

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

TEXACO EXPLORATION & PRODUCTION INC.
205 E. Bender, HOBBS, NM 88240

2 OGRID Number
022351

3 API Number
3002523880

4 Property Code
011123

5 Property Name
NORTH VACUUM ABO WEST UNIT

6 Well No.
19

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
J	28	17S	34E		2104	SOUTH	1856	EAST	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
H	28	17S	34E		1990	NORTH	699	EAST	LEA

9 Proposed Pool 1
VACUUM ABO NORTH

10 Proposed Pool 2

11 Work Type Code E	12 WellType Code O	13 Rotary or C.T. ROTARY	14 Lease Type Code S	15 Ground Level Elevation 4062' RKB
16 Multiple No	17 Proposed Depth 10,391'	18 Formation VACUUM ABO NORTH	19 Contractor DAWSON	20 Spud Date 6/1/98

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.

Permit Expires 1 Year from Approval

Date Unless Drilling Otherwise

Horizontal

SEE ATTACHED PROCEDURES

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 J. Denise Leake

Title Engineering Assistant

Date 5/6/98

Telephone 397-0405

OIL CONSERVATION DIVISION

ORIGINAL SIGNED BY

Approved By: GARY WINK

FIELD REP. #

Title:

Approval Date: MAY 19 1998

Expiration Date:

Conditions of Approval:

Attached

OVERVIEW

The North Vacuum Abo West Unit # 19 well was drilled by Aztec Oil & Gas Company in late 1971 as a conventional test of the Abo formation. The well was completed in the Abo formation and potentialized for 188 BOPD, 0 BWPD and 150 MCFD from perforations 8736'-8812'. Successful horizontal laterals have been drilled in the NVA WU #15, #20, # 26, #27, #28, # 30 and # 31 wells. It is proposed to employ this technology on the subject well and drill a +/- 1650 foot horizontal lateral (northeast) in the Abo formation. The basic well plan is as follows:

- a) MIRUSU. TOOH with rods, pump and tubing.
- b) TIH and set a CIBP at +/- 8599'. TIH with a 3 degree bottom set whipstock (top of window +/- 8589', bottom of window +/- 8596').
- c) Drill a short radius curve using a 4-3/4" bit to a measured depth of +/- 8760' (TVD +/- 8721'). The final angle will be 71.8 degrees from vertical.
- d) Drill +/- 1650' horizontal section (northeast).
- e) Acid frac the horizontal lateral in the well. Place well on pump/injection.

LOST IN HOLE INSURANCE FOR THE DOWNHOLE MOTOR AND MWD IS INCLUDED WITH THE DAILY RATE FROM DIAMONDBACK DRILLING.

PROPOSED WORK

PRODUCTION HOLE:

1. TOOH with rods, pump and tubing. TIH with a CIBP and set at +/- 8599' (5-8' above a casing collar). TOOH. TIH with a 3" bottom set retrievable whipstock, starting mill, orientation sub, drill collars and drill pipe. Stop at a point 5-10' above the CIBP and rig up a wireline to run the gyro. Take a gyro reading and determine the direction of the whipstock face. Rotate the pipe as needed to achieve the required direction. Lower the pipe to within one foot of the CIBP and take another gyro reading. Rotate pipe again if needed to achieve the required direction (45 degrees). This step may need to be repeated several times until confidant the whipstock is oriented in the correct direction.
2. Lower the drill pipe to set the whipstock. The weight indicator will jump indicating the lower plunger shear pin is sheared and the whipstock is set. Continue setting down to shear the starting mill bolt. The weight indicator will jump again indicating the bolt is sheared. Milling operations may now commence.
3. Pick up the power swivel and begin circulating. Pick up the drill pipe until the starting mill has cleared the whipstock and start rotation. Lower the drill pipe slowly until the torque gauge suggest the starting mill is contacting the casing. Adjust weight and speed until satisfied with the penetration rate. Mill to a predetermined depth that will assure the setting lug is completely removed and a cutout in the casing has been initiated. TOOH.
4. TIH with the metal muncher window mill, string mill and the watermellon mill. Resume milling operations and mill until the complete assembly has cleared the casing. Pick up and lower the string several times without rotation to assure a good clean window has been obtained. Circulate the hole clean. TOOH.
5. Inspect the mill on the surface. If extreme wear is evident, consideration should be given to repeating the above step.

HORIZONTAL PRODUCTION HOLE:

1. Rig up Diamondback Drilling Company. Adjust plan to target as necessary. Trip in the hole with Diamondback Drilling's curve building assembly. This will be a 4-3/4" insert, 3-3/4" PDM, float sub/orientation combo, 2-flexable monel collars, 2-7/8" 8.7 #/ft P-110 (PH-6) tubing in the horizontal hole and 2-7/8" AOH drill pipe in the vertical hole).
2. Build curve to estimated target depths and angles as follows:

True Vertical Depth	8721'
Measured Depth	8760'
Final Angle	71.8 degrees
Target Azimuth	44.51 degrees
Build Rate	45 degrees/100'

Drill the curve sliding as necessary to stay on target. It is recommended that after each slide, the bit be pulled back and washed through the slide. Once the curve is built, rotate through the curve section noting tight spots and fill. Make at least one short trip prior to tripping out of the hole.

3. Trip in the hole with Diamondback Drilling's lateral assembly. This will be a 4-3/4" insert or PDC bit, 3-3/4" articulated motor, float sub/orientation combo, 2 - flexible monel collars, 2-7/8" 8.7 #/ft P-110 (PH-6) tubing in the horizontal hole and 2-7/8" AOH drill pipe in the vertical hole.
4. Drill +/- 1650' of horizontal hole per the attached Diamondback well plan. **It is highly recommended that a Texaco engineer (Mark Wakefield) be present on location during the drilling of the horizontal section.**
5. Continue drilling the horizontal section per the Texaco Engineer recommendations.
6. Trip out of the hole with the drilling assembly. Set a wireline set, tubing retrievable bridge plug for 5-1/2", 17 #/ft casing at +/- 8000'. Test plug to 1000 psi.
7. Lay down the drill pipe.
8. Nipple down the BOP stack. Install a manual 3000 psig BOP equipped with blind rams and 2-7/8" pipe rams. Release the rig. Rig down and move out rotary tools.

COMPLETION PROCEDURE:

1. Back drag the location and set pulling unit anchors.
2. Move in and rig up a pulling unit.
3. Trip in the hole with a retrieving head on 2-7/8" tubing. Retrieve the plug. Trip out of the hole and lay down the plug. TIH with tubing and ported subs to within 400 foot of the end of the lateral. Use a bent joint to orient into the laterals.
4. Rig up Dowell. Acid frac the horizontal lateral with 100,000 gallons of 15% HCL and gelled water spacers. The acid frac will be done down tubing using ported subs.
5. Flow back immediately. Flow/swab test.
6. Place on pump/injection.

Job Number:
 Company: TEXACO E&P
 Lease/Well: NVAWU #19.
 Location: LEA COUNTY
 Rig Name: ?????
 RKB: 4062
 G.L. or M.S.L.:



State/Country: NEW MEXICO
 Declination:
 Grid:
 File name: D:\DATA\TEXACO~1\NVAWU\NVAWU19\NVAWU19.SVY
 Date/Time: 01-Apr-98 / 09:25
 Curve Name: PROPOSAL (REV.0)

DIAMONDBACK DIRECTIONAL

A BWWC COMPANY

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
 Vertical Section Plane 44:51
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

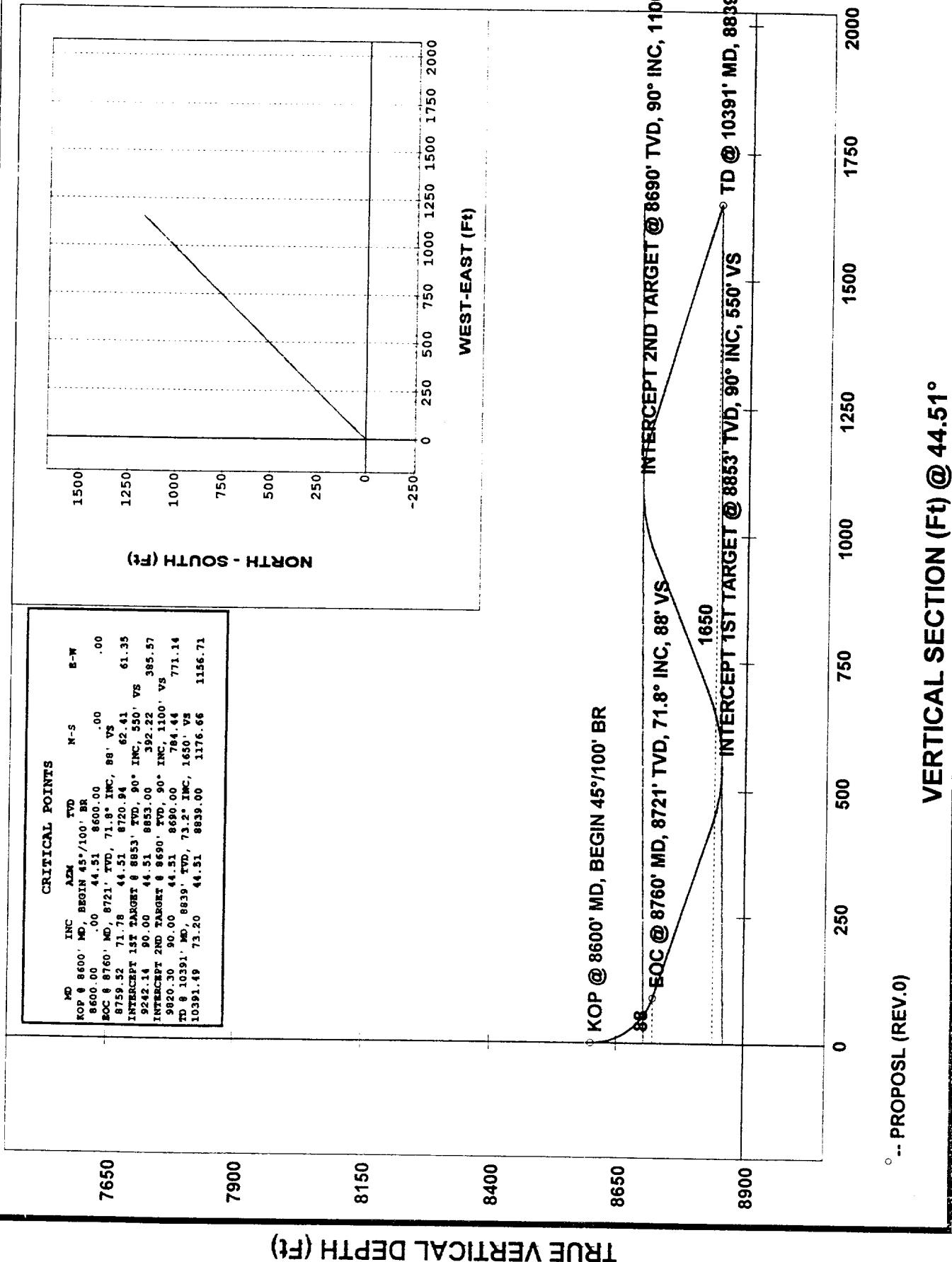
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Dogleg Direction Deg	Dogleg Severity Deg/100
8600.00	.00	44.51	8600.00	-4538.00	.00	.00	.00	.00	.00	.00
8610.00	4.50	44.51	8609.99	-4547.99	.28	.28	.39	.39	44.51	45.00
8620.00	9.00	44.51	8619.92	-4557.92	1.12	1.10	1.57	1.57	44.51	45.00
8630.00	13.50	44.51	8629.72	-4567.72	2.51	2.47	3.52	3.52	44.51	45.00
8640.00	18.00	44.51	8639.35	-4577.35	4.44	4.37	6.23	6.23	44.51	45.00
8650.00	22.50	44.51	8648.72	-4586.72	6.91	6.79	9.69	9.69	44.51	45.00
8660.00	27.00	44.51	8657.80	-4595.80	9.90	9.73	13.88	13.88	44.51	45.00
8670.00	31.50	44.51	8666.53	-4604.53	13.38	13.15	18.76	18.76	44.51	45.00
8680.00	36.00	44.51	8674.84	-4612.84	17.34	17.05	24.32	24.32	44.51	45.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD			N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
				TVD FT						Distance FT	Direction Deg	
8690.00	40.50	44.51	8688.69	-4620.69	21.75	21.39	30.51	30.51	44.51	44.51	45.00	
8700.00	45.00	44.51	8690.03	-4628.03	26.59	26.14	37.29	37.29	44.51	44.51	45.00	
8710.00	49.50	44.51	8696.82	-4634.82	31.83	31.29	44.63	44.63	44.51	44.51	45.00	
8720.00	54.00	44.51	8703.01	-4641.01	37.43	36.79	52.48	52.48	44.51	44.51	45.00	
8730.00	58.50	44.51	8708.56	-4646.56	43.36	42.62	60.80	60.80	44.51	44.51	45.00	
8740.00	63.00	44.51	8713.45	-4651.45	49.58	48.74	69.52	69.52	44.51	44.51	45.00	
8750.00	67.50	44.51	8717.63	-4655.63	56.05	55.10	78.60	78.60	44.51	44.51	45.00	
EOC @ 8760' MD, 8721' TVD, 71.8° INC, 88' VS												
8759.52	71.78	44.51	8720.94	-4658.94	62.41	61.35	87.52	87.52	44.51	44.51	45.00	
8859.52	71.78	44.51	8752.20	-4690.20	130.15	127.94	182.51	182.51	44.51	44.51	.00	
8959.52	71.78	44.51	8783.47	-4721.47	197.89	194.53	277.49	277.49	44.51	44.51	.00	
9059.52	71.78	44.51	8814.73	-4752.73	265.63	261.12	372.48	372.48	44.51	44.51	.00	
9120.69	71.78	44.51	8833.85	-4771.85	307.06	301.85	430.58	430.58	44.51	44.51	.00	
9130.69	73.28	44.51	8836.86	-4774.86	313.86	308.54	440.12	440.12	44.51	44.51	15.00	
9140.69	74.78	44.51	8839.61	-4777.61	320.72	315.28	449.74	449.74	44.51	44.51	15.00	
9150.69	76.28	44.51	8842.10	-4780.10	327.63	322.07	459.42	459.42	44.51	44.51	15.00	
9160.69	77.78	44.51	8844.35	-4782.35	334.57	328.90	469.16	469.16	44.51	44.51	15.00	
9170.69	79.28	44.51	8846.34	-4784.34	341.56	335.77	478.96	478.96	44.51	44.51	15.00	
9180.69	80.78	44.51	8848.07	-4786.07	348.59	342.67	488.81	488.81	44.51	44.51	15.00	
9190.69	82.28	44.51	8849.54	-4787.54	355.64	349.61	498.70	498.70	44.51	44.51	15.00	
9200.69	83.78	44.51	8850.75	-4788.75	362.72	356.57	508.63	508.63	44.51	44.51	15.00	
9210.69	85.28	44.51	8851.71	-4789.71	369.82	363.54	518.58	518.58	44.51	44.51	15.00	
9220.69	86.78	44.51	8852.40	-4790.40	376.93	370.54	528.56	528.56	44.51	44.51	15.00	
9230.69	88.28	44.51	8852.83	-4790.83	384.06	377.54	538.55	538.55	44.51	44.51	15.00	
9240.69	89.78	44.51	8853.00	-4791.00	391.19	384.55	548.55	548.55	44.51	44.51	15.00	
INTERCEPT 1ST TARGET @ 8853' TVD, 90° INC, 550' VS												
9242.14	90.00	44.51	8853.00	-4791.00	392.22	385.57	550.00	550.00	44.51	44.51	15.00	
9272.14	94.50	44.51	8851.82	-4789.82	413.59	406.58	579.97	579.97	44.51	44.51	15.00	
9302.14	99.00	44.51	8848.30	-4786.30	434.83	427.46	609.75	609.75	44.51	44.51	15.00	
9332.14	103.50	44.51	8842.45	-4780.45	455.81	448.08	639.17	639.17	44.51	44.51	15.00	
9362.14	108.00	44.51	8834.30	-4772.30	476.40	468.32	668.04	668.04	44.51	44.51	15.00	

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		Dogleg Severity Deg/100
				TVD FT	FT				Distance FT	Direction Deg	
9389.78	112.15	44.51	8824.82	-4762.82	494.90	486.51	693.99	693.99	44.51	44.51	15.00
9489.78	112.15	44.51	8787.12	-4725.12	560.96	551.44	786.61	786.61	44.51	44.51	.00
9589.78	112.15	44.51	8749.43	-4687.43	627.01	616.37	879.24	879.24	44.51	44.51	.00
9672.66	112.15	44.51	8718.18	-4656.18	681.76	670.19	956.01	956.01	44.51	44.51	.00
9673.89	111.96	44.51	8717.72	-4655.72	682.57	670.99	957.15	957.15	44.51	44.51	15.00
9700.30	108.00	44.51	8708.70	-4646.70	700.27	688.39	981.96	981.96	44.51	44.51	15.00
9730.30	103.50	44.51	8700.56	-4638.56	720.85	708.63	1010.83	1010.83	44.51	44.51	15.00
9760.30	99.00	44.51	8694.70	-4632.70	741.83	729.25	1040.25	1040.25	44.51	44.51	15.00
9790.30	94.50	44.51	8691.18	-4629.18	763.07	750.13	1070.03	1070.03	44.51	44.51	15.00
INTERCEPT 2ND TARGET @ 8690' TVD, 90° INC, 1100' VS											
9820.30	90.00	44.51	8690.00	-4628.00	784.44	771.14	1100.00	1100.00	44.51	44.51	15.00
9850.30	85.50	44.51	8691.18	-4629.18	805.81	792.15	1129.97	1129.97	44.51	44.51	15.00
9880.30	81.00	44.51	8694.70	-4632.70	827.05	813.03	1159.75	1159.75	44.51	44.51	15.00
9910.30	76.50	44.51	8700.56	-4638.56	848.03	833.65	1189.17	1189.17	44.51	44.51	15.00
9932.28	73.20	44.51	8706.30	-4644.30	863.16	848.52	1210.38	1210.38	44.51	44.51	15.00
10032.28	73.20	44.51	8735.20	-4673.20	931.43	915.63	1306.12	1306.12	44.51	44.51	.00
10132.28	73.20	44.51	8764.09	-4702.09	999.70	982.74	1401.85	1401.85	44.51	44.51	.00
10232.28	73.20	44.51	8792.99	-4730.99	1067.97	1049.86	1497.53	1497.53	44.51	44.51	.00
10332.28	73.20	44.51	8821.89	-4759.89	1136.24	1116.97	1593.32	1593.32	44.51	44.51	.00
TD @ 10391' MD, 8839' TVD, 73.2° INC, 1650' VS											
10391.49	73.20	44.51	8839.00	-4777.00	1176.66	1156.71	1650.00	1650.00	44.51	44.51	.00

Company: TEXACO E&P
 Lease/Well: NVAWU #19
 Location: LEE COUNTY
 Rig Name: ?????
 Declination:
 File name: D:\DATA\TEXACO~1\NVAWU\NVAWU19\NVAWU19.SVY

Date/Time: 01-Apr-98 / 09:25



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-102

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 3002523880		2 Pool Code 61760		3 Pool Name VACUUM ABO, NORTH			
4 Property Code 011123		5 Property Name NORTH VACUUM ABO WEST UNIT				6 Well No. 19	
7 OGRID Number 022351		8 Operator Name TEXACO EXPLORATION & PRODUCTION INC.				9 Elevation 4062' RKB	

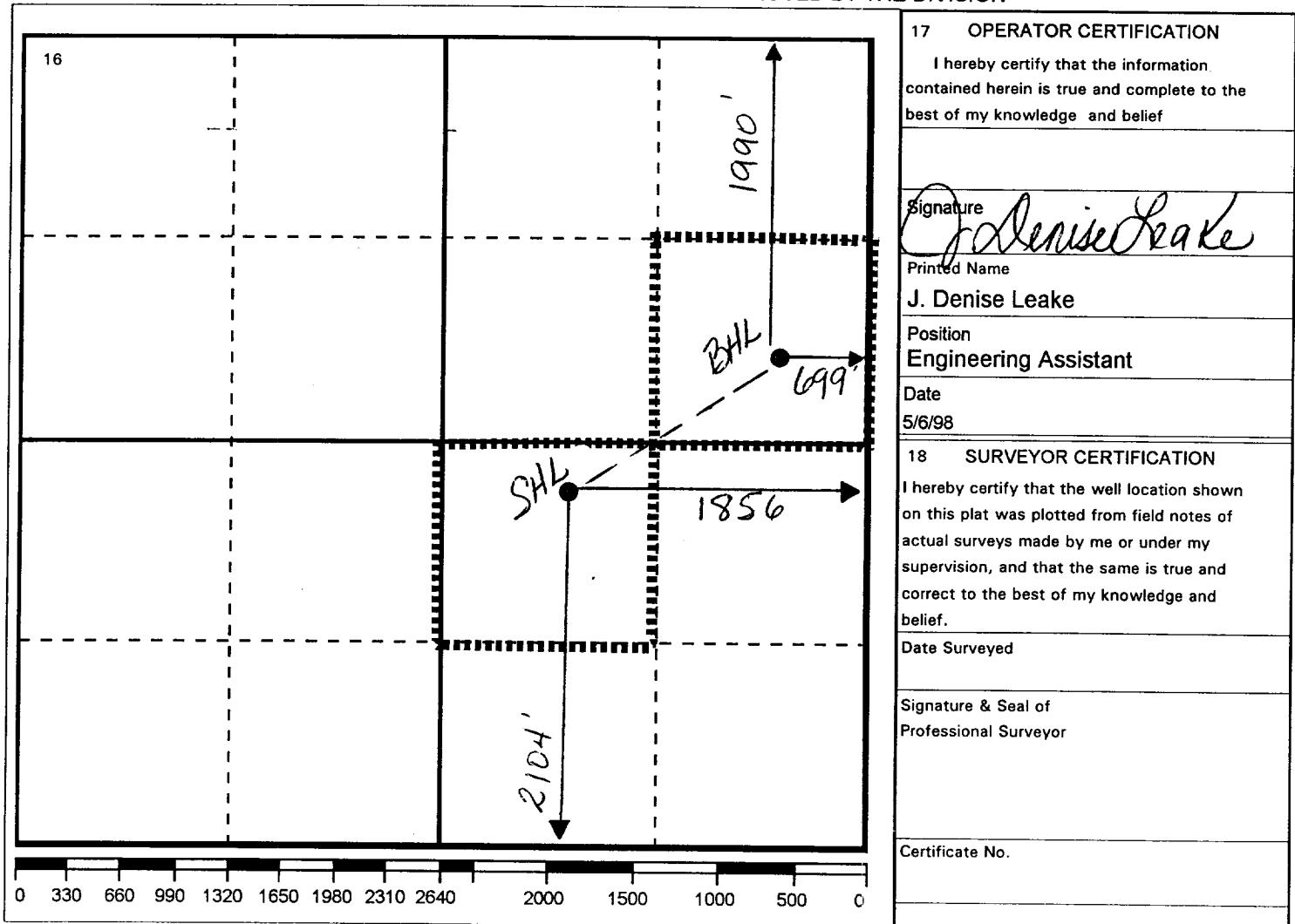
10 Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
J	28	17S	34E		2104	SOUTH	1856	EAST	LEA

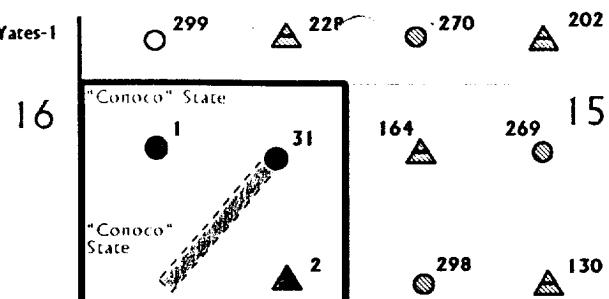
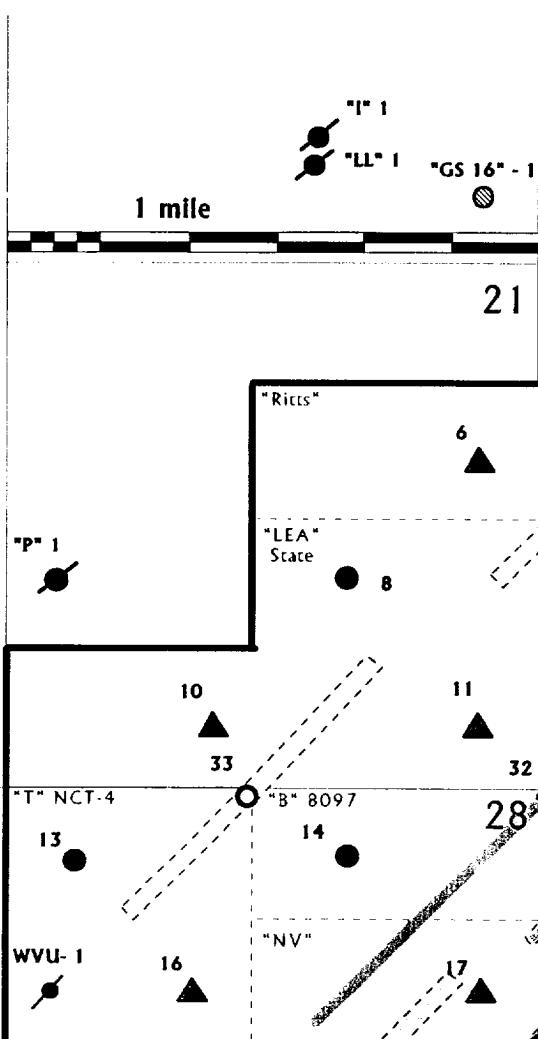
11 Bottom Hole Location If Different From Surface

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
H	28	17S	34E		1990	NORTH	699	EAST	LEA
12 Dedicated Acres 40	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



NORTH VACUUM ABO WEST UNIT



T-17-S

R-34-E

MOBIL OIL

North Vacuum
Abo Unit

- Oil Producer
- ▲ Water Injection
- ◆ P & A
- ▲ TA, Inactive
- Location
- △ Offset Wells

21

State 2-B

23

"V"

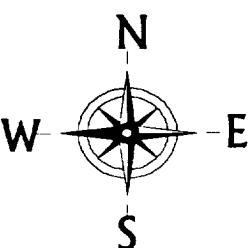
24

"G" NCT 2

25 ("V"-10)

P/B

James Anderson 5/7/98



Ex) E 1085 (R.C. Herndon, Jr., D.R.)	Pet. 821 Abo Pet. B-794 Mobil HBP L 2945 Sage Oil 6000 to 9100' Rial Oil Yates-Sy "Angle-St." State PGO	L 2945 I-Slate S.P. Yates Shell Angle St TD 3969 229 300 (Shell) Mobil TD 14460 2281 P 212 State r380	B-1520 Bridges State Natur-Dry Shell D/P/A E 14465 E 14466 488 Shell Angle TD 14460 P 212 State r380	8-1520 Bridges St Natur-Dry Shell D/P/A E 14465 E 14466 488 Shell Angle TD 14460 P 212 State r380	8-1520 Bridges St Natur-Dry Shell D/P/A E 14465 E 14466 488 Shell Angle TD 14460 P 212 State r380	8-1520 Bridges St Natur-Dry Shell D/P/A E 14465 E 14466 488 Shell Angle TD 14460 P 212 State r380	8-1520 Bridges St Natur-Dry Shell D/P/A E 14465 E 14466 488 Shell Angle TD 14460 P 212 State r380	8-1520 Bridges St Natur-Dry Shell D/P/A E 14465 E 14466 488 Shell Angle TD 14460 P 212 State r380	8-1520 Bridges St Natur-Dry Shell D/P/A E 14465 E 14466 488 Shell Angle TD 14460 P 212 State r380
Gallagher St. (P/B)	Leo State	(Lynn Pet.) To 850 So. Union Expl K-6881	Mobil (cont) to 9100' B-3136 "Conoco-St." (Cont) B-3136 Coseka Res. Coseka Res.-U.S.A. to 9103' (wo)	Mobil (cont) to 9100' B-3136 "Conoco-St." (Cont) B-3136 Coseka Res. Coseka Res.-U.S.A. to 9103' (wo)	Mobil (cont) to 9100' B-3136 "Conoco-St." (Cont) B-3136 Coseka Res. Coseka Res.-U.S.A. to 9103' (wo)	Mobil (cont) to 9100' B-3136 "Conoco-St." (Cont) B-3136 Coseka Res. Coseka Res.-U.S.A. to 9103' (wo)	Mobil (cont) to 9100' B-3136 "Conoco-St." (Cont) B-3136 Coseka Res. Coseka Res.-U.S.A. to 9103' (wo)	Mobil (cont) to 9100' B-3136 "Conoco-St." (Cont) B-3136 Coseka Res. Coseka Res.-U.S.A. to 9103' (wo)	Mobil (cont) to 9100' B-3136 "Conoco-St." (Cont) B-3136 Coseka Res. Coseka Res.-U.S.A. to 9103' (wo)
Oil ien E pl 1 pp 47 653 3m 40 665 Texas Meridian E. Fla.Expl HBP 8G488 Illinoi (West in Dr.) ion State TO 4758	BTA (Meridian E, Fla.Expl.) B-6454	P 25 Superior St. Marbob, et al V-412 (P/B) Mobil State J.M. Kelly, et al SP State "St. G.S. 16" DA 4753 State Samepon St. G.S. 16	16 Livermore State 17 Fig. S. 1245 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 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