

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

☐ AMENDED REPORT

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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 30206
		⁶ Well No. 88

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		1653	SOUTH	2309	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
O	36	17S	34E		600	South	1787	East	Lea

⁹ Proposed Pool 1

Vacuum Glorieta

¹⁰ Proposed Pool 2

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Rotary or C.T. R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3994'
¹⁶ Multiple No	¹⁷ Proposed Depth 5930 TVD	¹⁸ Formation Glorieta	¹⁹ Contractor Unknown	²⁰ Spud Date 9/23/97

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.

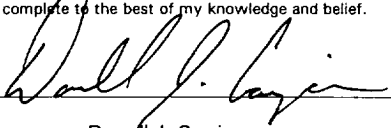
Objective: Texaco intends to drill a 1175' horizontal directional drill 26° East of due South from the VGWU #88, an existing vertical wellbore.

1. MIRU pulling unit. RIH with workstring and 5-1/2" cement retainer. Set cement retainer at ~ 5830'. Cement squeeze existing perforations (6116'-6120', 6094'-6102') with ~200 sacks class "H" cement with additives. Wait on cement.
2. Set Whipback Whipstock on top of retainer. Mill window at ~ 5814'-5826'. Directionally drill short radius curve using a 4-3/4" bit to a measured depth of 5987' and TVD of 5930'.
3. Directionally drill a 1175' lateral horizontal section 26° East of due South. TOH with drill equipment and rig down pulling unit.
4. MIRU coiled tubing unit. Acid treat horizontal lateral section with 24,000 g 15% HCL. Swab back load.
5. Run in hole with production equipment. Return well to production.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
DD Plugback

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



Printed Name

Darrell J. Carriger

Title Prod. Engineer

Date 9/16/97

Telephone 397-0426

OIL CONSERVATION DIVISION

Approved By: ORIGINAL SIGNED BY

GARY WINK
FIELD REP. II

Approval Date: 9/23/97

Expiration Date:

Conditions of Approval:
Attached ☐

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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 30 025 30206	² Pool Code 62160	³ Pool Name VACUUM GLORIETA
⁴ Property Code 11125	⁵ Property Name VACUUM GLORIETA WEST UNIT	
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁶ Well No. 88
		⁹ Elevation

