

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.	3002524495
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil / Gas Lease	857947
7. Lease Name or Unit Agreement Name	NORTH VACUUM ABO WEST UNIT
8. Well No.	3
9. Pool Name or Wildcat	VACUUM ABO, NORTH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐	7. Lease Name or Unit Agreement Name NORTH VACUUM ABO WEST UNIT			
b. Type of Completion: NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RES. ☐ OTHER ☐ HORIZONTAL RE-ENTRY ☐				
2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.	8. Well No. 3			
3. Address of Operator 205 E. Bender, HOBBS, NM 88240	9. Pool Name or Wildcat VACUUM ABO, NORTH			
4. Well Location Unit Letter <u>L</u> <u>F</u> 1980 Feet From The <u>SOUTH</u> Line and <u>660</u> Feet From The <u>WEST</u> Line Section <u>15</u> Township <u>17S</u> Range <u>34E</u> NMPM LEA COUNTY				
10. Date Spudded 3/14/98	11. Date T.D. Reached 4/4/98	12. Date Compl. (Ready to Prod.) 4/17/98	13. Elevations (DF & RKB, RT, GR, etc.) 4058' DF	14. Elev. Csghead
15. Total Depth 10,511'	16. Plug Back T.D. 8939'	17. If Mult. Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 8704-10,511' ABO				20. Was Directional Survey Made YES
21. Type Electric and Other Logs Run N/A				22. Was Well Cored No

23. CASING RECORD (Report all Strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
11 3/4"	42	309'	15"	250	
8 5/8"	32#	3120'	11"	400	
5 1/2"	17#	9003'	7 7/8"	1250	

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	8882'	

26. Perforation record (interval, size, and number) 8704-10,511'	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	8704-10,511'	100,000 GALS 15% NEFE
		110,000 GALS WF130

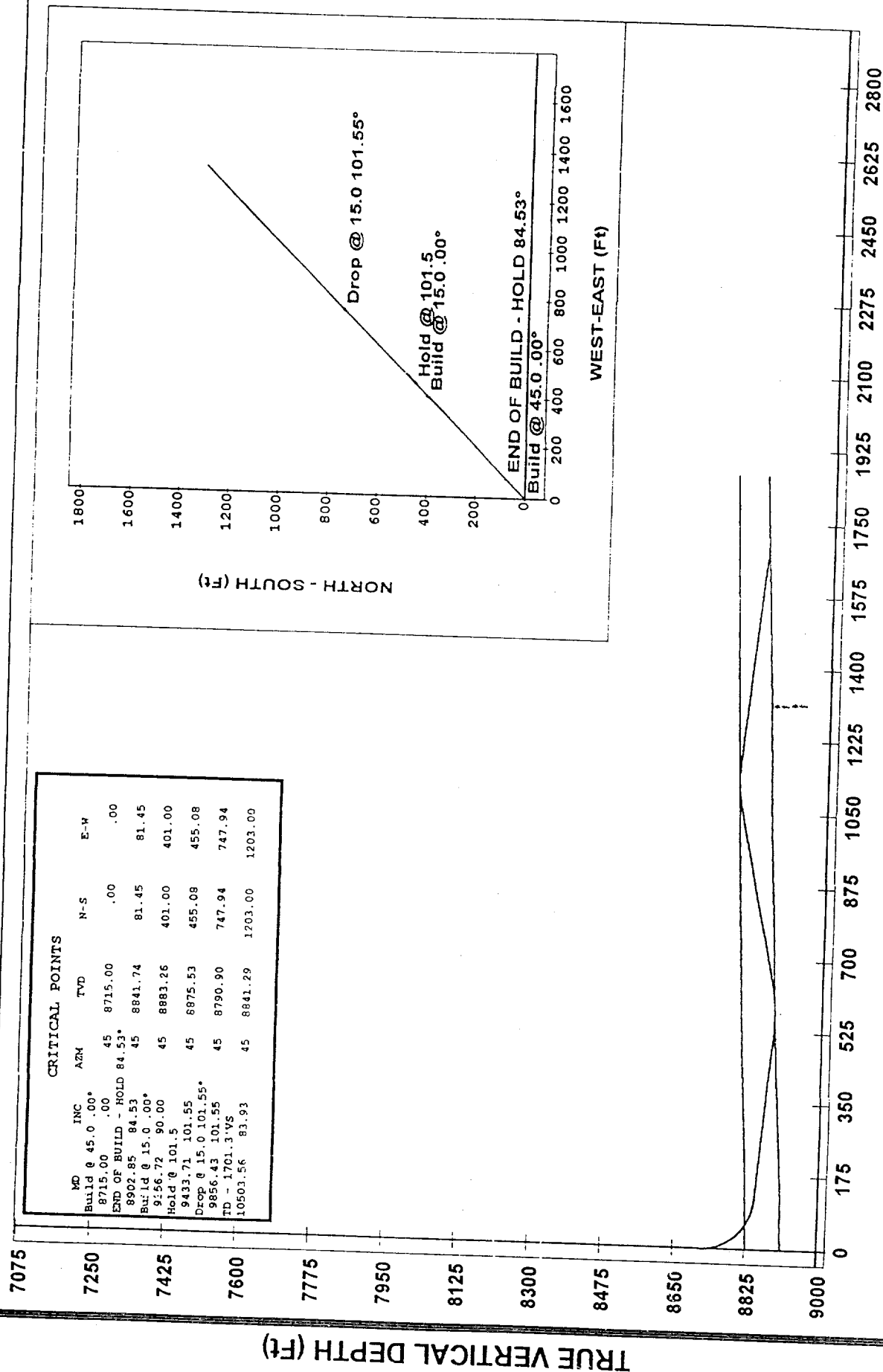
28. PRODUCTION							
Date First Production 4/17/98	Production Method (Flowing, gas lift, pumping - size and type pump) PUMPING 2 1/2" X 1 3/4" X 30'					Well Status (Prod. or Shut-in) PROD	
Date of Test 5-29-98	Hours tested 24 HRS	Choke Size	Prod'n For Test Period	Oil - Bbl. 59	Gas - MCF 21	Water - Bbl. 60	Gas - Oil Ratio 355
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD	Test Witnessed By
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30. List Attachment	
31. I hereby certify that the information on both sides of this form is true and complete to the best of my knowledge and belief.	
SIGNATURE <u>J. Denise Leake</u>	TITLE <u>Engineering Assistant</u> DATE <u>7/27/98</u>
TYPE OR PRINT NAME <u>J. Denise Leake</u>	Telephone No. <u>397-0405</u>

