

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 011125	⁵ Property Name VACUUM GLORIETA WEST UNIT	³ API Number 30-025-31841
		⁶ Well No. 94

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
J	36	17S	34E		1525	SOUTH	2591	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/O	36/36	17S/17S	34E/34E		2116'/725'	S/S	2487'/2384'	E/E	LEA/LEA
⁹ Proposed Pool 1 Vacuum Glorieta unitized interval					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3994' GR
¹⁶ Multiple No	¹⁷ Proposed Depth 5930' TVD	¹⁸ Formation Paddock	¹⁹ Contractor Unknown	²⁰ Spud Date 8/19/98

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 intends to drill dual lateral horizontal intervals from the existing vertical injection well.

1. Blow down injection well and kill if necessary. Lay down injection tubing and packer. Run in hole with permanent packer and set @ 5833'. TIH with latch and re-entry whipstock (window will be from 5819'-5826'). KOP = 5830'. Drill short radius curve using a 4-3/4" drill bit to a MD of 5988' and TVD of 5930'.

2. Drill a 600' horizontal lateral interval with azimuth of 3 degrees.

3. Retrieve whipstock. TIH with a latch, space out assembly, and another whipstock (window will be from 5779'-5786'). KOP = 5790'.

4. Drill a 600' horizontal lateral interval with azimuth of 3 degrees.

5. Drill a 800' horizontal lateral interval with azimuth of 169 degrees.

6. TOH with drilling equipment.

7. Rig up coiled tubing unit. Acid stimulate horizontal lateral with 15% HCL.

8. Return well to production and place 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.

Signature

Darrell J. Carriger

Printed Name

Darrell J. Carriger

Title Prod. Engineer

Date 4/27/98

Telephone

397-0426

OIL CONSERVATION DIVISION

ORIGINAL SIGNED BY CHRIS WILLIAMS

Approved By:

Title:

Approval Date:

APR 30 1998

Expiration Date:

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

Instructions on back
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Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

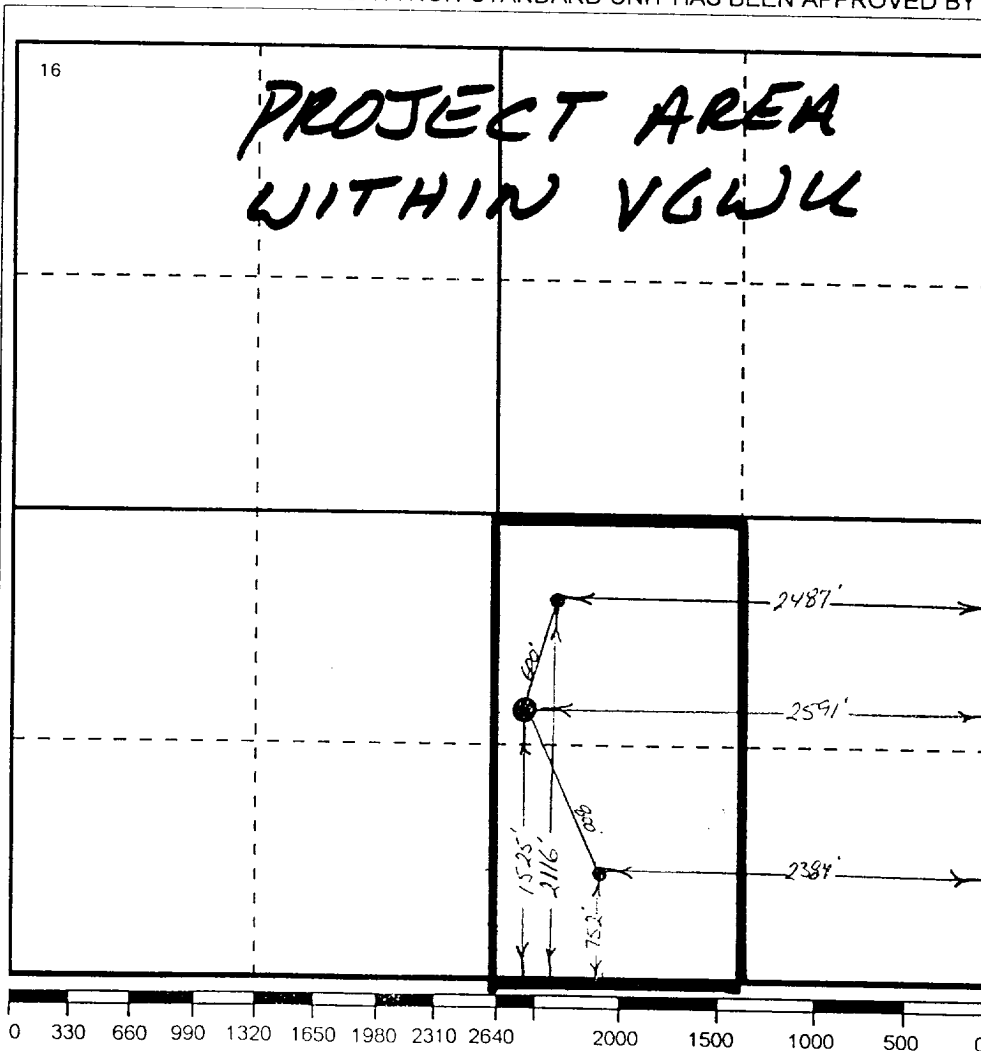
¹ API Number 30-025-31841		² Pool Code 62160		³ Pool Name VACUUM GLORIETA	
⁴ Property Code 011125		⁵ Property Name VACUUM GLORIETA WEST UNIT			⁵ Well No. 94
⁷ OGRID Number 022351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.			⁹ Elevation 3994' GR

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
J	36	17S	34E		1525	SOUTH	2591	EAST	LEA

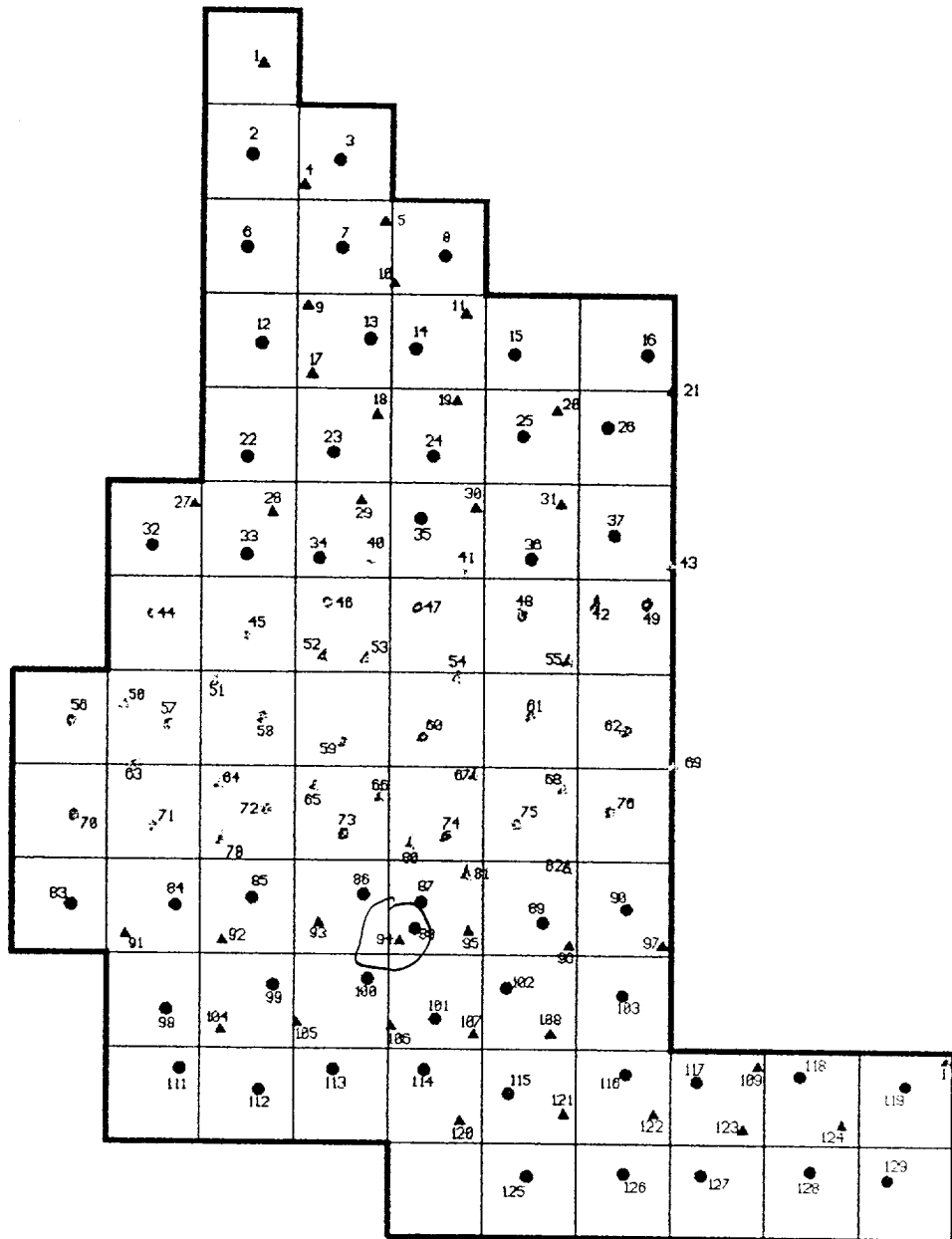
¹¹ Bottom Hole Location If Different From Surface

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
J/O	36/36	17S/17S	34E/34E		2116'/725'	S/S	2487'/2384'	E/E	LEA/LEA
¹² Dedicated Acres 80		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 #94
 Location: LEA COUNTY
 Rig Name: YALE E. KEY #119
 RKB:
 G.L. or M.S.L.:

State/Country: NEW MEXICO
 Declination: 9:11368
 Grid:
 File name: D:\DATA\TEXACO-1\VGWU\VGWU_94\VGWU94.SVY
 Date/Time: 18-Mar-98 / 16:31
 Curve Name: NORTHEAST (LOWER) LATERAL (REV.1) - 3/18/98

PHOENIX DRILLING SERVICES, INC.

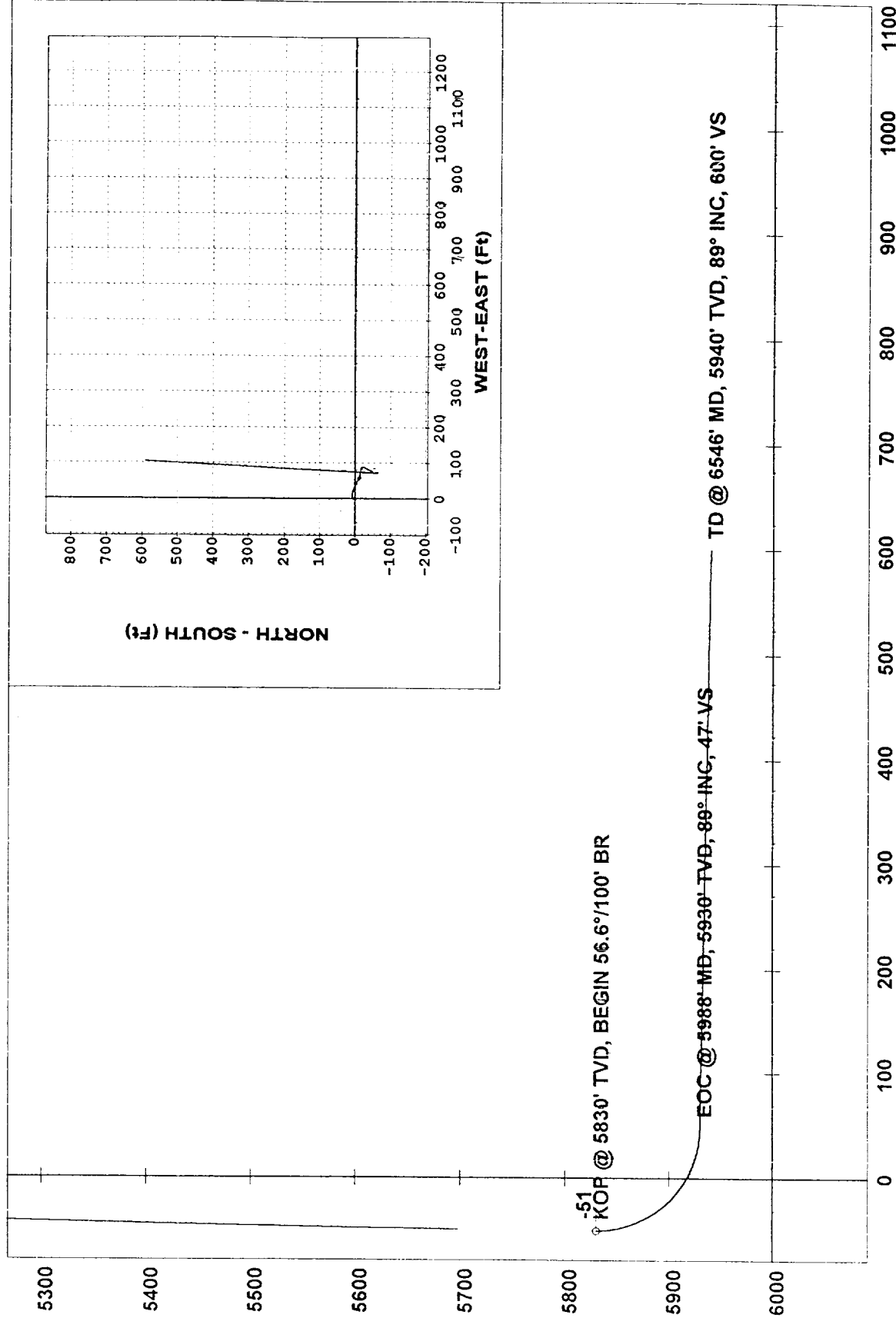
WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
 Vertical Section Plane 10.00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

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 @ 5830' TVD, BEGIN 56.6"/100' BR									
5832.50	73	2.82	5830.12	-64.83	71.88	-51.36	96.80	132.05	.00
5842.50	6.39	2.82	5840.10	-64.21	71.91	-50.75	96.41	131.76	56.62
5852.50	12.05	2.82	5849.96	-62.61	71.99	-49.16	95.41	131.01	56.62
5862.50	17.72	2.82	5859.62	-60.04	72.12	-46.61	93.84	129.78	56.62
5872.50	23.38	2.82	5868.98	-56.54	72.29	-43.13	91.77	128.03	56.62
5882.50	29.04	2.82	5877.95	-52.13	72.51	-38.75	89.30	125.72	56.62
5892.50	34.70	2.82	5886.44	-46.86	72.77	-33.51	86.55	122.78	56.62
5902.50	40.37	2.82	5894.37	-40.78	73.06	-27.47	83.67	119.17	56.62
5912.50	46.03	2.82	5901.65	-33.94	73.40	-20.68	80.87	114.82	56.62
5922.50	51.69	2.82	5908.23	-26.42	73.77	-13.21	78.36	109.71	56.62

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
5932.50	57.35	2.82	5914.03	-18.29	74.17	-5.14	76.39	103.85	56.62
5942.50	63.02	2.82	5919.00	-9.63	74.60	3.47	75.22	97.36	56.62
5952.50	68.68	2.82	5923.09	-52	75.05	12.52	75.05	90.40	56.62
5962.50	74.34	2.82	5926.26	8.95	75.51	21.92	76.04	83.24	56.62
5972.50	80.00	2.82	5928.48	18.68	75.99	31.59	78.26	76.19	56.62
5982.50	85.67	2.82	5929.73	28.59	76.48	41.43	81.65	69.50	56.62
EOC @ 5988' MD, 5930' TVD, 89° INC, 47' VS									
5988.35	88.97	2.82	5930.00	34.43	76.77	47.23	84.13	65.85	56.49
6088.35	88.97	2.82	5931.80	134.29	81.69	146.43	157.18	31.31	.00
6188.35	88.97	2.82	5933.59	234.15	86.61	245.63	249.66	20.30	.00
6288.35	88.97	2.82	5935.38	334.01	91.53	344.83	346.33	15.32	.00
6388.35	88.97	2.82	5937.18	433.88	96.45	444.03	444.47	12.53	.00
6488.35	88.97	2.82	5938.97	533.74	101.37	543.23	543.28	10.75	.00
TD @ 6546' MD, 5940' TVD, 89° INC, 600' VS									
6545.58	88.97	2.82	5940.00	590.88	104.19	600.00	600.00	10.00	.00

Company: TEXACO E&P
Lease/Well: VGWUJ #94
Location: LEA COUNTY
Rig Name: YALE E. KEY #119
State/Country: NEW MEXICO
Declination: 9.11368

Grid:
File name: D:\DATA\TEXACO~1\VGWUJ\VGWIJ_94\VGWU94.SVY
Date/Time: 18-Mar-98 / 16:24



° -- NORTHEAST (LOWER) LATERAL (REV.1) - 3/18/98 ^ -- GYRODATA GYRO SURVEYS
VERTICAL SECTION (Ft) @ 10.00°



Job Number:

Company: TEXACO E&P

LeaseWell: VGWU #94

Location: LEA COUNTY

Rig Name: YALE E. KEY #119

RKB:

G.L. or M.S.L.:

State/Country: NEW MEXICO

Declination: 9.11368

Grid:

File name: D:\DATA\TEXACO-1\VGWU\GWU_94\VGWU94.SVY

Date/Time: 18-Mar-98 / 15:27

Curve Name: SOUTHEAST (UPPER) LATERAL (REV.1)

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 165.00

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

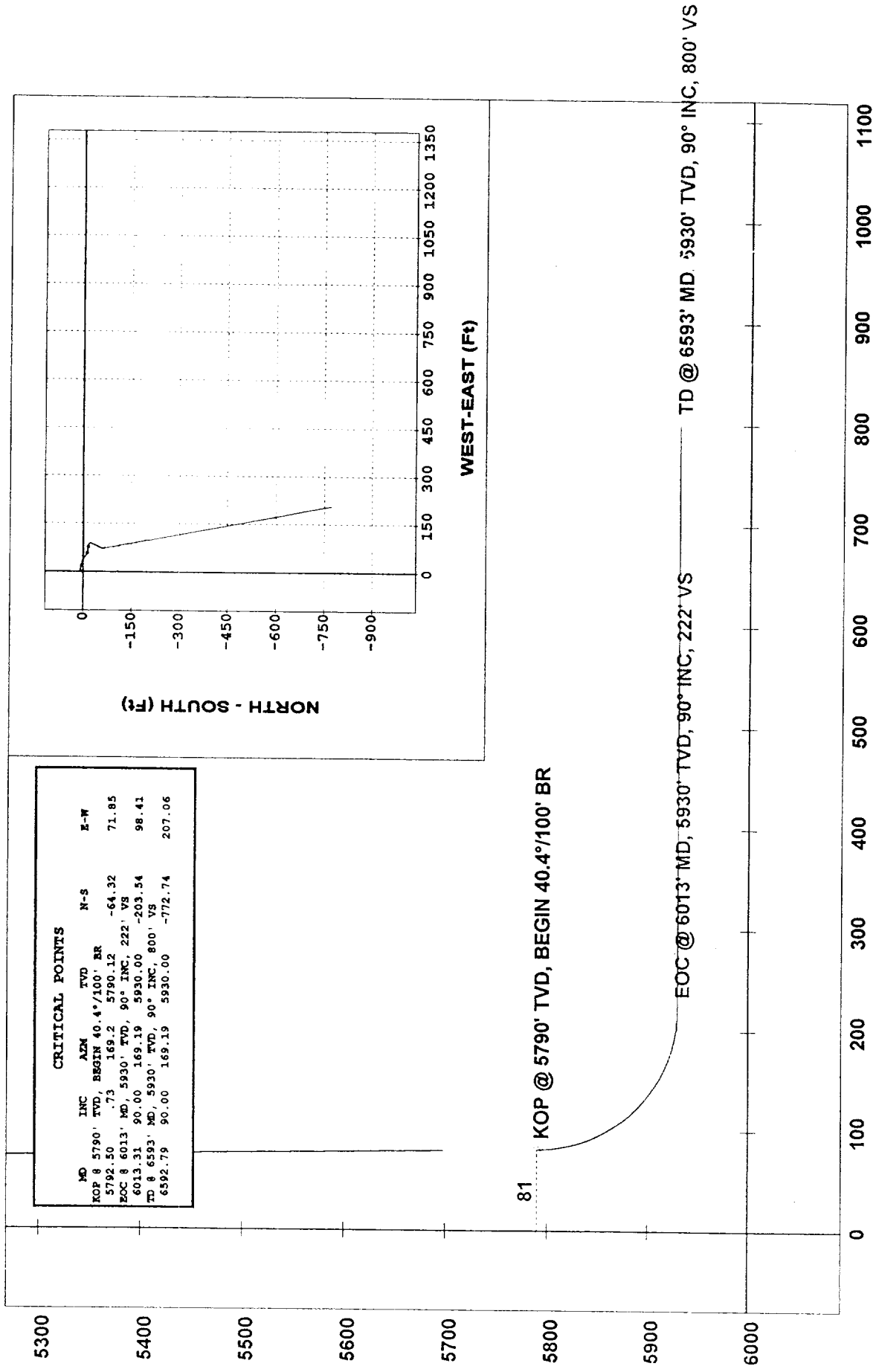
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
5792.50	.73	169.20	5790.12	-64.32	71.85	80.72	96.43	131.83	.00
5802.50	4.77	169.20	5800.11	-64.79	71.94	81.20	96.82	132.01	40.44
5812.50	8.82	169.20	5810.03	-65.95	72.16	82.38	97.76	132.43	40.44
5822.50	12.86	169.20	5819.85	-67.80	72.51	84.26	99.27	133.08	40.44
5832.50	16.91	169.20	5829.52	-70.32	73.00	86.82	101.36	133.93	40.44
5842.50	20.95	169.20	5838.97	-73.51	73.60	90.05	104.02	134.96	40.44
5852.50	24.99	169.20	5848.18	-77.34	74.33	93.95	107.27	136.14	40.44
5862.50	29.04	169.20	5857.09	-81.80	75.18	98.47	111.11	137.41	40.44
5872.50	33.08	169.20	5865.65	-86.87	76.15	103.62	115.52	138.76	40.44
5882.50	37.13	169.20	5873.83	-92.52	77.23	109.35	120.51	140.15	40.44

KOP @ 5790' TVD, BEGIN 40.4°/100' BR

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
5892.50	41.17	169.20	5881.58	-98.72	78.41	115.65	126.07	141.54	40.44
5902.50	45.21	169.20	5888.87	-105.44	79.69	122.47	132.17	142.92	40.44
5912.50	49.26	169.20	5895.66	-112.65	81.07	129.79	138.79	144.26	40.44
5922.50	53.30	169.20	5901.91	-120.31	82.53	137.57	145.90	145.55	40.44
5932.50	57.34	169.20	5907.60	-128.39	84.07	145.77	153.46	146.78	40.44
5942.50	61.39	169.20	5912.70	-136.84	85.68	154.35	161.45	147.95	40.44
5952.50	65.43	169.20	5917.17	-145.62	87.36	163.27	169.81	149.04	40.44
5962.50	69.48	169.20	5921.01	-154.69	89.09	172.48	178.51	150.06	40.44
5972.50	73.52	169.20	5924.18	-164.00	90.87	181.93	187.49	151.01	40.44
5982.50	77.56	169.20	5926.67	-173.51	92.68	191.59	196.71	151.89	40.44
5992.50	81.61	169.20	5928.48	-183.17	94.52	201.39	206.12	152.70	40.44
6002.50	85.65	169.20	5929.59	-192.93	96.38	211.30	215.67	153.45	40.44
6012.50	89.70	169.20	5930.00	-202.74	98.26	221.27	225.30	154.14	40.44
EOC @ 6013' MD, 5930' TVD, 90° INC, 222' VS									
6013.31	90.00	169.19	5930.00	-203.54	98.41	222.07	226.08	154.20	37.73
6113.31	90.00	169.19	5930.00	-301.76	117.16	321.80	323.71	158.78	.00
6213.31	90.00	169.19	5930.00	-399.99	135.91	421.54	422.45	161.23	.00
6313.31	90.00	169.19	5930.00	-498.22	154.65	521.27	521.67	162.75	.00
6413.31	90.00	169.19	5930.00	-596.44	173.40	621.00	621.14	163.79	.00
6513.31	90.00	169.19	5930.00	-694.67	192.15	720.73	720.76	164.54	.00
TD @ 6593' MD, 5930' TVD, 90° INC, 800' VS									
6592.79	90.00	169.19	5930.00	-772.74	207.06	800.00	800.00	165.00	.00

Company: TEXACO E&P
 Lease/Well: VGWU #94
 Location: LEA COUNTY
 Rig Name: YALE E. KEY #119
 State/Country: NEW MEXICO
 Declination: 9.11368

Grid:
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 Date/Time: 18-Mar-98 / 15:27



DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.	30-025-31841
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil / Gas Lease No.	B-155-6
7. Lease Name or Unit Agreement Name	VACUUM GLORIETA WEST UNIT
8. Well No.	94
9. Pool Name or Wildcat	VACUUM GLORIETA
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3994' GR	

SUNDRY NOTICES AND REPORTS ON WELL
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER INJECTION

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

3. Address of Operator
205 E. Bender, HOBBS, NM 88240

4. Well Location
Unit Letter J : 1525 Feet From The SOUTH Line and 2591 Feet From The EAST Line
Section 36 Township 17S Range 34E NMPM LEA COUNTY

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐
COMMENCE DRILLING OPERATION ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

10-25-97: MIRU.
10-27-97: BLED DN INTO VAC TRUCK. NDBOP. NUWH. REL PKR. TIH W/RBP ON TBG & SET 5790'. PULL 1 JT & CIRC HLE W/FW.
10-28-97: TIH W/SN & WS TO 2022'. RU & SWAB WELL DN TO 1900'.
11-22-97: RAN RETR TOOL & PU 188 JTS INJ TBG. LATCH ONTO RBP @ 5790'. REL RBP. (LOST RBP). RAN ABACK W/RETR TOOL. LATCH ONTO RBP @ 5872'. PULL RBP TO 4853'.
11-23-97: RAN PKR ON INJ TBG. PSA 5798'. REM BOP. INSTL TBG HEAD. PRESS TEST ANNULAS TO 540 PSI FOR 30 MIN-OK.
(CHART SENT IN ON 1-5-98) RD.
12-01-97: ON 24 HR INJ. INJ'G 2342 BWPD @ 1360 PSI.
FINAL REPORT

Chart on
Previous
C103 in
file.

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

SIGNATURE J. Denise Leake TITLE Engineering Assistant

DATE 3/2/98

TYPE OR PRINT NAME J. Denise Leake

Telephone No. 397-0405

(This space for State Use) ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY: