	176.70	5917.07	-5917.07	-15.93	.92	15.96	15.96	176.70	52.07
5930.00	36.45	176.70	5925.37	-5925.37	-21.49	1.24	21.53	21.53	176.70	52.07
5940.00	41.66	176.70	5933.14	-5933.14	-27.78	1.60	27.82	27.82	176.70	52.07
5950.00	46.87	176.70	5940.29	-5940.29	-34.74	2.00	34.80	34.80	176.70	52.07
5960.00	52.07	176.70	5946.79	-5946.79	-42.33	2.44	42.40	42.40	176.70	52.07

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
5970.00	57.28	176.70	5952.57	-5952.57	-50.47	2.91	50.56	50.56	176.70	52.07
5980.00	62.49	176.70	5957.59	-5957.59	-59.10	3.41	59.20	59.20	176.70	52.07
5990.00	67.70	176.70	5961.80	-5961.80	-68.16	3.93	68.27	68.27	176.70	52.07
6000.00	72.90	176.70	5965.17	-5965.17	-77.55	4.47	77.68	77.68	176.70	52.07
6010.00	78.11	176.70	5967.67	-5967.67	-87.21	5.03	87.36	87.36	176.70	52.07
6020.00	83.32	176.70	5969.28	-5969.28	-97.06	5.60	97.22	97.22	176.70	52.07
6030.00	88.52	176.70	5969.99	-5969.99	-107.02	6.17	107.20	107.20	176.70	52.07
E.O.B. - 88.7°										
6030.34	88.70	176.70	5970.00	-5970.00	-107.35	6.19	107.53	107.53	176.70	52.07
6060.34	88.70	176.70	5970.68	-5970.68	-137.30	7.92	137.53	137.53	176.70	.00
6090.34	88.70	176.70	5971.36	-5971.36	-167.24	9.64	167.52	167.52	176.70	.00
6120.34	88.70	176.70	5972.04	-5972.04	-197.18	11.37	197.51	197.51	176.70	.00
6150.34	88.70	176.70	5972.72	-5972.72	-227.12	13.09	227.50	227.50	176.70	.00
6180.34	88.70	176.70	5973.40	-5973.40	-257.07	14.82	257.49	257.49	176.70	.00
6210.34	88.70	176.70	5974.08	-5974.08	-287.01	16.55	287.49	287.49	176.70	.00
6240.34	88.70	176.70	5974.76	-5974.76	-316.95	18.27	317.48	317.48	176.70	.00
6270.34	88.71	176.70	5975.43	-5975.43	-346.90	20.00	347.47	347.47	176.70	.00
6300.34	88.71	176.70	5976.11	-5976.11	-376.84	21.72	377.46	377.46	176.70	.00
6330.34	88.71	176.70	5976.79	-5976.79	-406.78	23.45	407.46	407.46	176.70	.00
6360.34	88.71	176.70	5977.47	-5977.47	-436.72	25.17	437.45	437.45	176.70	.00
6390.34	88.71	176.70	5978.14	-5978.14	-466.67	26.90	467.44	467.44	176.70	.00
6420.34	88.71	176.70	5978.82	-5978.82	-496.61	28.62	497.43	497.43	176.70	.00
6450.34	88.71	176.70	5979.50	-5979.50	-526.55	30.35	527.43	527.43	176.70	.00
6480.34	88.71	176.70	5980.17	-5980.17	-556.49	32.07	557.42	557.42	176.70	.00
6510.34	88.71	176.70	5980.85	-5980.85	-586.44	33.80	587.41	587.41	176.70	.00
6540.34	88.71	176.70	5981.52	-5981.52	-616.38	35.52	617.40	617.40	176.70	.00
6570.34	88.71	176.71	5982.20	-5982.20	-646.32	37.24	647.40	647.40	176.70	.00
6600.34	88.71	176.71	5982.87	-5982.87	-676.27	38.97	677.39	677.39	176.70	.00
6630.34	88.71	176.71	5983.55	-5983.55	-706.21	40.69	707.38	707.38	176.70	.00
6660.34	88.71	176.71	5984.22	-5984.22	-736.15	42.41	737.37	737.37	176.70	.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
6690.34	88.71	176.71	5984.89	-5984.89	-766.09	44.14	767.36	767.36	176.70	.00
6720.34	88.71	176.71	5985.57	-5985.57	-796.04	45.86	797.36	797.36	176.70	.00
6750.34	88.72	176.71	5986.24	-5986.24	-825.98	47.58	827.35	827.35	176.70	.00
6780.34	88.72	176.71	5986.91	-5986.91	-855.92	49.31	857.34	857.34	176.70	.00
6810.34	88.72	176.71	5987.58	-5987.58	-885.87	51.03	887.33	887.33	176.70	.00
6840.34	88.72	176.71	5988.25	-5988.25	-915.81	52.75	917.33	917.33	176.70	.00
6870.34	88.72	176.71	5988.92	-5988.92	-945.75	54.47	947.32	947.32	176.70	.00
6900.34	88.72	176.71	5989.60	-5989.60	-975.70	56.20	977.31	977.31	176.70	.00
6930.34	88.72	176.71	5990.27	-5990.27	-1005.64	57.92	1007.30	1007.30	176.70	.00
6960.34	88.72	176.71	5990.94	-5990.94	-1035.58	59.64	1037.30	1037.30	176.70	.00
6990.34	88.72	176.71	5991.61	-5991.61	-1065.52	61.36	1067.29	1067.29	176.70	.00
7020.34	88.72	176.71	5992.28	-5992.28	-1095.47	63.08	1097.28	1097.28	176.70	.00
7050.34	88.72	176.71	5992.95	-5992.95	-1125.41	64.81	1127.27	1127.27	176.70	.00
7080.34	88.72	176.71	5993.61	-5993.61	-1155.35	66.53	1157.27	1157.27	176.70	.00
7110.34	88.72	176.71	5994.28	-5994.28	-1185.30	68.25	1187.26	1187.26	176.70	.00
7140.34	88.72	176.71	5994.95	-5994.95	-1215.24	69.97	1217.25	1217.25	176.70	.00
7170.34	88.72	176.71	5995.62	-5995.62	-1245.18	71.69	1247.25	1247.25	176.70	.00
7200.34	88.73	176.71	5996.29	-5996.29	-1275.13	73.41	1277.24	1277.24	176.70	.00
7230.34	88.73	176.71	5996.95	-5996.95	-1305.07	75.13	1307.23	1307.23	176.71	.00
7260.34	88.73	176.71	5997.62	-5997.62	-1335.01	76.85	1337.22	1337.22	176.71	.00
7290.34	88.73	176.71	5998.29	-5998.29	-1364.96	78.57	1367.22	1367.22	176.71	.00
7320.34	88.73	176.71	5998.95	-5998.95	-1394.90	80.29	1397.21	1397.21	176.71	.00
7350.34	88.73	176.71	5999.62	-5999.62	-1424.84	82.01	1427.20	1427.20	176.71	.00
TD - 1444'VS, 6000'TVD										
7367.53	88.73	176.71	6000.00	-6000.00	-1442.00	83.00	1444.39	1444.39	176.71	.00