File name: C:\TEXACO~1\INVAWU\INVAWU_3\INVAWU_3.SVY
 Date/Time: Tuesday, January 13, 1998

Lease/Well: NVAWU #3
 Location: Lea County, New Mexico
 State/Country:
 Declination:
 Grid:



CRITICAL POINTS				
MD	INC	AZM	TVD	N-S
Build @ 45.0 .00°				
8715.00	.00	45	8715.00	.00
END OF BUILD - HOLD 84.53°				
8902.85	84.53	45	8841.74	81.45
Build @ 15.0 .00°				
9156.72	90.00	45	8883.26	401.00
Hold @ 101.5				
9433.71	101.55	45	8875.53	455.08
Drop @ 15.0 101.55°				
9856.43	101.55	45	8790.90	747.94
TD - 1701.3'VS				
10503.56	83.93	45	8841.29	1203.00

-- NVAWU #3(REV.1) □ --

VERTICAL SECTION (Ft) @ 45.00°



Job Number:

Company: Texaco E & P

LeaseWell: NVAWU #3

Location: Lea County, New Mexico

Rlg Name: Yale E. Key #119

RKB: 4057

G.L. or M.S.L.: 4048

State/Country:

Declination:

Grid:

File name: C:\TEXACO\1\NVAWU\NVAWU_3\NVAWU_3.SVY

Date/Time: 13-Jan-98 / 13:49

Curve Name: NVAWU #3(REV.1)

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 45.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	Course Length FT	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	BUILD RATE Deg/100	WALK RATE Deg/100	Dogleg Severity Deg/100
8715.00	.00	45.00		8715.00	.00	.00	.00	.00	.00	.00	.00	.00
8725.00	4.50	45.00	10.00	8724.99	.28	.28	.39	.39	45.00	45.00	.00	45.00
8735.00	9.00	45.00	10.00	8734.92	1.11	1.11	1.57	1.57	45.00	45.00	.00	45.00
8745.00	13.50	45.00	10.00	8744.72	2.49	2.49	3.52	3.52	45.00	45.00	.00	45.00
8755.00	18.00	45.00	10.00	8754.35	4.41	4.41	6.23	6.23	45.00	45.00	.00	45.00
8765.00	22.50	45.00	10.00	8763.72	6.85	6.85	9.69	9.69	45.00	45.00	.00	45.00
8775.00	27.00	45.00	10.00	8772.80	9.81	9.81	13.88	13.88	45.00	45.00	.00	45.00
8785.00	31.50	45.00	10.00	8781.53	13.27	13.27	18.76	18.76	45.00	45.00	.00	45.00
8795.00	36.00	45.00	10.00	8789.84	17.19	17.19	24.32	24.32	45.00	45.00	.00	45.00
8805.00	40.50	45.00	10.00	8797.69	21.57	21.57	30.51	30.51	45.00	45.00	.00	45.00
8815.00	45.00	45.00	10.00	8805.03	26.37	26.37	37.29	37.29	45.00	45.00	.00	45.00