¹⁰ Surface Location

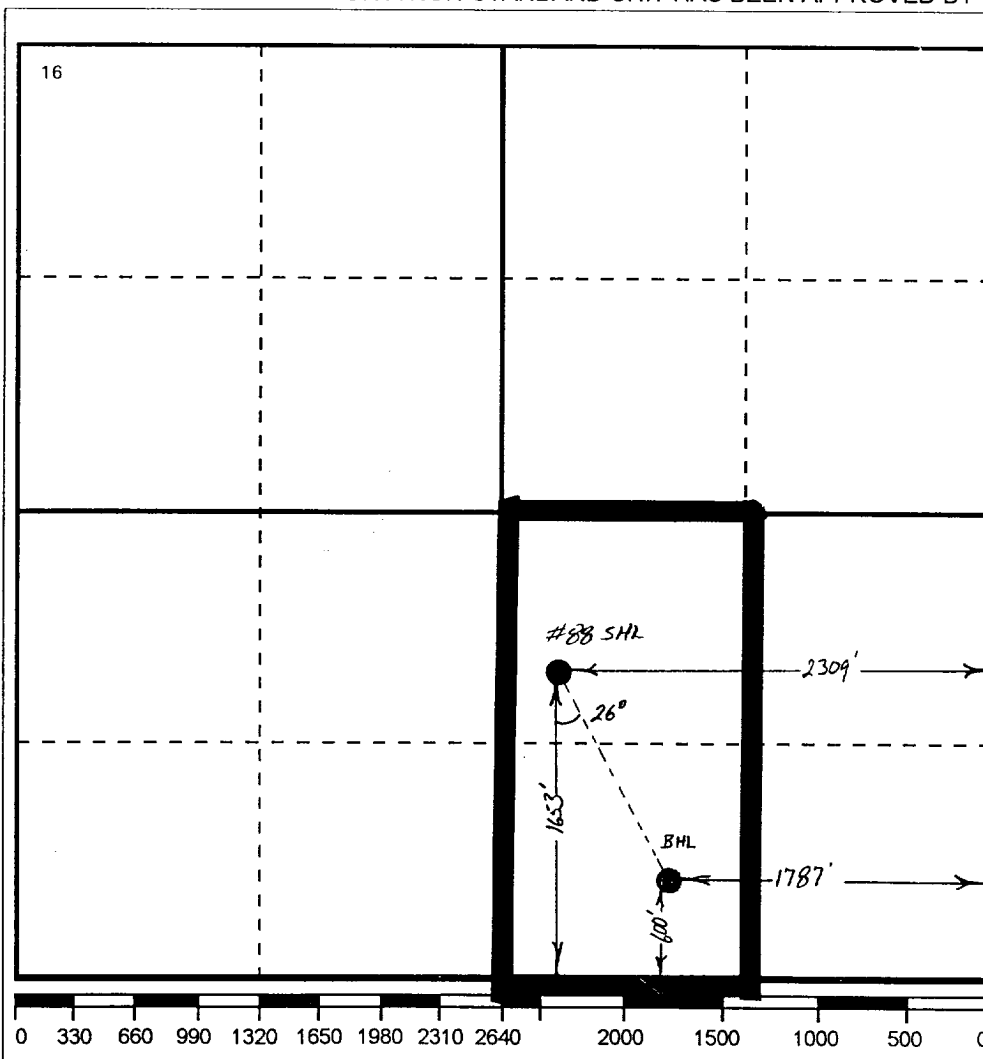
UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
J	36	17S	34E		1653	SOUTH	2309	EAST	LEA

¹¹ 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
O	36	17S	34E		600	South	1787	East	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

9/16/97

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.

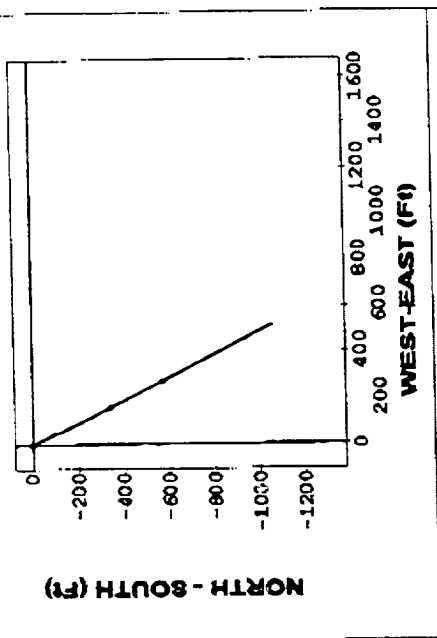
**Job Number:****Company:** TEXACO E & P**Lease/Well:** VGWU #88**Location:** LEA COUNTY, NM**Rig Name:****RKB:****G.L. or M.S.L.:****State/Country:** NV, USA**Declination:** 9.11**Grid:****File name:** C:\WINSERVE\VGWU#88.SVY**Date/Time:** 08-Sep-97 / 14:34**Curve Name:** VGWU#88**PHOENIX DRILLING SERVICES, INC.****WINSERVE SURVEY CALCULATIONS***Minimum Curvature Method**Vertical Section Plane 154.00*

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 - 5830'MD, 57.3°/100' BUILD										
5830.00	.00	154.00	5830.00	-5830.00	.00	.00	.00	.00	.00	.00
5840.00	5.73	154.00	5839.98	-5839.98	-.45	.22	.50	.50	154.00	57.30
5850.00	11.46	154.00	5849.87	-5849.87	-1.79	.87	1.99	1.99	154.00	57.30
5860.00	17.19	154.00	5859.55	-5859.55	-4.01	1.96	4.47	4.47	154.00	57.30
5870.00	22.92	154.00	5868.94	-5868.94	-7.09	3.46	7.89	7.89	154.00	57.30
5880.00	28.65	154.00	5877.94	-5877.94	-11.00	5.37	12.24	12.24	154.00	57.30
5890.00	34.38	154.00	5886.46	-5886.46	-15.70	7.66	17.47	17.47	154.00	57.30
5900.00	40.11	154.00	5894.42	-5894.42	-21.14	10.31	23.52	23.52	154.00	57.30
5910.00	45.84	154.00	5901.74	-5901.74	-27.26	13.30	30.33	30.33	154.00	57.30
5920.00	51.57	154.00	5908.33	-5908.33	-34.01	16.59	37.84	37.84	154.00	57.30
5930.00	57.30	154.00	5914.15	-5914.15	-41.32	20.15	45.97	45.97	154.00	57.30

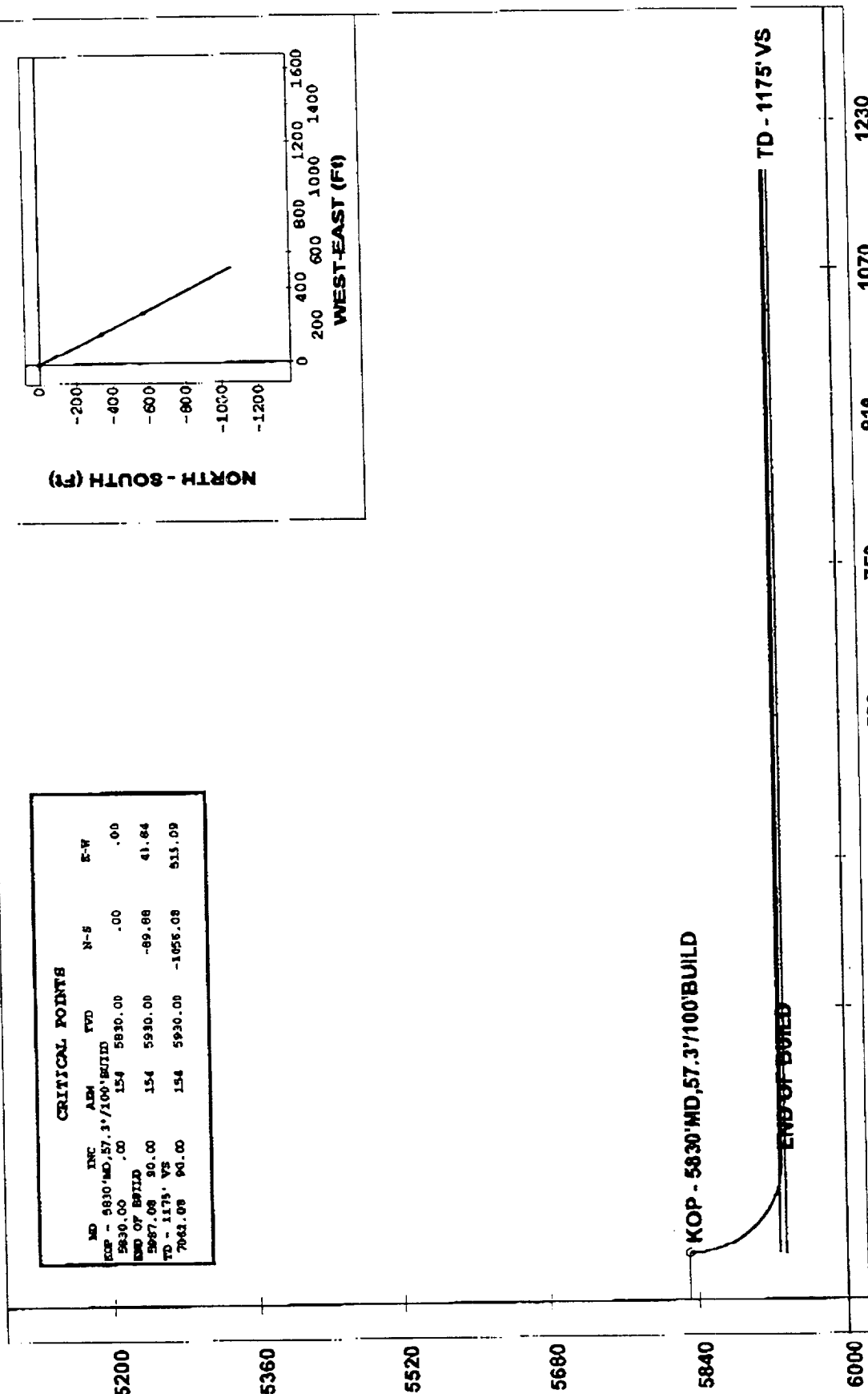
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
5940.00	63.03	154.00	5919.12	-5919.12	-49.11	23.95	54.64	54.64	154.00	57.30
5950.00	68.75	154.00	5923.20	-5923.20	-57.31	27.95	63.76	63.76	154.00	57.30
5960.00	74.48	154.00	5926.36	-5926.36	-65.84	32.11	73.25	73.25	154.00	57.30
5970.00	80.21	154.00	5928.55	-5928.55	-74.60	36.39	83.00	83.00	154.00	57.30
5980.00	85.94	154.00	5929.75	-5929.75	-83.52	40.74	92.93	92.93	154.00	57.30
END OF BUILD										
5987.08	90.00	154.00	5930.00	-5930.00	-89.88	43.84	100.00	100.00	154.00	57.30
6087.08	90.00	154.00	5930.00	-5930.00	-179.76	87.67	200.00	200.00	154.00	.00
6187.08	90.00	154.00	5930.00	-5930.00	-269.64	131.51	300.00	300.00	154.00	.00
6287.08	90.00	154.00	5930.00	-5930.00	-359.52	175.35	400.00	400.00	154.00	.00
6387.08	90.00	154.00	5930.00	-5930.00	-449.40	219.19	500.00	500.00	154.00	.00
6487.08	90.00	154.00	5930.00	-5930.00	-539.28	263.02	600.00	600.00	154.00	.00
6587.08	90.00	154.00	5930.00	-5930.00	-629.16	306.86	700.00	700.00	154.00	.00
6687.08	90.00	154.00	5930.00	-5930.00	-719.04	350.70	800.00	800.00	154.00	.00
6787.08	90.00	154.00	5930.00	-5930.00	-808.91	394.53	900.00	900.00	154.00	.00
6887.08	90.00	154.00	5930.00	-5930.00	-898.79	438.37	1000.00	1000.00	154.00	.00
6987.08	90.00	154.00	5930.00	-5930.00	-988.67	482.21	1100.00	1100.00	154.00	.00
TD - 1175' VS										
7062.08	90.00	154.00	5930.00	-5930.00	-1056.08	515.09	1175.00	1175.00	154.00	.00

Date/Time: Monday, September 08, 1997

Company: TEXACO E & P
 Lease/Well: VGWU#88
 Location: LEA COUNTY, NM
 Rig Name:
 Grd:
 File name: C:\WINSERVE\VGWU#88.SVY

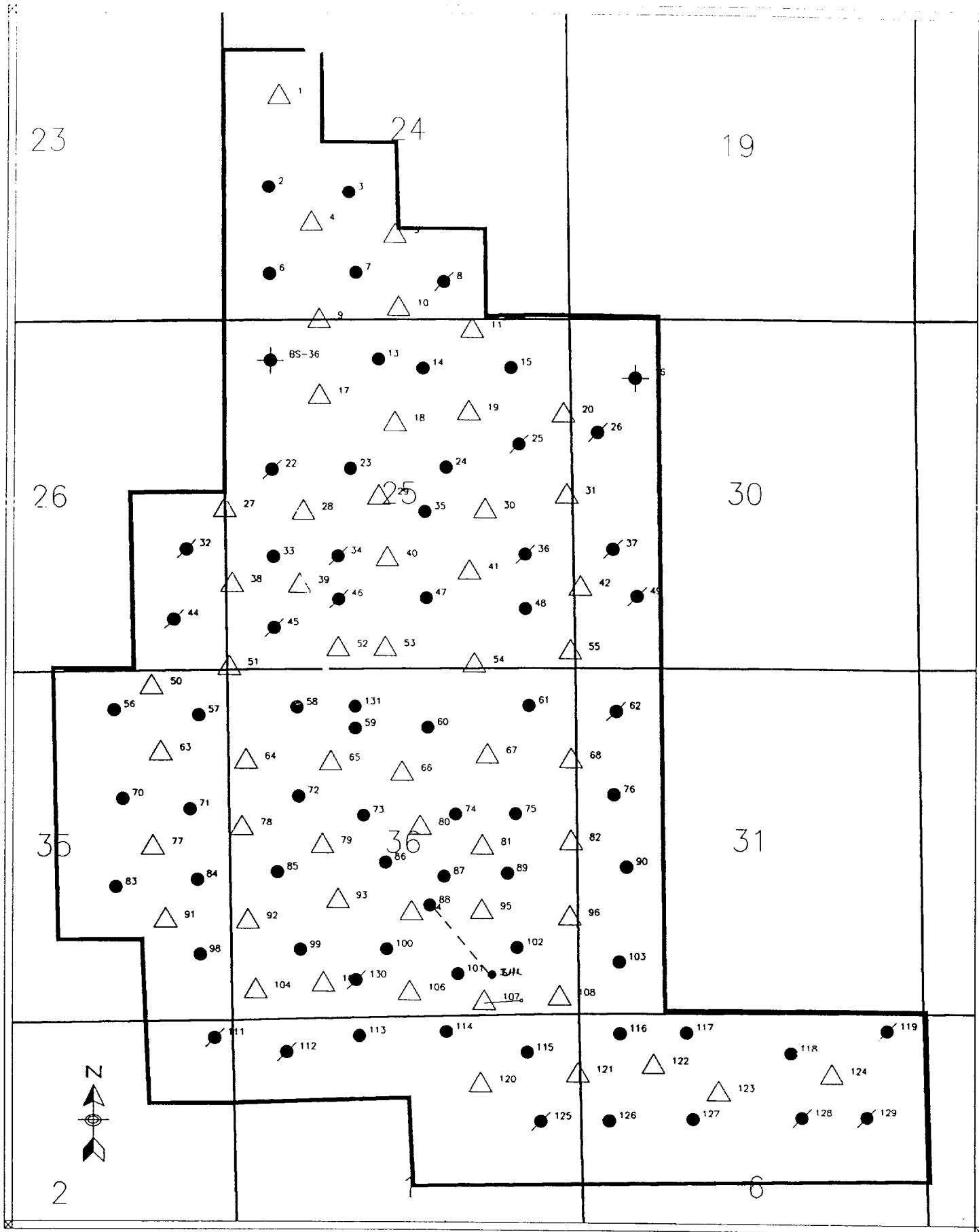


CRITICAL POINTS				
MD	INC	ADH	FWD	N-S
KOP - 5830'	MD, 57.3'	100'	BUILD	
5830.00	.00	154	5830.00	.00
END OF BPTID				
5887.08	90.00	154	5930.00	-89.68
TD - 1175' VS				
7042.08	90.00	154	5930.00	-1056.08
				515.09



○ - VGWU#88

VERTICAL SECTION (Ft) @ 154.00°

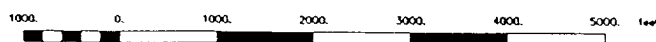


Texaco Exploration & Production, Inc.

VACUUM GLORIETA WEST UNIT
WELL NO. 68 HORIZONTAL PLAN
VACUUM FIELD

1/2/91

Scale 1:24000.



LEGEND

- PRODUCER
- △ INJECTOR
- ◆ PLUGGED
- ⊘ SHUT IN