Build @ 45.0 .00°

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	Course Length FT	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	BUILD RATE Deg/100	WALK RATE Deg/100	Dogleg Severity Deg/100
8825.00	49.50	45.00	10.00	8811.82	31.56	31.56	44.63	44.63	45.00	45.00	.00	45.00
8835.00	54.00	45.00	10.00	8818.01	37.11	37.11	52.48	52.48	45.00	45.00	.00	45.00
8845.00	58.50	45.00	10.00	8823.56	42.99	42.99	60.80	60.80	45.00	45.00	.00	45.00
8855.00	63.00	45.00	10.00	8828.45	49.16	49.16	69.52	69.52	45.00	45.00	.00	45.00
8865.00	67.50	45.00	10.00	8832.63	55.58	55.58	78.60	78.60	45.00	45.00	.00	45.00
8875.00	72.00	45.00	10.00	8836.09	62.21	62.21	87.98	87.98	45.00	45.00	.00	45.00
8885.00	76.50	45.00	10.00	8838.81	69.01	69.01	97.60	97.60	45.00	45.00	.00	45.00
8895.00	81.00	45.00	10.00	8840.76	75.95	75.95	107.41	107.41	45.00	45.00	.00	45.00
END OF BUILD - HOLD 84.53°												
8902.85	84.53	45.00	7.85	8841.74	81.45	81.45	115.19	115.19	45.00	45.00	.00	45.00
9002.85	84.53	45.00	100.00	8851.27	151.84	151.84	214.73	214.73	45.00	.00	.00	.00
9102.85	84.53	45.00	100.00	8860.80	222.23	222.23	314.28	314.28	45.00	.00	.00	.00
9202.85	84.53	45.00	100.00	8870.33	292.62	292.62	413.82	413.82	45.00	.00	.00	.00
9302.85	84.53	45.00	100.00	8879.86	363.01	363.01	513.37	513.37	45.00	.00	.00	.00
9320.21	84.53	45.00	17.36	8881.52	375.23	375.23	530.65	530.65	45.00	-.01	.00	.01
9326.72	85.50	45.00	6.51	8882.08	379.81	379.81	537.13	537.13	45.00	14.91	.00	14.91
Build @ 15.0.00°												
9356.72	90.00	45.00	30.00	8883.26	401.00	401.00	567.10	567.10	45.00	15.00	.00	15.00
9386.72	94.50	45.00	30.00	8882.08	422.19	422.19	597.07	597.07	45.00	15.00	.00	15.00
9416.72	99.00	45.00	30.00	8878.56	443.26	443.26	626.86	626.86	45.00	15.00	.00	15.00
Hold @ 101.5												
9433.71	101.55	45.00	16.99	8875.53	455.08	455.08	643.57	643.57	45.00	15.00	.00	15.00
9533.71	101.55	45.00	100.00	8855.51	524.36	524.36	741.55	741.55	45.00	.00	.00	.00
9633.71	101.55	45.00	100.00	8835.49	593.63	593.63	839.53	839.53	45.00	.00	.00	.00
9733.71	101.55	45.00	100.00	8815.47	662.91	662.91	937.50	937.50	45.00	.00	.00	.00
9833.71	101.55	45.00	100.00	8795.45	732.19	732.19	1035.48	1035.48	45.00	.00	.00	.00
Drop @ 15.0 101.55°												
9856.43	101.55	45.00	22.73	8790.90	747.94	747.94	1057.74	1057.74	45.00	.00	.00	.00
9856.76	101.50	45.00	.33	8790.83	748.16	748.16	1058.06	1058.06	45.00	-15.00	.00	15.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	Course Length FT	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	BUILD RATE Deg/100	WALK RATE Deg/100	Dogleg Severity Deg/100
9873.43	99.00	45.00	16.66	8787.87	759.76	759.76	1074.46	1074.46	45.00	-15.00	.00	15.00
9903.43	94.50	45.00	30.00	8784.34	780.82	780.82	1104.25	1104.25	45.00	-15.00	.00	15.00
9933.43	90.00	45.00	30.00	8783.17	802.01	802.01	1134.21	1134.21	45.00	-15.00	.00	15.00
9963.43	85.50	45.00	30.00	8784.34	823.20	823.20	1164.18	1164.18	45.00	-15.00	.00	15.00
9973.88	83.93	45.00	10.45	8785.31	830.56	830.56	1174.59	1174.59	45.00	-15.00	.00	15.00
10073.88	83.93	45.00	100.00	8795.88	900.87	900.87	1274.03	1274.03	45.00	.00	.00	.00
10173.88	83.93	45.00	100.00	8806.45	971.19	971.19	1373.47	1373.47	45.00	.00	.00	.00
10273.88	83.93	45.00	100.00	8817.02	1041.50	1041.50	1472.91	1472.91	45.00	.00	.00	.00
10373.88	83.93	45.00	100.00	8827.59	1111.82	1111.82	1572.35	1572.35	45.00	.00	.00	.00
10473.88	83.93	45.00	100.00	8838.15	1182.13	1182.13	1671.79	1671.79	45.00	.00	.00	.00
TD - 1701.3"VS												
10503.56	83.93	45.00	29.68	8841.29	1203.00	1203.00	1701.30	1701.30	45.00	.00	.00	.00

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.	3002524495
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil / Gas Lease No.	857947
7. Lease Name or Unit Agreement Name	NORTH VACUUM ABO WEST UNIT
8. Well No.	3
9. Pool Name or Wildcat	VACUUM ABO, NORTH
11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	

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 ☐
2. Name of Operator	TEXACO EXPLORATION & PRODUCTION INC.
3. Address of Operator	205 E. Bender, HOBBS, NM 88240
4. Well Location	Unit Letter <u>L</u> : 1980 Feet From The <u>SOUTH</u> Line and 660 Feet From The <u>WEST</u> Line Section <u>15</u> Township <u>17S</u> Range <u>34E</u> NMPM <u>LEA</u> COUNTY
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	4058' DF

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: ☒ HORIZONTAL RE-ENTRY
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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.

3-15-98: MIRU/INSTL BOP. TOH W/TBG.
3-17-98: SET CIBP @ 8710'. TEST TO 1000 PSI. LD TBG.
3-20-98: TIH W/DP. TAG @ 8710'. TIH W/MILL & WHIPSTOCK. STOP @ 8700'. CUT WINDOW.
3-21-98: TIH W/BOTTOM ILL & MILL FR 8703-8706'.
3-22/4-3-98: DRILLING
4-4-98: TIH W/RBP TO 6500'. RELEASE RIG @ 10:30 PM.
4-09-98: PU 3 1/2" TBG & RETR TOOL TO 6400'.
4-10-98: UNSET RBP @ 6500'. TIH W/BP, SUB & PKR. PSA 8515'. TEST ANNULAS TO 1000 PSI. NU TREE ON BOP.
4-17-98: ACID FRAC W/100,000 GALS 15% NEFE & 110,000 GALS WF130. OPEN WELL ON 10/64 CHOKE & FLOWBACK TO RESERVE PIT.
4-18-98: CIRC DN BACKSIDE & UP TO TBG TO DISPLACE HLE W/FW. CIRC OUT OIL & GAS TO SURF. WELL DEAD.REL PKR. TOH W/TBG.
4-19-98: SET PKR @ SURF.
4-20-98: TIH W/2 7/8" TBG. TBG A/C @ 8633.53'. SN @ 8674.63'. MA @ 8708.23'. NDBOP. SET ANCHOR & NU LANDING FLANGE. INSTL ROD BOXES. TIH W/PUMP, K-BARS, RODS. SPACE OUT. PUMP SEAT @ 8675'.
4-21-98: RUN ELEC EQPT TO UNIT & TIE IN FLOWLINES.
4-26-98: RIG DOWN SERV UNIT. PUMPING @ 9:00 AM.
5-12-98: PULL RDS. PARTED ON TOP OF PUMP. SWAB DOWNL INSTL BOP.
5-13-98: TOH W/TBG. TIH W/WHIPSTOCK HOOK. LATCH ONTO WHIPSTOCK. UNSET. TIH W/BIT, & DC'S ON 2 7/8" TBG TO 8000'.
5-14-98: TIH W/BIT. TAG @ 8715'. DRILL OUT CIBP @ 8718'. FELL THROUGH. TIH W/TBG. TAG PBTD @ 8939'.
5-15-98: TOH W/TBG. PU MA, PERF SUB, TAC, SN, TBG. TAG W/283 JTS & LD. NUWH. SN @ 8882'.
5-16-98: TIH W/PUMP, GAS ANCHOR & RODS. PUMPING.
5-29-98: ON 24 HR OPT. PUMPED 59 BO, 60 BW, & 21 MCF.
FINAL REPORT

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 7/27/98

TYPE OR PRINT NAME J. Denise Leake Telephone No. 397-0405

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE AUG 18 1998

CONDITIONS OF APPROVAL, IF ANY: