STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

NOV

APPLICATION FOR AUTHORIZATION TO INJECT

VACUUM DRINKARD

I. Purpose: ☐ Secondary Recovery ☒ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☒ no

II. Operator: TEXACO EXPLORATION AND PRODUCTION INC.

Address: P. O. BOX 3109, MIDLAND, TX 79702

Contact party: JAMES A. HEAD Phone: (915) 688-4613

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: JAMES A. HEAD Title ASSET MANAGER

Signature: James A. Head Date: 11/1/94

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(3) the formation name and depth with expected maximum injection rates and pressures; and

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

VACUUM DRINKARD FIELD
PRESSURE MAINTENANCE PROJECT
APPLICATION FOR AUTHORIZATION TO INJECT WATER

ATTACHMENT III TO FORM C-108

Attached is a description of the eight wells proposed for injection for this project. Six wells are to be drilled for injection while two are existing producers to be converted. Also attached are the completion records of the two wells to be converted as well as their wellbore schematics. For the new wells a typical wellbore schematic is included.

ATTACHMENT V TO FORM C-108

Attached are two maps of the project area. The first shows all wells drilled in the project area within two miles of the proposed injectors which are shown in yellow triangles. The second map shows all wells drilled through to the injection interval. The red circles are one-half mile radius around each proposed injector to identify the area of review.

ATTACHMENT VI TO FORM C-108

Attached is a listing of all wells that have penetrated the injection interval in the area of review of the proposed injectors. Also included are wellbore schematics of the wells.

ATTACHMENT VII TO FORM C-108
DATA ON PROPOSED OPERATION

Proposed average and maximum daily rate for the project:

Average Daily Rate:	5000 BWPD	(625 BWPD/well)
Maximum Daily Rate:	8000 BWPD	(1000 BWPD/well)

The injection system is closed.

The proposed average and maximum* surface injection pressures are:

Average injection pressure	1400 PSIG
Maximum injection pressure	1500 PSIG

* Until a fracture gradient is determined, maximum injection pressure will be based on a 0.2 psi/ft gradient.

The source of injection water will be produced water from the Glorieta and Grayburg-San Andres Formations. This will be supplied from the Vacuum Glorieta West Unit and the Vacuum Grayburg San Andres Unit waterfloods. As shown on the attached water analysis of Drinkard produced water and the above mentioned sources, the waters are compatible.

ATTACHMENT VIII TO FORM C-108

FORMATION DESCRIPTION

The Drinkard formation is a microcrystalline dolomite deposited in a patch reef environment. The structure is a southeasterly dipping stratagraphic trap with permeability pinchouts in all directions.

The Drinkard is in the Paleozoic era, Permian System, Leonard Age and Yeso group.

The top of the Drinkard is found at approximately 7450' to 7600' and is approximately 500 feet thick.

No known faults cut through the Drinkard that may act as conduits for gas, oil, or injection fluids to seep into fresh water aquifers above the injection zone within the proposed injection project. There are water injection projects above the Drinkard in the Paddock (Vacuum Glorieta West Unit) and the Grayburg-San Andres (Vacuum Grayburg-San Andres Unit and Central Vacuum Unit). The productive formation below the Drinkard is the Abo Reef. No contamination of the Ogallala through faults cutting these shallower zones has been observed.

Listed below are the formations and depths of oil productive zones in this area.

Grayburg-San Andres	4300'
Glorieta-Paddock	5900'
Blinbery	6500'
Drinkard	7450'
Abo	8300'
Wolfcamp	9400'
Penn Reef	10000'
Devonian	12000'

ATTACHMENT IX TO FORM C-108

PROPOSED STIMULATION PLAN
FOR A TYPICAL INJECTION WELL

All injection wells will be cased hole completions selectively perforated. The stimulation program initially will be medium sized acid jobs using 15% HCL. As the project matures restimulation with larger acid treatments may be required.

ATTACHMENT X TO FORM C-108

WELL LOGS

As the new wells are drilled, logs will be filed with the Division.

Logs on New Mexico "O" NCT-1 No. 36 and New Mexico "R" NCT-3 No. 26 have previously been sent to the Division.

ATTACHMENT XI TO FORM C-108

CHEMICAL ANALYSIS OF FRESH WATER WITHIN ONE MILE OF INJECTION WELLS

The attached map shows the location of two fresh water wells in the vicinity of the proposed pressure maintenance project which have chemical analysis. Attached are the attendant water analyses.

ATTACHMENT XII TO FORM C-108

Texaco has examined available geological and engineering data and finds no evidence of open faults or any other hydrologic connection between the injection zone and any underground source of drinking water.

ATTACHMENT XIII TO FORM C-108

NOTIFICATION OF SURFACE OWNERS AND OPERATORS

Texaco has notified by certified letter the surface owner and offset operators of the intent to inject as well as the drilling of nonstandard locations.

See the attached list of Offset Operators and surface owner.

Attached is a copy of the legal notice and affidavit of publication in the Hobbs Daily News-Sun.

VACUUM DRINKARD
PRESSURE MAINTENANCE PROJECT
ATTACHMENT III TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
PROPOSED INJECTION WELLS

OPERATOR	LEASE	WELL NO.	API NUMBER	UNIT	SEC	TWN	RANGE	FOOTAGE LOCATION	STATUS
TEXACO E&P INC.	N. M. "R" ST. NCT-3	28	N/A	P	1	18S	34E	1310 FSL 110 FEL	NEW LOCATION
TEXACO E&P INC.	N. M. "R" ST. NCT-1	17	N/A	G	6	18S	35E	2530 FNL 2530 FEL	NEW LOCATION
TEXACO E&P INC.	N. M. "R" ST. NCT-1	16	N/A	G	6	18S	35E	1410 FNL 2630 FEL	NEW LOCATION
TEXACO E&P INC.	N. M. "L" ST.	17	N/A	H	1	18S	34E	2560 FNL 10 FEL	NEW LOCATION
TEXACO E&P INC.	N. M. "L" ST.	16	N/A	A	1	18S	34E	1310 FNL 10 FEL	NEW LOCATION
MARATHON OIL	WARN ST. A/C 2	25	N/A	C	6	18S	35E	113 FNL 1429 FWL	NEW LOCATION
TEXACO E&P INC.	N. M. "R" ST. NCT-3	26	3002531993	J	1	18S	34E	1980 FSL 1755 FEL	PRODUCING
TEXACO E&P INC.	N. M. "O" ST. NCT-1	36	3002532339	N	36	17S	34E	330 FSL 2210 FWL	PRODUCING

C108 ATTACHMENT III
WELLS TO BE CONVERTED TO WATER INJECTION

OPERATOR	WELL NAME API NO.	LOCATION	COMPLETION DATE	TD	PBTD	CASING SIZE	CASING DEPTH	CEMENT SACKS	TOP	METHOD	PRODUCING INTERVAL	STIMULATION	CURRENT STATUS	REMARKS
Texaco E&P Inc.	N. M. "R" ST. NCT-3 No. 26 3002531993	1980' FS / 1755' FE SEC 1, T18S R34E (J)	9/13/93	8000	7950	8-5/8 5-1/2	1470 8000	650 1750	0 0	CIRC CIRC	7585-7829	FRAC/40000	PROD	Drinkard
Texaco E&P Inc.	N. M. "O" ST. NCT-1 No. 38 3002532339	330 FSL 2210 FWL SEC 36 T17S R34E (N)	3/20/94	8100	8100	8-5/8 5-1/2	1470 8100	650 1375	1000 0	TS CIRC	7498-7762'	A/25000	PROD	Drinkard

02

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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-105
Revised 1-1-89

WELL API NO.
30-025-31993

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
B-1306

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. Type of Completion:
NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF RESVR [ ] OTHER

7. Lease Name or Unit Agreement Name
NEW MEXICO 'R' STATE NCT-3

2. Name of Operator
TEXACO EXPLORATION AND PRODUCTION INC.

8. Well No.
26

3. Address of Operator
P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat
VACUUM DRINKARD

4. Well Location
Unit Letter J : 1980 Feet From The SOUTH Line and 1755 Feet From The EAST Line

Section 1 Township 18-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded	11. Date T.D. Reached	12. Date Compl. (Ready to Prod.)	13. Elevations (DF & RKB, RT, GR, etc.)	14. Elev. Casinghead
06-11-93	07-03-93	09-07-93	GR-3987', KB-4001'	3987'

15. Total Depth	16. Plug Back T.D.	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools	Cable Tools
8000'	7950'			0 - 8000'	

19. Producing Interval(s), of this completion - Top, Bottom, Name
7585' - 7829'; DRINKARD

20. Was Directional Survey Made
YES

21. Type Electric and Other Logs Run
GR-DLL-MSFL-LSS, GR-CNL-LDT, GR-FMI

22. Was Well Cored
YES

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1470'	11	CL-C 650 SX CIRC. 148 SX	
5 1/2	15.5# & 17#	8000'	7 7/8	CL-H 1750 SX, CIRC. 127 SX	
				DV @ 5003'	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	7852'	

26. Perforation record (interval, size, and number)
7585' - 7829'; 2 JSPF, 284 HOLES.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7585' - 7829'	ACID: 25000 GAL 20% HCL
	ACID/FRAC'D: 40000 GAL 65 QUALITY
	CO2 FOAMED 20% HCL

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
07-16-93	PUMPING - 2.5 X 1.5 X 24	PRODUCING

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
09-13-93	24			79	129	17	1633

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
						40.80

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
SOLD

Test Witnessed By
EDDIE WELBORN

30. List Attachments
DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C.P. Basham / SDH Printed Name C.P. BASHAM Title DRLG. SUPT. Date 09-16-93

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quinuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy 1484'	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen 3647'	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres 4255'	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta 5773'	T. McKee	Base Greenhorn	T. Granite
T. Paddock 5879'	T. Ellenburger	T. Dakota	T.
T. Blinebry 6156'	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard 7547'	T. Bone Springs	T. Entrada	T.
T. Abo	T.	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn	T.	T. Permain	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from 7585' to 7829' No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

No. 3, from ..... to ..... feet .....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
7547'	8000'	453'	DOLOMITE W/ TRACE OF ANHYDRITE				

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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-105
Revised 1-1-89

WELL API NO.
30-025-32339

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
548570

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. Type of Completion: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF RESVR [ ] OTHER

7. Lease Name or Unit Agreement Name
NEW MEXICO 'O' STATE NCT-1

2. Name of Operator
TEXACO EXPLORATION AND PRODUCTION INC.

8. Well No.
36

3. Address of Operator
P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat
VACUUM DRINKARD

4. Well Location
Unit Letter N : 330 Feet From The SOUTH Line and 2210 Feet From The WEST Line

Section 36 Township 17-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded	11. Date T.D. Reached	12. Date Compl. (Ready to Prod.)	13. Elevations (DF& RKB, RT, GR, etc.)	14. Elev. Casinghead
02-09-94	02-26-94	03-11-94	GR-3995', KB-4009'	3995'

15. Total Depth	16. Plug Back T.D.	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools	Cable Tools
8100'	8050'			0 - 8100'	

19. Producing Interval(s), of this completion - Top, Bottom, Name
7498' - 7762'; DRINKARD

20. Was Directional Survey Made
YES

21. Type Electric and Other Logs Run
GR-DLL-MSFL, GR-SDL-DSN-CSNG, GR-CCL

22. Was Well Cored
NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1470'	11	CL-C 650 SX,CIRC. 145 SX	
5 1/2	15.5# & 17#	8100'	7 7/8	CL-H 1375 SX,CIRC. 92 SX,	
				TOC BY T.S @ 1000',	
				DV TOOL @ 5013'.	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	7779'	

26. Perforation record (interval, size, and number)
7498' - 7762'; 2 JSPF, 200 HOLES.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7498' - 7762'	ACID 25000 GAL 15% HCL

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
03-06-94	PUMPING	PRODUCING

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
03-20-94	24			64	54	2	844

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
						39.40

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
SOLD

Test Witnessed By
GLEN BOLAND

30. List Attachments
DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C.P. Basham/SDH Printed Name C.P. BASHAM Title DRLG. SUPT. Date 03-22-94

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	1466'	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen	3660'	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4245'	T. Simpson		T. Gallup		T. Ignacio Otzte	
T. Glorieta	5837'	T. McKee		Base Greenhorn		T. Granite	
T. Paddock	5910'	T. Ellenburger		T. Dakota		T.	
T. Blinebry	6325'	T. Gr. Wash		T. Morrison		T.	
T. Tubb	7328'	T. Delaware Sand		T. Todilto		T.	
T. Drinkard	7495'	T. Bone Springs		T. Entrada		T.	
T. Abo	7903'	T.		T. Wingate		T.	
T. Wolfcamp		T.		T. Chinle		T.	
T. Penn		T.		T. Permain		T.	
T. Cisco (Bough C)		T.		T. Penn "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from 7498' to 7762' No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

No. 3, from ..... to ..... feet .....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
7495'	7903'	408'	DOLOMITE				
7903'	8100'	197'	DOLOMITE & SHALE				

RECEIVED

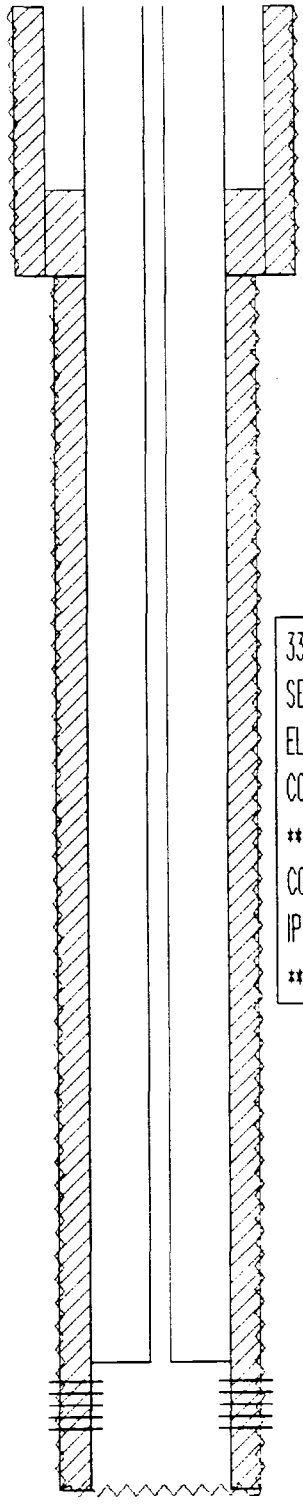
MAR 2 8 1994

OCD HOBBS OFFICE

PRODUCING
DRINKARD

TEXACO EXPL & PROD
NEW MEXICO "O" ST. NO. 35
API# 3002532339

PROPOSED INJECTION WELL



0 - 1470' CEMENT 650 sx CIRC

0 - 1470' 8.625" OD SURF CSG

0 - 1470' 11" OD HOLE

1000 - 8100' CEMENT 1375 sx TS

330 FSLL & 2210 FWLL
SEC 36 , TWN 17 S, RANGE 34 E
ELEVATION: 4009 KB
COMPLETION DATE: 03-20-94
****
COMPLETION INTERVAL: 7498 - 7762 (DRKD)
IP: 64 BOPD, 54 MCFD, 0 BWPD (PUMPING)
****

0 - 7400' 2.375" OD TBG CMT-LINED

7400 - 7405' PACKER AD-1

7498 - 7762' PERFS

0 - 8100' 5.5" OD PROD CSG

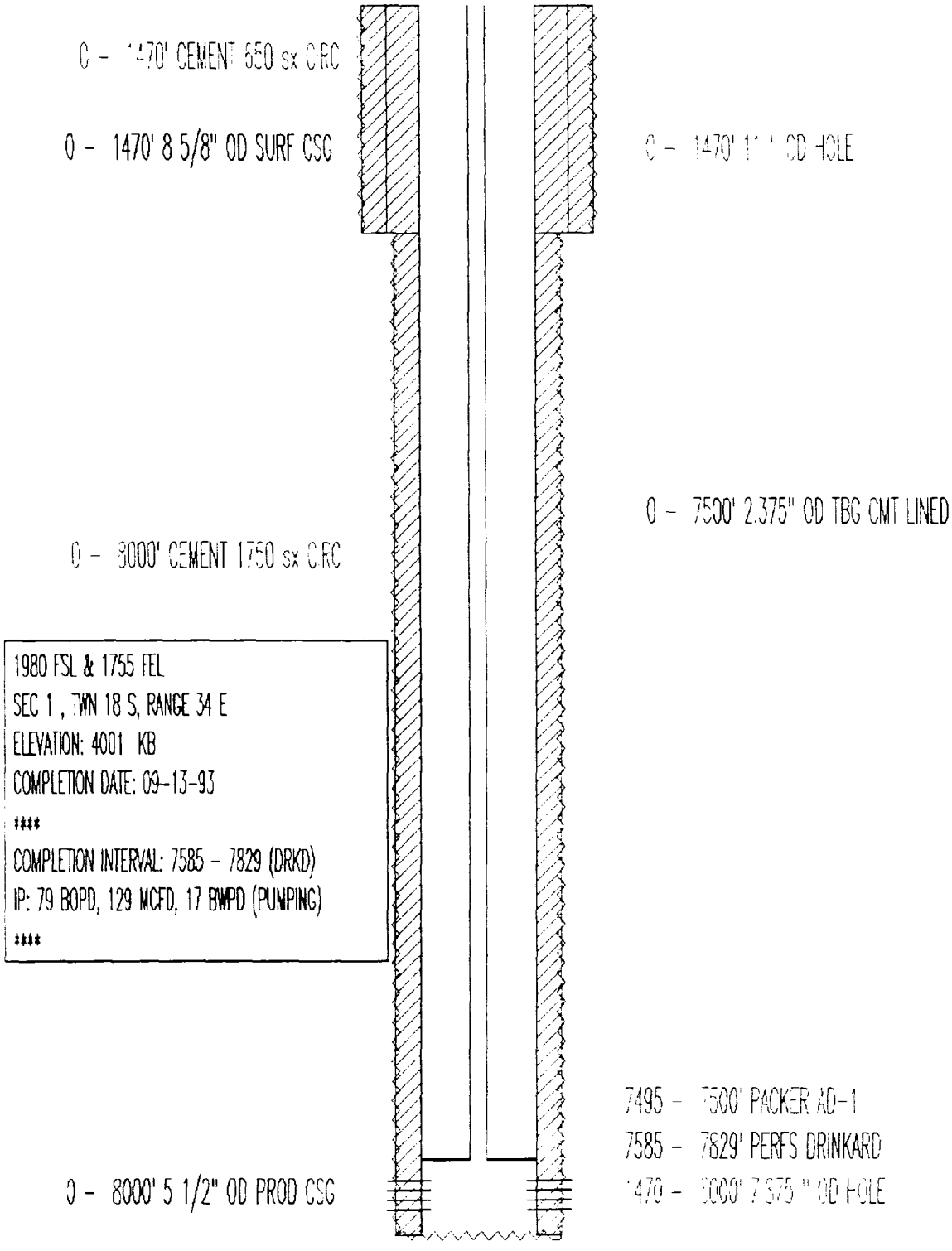
1470 - 8100' 7.875" OD HOLE

KB ELEV: 4009'
PBTD: 8050'
TD: 8100'

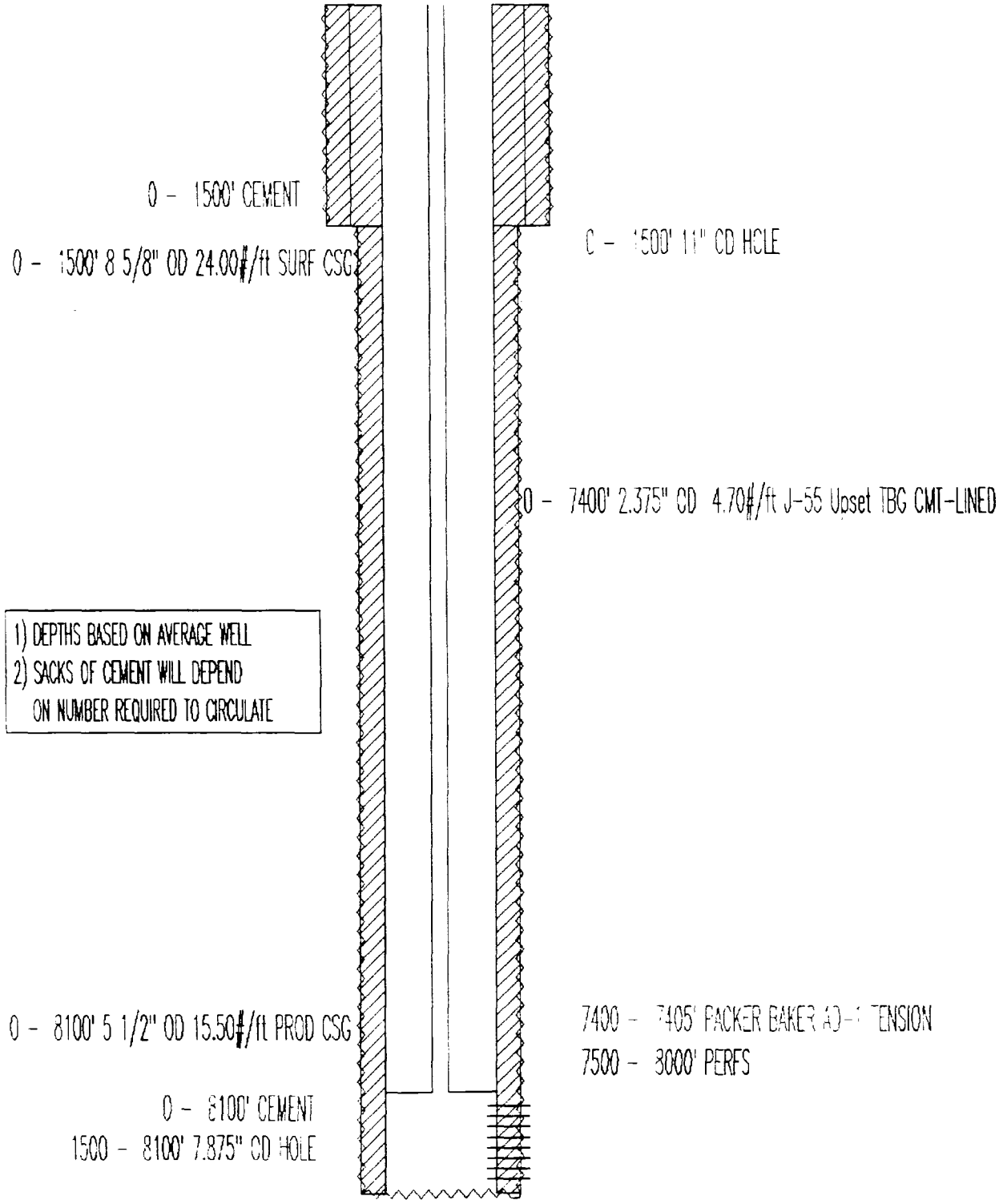
PRODUCING
DRINKARD

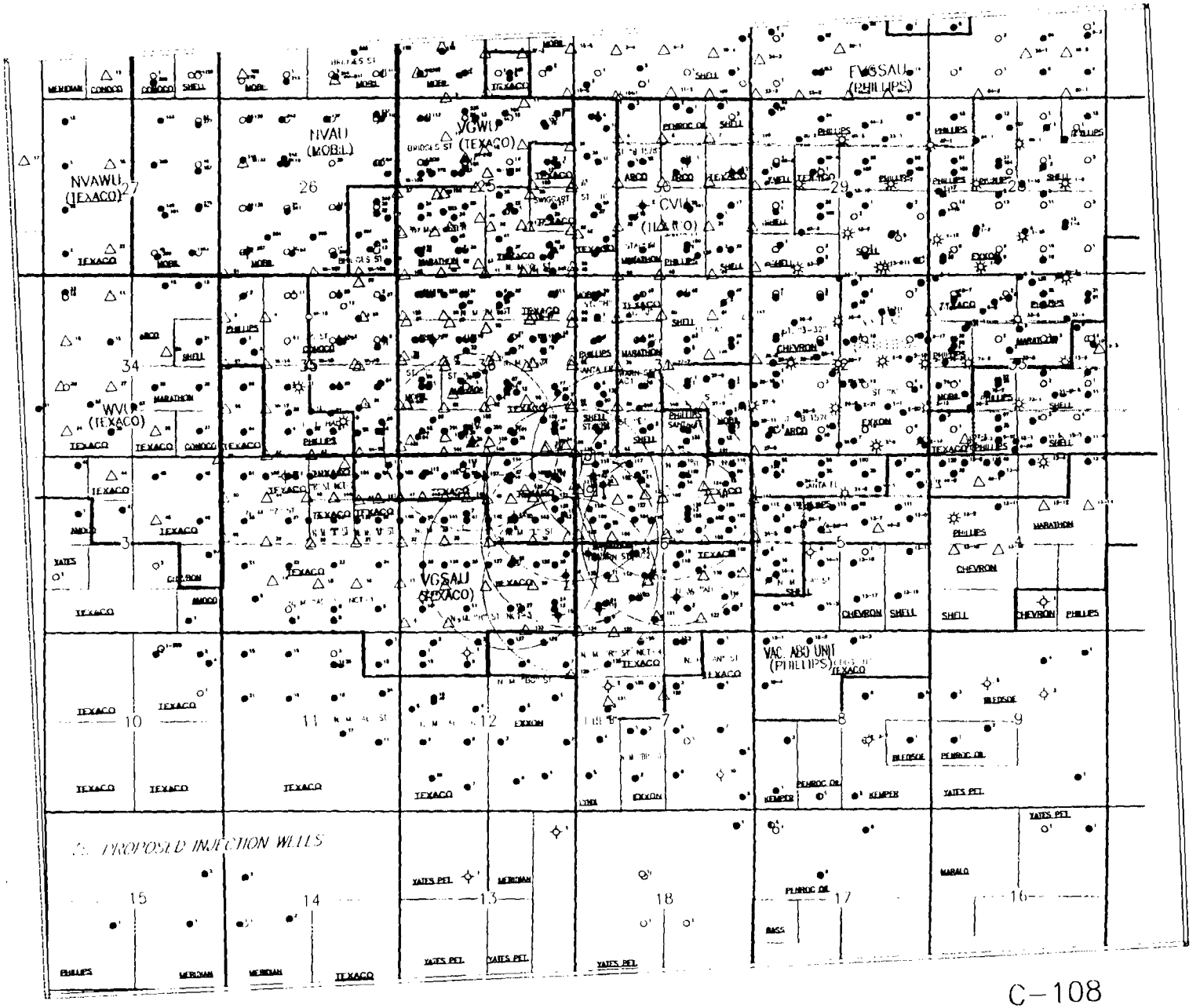
TEXACO EXPL & PROD
NEW MEXICO"R"ST. NCT-3 NO. 26
API# 3002531993

PROPOSED INJECTION WELL



TYPICAL VACUUM DRINKARD
NEW INJECTION WELL





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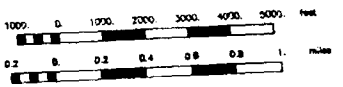
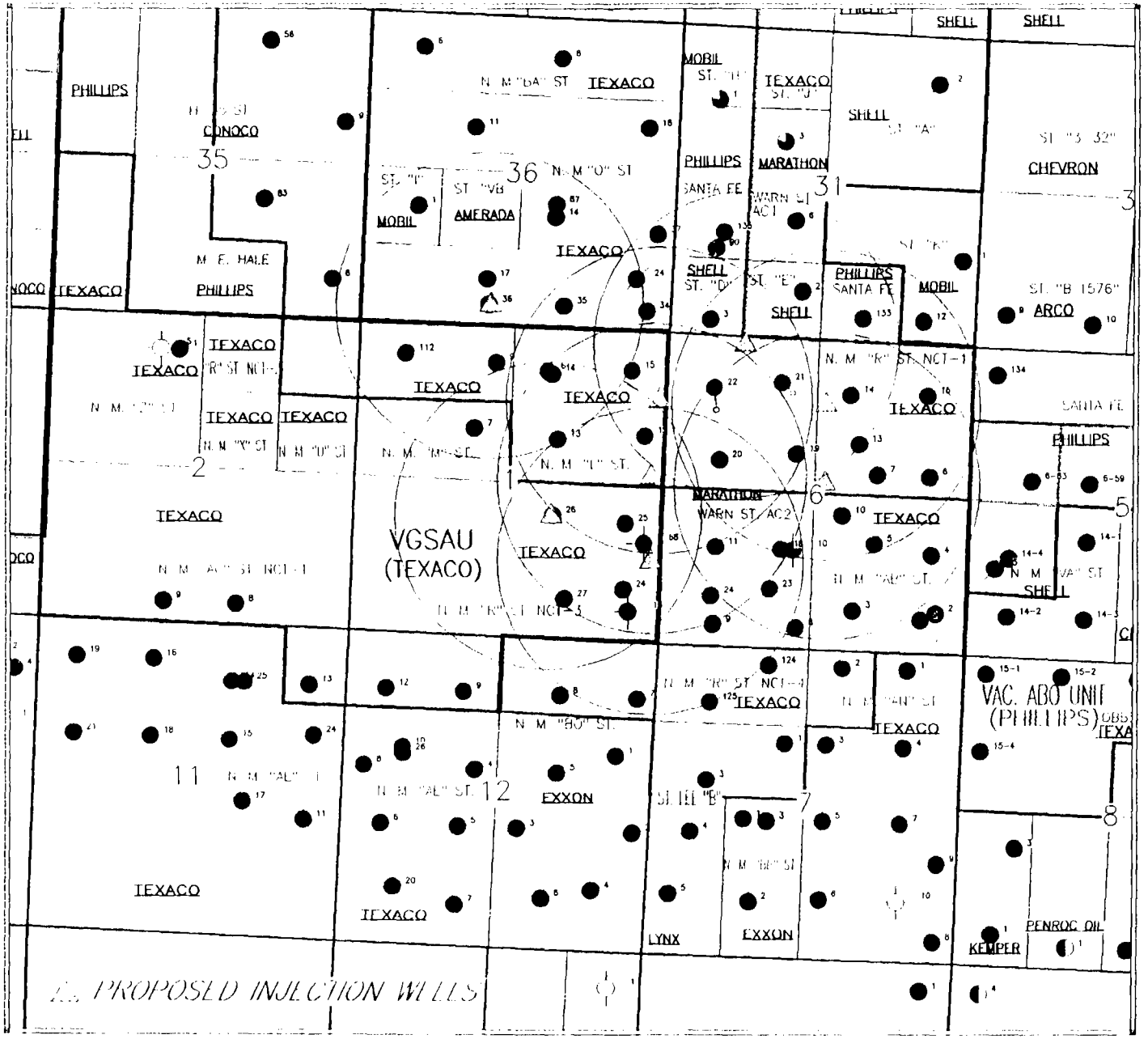
ATTACHMENT V

Texaco Exploration & Prod. Inc.		
LEASELINE INJECTION WELLS VACUUM DRINKARD FIELD LEA COUNTY NEW MEXICO		
Hobbs, New		11/1/94
	Scale 1:54000.	

Scale 1:54000.





WELLS THAT PENETRATED INJECTION INTERVAL

Texaco Exploration & Prod. Inc.		
LEASELINE INJECTION WELLS VACUUM DRINKARD FIELD LEA COUNTY NEW MEXICO		
Midland, Texas		11/1/94
	Scale 1:32000	

Scale 1:32000.

1000 0 1000 2000 3000 4000 5000 feet

0.1 0. 0.1 0.2 0.3 0.4 0.5 miles

C-108

ATTACHMENT V

C108 ATTACHMENT VI
WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

OPERATOR	WELL NAME API NO.	LOCATION	COMPLETION DATE	TD	PBTD	CASING SIZE	CASING DEPTH	CEMENT SACKS	TOP	METHOD	PRODUCING INTERVAL	CURRENT STATUS	REMARKS
Marathon Oil Co	Warn St a/c 2 No. 8 3002503082	330' FSL, 2333' FWL SEC 6, T18S R35E (N)	3/13/62	8867	8818	13-3/8	357	350	0	CIRC	7939 - 8169'	SI	Abo and Drinkard are downhole comingled
						8-5/8	3199	1440	0	CIRC	8458 - 8730'		
						5-1/2	8866	900	3770'	CBL			
Marathon Oil Co	Warn St a/c 2 No. 9 3002503083	330' FSL, 913' FWL SEC 6, T18S R35E (M)	9/16/71	8771	8737	13-3/8	356	350	0	CIRC	7800 - 8068'	SI	Abo and Drinkard are downhole comingled
						8-5/8	3159	1200	0	CIRC	8423 - 8702'		
						5-1/2	8769	850	2915'	CBL			
Marathon Oil Co	Warn St a/c 2 No. 10 3002520020	1650' FSL, 2232' FWL SEC 6, T18S R35E (K)	5/29/63	8870	8823	13-3/8	371	315	0	CIRC	8644 - 8791'	P&A	Pumped 60 sx cmt plug w/TOC @ 4486' PUH to 3357' pumped 25 sx cmt w/CaCl plug TOC @ 3113' PUH to 1519' pumped 20 sx cmt w/TOC @ 1329' PUH to 424' pumped 20 sx cmt w/TOC @234' POOH w/ 2-7/8" tbg, ND BOP'S Pumped 6 sx cmt plug to surface
						8-5/8	3307	1540	0	CIRC			
						5-1/2	8868	560	225'	CBL			
Marathon Oil Co	Warn St a/c 2 No. 11 3002520031	1650' FSL, 810' FWL SEC 6, T18S R35E (L)	11/11/92	8799	7805	13-3/8	360	350	0	CIRC	7630-8042'	PROD	Drinkard
						8-5/8	3400	1550	0	CIRC	8485-8655'	Abdnd	Recompleted from Abo 10/92
						5-1/2	8797	1200	745'	CBL			
Marathon Oil Co	Warn St a/c 2 No. 18 3002531887	1650' FSL, 2035' FWL SEC 6, T18S R35E (K)	4/5/93	8250	8183	11-3/4	1480	850	0	CIRC	7654 - 8034'	PROD	Drinkard
						8-5/8	2883	950	0	CIRC			
						5-1/2	8249	1485	0	CIRC			
Marathon Oil Co	Warn St a/c 2 No. 19 3002531927	2010' FNL, 2230' FWL SEC 6, T18S R35E (F)	5/10/93	8180	8090	11-3/4	1460	850	0	CIRC	7832 - 8044'	PROD	Drinkard
						8-5/8	2832	950	0	CIRC			
						5-1/2	8180	1350	6640'	CBL			
Marathon Oil Co	Warn St a/c 2 No. 20 3002531934	2160' FNL, 910' FWL SEC 6, T18S R35E (E)	6/13/93	8186	8056	11-3/4	1453	1000	0	CIRC	7615 - 7977'	PROD	Drinkard
						8-5/8	2865	850	0	CIRC			
						5-1/2	8186	1865	0	CIRC			
Marathon Oil Co	Warn St a/c 2 No. 21 3002531969	1109' FNL, 1993' FWL SEC 6, T18S R35E (C)	7/17/93	8200	8069	11-3/4	1465	750	0	CIRC	7623 - 7969'	PROD	Drinkard Directionally drilled
						8-5/8	2823	900	0	CIRC			
						5-1/2	8158	1560	1050'	CBL			BHL 935' FNL, 2186' FWL
Marathon Oil Co	Warn St a/c 2 No. 22 3002532034	1219' FNL, 890' FWL SEC 6, T18S R35E (D)	8/21/93	8138	8046	11-3/4	1444	900	0	CIRC	7598 - 7953'	PROD	Drinkard Directionally drilled
						8-5/8	2787	1100	0	CIRC			
						5-1/2	8138	1780	0	CIRC			BHL 832' FNL, 843' FWL
Marathon Oil Co	Warn St a/c 2 No. 23 3002532187	990' FSL, 1920' FWL SEC 6, T18S R35E (N)	12/4/93	8300	8205	11-3/4	1477	800	0	CIRC	7640 - 8030'	PROD	Drinkard
						8-5/8	2836	800	0	CIRC			
						5-1/2	8300	1550	2920'	CBL			
Marathon Oil Co	Warn St a/c 2 No. 24 3002532189	990' FSL, 400' FWL SEC 6, T18S R35E (M)	10/25/93	8170	8060	11-3/4	1460	850	0	CIRC	7606 - 8041'	PROD	Drinkard
						8-5/8	2830	1048	0	CIRC			
						5-1/2	8170	1860	2490'	CBL			
Texaco E&P Inc.	Vacuum Glorieta West Unit No. 90 3002520270	2130' FSL, 660' FEL SEC 31, T17S R35E (L)	2/18/94	10500	10239	13-3/8	337	350	0	CIRC	6030-6136'	PROD	Recompleted the Glorieta 3/16/77
						9-5/8	4774	782	2400	CALC	9162-9300'	SI	Wolfcamp & Abo perfs packed off 3/16/77
						7	10500	1110	4700	CBL	10006-10018'	SI	Formerly Phillips Petroleum Corporation Santa Fe No. 87
Phillips Petroleum Corporation	Santa Fe No. 133 3002532333	435 FSL 1930 FEL SEC 31, T17S R35E (O)	2/23/94	8100	8100	13-3/8	1539	1750	0	CIRC	7540-7508'	PROD	Drinkard
						8-5/8	5145	2400	0	CIRC			
						5-1/2	8100	825	5000	CALC			
Phillips Petroleum Corporation	Santa Fe No. 135 3002532438	1743' FSL, 808' FWL SEC 31, T17S R35E (L)	5/19/94	8052	7954	8-5/8	1500	850	0	CIRC	7537-7684'	PROD	Drinkard
						5-1/2	8052	2494	0	CIRC	7704-7859'		
Texaco E&P Inc.	N. M. "O" St. NCT-1 No. 37 3002532450	1650 FSL, 330 FEL SEC 36, T17S R34E (I)	5/3/94	8184	8029	8-5/8	1476	575	0	CIRC	7503-7918	PROD	Drinkard
						5-1/2	8148	1700	0	CIRC			
Texaco E&P Inc.	N. M. "O" St. NCT-1 No. 35 3002532336	355 FSL, 1875 FEL SEC 36, T17S R34E (O)	3/28/94	8100	7980	8-5/8	1460	650	0	CIRC	7518-7751	PROD	Drinkard
						5-1/2	8100	2025	0	CIRC	7486-7492		
Texaco E&P Inc.	N. M. "O" St. NCT-1 No. 34 3002532271	380 FSL, 330 FEL SEC 36, T17S R34E (P)	1/7/94	8000	7980	8-5/8	1460	650	0	CIRC	7551-7672'	PROD	Drinkard
						5-1/2	8000	3285	0	CIRC			

C108 ATTACHMENT VI
WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

OPERATOR	WELL NAME API NO.	LOCATION	COMPLETION DATE	TD	PBTD	CASING SIZE	CASING DEPTH	CEMENT SACKS	TOP	METHOD	PRODUCING INTERVAL	CURRENT STATUS	REMARKS
Texaco E&P Inc.	N. M. "O" St. NCT-1 No. 24 3002520946	660 FSL, 660 FEL SEC 36, T17S R34E (P)	7/4/64	10300	10300	13-3/8 9-5/8 2-7/8 2-7/8 2-7/8	1534 4418 10300 10289 10229	1200 1700 2400	0 0 2800	CIRC CIRC CALC	5942-6200 10206-10212 10042-10062 9133-9263	SI SI SI SI	Glorieta perfs abandoned by CIBP at 5155 Atoka tested dry plugged back to Glorieta Wolfcamp perfs sqzed w 40 sx Abo perfs abandoned by CIBP at 8595
Texaco E&P Inc.	N. M. "L" St. No. 6 3002520514	770 FNL, 2090 FEL SEC 1, T18S R34E (B)	2/9/71	12255	12155	13-3/8 9-5/8 2-7/8 2-7/8 2-7/8	1510 4800 10567 11300 11318	1200 1700 1600 670	0 0 0	CIRC CIRC BRDHD SQZ	9939-9964' 5961-6152' 8684-8697' 10872-11234' 9246-10220'	SI SI SQZD SQZD SQZD	Wolfcamp Glorieta Sqz w/ 28 sx Sqz w /10 sks Sqz w /150 sx thru retainer @ 9200'
Texaco E&P Inc.	NEW MEXICO "L" ST. No. 12 3002531992	1880 FNL 660 FEL SEC 1, T18S R34E (H)	8/24/93	8000	7966	8-5/8 5-1/2	1476 8000	650 1925	0 1800	CIRC TS	7540-7931'	PROD	Drinkard
Texaco E&P Inc.	NEW MEXICO "L" ST. No. 13 3002532007	1760 FNL 1980 FEL SEC 1, T18S R34E (G)	10/28/93	7990	7970	8-5/8 5-1/2	1470 7990	650 1785	0 0	CIRC CIRC	7588-7877'	PROD	Drinkard
Texaco E&P Inc.	NEW MEXICO "L" ST. No. 14 3002532008	810' FNL 1980' FEL SEC 1, T18S R34E (B)	11/5/93	7950	7926	8-5/8 5-1/2	1470 7950	650 2105	0 0	CIRC CIRC	7546-7827'	PROD	Drinkard
Texaco E&P Inc.	NEW MEXICO "L" ST. No. 15 3002532009	660' FNL 510' FEL SEC 1, T18S R34E (A)	10/2/93	7950	7930	8-5/8 5-1/2	1470 7950	760 3175	0 0	CIRC CIRC	7484-7906'	PROD	Drinkard
Texaco E&P Inc.	Central Vacuum Unit No. 124 3002503099	330 FNL 1904 FWL SEC 7, T18S R35E (C)	2/18/69	8840	4708	10-3/4 8-5/8 2-7/8 2-7/8	336 3128 8836 8832	300 750 1180	0 0 3128	CIRC CIRC CALC	8143-8760' 7997-8014' 4646-4697'	ABDN ABDN SI	Abo perfs plugged back to San Andres Drinkard perfs plugged back to San Andres Formerly N. M. "R" ST. NCT-4 No. 1
Texaco E&P Inc.	Central Vacuum Unit No. 125 3002503100	990 FNL 913 FWL SEC 7, T18S R35E (D)	1/30/68	8800	7799	11-3/4 8-5/8 2-7/8 2-7/8	336 3313 8790 8793	300 485 1400	0 1300 500	CIRC CALC TS	8512-8656' 7840-7907' 4554-4735'	SQZD ABDN SI	Abo perfs abandoned; Lost tbg in hole Drinkard perfs plugged back to San Andres Formerly N. M. "R" ST. NCT-4 No. 2
Texaco E&P Inc.	N. M. "R" ST. NCT-1 No. 6 3002520053	2310 FNL 760 FEL SEC 6, T18S R35E (H)	5/6/93	8850	8840	11-3/4 8-5/8 2-7/8	357 3080 8849	350 1600 1300	0 0 2731	CIRC CIRC TS	8275-8718'	SI	Abo Reef Perf and sqz w 960 sx @ 3100'
Texaco E&P Inc.	N. M. "R" ST. NCT-1 No. 7 3002520503	2310 FNL 1650 FEL SEC 6, T18S R35E (G)	7/28/71	8850	8525	11-3/4 8-5/8 2-7/8	360 3032 8847	400 1650 3000	0 0 3000	CIRC CIRC CALC	8245-8510' 8533-8689'	SI SQZD	Abo Reef sqz perfs thru retainer w/250sx Perf and sqz w 50 sx @ 3050'
Texaco E&P Inc.	N. M. "R" ST. NCT-1 No. 13 3002531990	1905 FNL 2130 FEL SEC 6, T18S R35E (G)	8/9/93	8150	8112	11-3/4 5-1/2	1480 8150	860 2100	0 300	CIRC TS	7609-8070	PROD	Drinkard
Texaco E&P Inc.	N. M. "R" ST. NCT-1 No. 14 3002532018	660' FNL 2000' FEL SEC 6, T18S R35E (B)	9/10/93	8150	8130	8-5/8 5-1/2	1455 8150	850 2800	0 1550	CIRC TS	7572-8101	PROD	Drinkard
Texaco E&P Inc.	N. M. "R" ST. NCT-1 No. 15 3002532019	510' FNL 840' FEL SEC 6, T18S R35E (A)	12/14/93	8150	8140	8-5/8 5-1/2	1487 8150	650 2235	0 0	CIRC CIRC	7701-8096	PROD	Drinkard
Texaco E&P Inc.	NEW MEXICO "AB" ST. No. 10 3002531991	2310' FSL 2110' FEL SEC 6, T18S R35E (J)	12/24/93	8200	8155	8-5/8 5-1/2	1495 8200	650 2195	0 0	CIRC CIRC	7757-7908'	PROD	Drinkard
Texaco E&P Inc.	NEW MEXICO "AB" ST. No. 3 3002503088	660 FSL 1980 FEL SEC 6, T18S R35E (O)	12/28/61	8856	8115	10-3/4 7-5/8 4-1/2	343 5404 5324-8856	250 900 550	0 0 5324	CIRC CIRC CIRC	7600-7981' 8253-8846'	PROD ABDN	Drinkard Abo Reef isolated by CIBP @ 8115' Cmt 'd 7-5/8 0-1600' w 450 sx
Texaco E&P Inc.	NEW MEXICO "AB" ST. No. 4 3002503087	1650 FSL 660 FEL SEC 6, T18S R35E (I)	12/22/61	9080	9066	10-3/4 7-5/8 4-1/2	327 5228 5108-9097	350 900 550	0 650 5108	CIRC CALC CIRC	8208-8826'	SI	Abo Reef
Texaco E&P Inc.	NEW MEXICO "AB" ST. No. 5 3002520163	1800 FSL 1650 FEL SEC 6, T18S R35E (J)	3/14/63	8851	2765	11-3/4 8-5/8	340 3070	300 1400	0 0	CIRC CIRC	8172-8794' 6300-6586'	P&A	Abo and Paddock 2-7/8 TBG CUT AT 1660'

C108 ATTACHMENT VI
WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

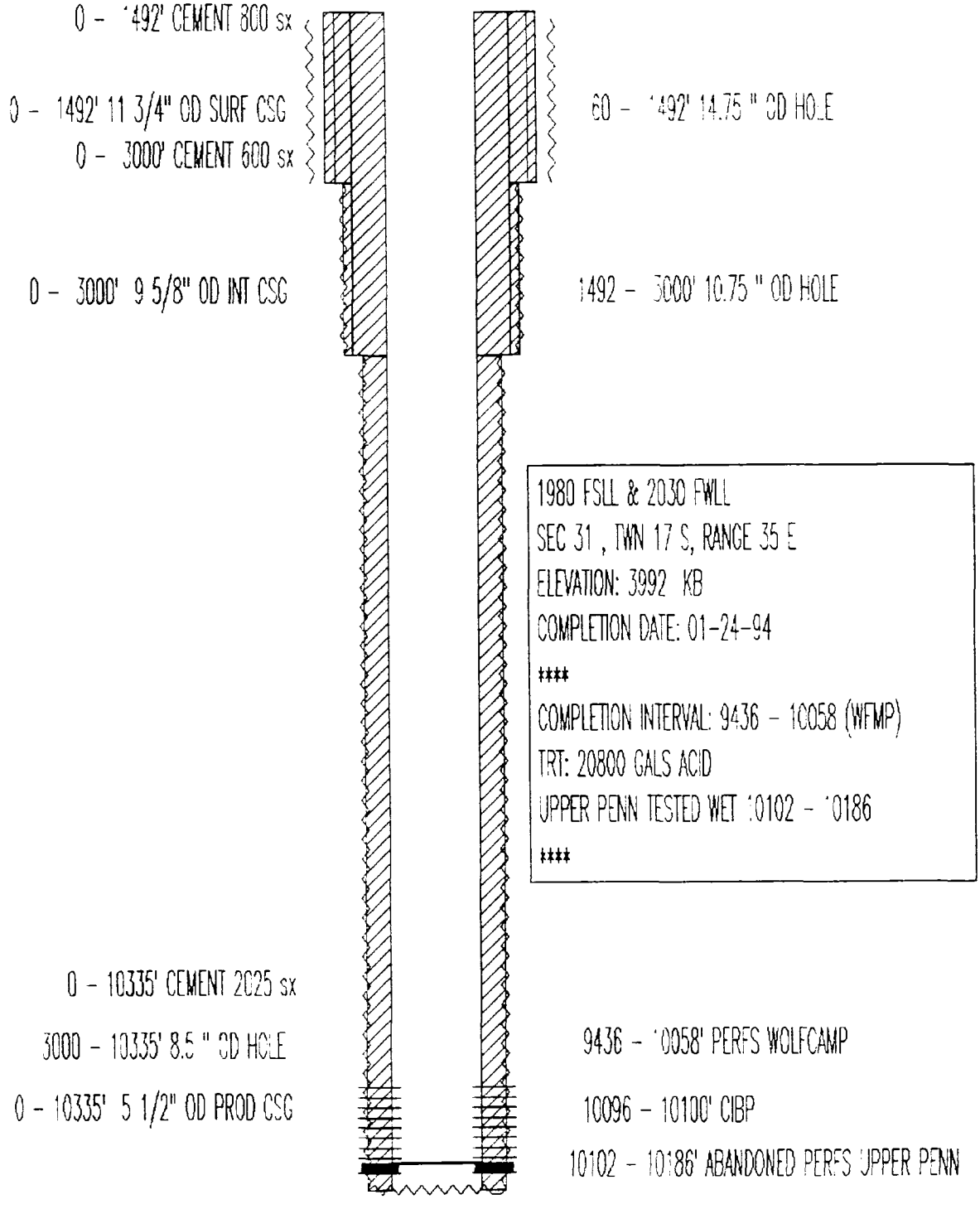
OPERATOR	WELL NAME API NO.	LOCATION	COMPLETION DATE	TD	PBTD	CASING SIZE	CASING DEPTH	CEMENT SACKS	TOP	METHOD	PRODUCING INTERVAL	CURRENT STATUS	REMARKS
						2-7/8	8650	1500	6200	TS			400 SX PLG 1750-1900'
						2-7/8	8849						100 SX PLUG 1454-1750'
													100 SX PLUG 0-1454'
Texaco E&P Inc.	N. M. "R" ST. NCT-3 No. 27	660 FSL / 1650 FEL	5/9/94	8100	7580	8-5/8	1470	600	0	CIRC	7656-7902	SI	Drinkard
	3002532004	SEC 1, T18S R34E (O)				5-1/2	8100	2400	0	CIRC			Failed to Produce
Texaco E&P Inc.	N. M. "R" ST. NCT-3 No. 15	467 FSL 560 FEL	6/5/84	10200	10200	13-3/8	355	400	0	CIRC	8495-8706'	P & A	Abo Reef & Wolfcamp
	3002520950	SEC 1, T18S R34E (O)				8-5/8	4800	1700	0	CIRC	9652-9662'		Set CIBPs in both strings @ 9600', 8440', &800'
						2-7/8	10200	2400	0	CIRC	9956-9978'		Cut tbg @ 4820' Set plugs @ 4820', 2820', 1660'
						2-7/8							Perf & sqz 400 sx 455' to surf
Texaco E&P Inc.	Vacuum Grayburg SA Unit No. 68	1655 FSL 330 FEL	10/9/84	8800	0	11-3/4	402	350	0	CIRC	8472-8572'	P & A	CIBP W/35' CAPS @ 6235', 5950', & 4755'
	3002521110	SEC 1, T18S R34E (I)				8-5/8	3250	1650	0	CIRC	5999-6125'		SQZ PERFS @ 3260' & 400' CIRC CMT.
						2-7/8	8800	1600	3235	CBL	4536-4686'		Formerly N. M. "R" ST. NCT-3 No. 16
Texaco E&P Inc.	N. M. "R" ST. NCT-3 No. 24	860' FSL 660' FEL	11/4/91	11994	7982	40	40	REDIMIX	0	CIRC	10192-10263'	ABDN	Upper Penn
	3002529925	SEC 1, T18S R34E (O)				26	407	1000	0	CIRC	11192-11236'	ABDN	Lower Miss.
						20	1585	2150	0	CIRC	7636-7900'	PROD	Drinkard
						9-5/8	5000	3700	0	CIRC			
						7	11100	2050	0	CIRC			
						5	10779-11676	175	0	CIRC			
Texaco E&P Inc.	N. M. "R" ST. NCT-3 No. 25	1980 FSL 660 FEL	4/30/93	8000	7950	11-3/4	1470	1090	0	CIRC	7586-7906'	PROD	Drinkard
	3002531930	SEC 1, T18S R34E (I)				5-1/2	8000	1990	0	CIRC			
Shell Oil	STATE "E" No. 2	660 FSL 1700 FWL	5/10/64	10406	8095	13-3/8	332'	300	0	CIRC	7618-7904'	PROD	Abandoned Wolfcamp Perfs w/ CIBP @ 8095'
	3002520823	SEC 31, T17S R35E (N)				9-5/8	3284'	574	0	CIRC	5999-6223'	SQZD	Squeezed Paddock perfs with 150
						7	9505'	1800	0	SQZD	9218-9418'	ABDN	Perf & sqz @ 3320' circ cmt to surface
Shell Oil	STATE "D" No. 3	330 FSL 695 FWL	2/15/94	8049	8049	13-3/8	1483	1255	0	CIRC	7525-7844'	PROD	Drinkard
	3002532298	SEC 31, T17S R35E (M)				8-5/8	3200	1015	0	CIRC			
						5-1/2	8049	1010					
EXXON	N. M. "BO" ST. NCT-3 No. 7	995 FNL 330 FEL	4/21/63	9000	9000	13-3/8	302	325	0	CIRC	8343-8855'	PROD	Tested Wolfcamp and plugged back to Abo Reef
	3002520176	SEC 12, T18S R34E (A)				8-5/8	3403	650	2100	CALC	8914-8953'	ABDN	Perf and sqzd @ 1900' w 1050 sx
						4-1/2	8996	1200	4000	CALC	8620-8749'	ABDN	
Mobil	STATE "K" No. 12	330 FSL 990 FEL	3/17/94	8093	8093	8-5/8	1480	450	0	CIRC	7628-7962'	PROD	Drinkard
	3002532413	SEC 31 T17S R35E (P)				5-1/2	8093	800	4400	CALC			
Marathon Oil Co	Warn St A/C 1 No. 6	1980 FSL 2030 FWL	1/24/94	10335	10098	11-3/4	1492	800	0	CIRC	9436-10058'	PROD	Initial completion in Upper Penn, tested wet.
	3002532311	SEC 31 T17S R35E (K)				8-5/8	3000	800	0	CIRC	10102-10186'		Set CIBP at 10096' isolate Upper Penn.
						5-1/2	10355	2025	0	CIRC			Recompleted to Wolfcamp
Texaco E&P Inc.	N. M. "O" ST. NCT-1 No. 14	1874 FSL 2086 FEL	7/26/63	12154	12154	13-3/8	1593	1200	0	CIRC	12114-12122'	SQZD	Producing from the Wolfcamp
	3002520008	SEC 36 T17S R34E (N)				8-5/8	4825	1700	2545	CALC	11202-11270'	ABDN	8-5/8 string Bradhd sqzd w/800 sx cmt
						2-7/8	12152	1250	5270	CBL	8649-8682'	ABDN	
						2-7/8	10818				10344-10462'	ABDN	
						2-7/8	10818				9170-9254'	PROD	
											10344-10036'	PROD	
Texaco E&P Inc.	Vacuum Glorieta West Unit No. 87	2090 FSL 2086 FEL	1/23/66	10200	6185	11-3/4	1499	1300	0	CIRC	10088-10164'	ABDN	Plugged back from Penn Reef
	3002521637	SEC 36 T17S R34E (J)				8-5/8	4825	1100	2400	CALC	5930-6160'	PROD	to the Glorieta
						4-1/2	10200	1050	4100	CALC			Formerly N. M. "O" St. No. 25
Texaco E&P Inc.	Vacuum Glorieta West Unit No. 112	560 FNL 760 FWL	11/16/63	12215	6100	13-3/8	1492	1150	0	CIRC	6076-6094'	SQZD	Formerly N. M. "M" St. No. 5
	3002520515	SEC 1, T18S R34E (D)				9-5/8	478	1700	2700	CALC	9068-9310'	SQZD	Bradhd sqz 9-5/8" csg w 650 sx 0-2100'
						2-7/8	9473	2250	0	CIRC	9337-9960'	SI	Glorieta perfs abandoned due to junk
						2-7/8	10226				6044-6046'	PROD	Abo string plugged back to Glorieta
						2-7/8	10202						Wolfcamp string shut in
Texaco E&P Inc.	N. M. "M" ST. No. 7	1800 FNL 1980 FWL	10/11/63	12200	7895	13-3/8	1513	1100	0	CIRC	9967-10043'	ABDN	Wolfcamp and Glorieta perf Abdn
	3002520494	SEC 1, T18S R34E (I)				8-5/8	4805	1700	1900	CALC	8016-8026'	ABDN	Producing from Drinkard

C108 ATTACHMENT VI
WELLS WITHIN 1/2 MILE RADIUS OF REVIEW

OPERATOR	WELL NAME API NO.	LOCATION	COMPLETION DATE	TD	PBTD	CASING SIZE	CASING DEPTH	CEMENT SACKS	TOP	METHOD	PRODUCING INTERVAL	CURRENT STATUS	REMARKS
						2-7/8	10232	1987	1720	TS	7530-7666'	PROD	
						2-7/8	10198						
						2-7/8	9737						
Texaco E&P Inc.	N. M. "M" ST. No. 9 3002520494	660 FNL 2310 FWL SEC 1, T18S R34E (C)	2/21/94	8100	8053	8-5/8	1470	650	0	CIRC	7530-7858'	PROD	Drinkard
						5-1/2	8100	1825	0	CIRC			
Mobil	State CC Com Unit No. 1 3002520872	1980 FSL 860 FWL SEC 36 T17S R34E (L)	8/12/64	12080	10222	16	360	350	0	CIRC	9115-9185	ABDN	Cmt plugs set in 2-7/8" strings
						10-3/4	4967	2625	0	CIRC	11972-12028'	ABDN	Abo and Wolfcamp Commingled in 4-1/2" csg
						2-7/8	12080	4460	0	CIRC	9115-9185	PROD	
						2-7/8	12080				9442-10032'	PROD	
						4-1/2	10222						
Texaco E&P Inc.	N. M. "O" ST. NCT-1 No. 17 3002520125	760 FSL 2060 FWL SEC 36 T17S R34E (N)	6/22/63	12082	10070	13-3/8	1612	1200	0	CIRC	9097-9224'	SQZD	Cmt sqzd to surf thru perf @ 1640'
						9-5/8	4750	1700	2700	CALC	9992-10004'	SQZD	Penn Reef stng casing collapsed @ 9356'
						2-7/8	10964	1325	2160	CBL	10130-10140'	SQZD/ABN	Tested Abo recompleted in Wolfcamp
						3-1/2	10282				11934-11990'	ABDN	Plugged back Devonian to Wolfcamp
						2-7/8	10975				9962-10029'	SI	Wolfcamp Shut in

PRODUCING
WOLFCAMP

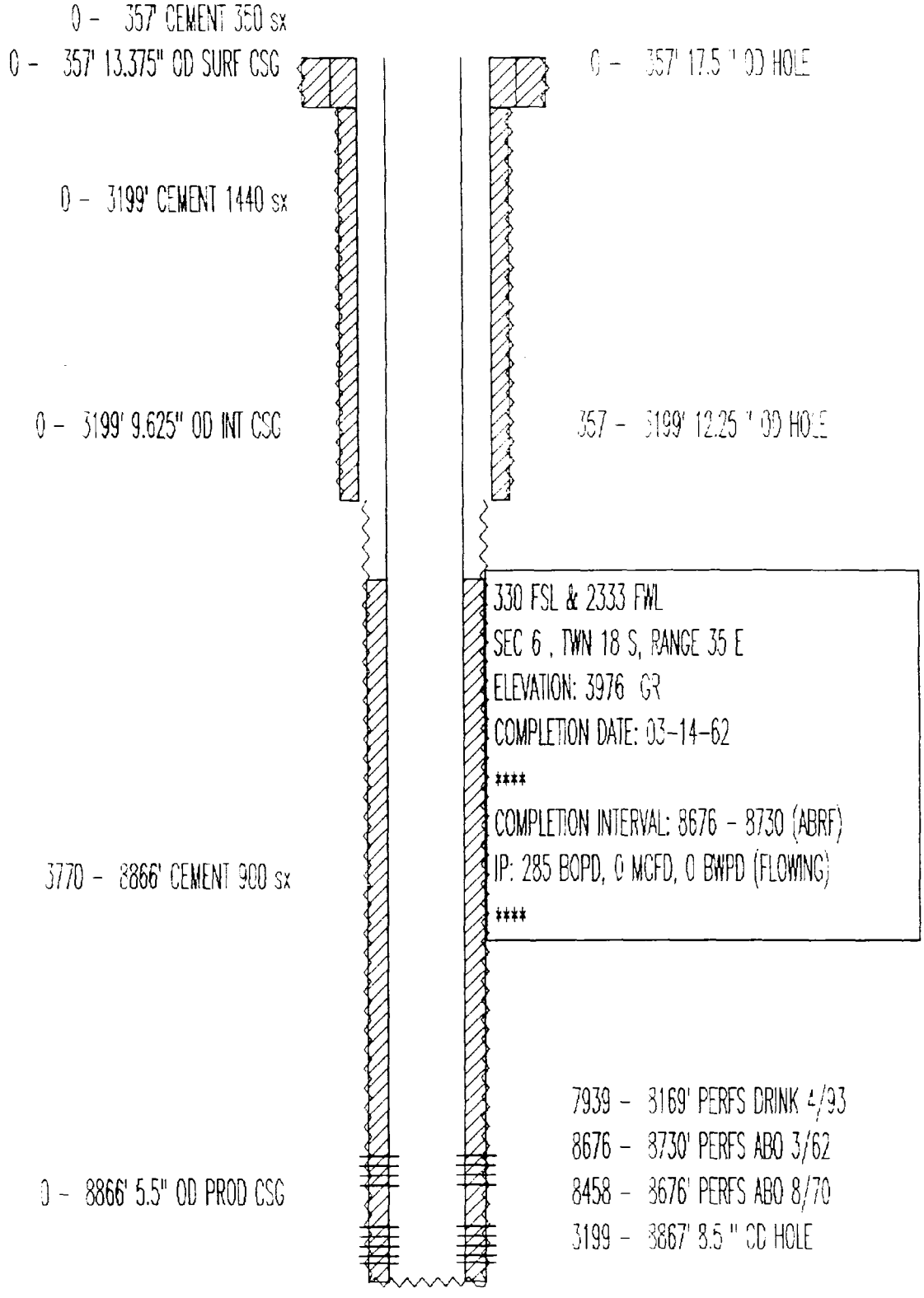
MARATHON OIL
WARN STATE A/C-1 NO. 6
API# 3002532311



1980 FSLL & 2030 FWLL
SEC 31 , TWN 17 S, RANGE 35 E
ELEVATION: 3992 KB
COMPLETION DATE: 01-24-94
****
COMPLETION INTERVAL: 9436 - 10058 (WFMP)
TRT: 20800 GALS ACID
UPPER PENN TESTED WET 10102 - 10186
****

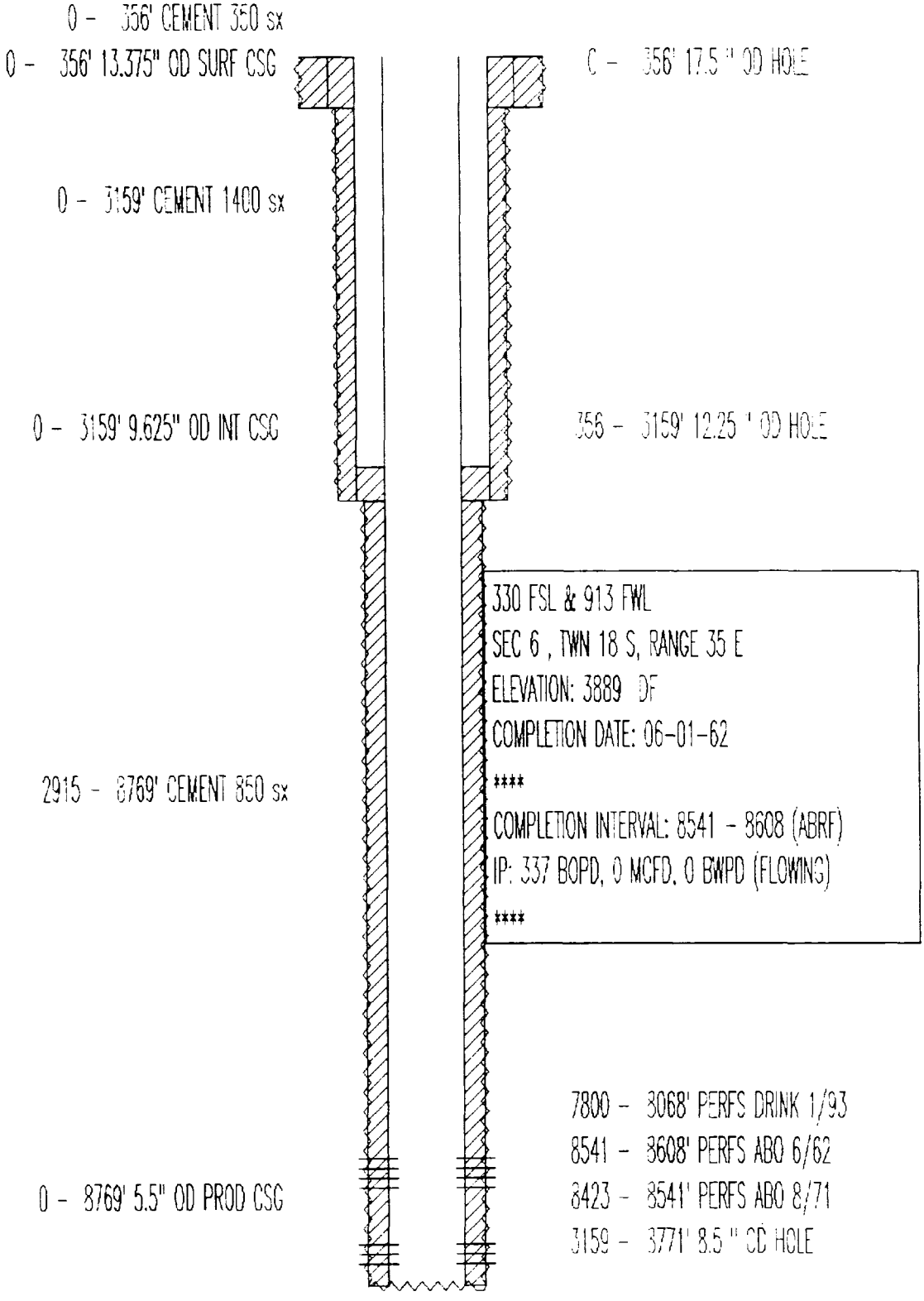
CURRENT STATUS - SHUT IN
ABO & DRINKARD COMMINGLED

MARATHON OIL
WARN-STATE A/C-2 NO. 8
API# 3002503082



SHUT IN
ABO AND DRINKARD COMMINGLED

MARATHON OIL
WARN-STATE A/C-2 NO. 9
API# 3002503083000



KB ELEV: 3979'
PBTD: 8737'
TD: 8771'

PLUGGED & ABANDONED

MARATHON OIL
WARN-STATE A/C-2 NO. 10
API# 3002520020

0 - 10' CEMENT PLUG 6 SX
0 - 371' CEMENT 315 sx
0 - 371' 13.375" OD SURF CSG
234 - 424' CEMENT PLUG 20 SX
1329 - 1519' CEMENT PLUG 20 SX
0 - 3307' CEMENT 1540 sx

0 - 371' 17.5 " OD HOLE

3113 - 3357' CEMENT PLUG 25 SX
0 - 3307' 9.625" OD INT CSG

371 - 3307' 12.25 " OD HOLE

225 - 8868' CEMENT 560 sx
4486 - 5070' CEMENT PLUG 60 SX

1650 FSL & 2232 FWL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3989 DF
COMPLETION DATE: 05-29-63
****
COMPLETION INTERVAL: 8644 - 8791 (ABO)
IP: 190 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****

0 - 8868' 5.5" OD PROD CSG

8644 - 8791' PERFS
3307 - 3870' 8.5 " OD HOLE

PBTD: 8823'
TD: 8870'

PRODUCING
DRINKARD

MARATHON OIL
WARN STATE A/C-2 NO. 1
API# 3002520031

0 - 360' 13.375" OD SURF CSG

0 - 360' CEMENT 250 sx

0 - 3400' CEMENT 1550 sx

0 - 3400' 8.625" OD INT CSG

745 - 8797' CEMENT 1255 sx

7805 - 7810' CIBP

0 - 8797' 5.5" OD PROD CSG

0 - 360' 17.5 " OD HOLE

360 - 3400' 12.25 " OD HOLE

1650 FSL & 910 FWL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3992 DF
COMPLETION DATE: 08-07-63
****
COMPLETION INTERVAL: 8485 - 8655 (ABO)
TRT: 2000 GALS ACID (8485 - 8655)
IP: 169 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****

7630 - 7790' PERFS DRINKARD 11/92

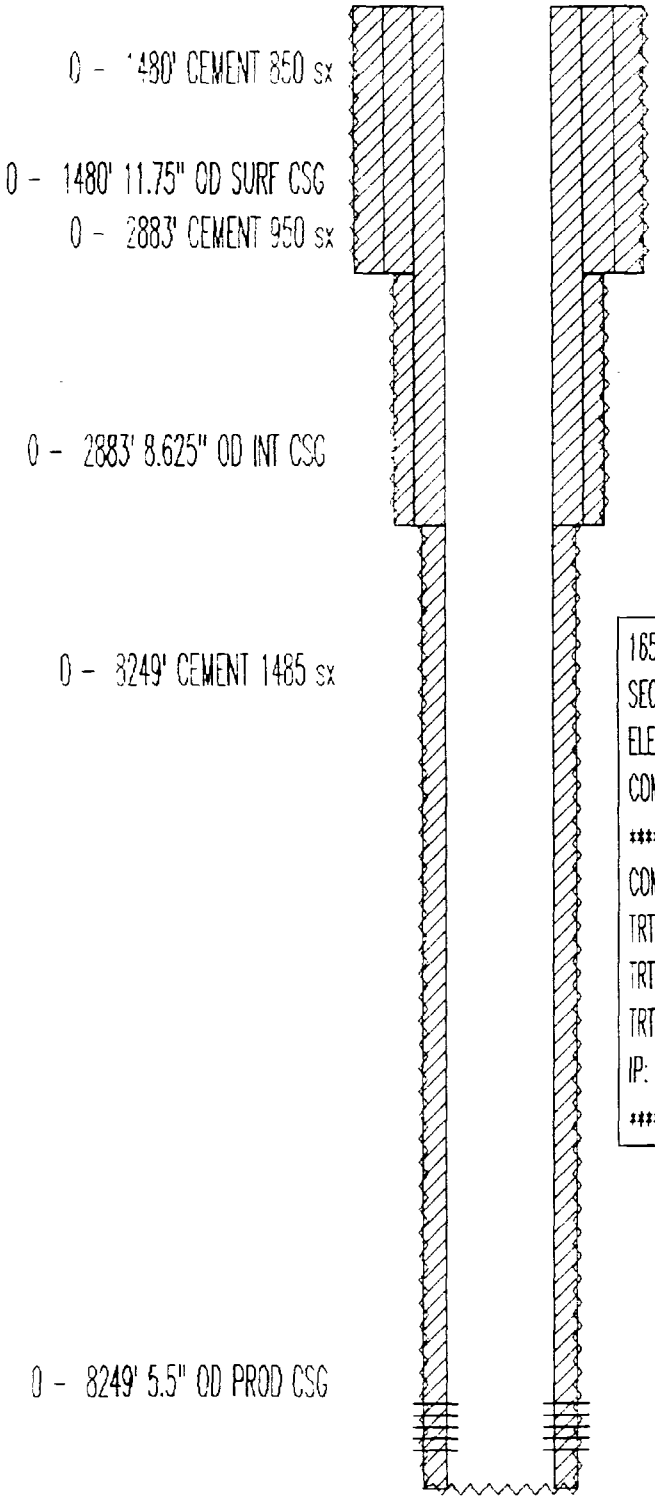
3400 - 8799' 7.875 " OD HOLE

8485 - 8655' PERFS ABO 8/63

KB ELEV: 3992'
PBTD: 7805'
TD: 8799'

PRODUCING
DRINKARD

MARATHON OIL
WARN STATE A/C-2 NO. 18
API# 3002531887

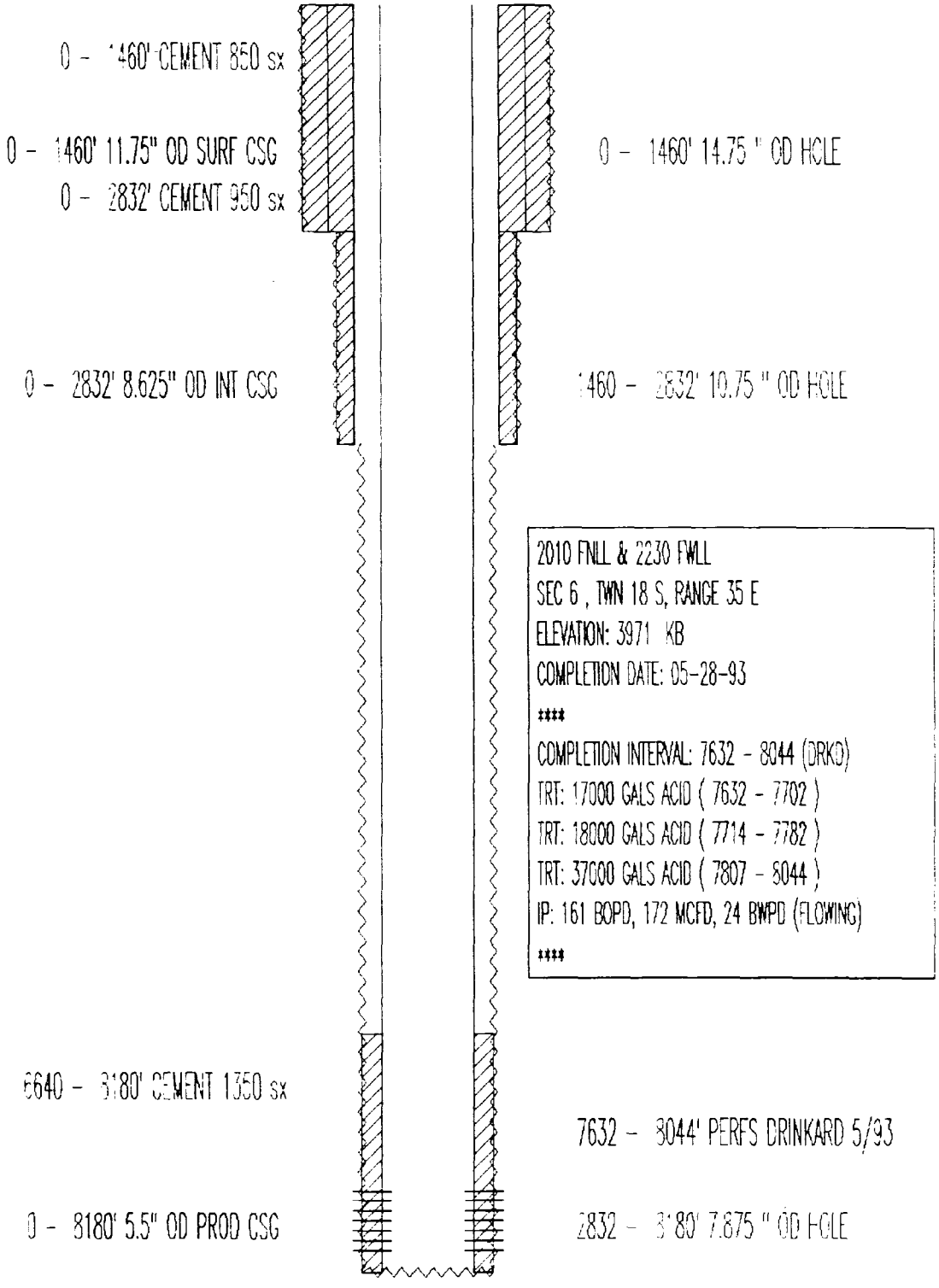


1650 FSL & 2035 FWL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3990 KB
COMPLETION DATE: 04-19-93
****
COMPLETION INTERVAL: 7762 - 8034 (DRKD)
TRT: 12000 GALS ACID (7976 - 8034)
TRT: 21800 GALS ACID (7860 - 7960)
TRT: 19150 GALS ACID (7762 - 7840)
IP: 185 BOPD, 139 MCFD, 24 BWPD (FLOWING)
****

PBTD: 8183'
TD: 8250'

PRODUCING
DRINKARD

MARATHON OIL
WARN STATE A/C-2 NO. 19
API# 3002531927

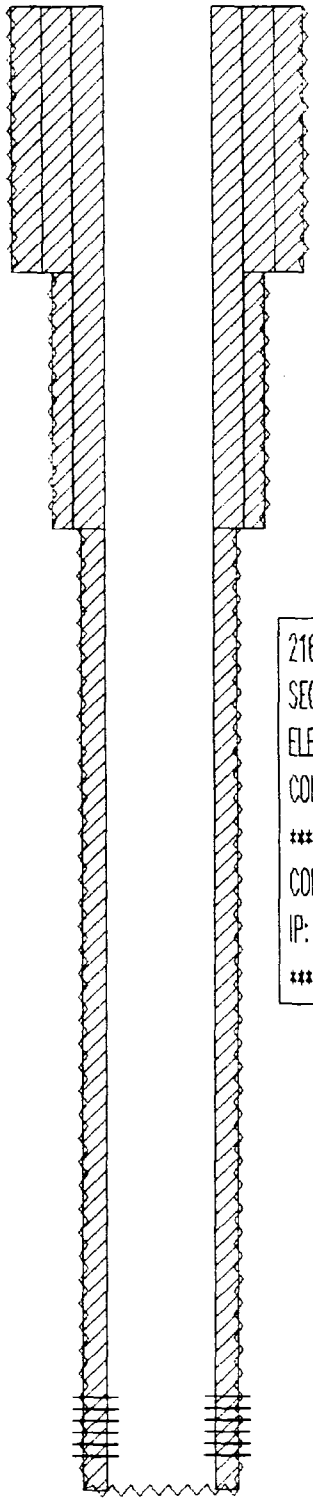


2010 FNLL & 2230 FWLL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3971 KB
COMPLETION DATE: 05-28-93
****
COMPLETION INTERVAL: 7632 - 8044 (DRKD)
TRT: 17000 GALS ACID (7632 - 7702)
TRT: 18000 GALS ACID (7714 - 7782)
TRT: 37000 GALS ACID (7807 - 8044)
IP: 161 BOPD, 172 MCFD, 24 BWPD (FLOWING)
****

KB ELEV: 3971'
PBTD: 8090'
TD: 8180'

PRODUCING
DRINKARD

MARATHON OIL
WARN STATE A/C-2 NO. 20
API# 3002531934



0 - 1453' CEMENT 1000 sx

0 - 1453' 11.75" OD SURF CSG

0 - 2865' CEMENT 850 sx

0 - 2865' 8.625" OD INT CSG

0 - 8166' CEMENT 1865 sx

0 - 8166' 5.5" OD PROD CSG

0 - 1453' 14.75 " OD HOLE

1453 - 2865' 10.75 " OD HOLE

2865 - 8166' 7.875 " OD HOLE

2160 FNL & 910 FWL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3979 KB
COMPLETION DATE: 06-21-93
****
COMPLETION INTERVAL: 7615 - 7977 (DRKD)
IP: 120 BOPD, 108 MCFD, 12 BWPD (FLOWING)
****

7615 - 7977' PERFS DRINKARD 6/93

KB ELEV: 3979'
PBTD: 8056'
TD: 8166'

PRODUCING
DRINKARD

MARATHON OIL
WARN STATE A/C-2 NO. 21
API# 3002531969

0 - 53' 16 " OD SURF CSG

0 - 53' CEMENT 0 sx

0 - 1465' CEMENT 750 sx

0 - 1465' 11.75" OD INT CSG

0 - 2823' CEMENT 900 sx

0 - 2823' 8.625" OD INT CSG

1050 - 8158' CEMENT 1560 sx

0 - 8158' 5.5" OD PROD CSG

0 - 53' 20 " OD HOLE

53 - 1465' 14.75 " OD HOLE

1465 - 2823' 10.75 " OD HOLE

1109 FNL & 1993 FWL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3988 KB
COMPLETION DATE: 07-28-93
****
COMPLETION INTERVAL: 7623 - 7989 (DRKD)
TRT: 29500 GALS ACID (7800 - 7989)
TRT: 19200 GALS ACID (7712 - 7771)
TRT: 15834 GALS ACID (7623 - 7693)
IP: 375 BOPD, 301 MCFD, 62 BWPD (FLOWING)
****

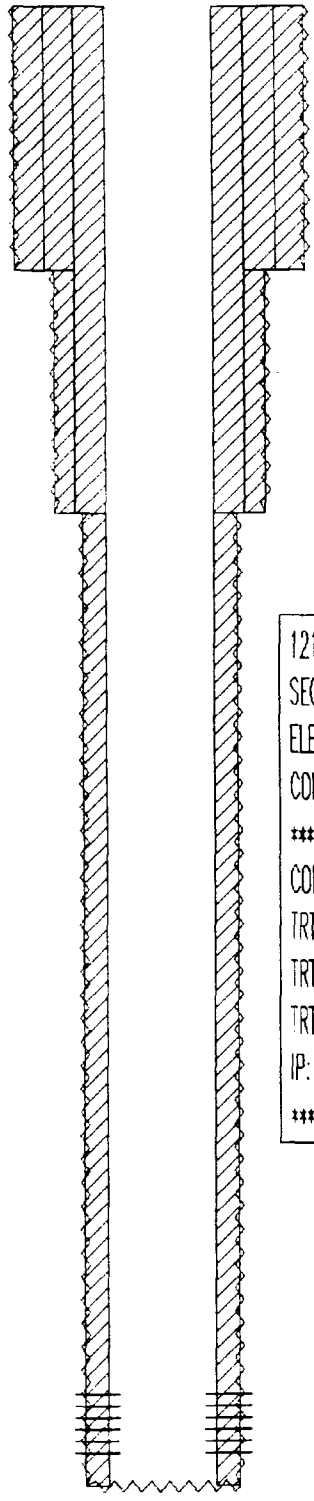
7623 - 7989' PERFS DRINKARD 7/93

2823 - 8200' 7.875 " OD HOLE

KB ELEV: 3988'
PBTD: 8069'
TD: 8200'

PRODUCING
DRINKARD

MARATHON OIL
WARN STATE A/C-2 NO. 22
API# 3002532034000O



0 - 1444' CEMENT 900 sx

0 - 1444' 11.75" OD SURF CSG

0 - 2787' CEMENT 1100 sx

0 - 2787' 8.625" OD INT CSG

0 - 8138' CEMENT 1780 sx

0 - 8138' 5.5" OD PROD CSG

0 - 1444' 14.75 " OD HOLE

1444 - 2787' 10.75 " OD HOLE

2787 - 8138' 7.875 " OD HOLE

1219 FNL & 890 FWL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3988 KB
COMPLETION DATE: 08-25-93
****
COMPLETION INTERVAL: 7598 - 7953 (DRKD)
TRT: 37700 GALS ACID (7783 - 7953)
TRT: 20800 GALS ACID (7676 - 7765)
TRT: 11500 GALS ACID (7598 - 7662)
IP: 247 BOPD, 260 MCFD, 48 BWPD (FLOWING)
****

7598 - 7953' PERFS DRINKARD 8/93

PBTD: 8046'
TD: 8138'

PRODUCING
DRINKARD

MARATHON OIL
WARN STATE A/C-2 NO. 23
API# 3002532187

0 - 40' CEMENT 0 sx

0 - 40' 16 " OD SURF CSG

0 - 40' 20 " OD HOLE

0 - 1477' CEMENT 800 sx

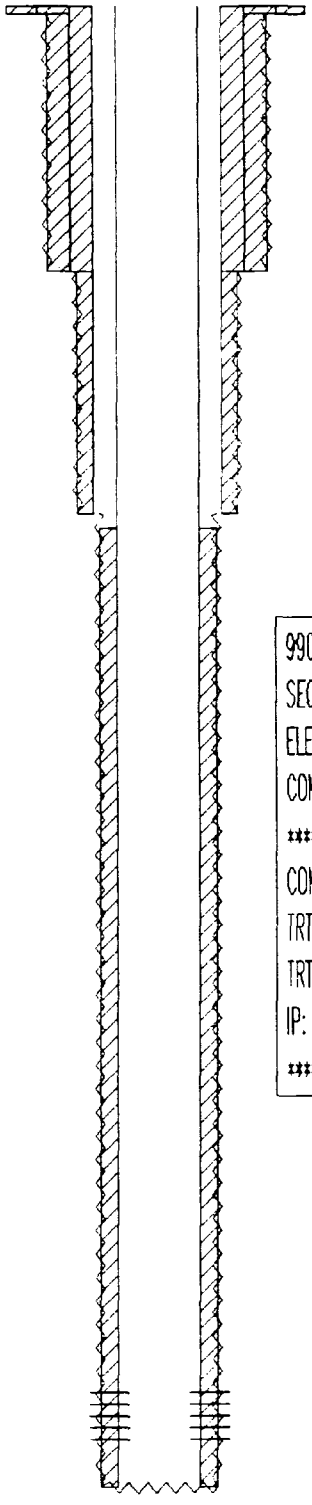
0 - 1477' 11.75" OD INT CSG

40 - 1477' 14.75 " OD HOLE

0 - 2836' CEMENT 800 sx

0 - 2836' 8.625" OD INT CSG

1477 - 2836' 10.75 " OD HOLE



990 FSLL & 1920 FWLL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3993 KB
COMPLETION DATE: 12-15-93
****
COMPLETION INTERVAL: 7747 - 8030 (DRKD)
TRT: 40000 GALS ACID (7870 - 8030)
TRT: 17500 GALS ACID (7747 - 7844)
IP: 235 BOPD, 239 MCFD, 177 BWPD (PUMPING)
****

2920 - 3300' CEMENT 1550 sx

7747 - 8030' PERFS DRINKARD 12/93

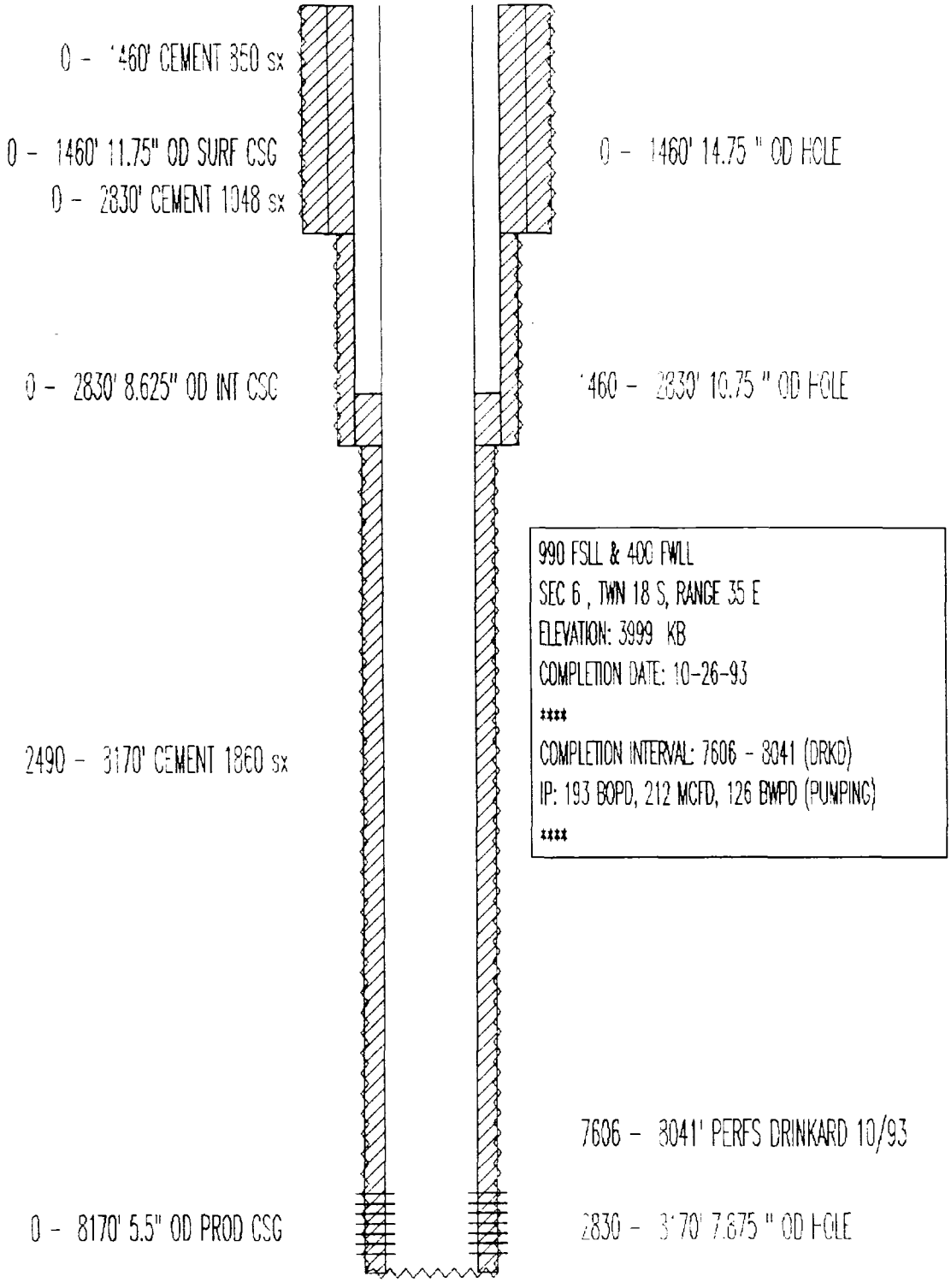
0 - 8300' 5.5" OD PROD CSG

2836 - 3300' 7.875 " OD HOLE

KB ELEV: 3993'
PBTD: 8205'
TD: 8300'

PRODUCING
DRINKARD

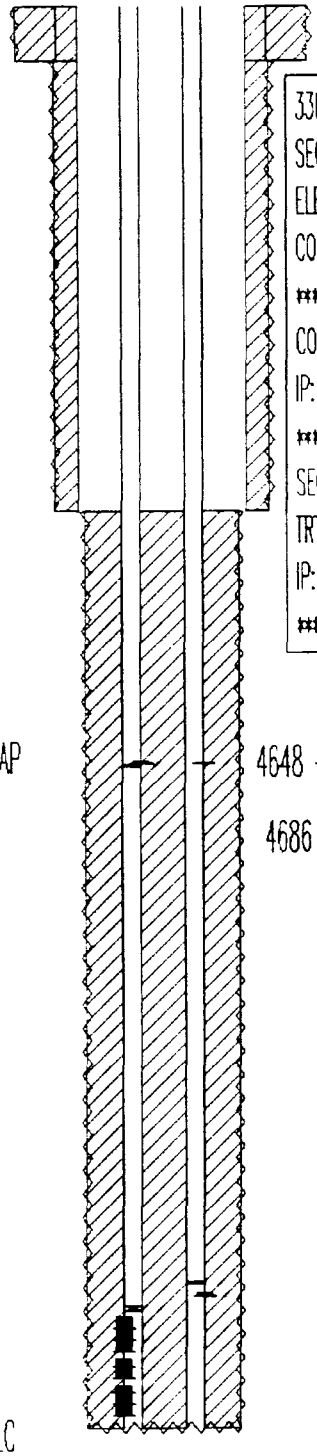
MARATHON OIL
WARN STATE A/C-2 NO. 24
API# 3002532189



SHUT IN
SAN ANDRES

TEXACO INC
CENTRAL VACUUM UNIT NO. 124
API# 3002503099

FORMERLY
N. M. "R" ST. NCT-4 NO. 1



0 - 336' 10.75" OD SURF CSG

0 - 336' CEMENT 300 sx

0 - 3128' CEMENT 750 sx

336 - 3128' 11" OD HOLE

0 - 3128' 8.625" OD INT CSG

0 - 336' 15" OD HOLE

330 FNL & 1904 FWL
SEC 7 , TWN 18 S, RANGE 35 E
ELEVATION: 3986 DF
COMPLETION DATE: 03-07-62
***
COMPLETION INTERVAL: 8573 - 8760 (ABRF)
IP: 422 BOPD, 0 MCFD, 0 BWPD (FLOWING)
***
SECOND CMPL INTRVL: 7997 - 8014 (DRKD)
TRT: 6000 GALS ACID (7997 - 8014)
IP: 44 BOPD, 0 MCFD, 44 BWPD (PUMPING)
***

4708 - 4720' CIBP 12' CMT CAP

4648 - 4697' PERFS SAN ANDRES

4686 - 4696' ABANDONED PERFS COMMUNICATE STRINGS

8074 - 8110' CIBP 36' CMT CAP

8143 - 8360' ABANDONED PERFS

8406 - 8528' ABANDONED PERFS

8573 - 8760' ABANDONED PERFS

3128 - 8840' CEMENT 1180 sx CALC

3128 - 8840' 7.875 " OD HOLE

7920 - 7938' PLUG HYDROMITE

7997 - 8014' ABANDONED PERFS DRINKARD

0 - 8836' 2.875" OD TBG

0 - 8832' 2.875" OD TBG

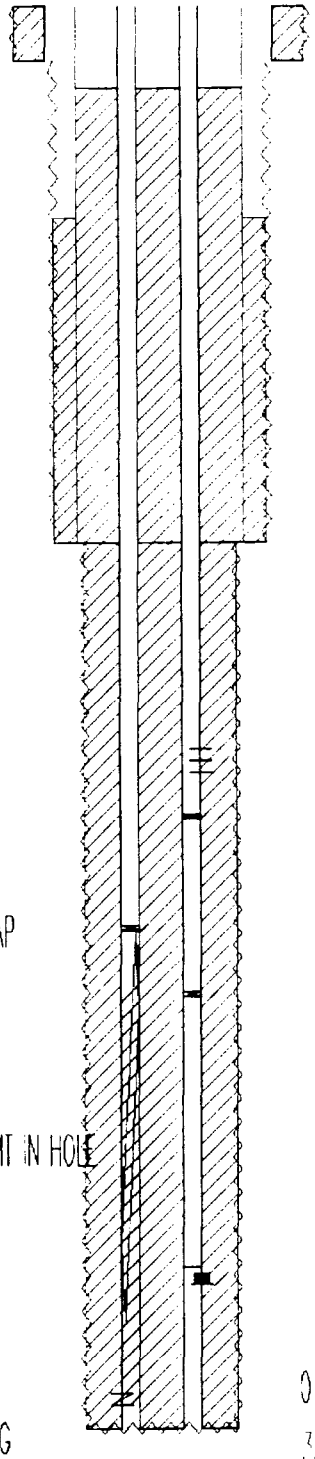
KB ELEV: 3986'

TD: 8840'

SHUT IN
SAN ANDRES

TEXACO INC
CENTRAL VACUUM UNIT NO. 125
API# 3002503100

FORMERLY
N. M. "R" NCT-4 NO. 2



990 FNL & 913 FWL
SEC 7 , TWN 18 S, RANGE 35 E
ELEVATION: 3985 DF
COMPLETION DATE: 02-22-62
****
COMPLETION INTERVAL: 8512 - 8656 (ABRF)
IP: 259 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****
SECOND CMPL INTRVL: 7840 - 7907 (DRKD)
TRT: 9000 GALS ACID (7840 - 7907)
IP: 17 BOPD, 0 MCFD, 0 BWPD (PUMPING)
****

0 - 336' 11.75" OD SURF CSG
0 - 336' CEMENT 300 sx
0 - 336' 15" OD HOLE

1300 - 3313' CEMENT 465 sx CALC
0 - 3313' 8.625" OD INT CSG

336 - 3313' 11" OD HOLE

500 - 8800' CEMENT 1400 sx TS

4554 - 4735' PERFS SAN ANDRES
5000 - 5030' PLUG 30' CMT CAP

6100 - 6130' CIBP 30' CMT CAP

5690 - 5720' CIBP 30' CMT CAP
6059 - 8656' CEMENT PLUG

5721 - 8139' BAR FISH 2-1/16" TBG CMT IN HOLE

7799 - 7802' CIBP
7840 - 7907' ABANDONED PERFS DRINKARD

8512 - 8656' SQUEEZE PERFS ABO

0 - 8793' 2.875" OD TBG

0 - 8790' 2.875" OD TBG

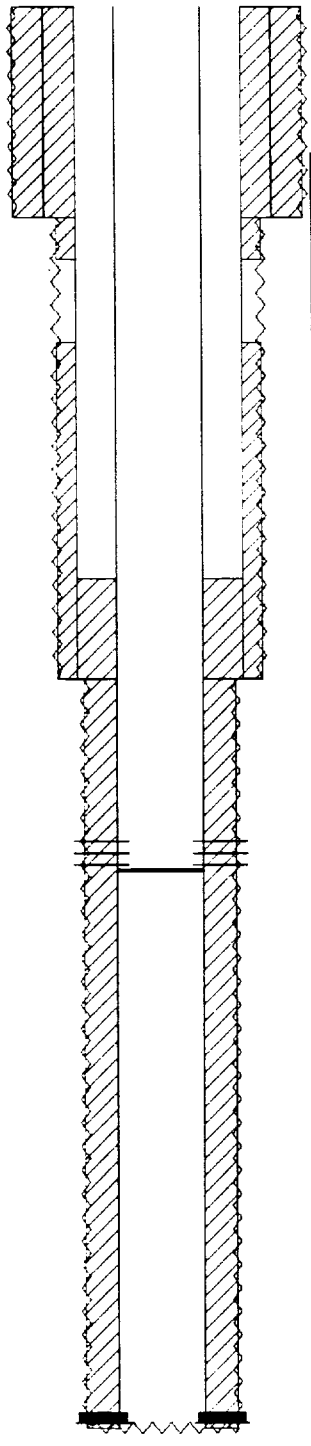
3313 - 8800' 7.875" OD HOLE

KB ELEV: 3985'
TD: 8800'

FORMERLY N. M. "O" ST. NO. 25

TEXACO INC
VGWU NO. 87
API# 3002521637

PRODUCING
GLORIETA



0 - 1499' CEMENT 1300 sx

0 - 1800' CEMENT BRDHD SQZ W/600 SX -TS

0 - 1499' 11.75" OD SURF CSG

0 - 1499' 15" OD HOLE

2090 FSLL & 2086 FELL
SEC 36 , TWN 17 S, RANGE 34 E
ELEVATION: 4001 DF
COMPLETION DATE: 01-23-66
****
COMPLETION INTERVAL: 10088 - 10164 (PSLV)
TRT: 12000 GALS ACID (10088 - 10164)
IP: 75 BOPD, 0 MCFD, 75 BWPD (S)
****

2400 - 4825' CEMENT 1100 sx CALC

0 - 4825' 8.625" OD INT CSG

1499 - 4825' 10.625" OD HOLE

6185 - 6205' CIBP 15' CMT CAP

5930 - 6160' PERFS GLORIETA 3/71, 10/72, 7/87

4100 - 10200' CEMENT 1050 sx CALC

0 - 10200' 4.5" OD PROD CSG

4825 - 10200' 7.875 " OD HOLE

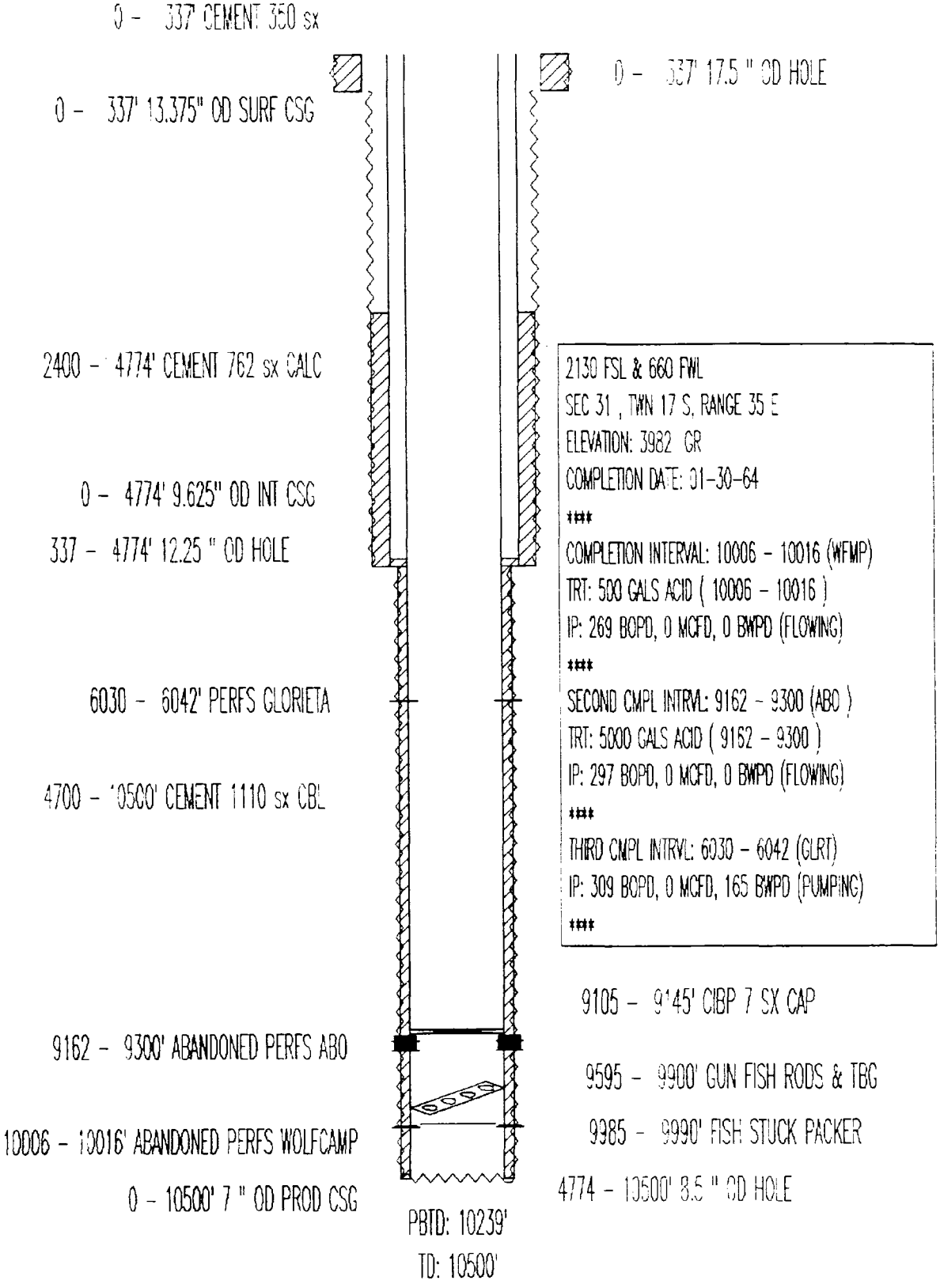
10088 - 10164' ABANDONED PERFS

TD: 10200'

PRODUCING
GLORIETA

TEXACO
VACUUM GLORIETA WEST UNIT #90
API# 3002520270

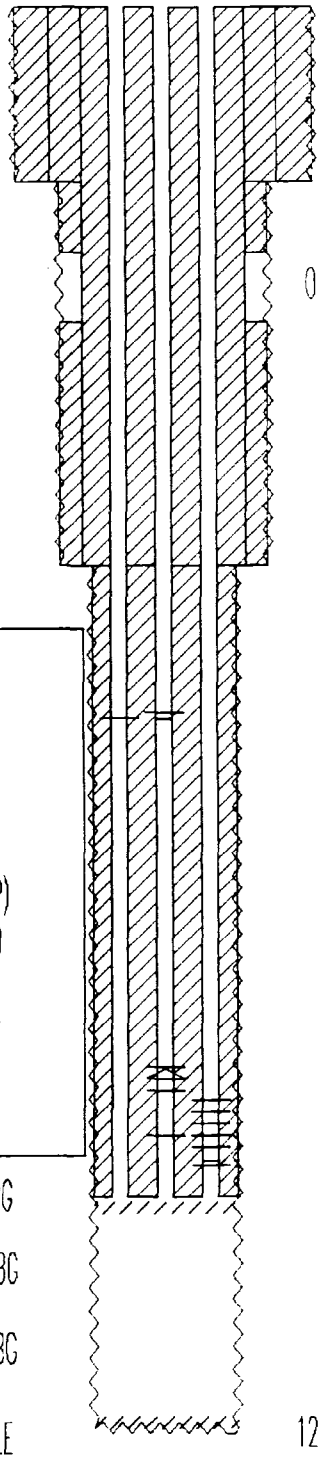
FORMERLY
SANTA FE BATTERY 2 NO. 87
PHILLIPS PETROLEUM



FORMERLY N. M. "M" ST. NO. 5

TEXACO INC
VGWU NO. 112
API# 3002520515

PRODUCING
GLORIETA



0 - 1492' CEMENT 1150 sx

0 - 1492' 13.375" OD SURF CSG

0 - 1492' 17.5 " OD HOLE

0 - 2100' CEMENT BRDHD SQZ W/650 SX - TS

2700 - 4788' CEMENT 1700 sx CALC

1492 - 4788' 12.25 " OD HOLE

0 - 4788' 9.625" OD INT CSG

0 - 10226' CEMENT 2250 SX

6100 - 6110' CIBP HYDROMITE CAP

6044 - 6046' PERFS GLORIETA

6076 - 6094' SQUEEZE PERFS 100 SX

560 FNL & 760 FWL
SEC 1 , TWN 18 S, RANGE 34 E
ELEVATION: 4010 ES
COMPLETION DATE: 11-16-63
****
COMPLETION INTERVAL: 9938 - 9960 (WFMP)
IP: 284 BOPD, 0 MCFD, 20 BWPD (FLOWING)
****
SECOND CMPL INTRVL: 6076 - 6094 (GLRT)
IP: 40 BOPD, 0 MCFD, 160 BWPD (S)
****

9915 - 9920' FISH JUNK RBP

9068 - 9214' SQUEEZE PERFS 225 SX ABO

9283 - 9310' SQUEEZE PERFS 125 SX ABO

9337 - 9800' PERFS WFCP

9700 - 9701' ABANDONED PERFS COMMUNICATE STRINGS

9938 - 9960' PERFS WFCP

10265 - 10365' CEMENT PLUG 40 SX

0 - 9473' 2.875" OD TBG

0 - 10226' 2.875" OD TBG

0 - 10202' 2.875" OD TBG

4788 - 12215' 8.5 " OD HOLE

12115 - 12215' CEMENT PLUG 40 SX

TD: 12215'

P & A

TEXACO INC
VGSAU NO. 68
API# 3002521110

FORMERLY
N. M. "R" NCT-3 NO. 16

0 - 402' 11.75" OD SURF CSG
0 - 402' CEMENT 350 sx
0 - 400' CEMENT
0 - 3250' CEMENT 1650 sx
400 - 3260' CEMENT SQZ 900 SX

0 - 402' 14.75 " OD HOLE
400 - 400' SQUEEZE PERFS CIRC W/120 SX
0 - 4686' CEMENT PLUG

0 - 3250' 8.625" OD INT CSG

402 - 3250' 10.75 " OD HOLE
3260 - 3260' SQUEEZE PERFS

1655 FSL & 330 FEL
SEC 1 , TWN 18 S, RANGE 34 E
ELEVATION: 3996 ES
COMPLETION DATE: 10-09-64
****
COMPLETION INTERVAL: 8472 - 8572 (ABO)
TRT: FRAC 15000 GALS 0 LBS (8472 - 8572)
IP: 29 BOPD, 0 MCFD, 0 BWPD (S)
****

4720 - 4755' CIBP 35' CMT CAP

4536 - 4686' ABANDONED PERFS SQZD W/ 170 SX

5999 - 6125' ABANDONED PERFS
5915 - 5950' CIBP 35' CMT CAP
6215 - 6235' CIBP 35' CMT CAP

3235 - 8800' CEMENT 1600 sx CBL

8472 - 8572' ABANDONED PERFS

0 - 8800' 2.875" OD TBG
3250 - 8800' 7.875 " OD HOLE

TD: 8800'

SHUT IN
WOLFCAMP & GLORIETA

TEXACO INC
NEW MEXICO "L" STATE NO. 6
API# 3002520514

0 - 1510' CEMENT 1200 sx

0 - 1510' 13.375" OD SURF CSG

770 FNL & 2090 FEL
SEC 1 , TWN 18 S, RANGE 34 E
ELEVATION: 4005 ES
COMPLETION DATE: 11-16-63
****
COMPLETION INTERVAL: 9939 - 9964 (WFMP)
IP: 134 BOPD, 0 MCFD, 70 BWPD (FLOWING)
****
SECOND CMPL INTRVL: 6103 - 6105 (GLRT)
TRT: 500 GALS ACID (6103 - 6105)
IP: 268 BOPD, 0 MCFD, 40 BWPD (FLOWING)
****

2490 - 11318' CEMENT 1600 SX TS

1600 - 3000' CEMENT PLUG

0 - 1510' 17.5 " OD HOLE

1535 - 1535' SQUEEZE PERFS SQZD W/670 SX

0 - 1535' CEMENT BRDHD SQZ W/1000 SX

1510 - 4800' 12.25 " OD HOLE

0 - 4800' 9.625" OD INT CSG

0 - 4800' CEMENT 1700 sx

5961 - 6152' PERFS GLORIETA 5/61 & 2/71

6103 - 6105' PERFS

6386 - 6390' RETAINER

6684 - 6697' SQUEEZE PERFS 28 SX

9200 - 9205' RETAINER

9246 - 10220' SQUEEZE PERFS 150 SX

9939 - 9964' PERFS

10770 - 10790' CIBP HYDROMITE CAP

10872 - 11234' SQUEEZE PERFS 10 SX

0 - 10567' 2.875" OD TBG

11267 - 11270' FISH JUNK CBP

0 - 11300' 2.875" OD TBG

11400 - 11500' CEMENT PLUG

0 - 11318' 2.875" OD TBG

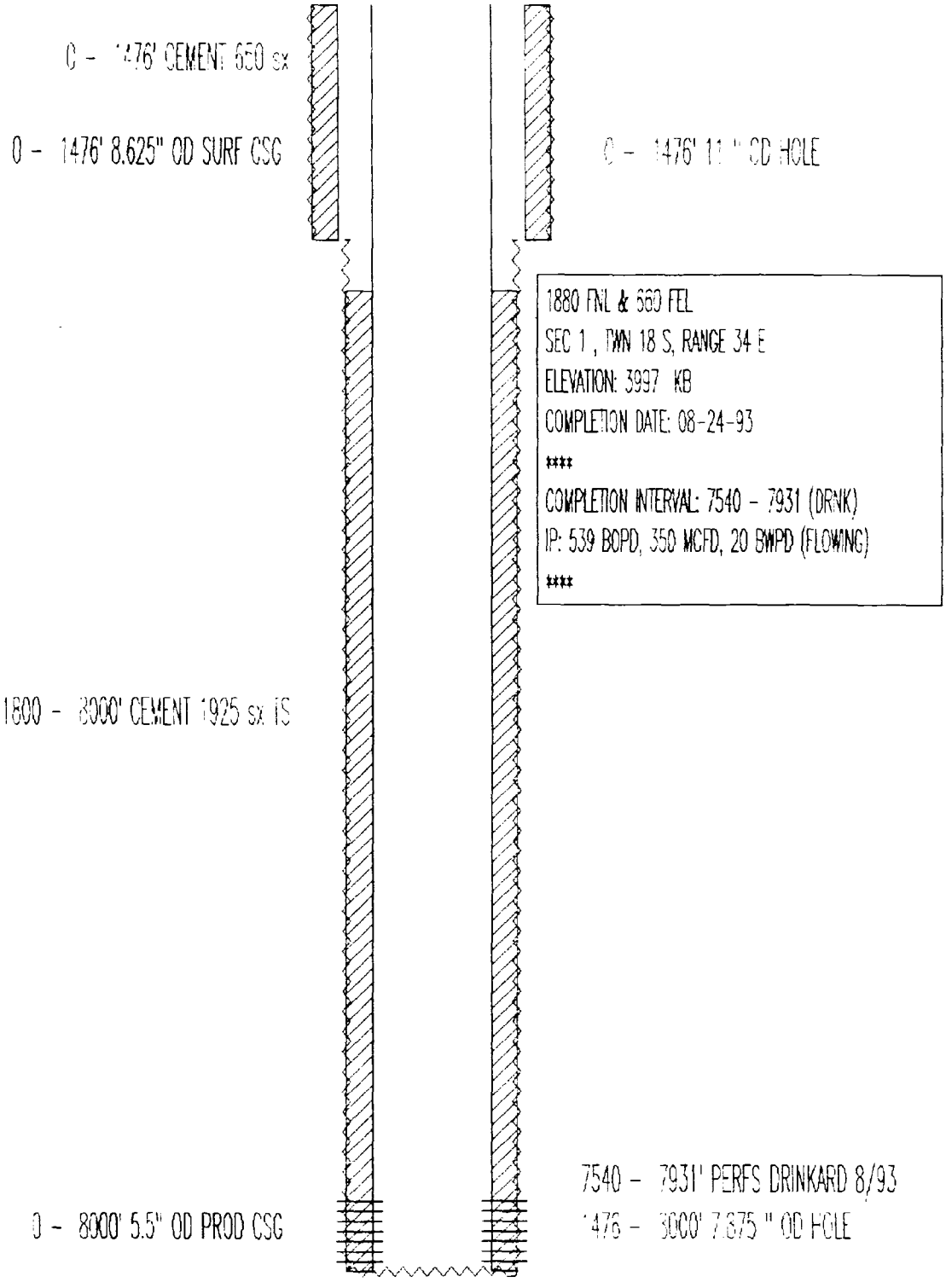
4800 - 12255' 8.5 " OD HOLE

12155 - 12255' CEMENT PLUG

TD: 12255'

PRODUCING
DRINKARD

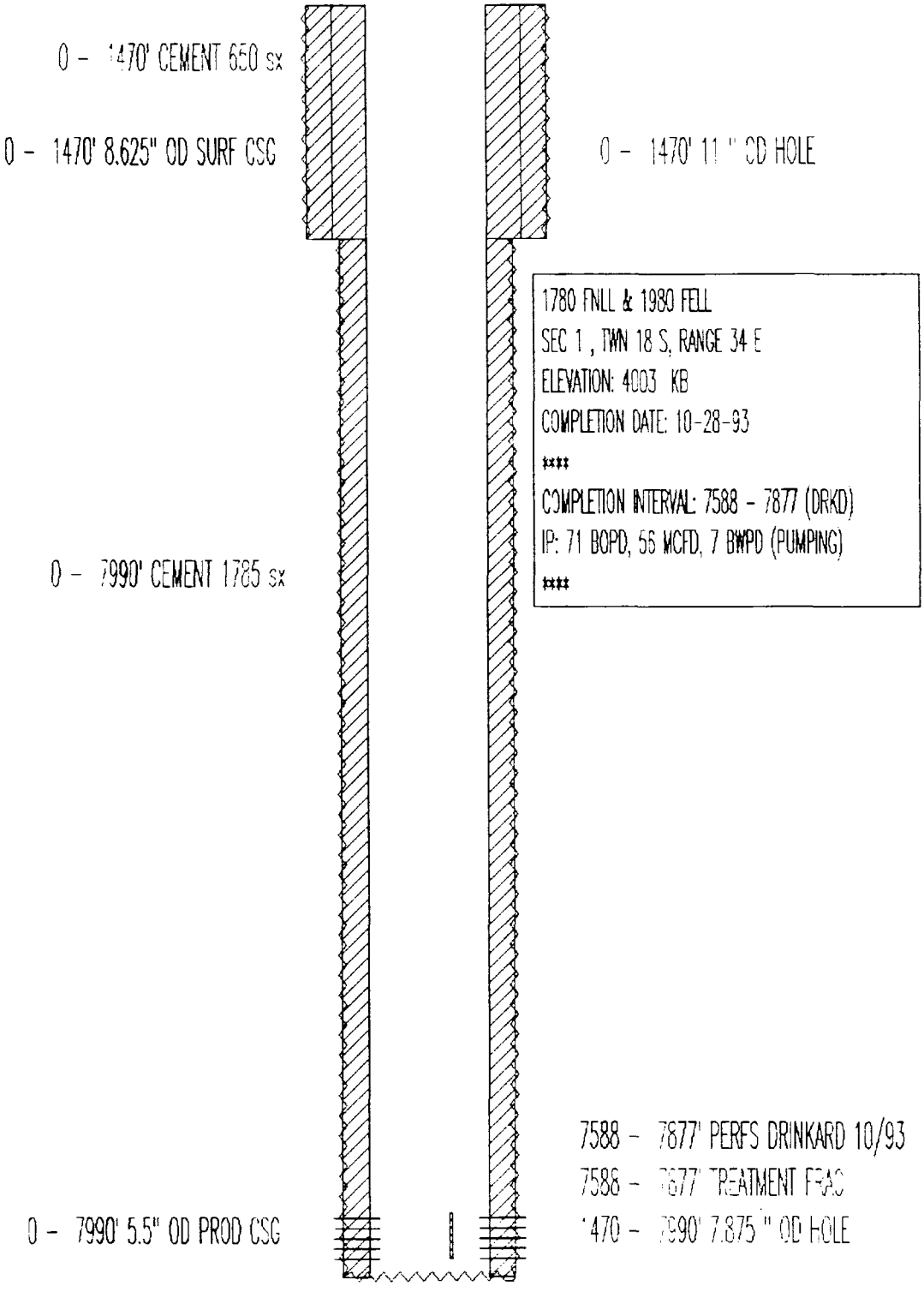
TEXACO EXPL & PROD
NEW MEXICO "L" STATE NO. 12
API# 3002531992



KB ELEV: 3997'
PBTD: 7966'
TD: 8000'

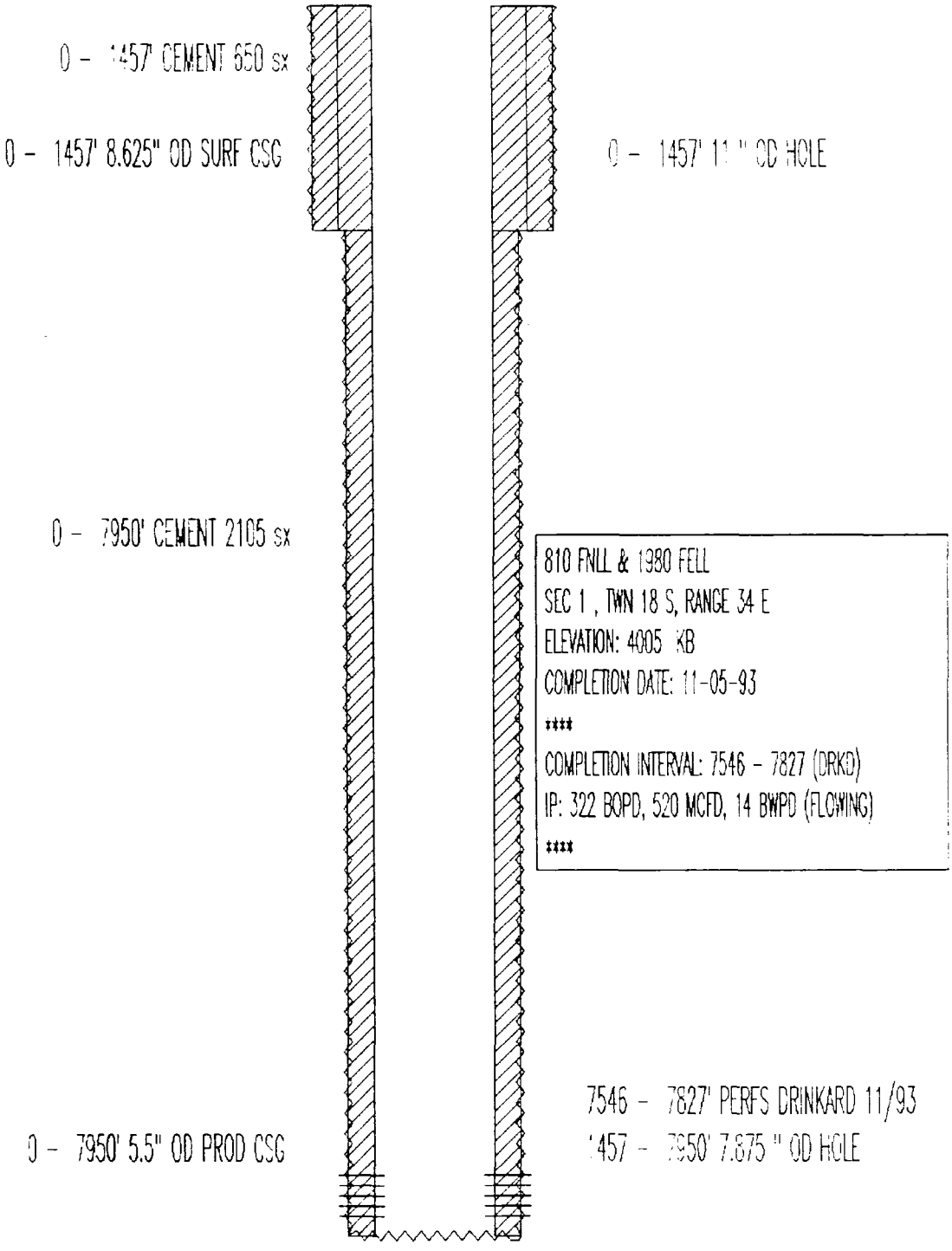
PRODUCING
DRINKARD

TEXACO EXPL & PROD
NEW MEXICO "L" STATE NO. 13
API# 3002532007



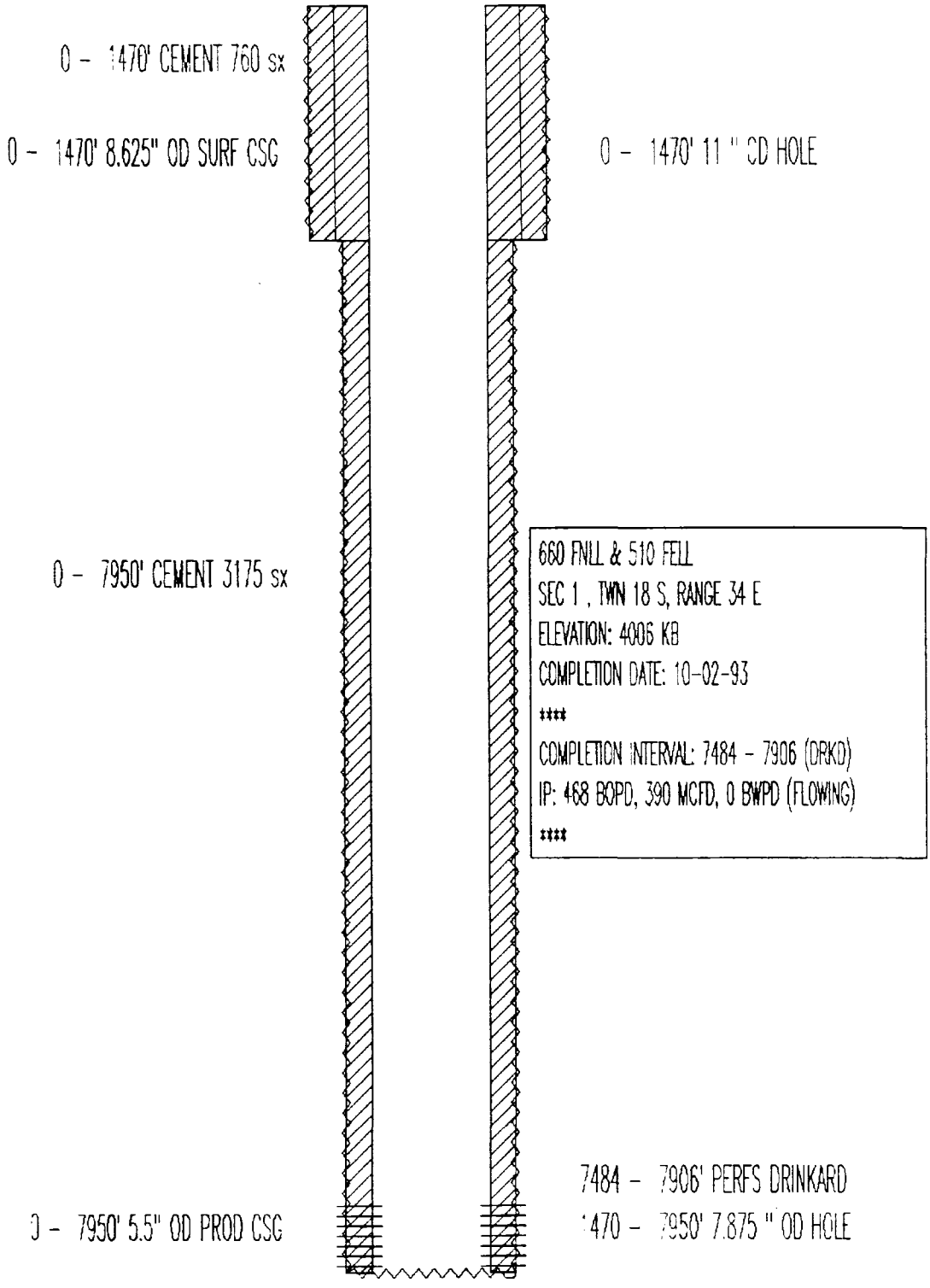
PRODUCING
DRINKARD

TEXACO EXPL & PROD
NEW MEXICO "L" STATE NO. 14
API# 3002532008



PRODUCING
DRINKARD

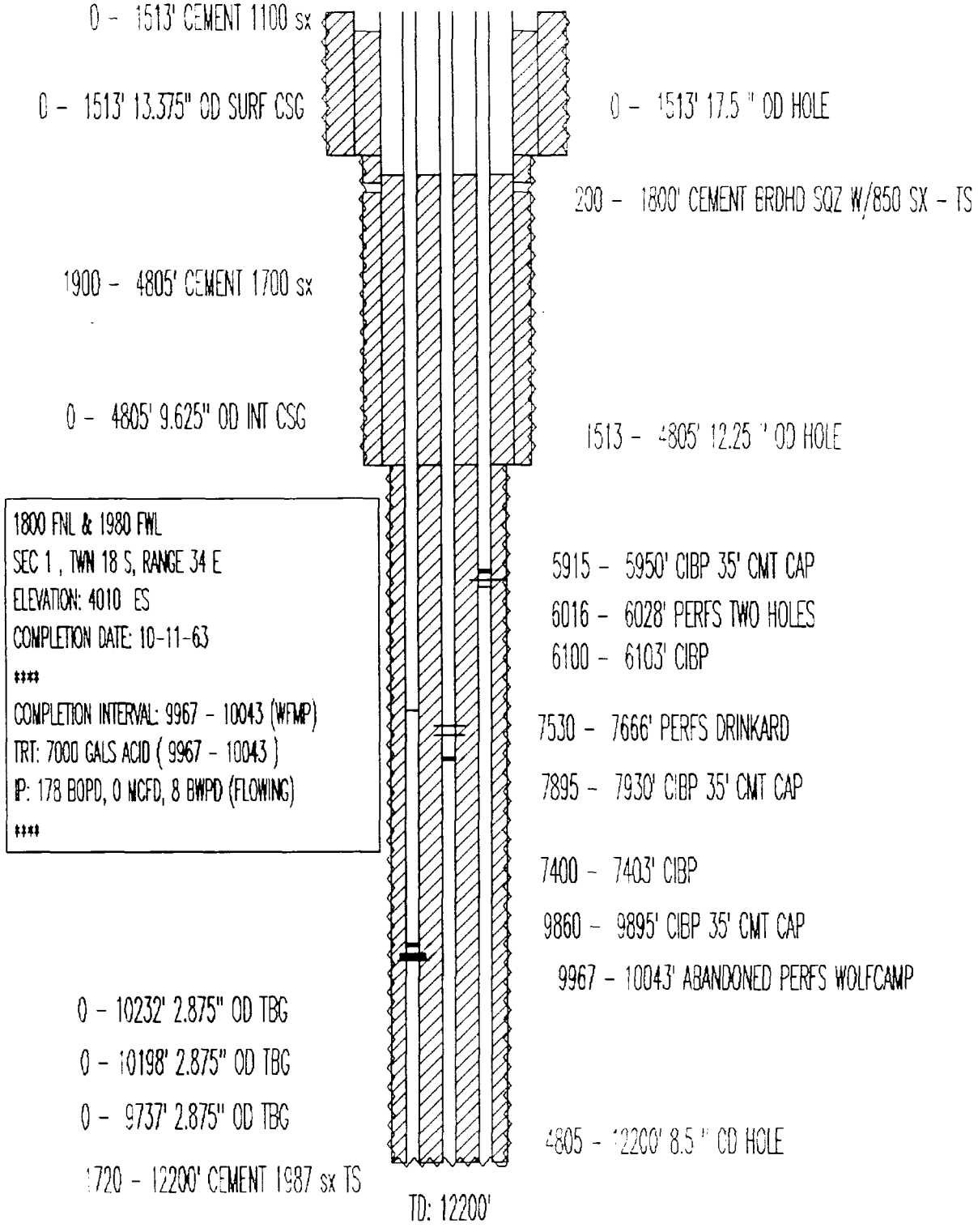
TEXACO EXPL & PROD
NEW MEXICO "L" STATE NO. 15
API# 3002532009



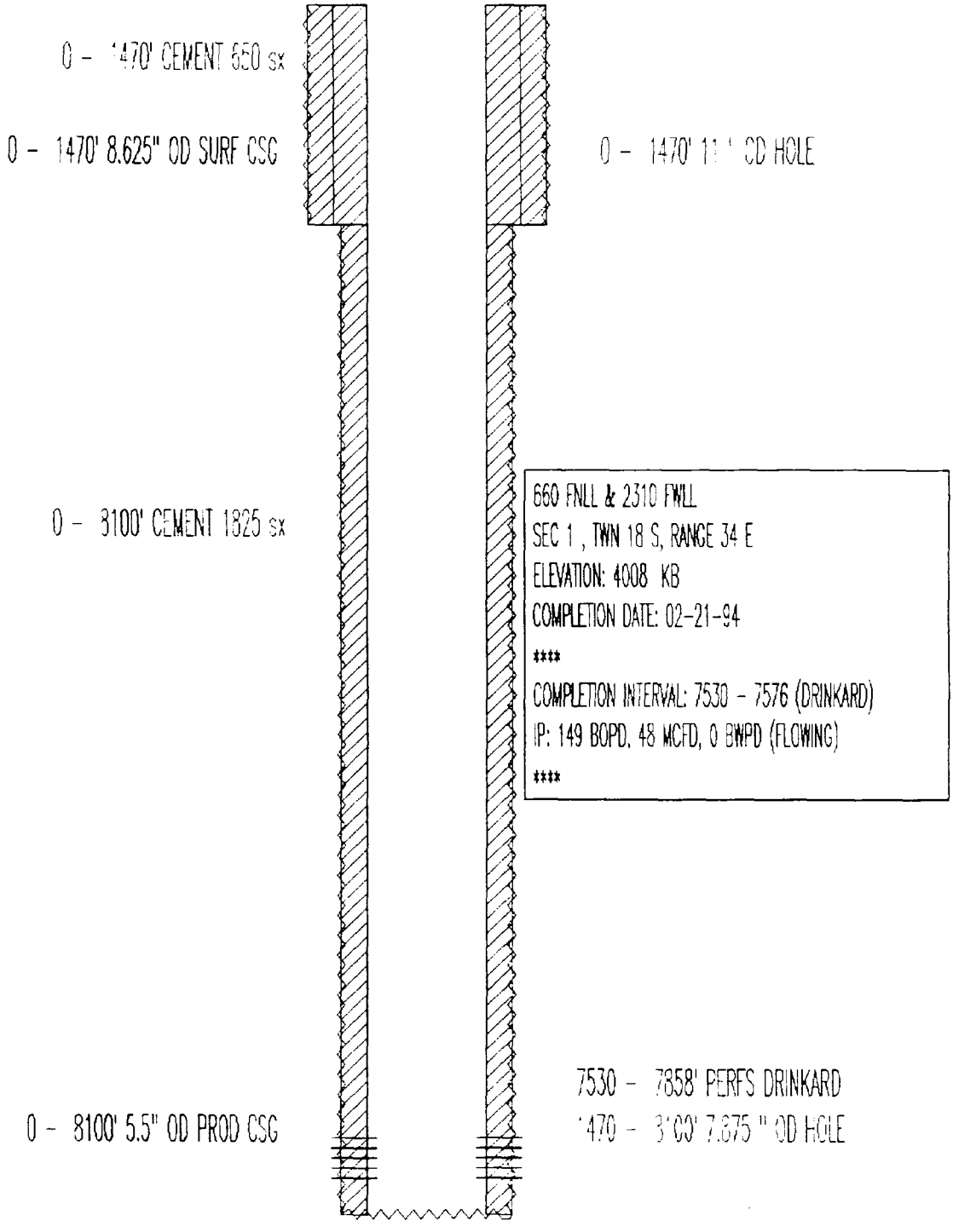
KB ELEV: 4006'
PBTD: 7930'
TD: 7950'

PRODUCING
DRINKARD

TEXACO INC
NEW MEXICO "M" ST. NO. 7
API# 3002520494

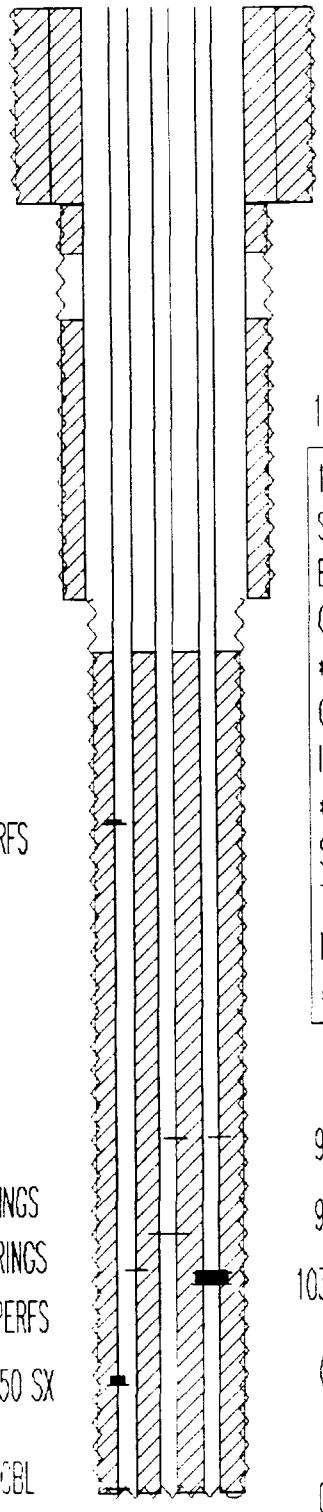


TEXACO EXPL & PROD
NEW MEXICO "M" STATE NO. 9
API# 3002532016



KB ELEV: 4008'
PBTD: 8053'
TD: 8100'

TEXACO INC
NEW MEXICO"O"ST. NCT-1 NO. 14
API# 3002520008



0 - 1593' CEMENT 1200 sx
0 - 2000' CEMENT BRDHD SQZ W/800SX -TS
0 - 1593' 13.375" OD SURF CSG

0 - 1593' 17.5 " OD HOLE

2545 - 4825' CEMENT 1700 sx CALC

0 - 4825' 9.625" OD INT CSG

1593 - 4825' 12.25 " OD HOLE

1874 FSL & 2086 FEL
SEC 36 , TWN 17 S, RANGE 34 E
ELEVATION: 3992 GR
COMPLETION DATE: 07-26-63
****
COMPLETION INTERVAL: 9954 - 10036 (WFMP)
IP: 402 BOPD, 0 MCFD, 21 BWPD (FLOWING)
****
SECOND CMPL INTRVL: 9170 - 9254 (ABO)
TRT: 1000 GALS ACID (9170 - 9254)
IP: 238 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****

6649 - 6682' ABANDONED PERFS

9170 - 9254' PERFS

9254 - 9260' PERFS COMMUNICATE STRINGS

9954 - 10036' PERFS

10331 - 10336' PERFS COMMUNICATE STRINGS

10344 - 10462' ABANDONED PERFS

11202 - 11270' ABANDONED PERFS

0 - 10818' 2.875" OD TBG

12114 - 12122' SQUEEZE PERFS 50 SX

4825 - 12154' 8.75" OD HOLE

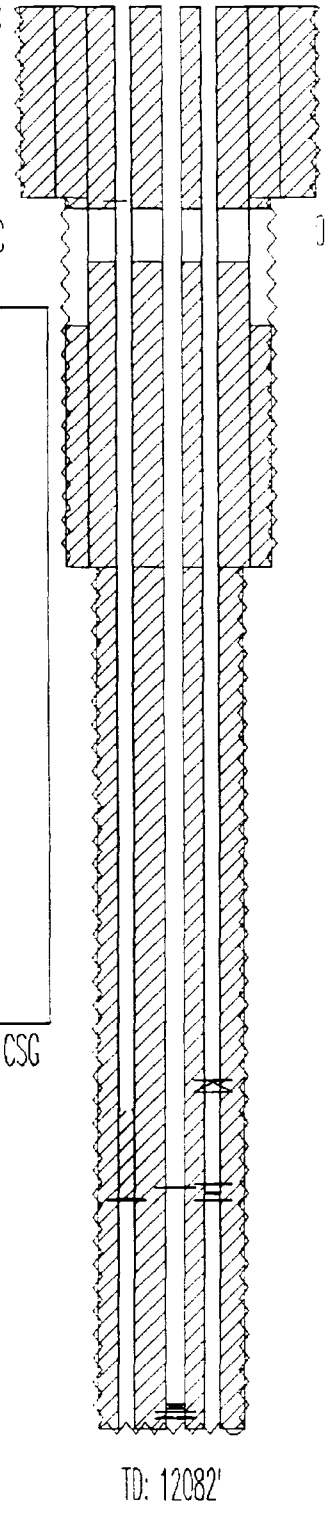
5270 - 12154' CEMENT 1250 sx CBL

0 - 10816' 2.875" OD TBG

0 - 12152' 3.5" OD TBG

TD: 12154'

TEXACO E & P INC.
N.M. "O" ST. NCT-1 NO. 17
API# 3002520125



0 - 1612' CEMENT 1200 sx

0 - 1612' 13.375" OD SURF CSG

1640 - 1640' SQUEEZE PERFS

0 - 1700' CEMENT CIRC

0 - 1612' 17.5 " OD HOLE

0 - 1700' CEMENT SQZ TO SURF W/1350 SX

760 FSL & 2080 FWL
SEC 36 , TWN 17 S, RANGE 34 E
ELEVATION: 3997 GR
COMPLETION DATE: 06-22-63
****
COMPLETION INTERVAL: 11980 - 11990 (DVNN)
TRT: 2000 GALS ACID (11980 - 11990)
IP: 301 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****
SECOND CMPL INTRVL: 10130 - 10140 (PSLV)
IP: 222 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****
THIRD CMPL INTRVL: 9992 - 10004 (WFMP)
IP: 101 BOPD, 0 MCFD, 5 BWPD (FLOWING)
****

1612 - 4750' 12.25 " OD HOLE

2700 - 4750' CEMENT 1700 sx CALC

0 - 4750' 9.625" OD INT CSG

9358 - 9380' RESTR ID COLLAPSED CSG

9380 - 10140' CEMENT PLUG

10130 - 10140' ABANDONED PERFS

0 - 10964' 2.875" OD TBG

0 - 12082' 3.5" OD TBG

0 - 10975' 2.875" OD TBG

2160 - 12082' CEMENT 1325 SX

4750 - 12082' 8.75" OD HOLE

TD: 12082'

9962 - 10029' PERFS WFCP

10070 - 10080' RETAINER

9097 - 9224' SQUEEZE PERFS 450 SX

9992 - 10004' SQUEEZE PERFS 50 SX

10130 - 10140' SQUEEZE PERFS 100 SX

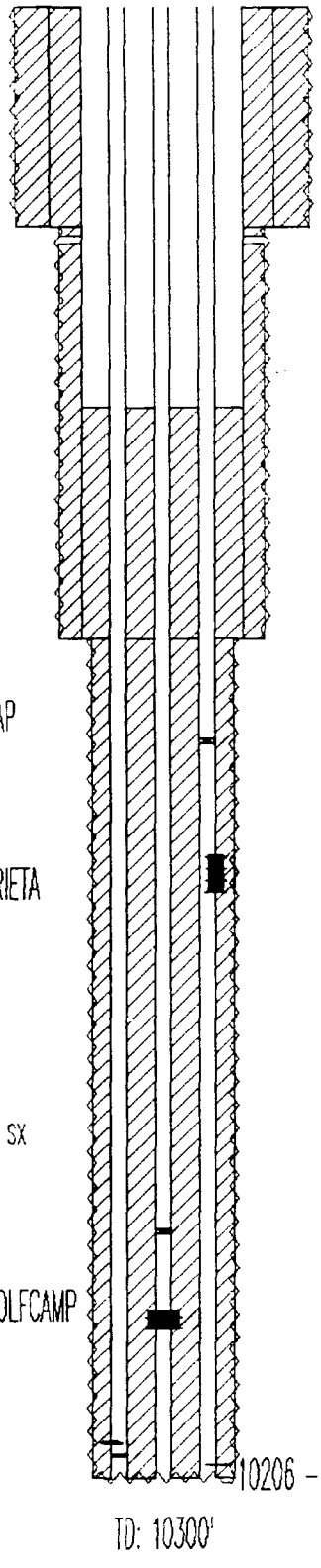
11875 - 11910' CIBP 25' HYDROMITE CAP

11980 - 11990' ABANDONED PERFS DEVN

11934 - 11942' ABANDONED PERFS DEVN

SHUT IN
GLORIETA

TEXACO INC
NEW MEXICO "O" STATE NO. 24
API# 3002520946



0 - 1534' CEMENT 1200 sx

0 - 1600' CEMENT BRDNHD SQZ W/900 SX

0 - 1534' 13.375" OD SURF CSG

0 - 1534' 17.5 " OD HOLE

860 FSL & 660 FEL
SEC 36 , TWN 17 S, RANGE 34 E
ELEVATION: 3995 KB
COMPLETION DATE: 07-04-64
****
COMPLETION INTERVAL: 10042 - 10062 (WFMP)
TRT: 2000 GALS ACID (10042 - 10062)
IP: 89 BOPD, 0 MCFD, 22 BWPD (S)
****
SECOND CMPL INTRVL: 9133 - 9263 (ABO)
TRT: 4500 GALS ACID (9133 - 9263)
IP: 94 BOPD, 0 MCFD, 0 BWPD (S)
****
THIRD CMPL INTRVL: 5942 - 5954 (GLRT)
TRT: 500 GALS ACID (5942 - 5954)
IP: 653 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****

1650 - 4418' CEMENT 1700 sx CALC

0 - 4418' 9.625" OD INT CSG

1534 - 4418' 12.25 " OD HOLE

5120 - 5155' CIBP 30' CMT CAP

5942 - 6200' ABANDONED PERFS GLORIETA

2800 - 10300' CEMENT 2400 sx

8560 - 8595' CIBP 30' CMT CAP

10042 - 10062' ABANDONED PERFS WOLFCAMP

9133 - 9263' ABANDONED PERFS ABO

0 - 10294' 2.875" OD TBG

10134 - 10155' CIBP 16' HYDROMITE CAP

0 - 10289' 2.875" OD TBG

4418 - 10300' 8.5 " OD HOLE

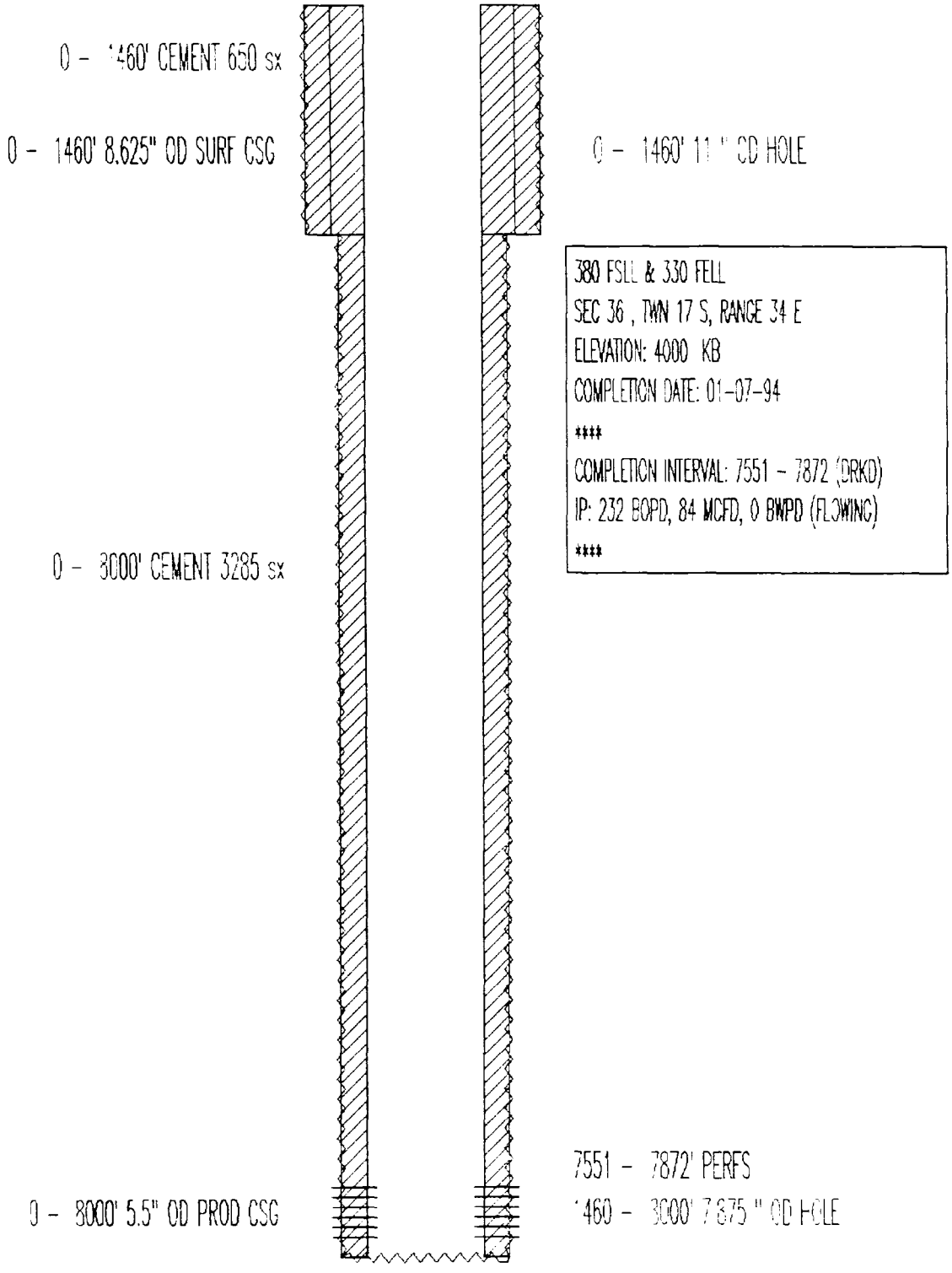
0 - 10300' 2.875" OD TBG

10206 - 10212' SQUEEZE PERFS PENN REEF 40 SX

TD: 10300'

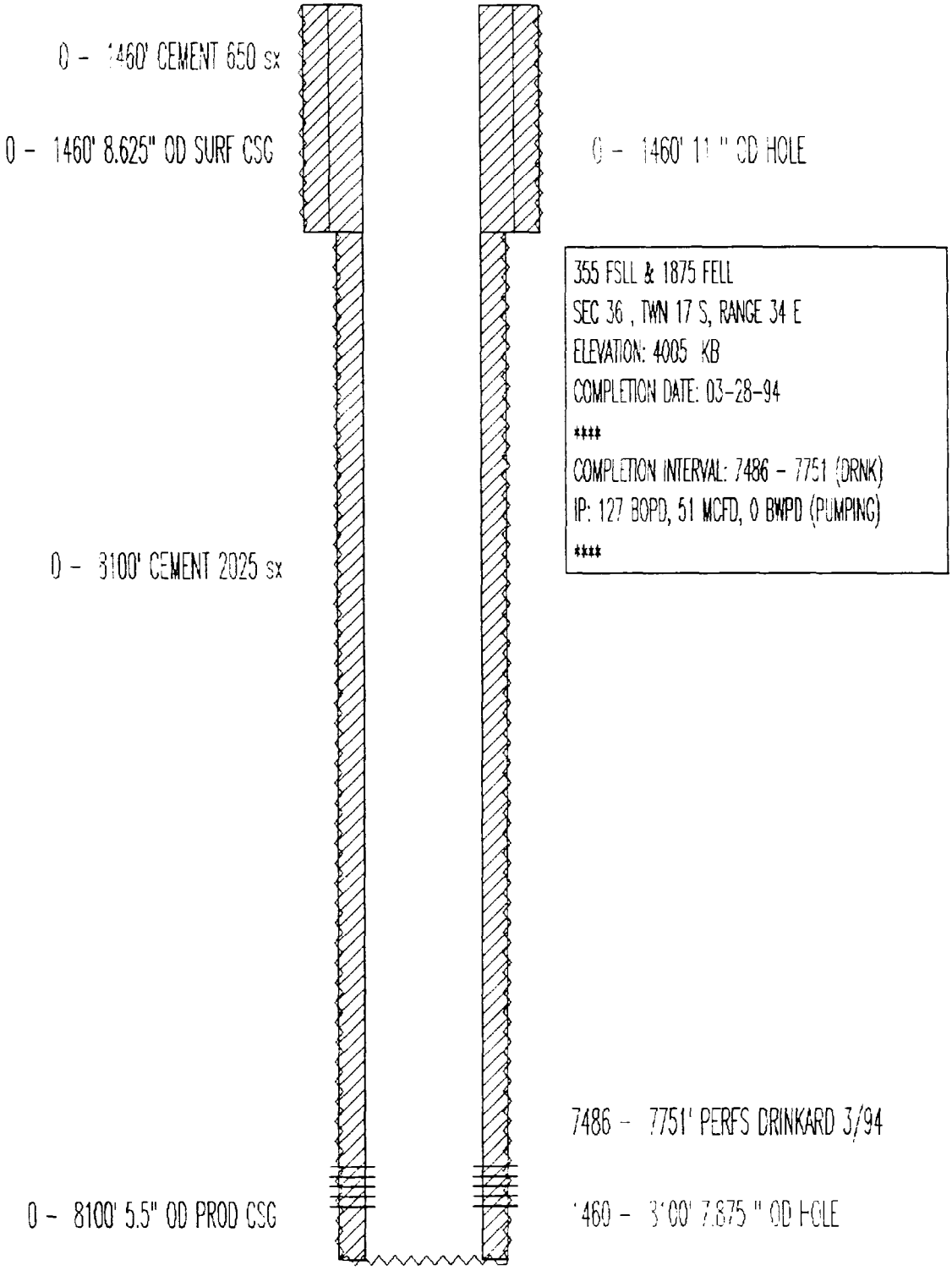
PRODUCING
DRINKARD

TEXACO EXPL & PROD
NEW MEXICO "O" STATE NO. 34
API# 3002532271

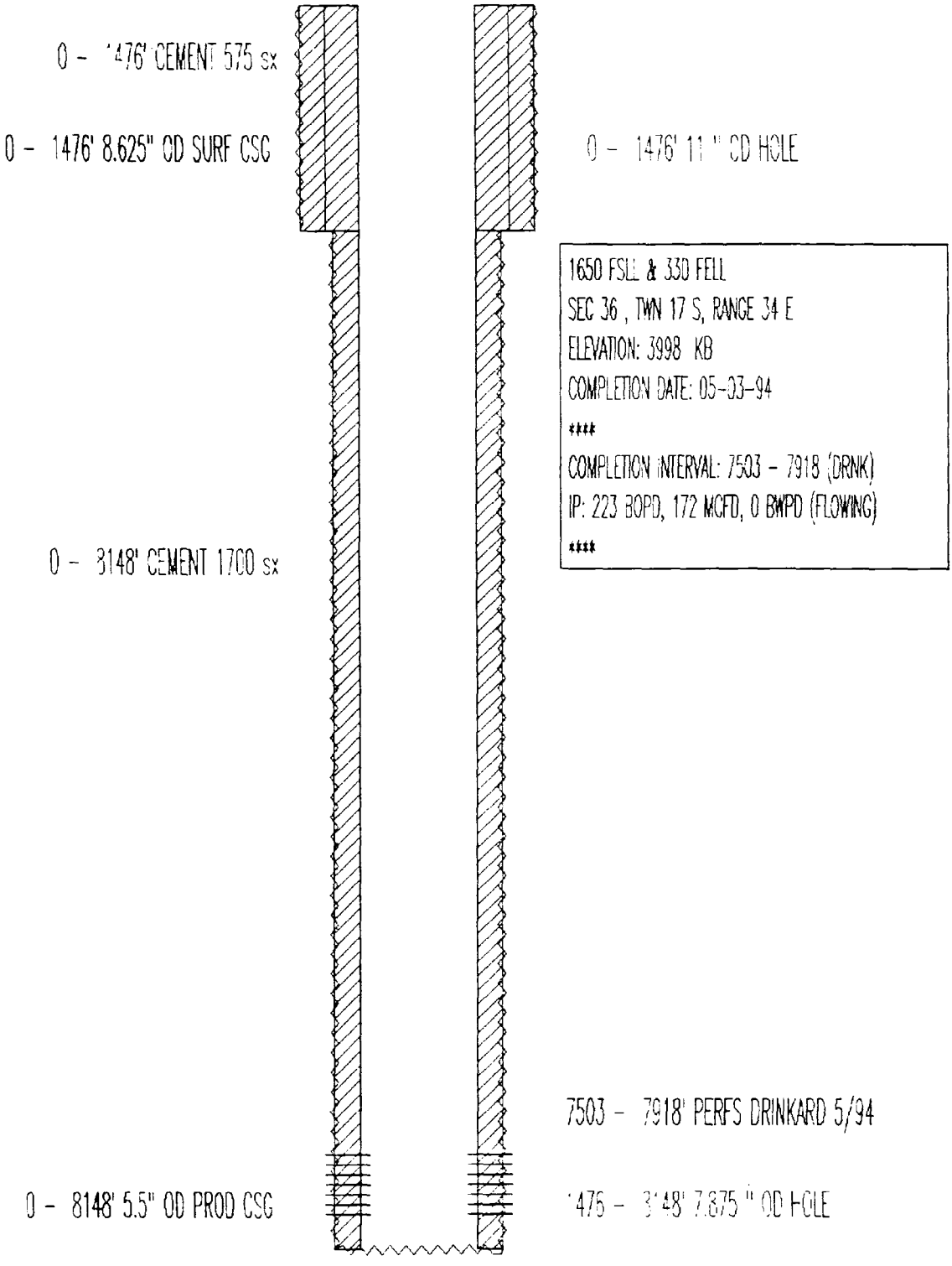


PRODUCING
DRINKARD

TEXACO EXPL & PROD
NEW MEXICO "O" STATE NO. 35
API# 3002532338



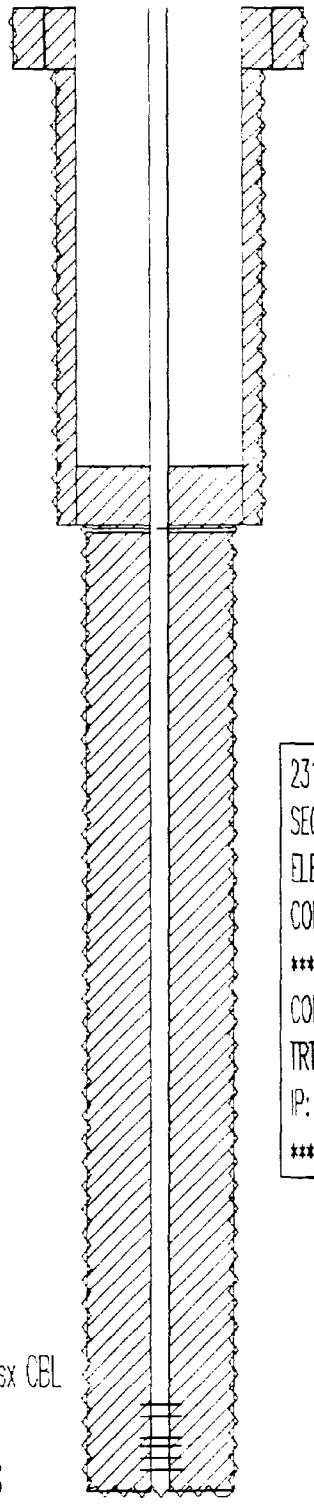
TEXACO EXPL & PROD
NEW MEXICO "O" STATE NO. 37
API# 3002532450



KB ELEV: 3998'
PBTD: 8029'
TD: 8148'

SHUT IN
ABO REEF

TEXACO INC
NEW MEXICO "R"ST. NCT-1 NO. 6
API# 3002520053



0 - 357' CEMENT 350 sx
0 - 357' 11.75" OD SURF CSG
0 - 357' 15.00" OD HOLE
0 - 3080' CEMENT 1600 sx
2731 - 3101' CEMENT 960 SX TS
0 - 3080' 8.625" OD INT CSG
357 - 3080' 10.625" OD HOLE
3100 - 3101' SQUEEZE PERFS

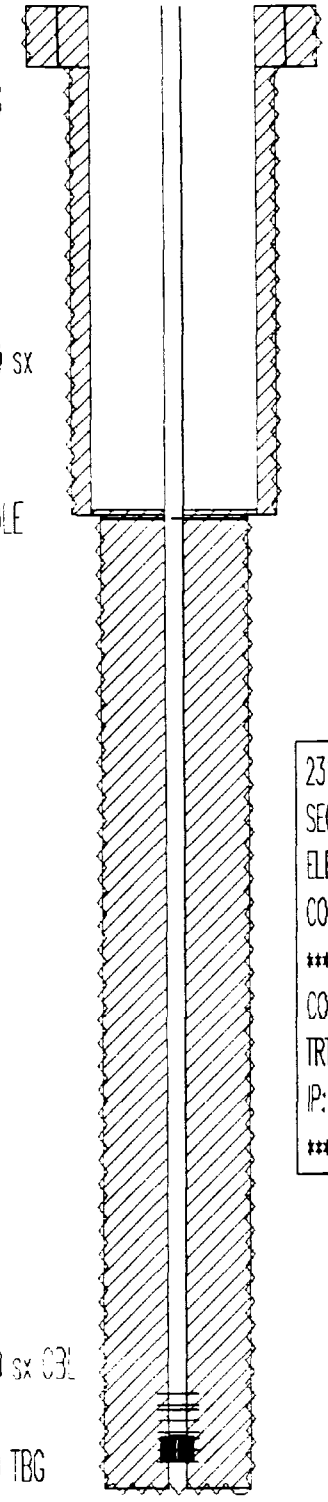
2310 FNL & 760 FEL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3980 DF
COMPLETION DATE: 05-06-63
****
COMPLETION INTERVAL: 8554 - 8718 (ABO)
TRT: 9000 GALS ACID (8554 - 8718)
IP: 330 BOPD, 0 MCFD, 17 BWPD (FLOWING)
****

8275 - 8403' PERFS 9/73
8462 - 8525' PERFS 4/69
3080 - 8850' 7.625" OD HOLE
8554 - 8718' PERFS
3130 - 8350' CEMENT 1300 sx CBL
0 - 8849' 2.875" OD TBG

TD: 8850'

SHUT IN
ABO REEF

TEXACO INC
NEW MEXICO "R"ST. NCT-1 NO. 7
API# 3002520503



0 - 360' CEMENT 400 sx

0 - 360' 11.75" OD SURF CSG

0 - 360' 15.00" CD HOLE

0 - 3032' CEMENT 1650 sx

0 - 3032' 8.625" OD INT CSG

360 - 3032' 10.625" CD HOLE

3050 - 3050' SQUEEZE PERFS

3000 - 3050' CEMENT SQZ W 50 SX CALC

2310 FNL & 1650 FEL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3983 ES
COMPLETION DATE: 07-29-63
****
COMPLETION INTERVAL: 8533 - 8689 (ABO)
TRT: 9000 GALS ACID (8533 - 8689)
IP: 197 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****

3060 - 8850' CEMENT 1550 sx CBL

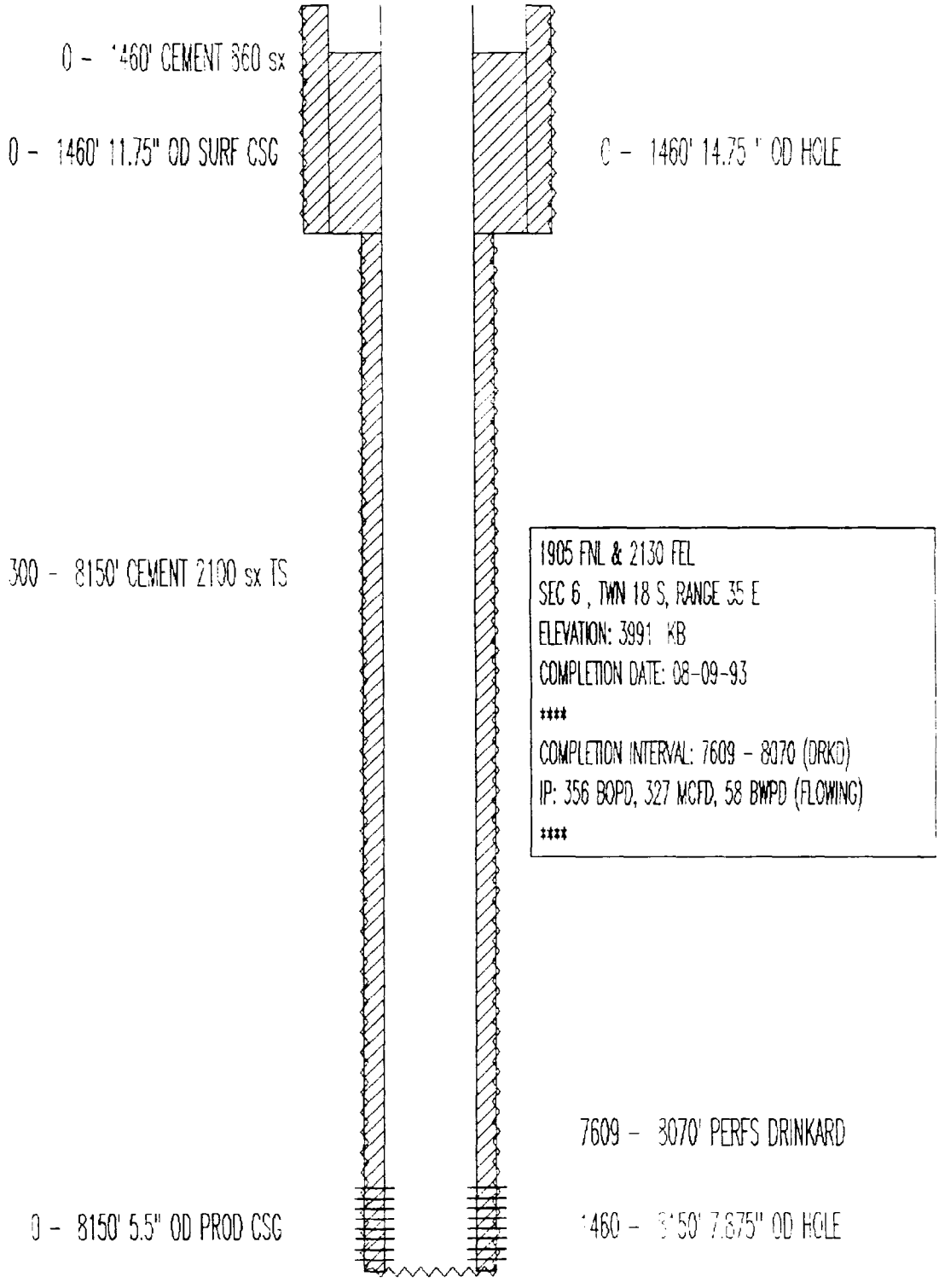
0 - 8847' 2.875" OD TBG

8384 - 8510' PERFS 7/71
8245 - 8348' PERFS 9/73
8360 - 8374' PERFS 4/77
3032 - 8850' 7.625" OD HOLE
8533 - 8689' ABANDONED PERFS 7/63
8525 - 8530' RETAINER SQZD W/ 200 SX

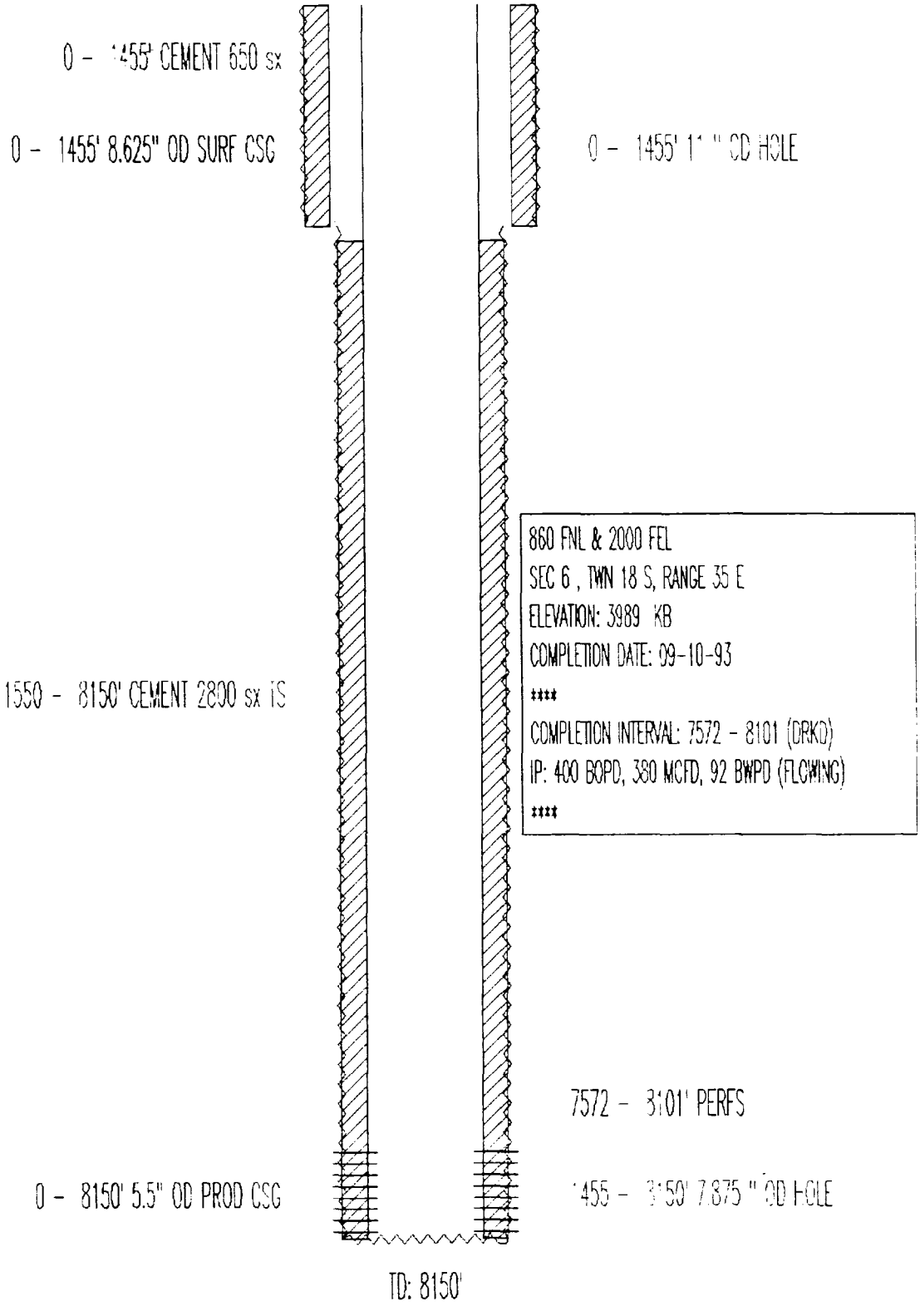
KB ELEV: 3983'
PBTD: 8525'
TD: 8850'

PRODUCER
DRINKARD

TEXACO EXPL & PROD
NEW MEXICO"R"ST. NCT-1 NO. 13
API# 3002531990

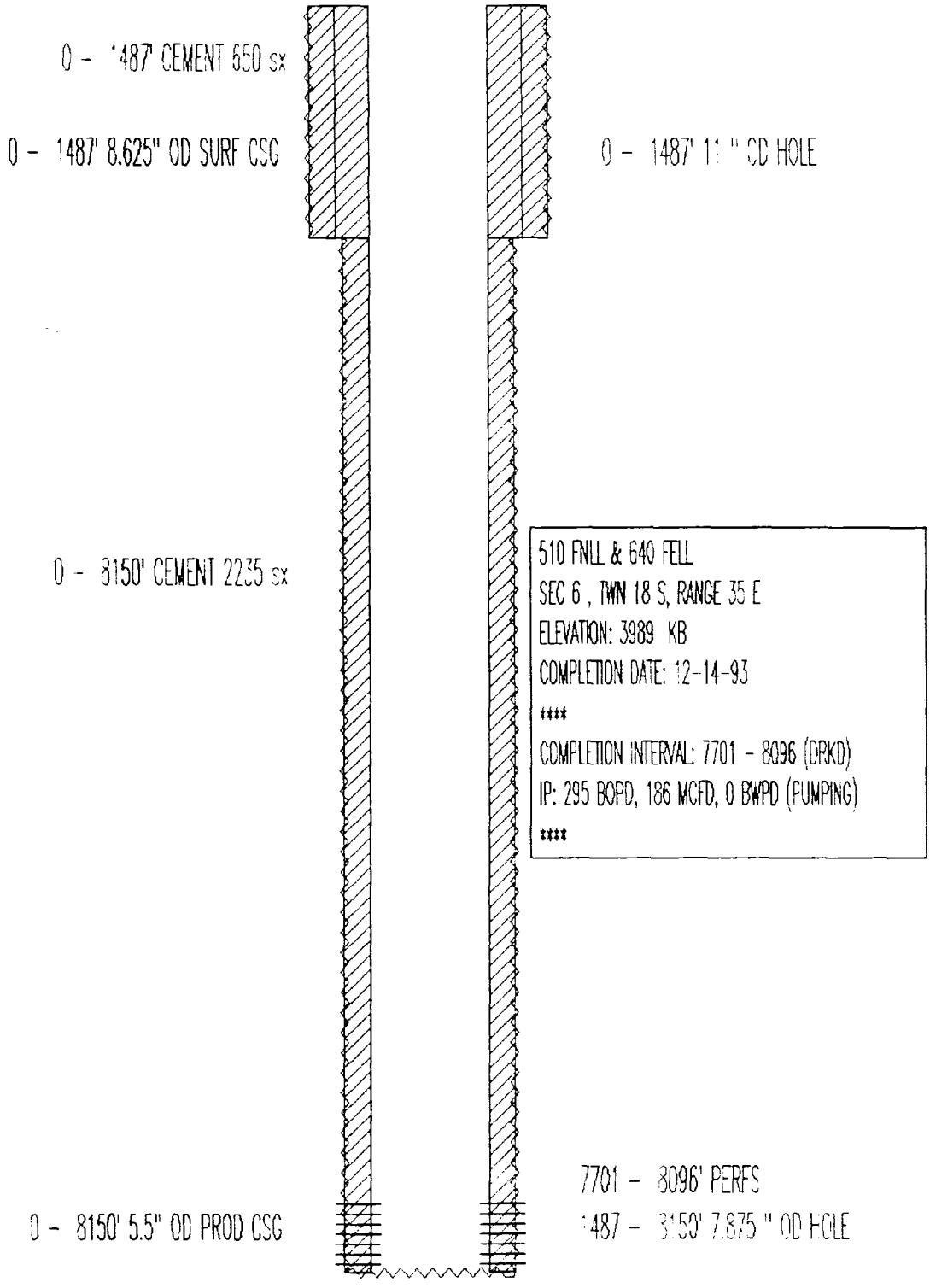


TEXACO EXPL & PROD
NEW MEXICO "R"ST. NCT-1 NO.14
API# 3002532018



PRODUCING
DRINKARD

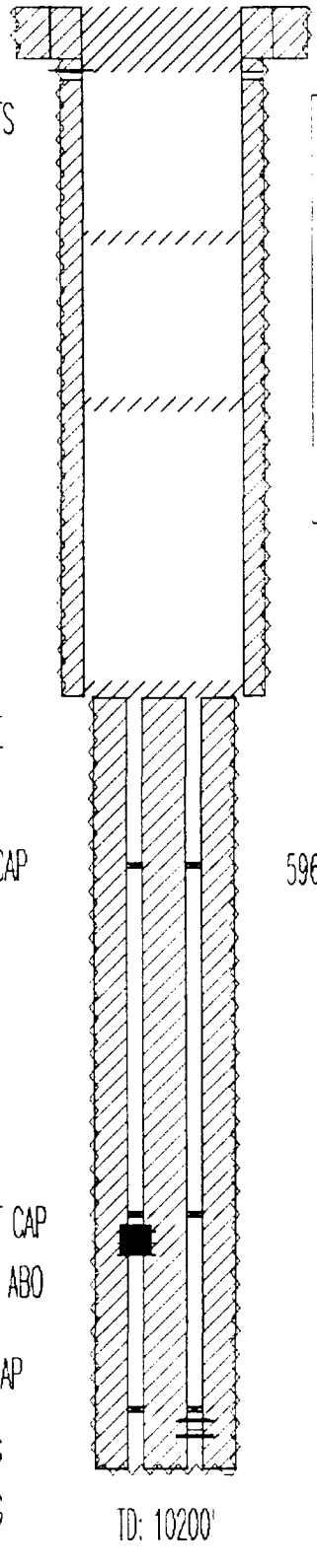
TEXACO EXPL & PROD
NEW MEXICO "R" ST. NCT-1 NO. 15
API# 3002532019



PBTD: 8140'
TD: 8150'

P & A

TEXACO INC
NEW MEXICO"R"ST. NCT-3 NO. 15
API# 3002520950



0 - 355' 13.375" OD SURF CSG

0 - 355' CEMENT CIRCULATED

435 - 435' SQUEEZE PERFS

1560 - 1660' CEMENT PLUG

500 - 4800' CEMENT 1700 sx

2720 - 2820' CEMENT PLUG

0 - 4800' 9.625" OD INT CSG

4700 - 4820' CEMENT PLUG

355 - 4800' 12.25 " OD HOLE

5965 - 6000' CIBP 35' CMT CAP

4820 - 10200' CEMENT 2400 sx

8405 - 8440' CIBP 35' CMT CAP

8495 - 8706' ABANDONED PERFS ABO

9765 - 9800' CIBP 35' CMT CAP

4820 - 10200' 2.875" OD TBG

4820 - 10200' 2.875" OD TBG

4800 - 10200' 8.5 " OD HOLE

TD: 10200'

0 - 455' CEMENT PLUG

0 - 355' 17.5 " OD HOLE

487 FSL & 560 FEL
SEC 1 , TWN 18 S, RANGE 34 E
ELEVATION: 3996 ES
COMPLETION DATE: 06-05-54
****
COMPLETION INTERVAL: 8495 - 8706 (ABO)
TRT: 11500 GALS ACID (8495 - 8706)
IP: 142 BOPD, 0 MCFD, 120 BWPD (S)
****

5965 - 6000' CIBP 35' CMT CAP

8405 - 8440' CIBP 35' CMT CAP

9765 - 9800' CIBP 35' CMT CAP

9852 - 9862' ABANDONED PERFS WOLFCAMP

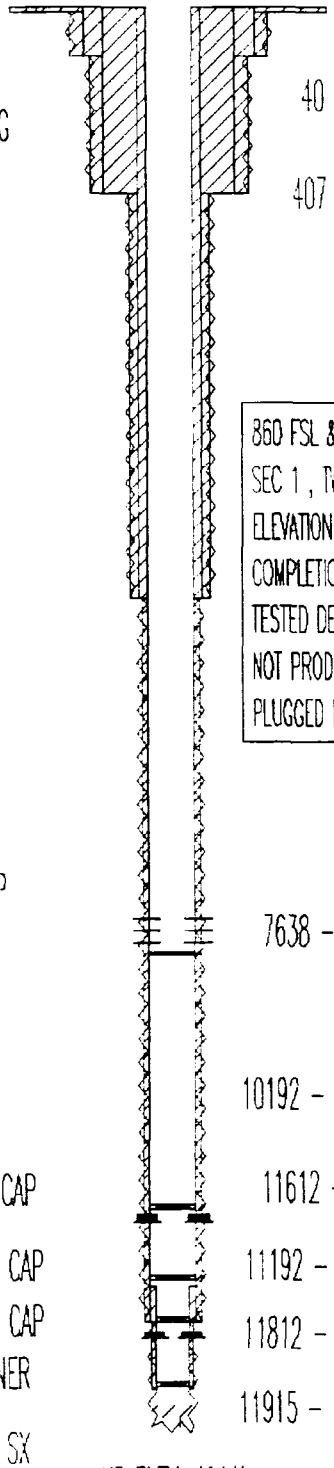
9923 - 9925' CIBP

9958 - 9959' ABANDONED PERFS WOLFCAMP

9968 - 9978' SQUEEZE PERFS WOLFCAMP

PRODUCING
DRINKARD

TEXACO PROD
NEW MEXICO"R"ST. NCT-3 NO. 24
API# 3002529925



0 - 40' CEMENT REDIMIX
0 - 407' CEMENT 1000 sx
0 - 40' 40" OD SURF CSG
0 - 407' 26" OD SURF CSG
0 - 1565' 20" OD INT CSG
0 - 1565' CEMENT 2150 sx
0 - 40' 48" OD HOLE
40 - 407' 30" OD HOLE
407 - 1565' 24" OD HOLE

860 FSL & 660 FEL
SEC 1, TWN 18 S, RANGE 34 E
ELEVATION: 4011 KB
COMPLETION DATE: 11-18-87
TESTED DEVONIAN, LOWER MISS, AND UPPER PENN
NOT PRODUCED
PLUGGED BACK TO VACUUM DRINKARD 12-4-92

0 - 5000' 9 5/8" OD INT CSG
0 - 5000' CEMENT 3700 SX
1565 - 5000' 12.25" OD HOLE

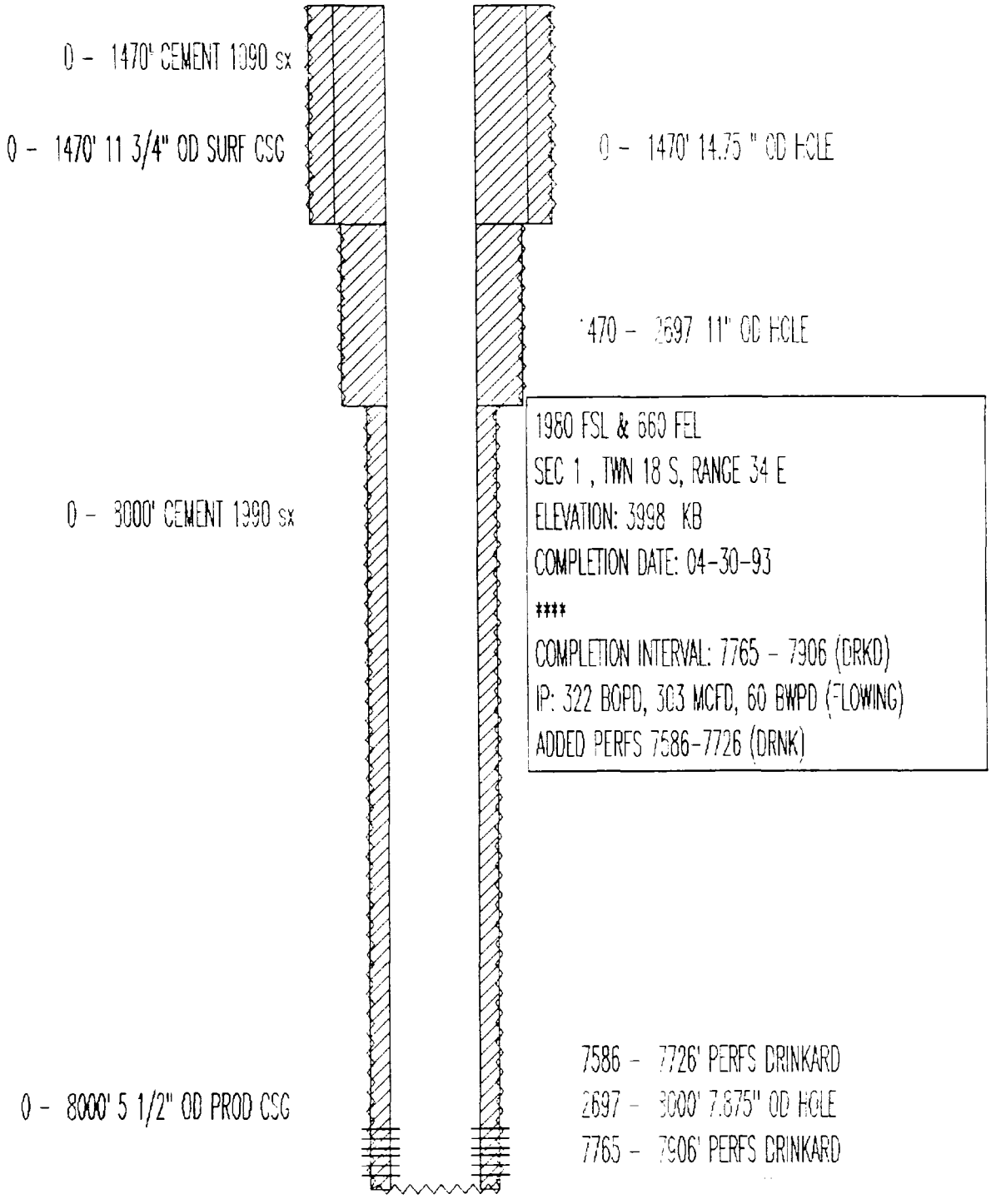
7982 - 8000' CIBP 18' CMT CAP
5000 - 11100' 8.75" OD HOLE
0 - 11100' CEMENT 2050 SX
0 - 11100' 7" OD PROD CSG
10115 - 10150' CIBP 35' CMT CAP
11060 - 11100' CIBP 40' CMT CAP
10710 - 10750' CIBP 40' CMT CAP
10799 - 11676' 5" OD LINER
10799 - 11676' CEMENT 175 SX
11100 - 11994' 6.25" OD HOLE

7638 - 7900' PERFS DRINKARD
10192 - 10263' ABANDONED PERFS UPPER PENN
11612 - 11652' CIBP 40' CMT CAP
11192 - 11238' ABANDONED PERFS LOWER MISS
11812 - 11912' CEMENT PLUG
11915 - 11994' TREATMENT DEVONIAN-ACID 100% H2O

KB ELEV: 4011'
PBTD: 7982'
TD: 11994'

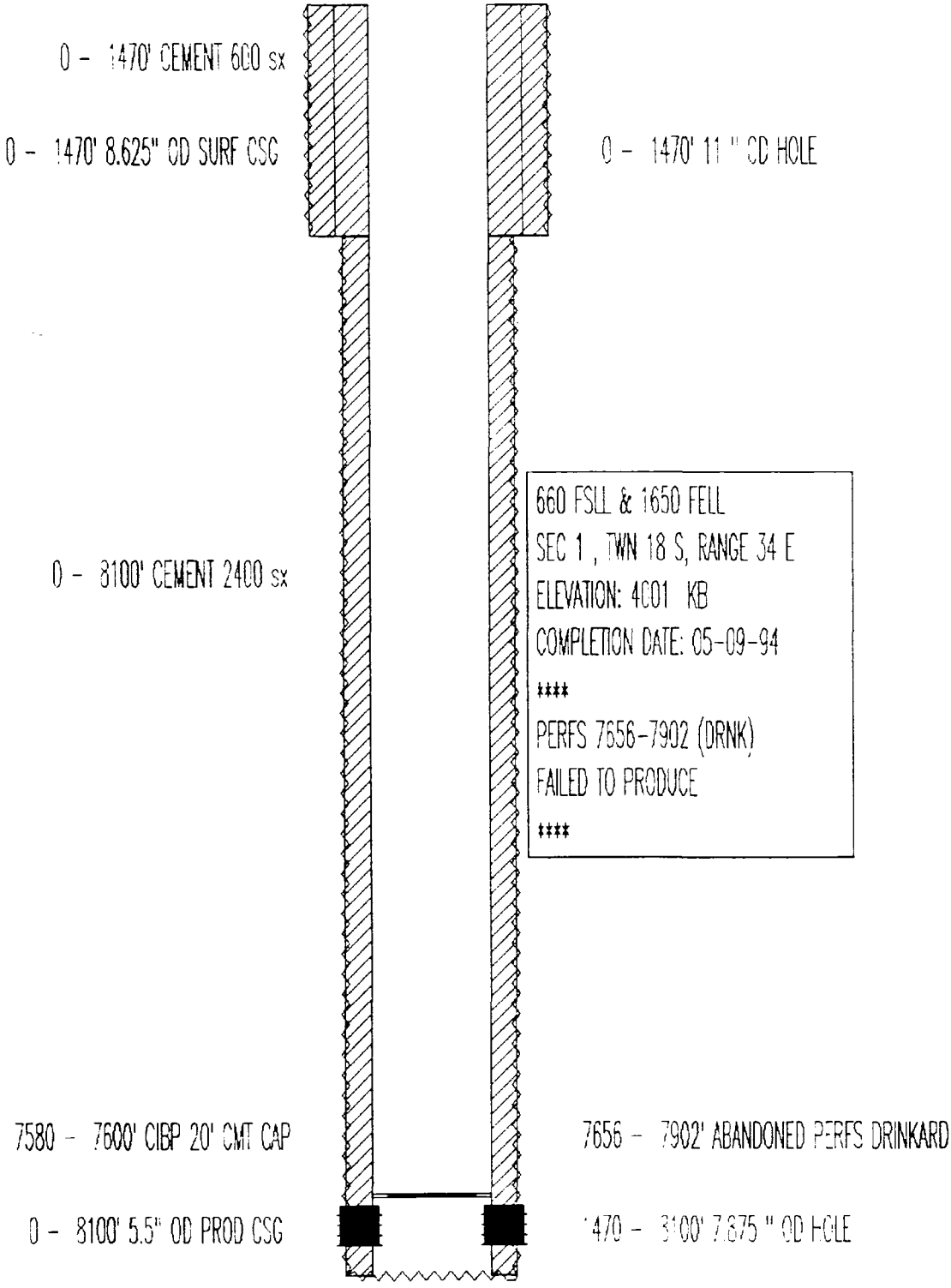
PRODUCING
DRINKARD

TEXACO EXPL & PROD
NEW MEXICO"R"ST. NCT-3 NO. 25
API# 3002531930



SHUT IN
DRINKARD

TEXACO EXPL & PROD
NEW MEXICO"R"ST. NCT-3 NO. 27
API# 3002532004



PBTD: 7580'
TD: 8100'

PRODUCING
DRINKARD

TEXACO INC
NEW MEXICO "AB" ST. NO. 3
API# 3002503086

0 - 343' 10.75" OD SURF CSG

0 - 343' CEMENT 250 sx

0 - 1600' CEMENT

0 - 343' 13.5 " OD HOLE

1600 - 1600' SQUEEZE PERFS 450 SX

660 FSLL & 1980 FELL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3966 GR
COMPLETION DATE: 12-28-61
****
COMPLETION INTERVAL: 8672 - 8846 (ABRF)
IP: 353 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****

2500 - 5404' CEMENT 300 sx

0 - 5404' 7.625" OD INT CSG

343 - 5404' 9.75" OD HOLE

5324 - 8856' CEMENT 550 sx

7600 - 7981' PERFS DRINKARD 4/93

8115 - 8150' CIBP 35' CMT CAP

8400 - 8856' BAR FISH TUBING, ANCHOR, WL TOOLS

8253 - 8458' ABANDONED PERFS ABO 5/73

8492 - 8648' ABANDONED PERFS ABO 2/68

5324 - 8856' 4 1/2" OD LINER

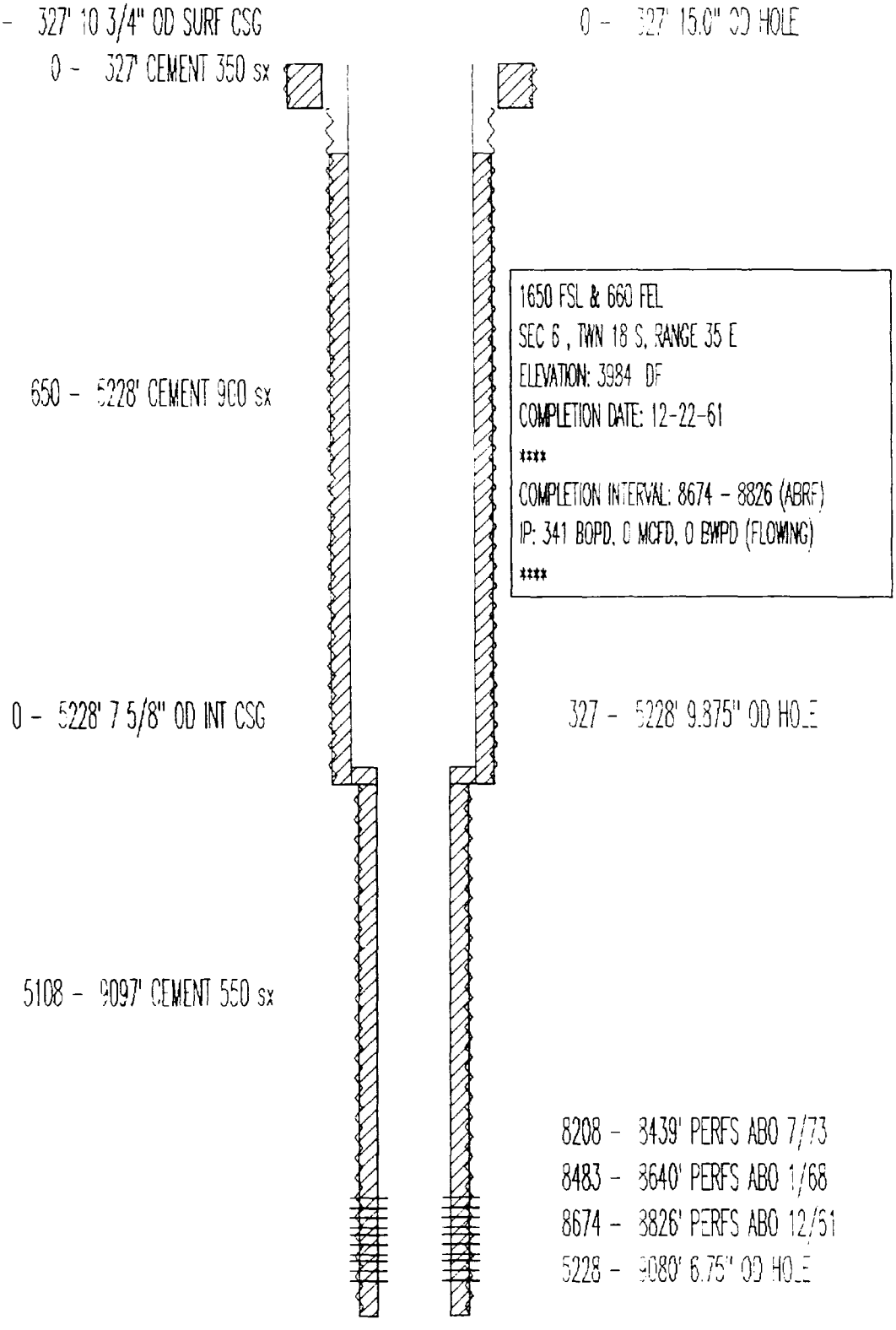
5404 - 8856' 6.75" OD HOLE

8672 - 8846' ABANDONED PERFS ABO 12/61

TD: 8856'

SHUT IN
ABO REEF

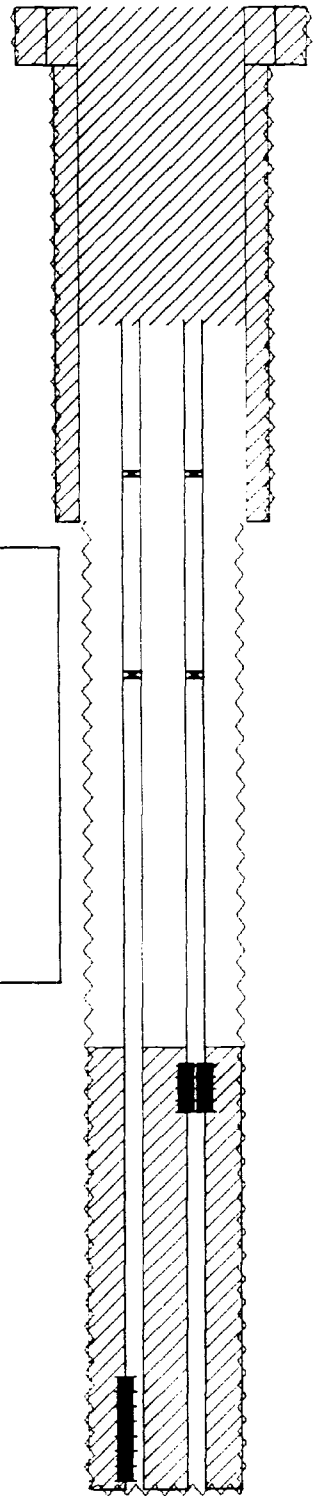
TEXACO INC
NEW MEXICO "AB" STATE NO. 4
API# 3002503087



PBTD: 9066'
TD: 9080'

P & A

TEXACO INC
NEW MEXICO "AB" STATE NO. 5
API# 3002520163



0 - 1454' CEMENT PLUG 100 SX

0 - 340' 11.75" OD SURF CSG

0 - 340' CEMENT 300 sx

0 - 340' 15.00" OD HOLE

0 - 3070' CEMENT 1400 sx

1454 - 1750' CEMENT PLUG 100 SX

1750 - 1900' CEMENT PLUG 400 SX

2765 - 2805' CIBP 35' CMT CAP

2765 - 2805' CIBP 35' CMT CAP

0 - 3070' 8.625" OD INT CSG

340 - 3070' 11.00" OD HOLE

1800 FSLL & 1650 FELL
SEC 6 , TWN 18 S, RANGE 35 E
ELEVATION: 3982 GR
COMPLETION DATE: 03-14-63
****
COMPLETION INTERVAL: 8694 - 8794 (ABO)
TRT: 6000 GALS ACID (8694 - 8794)
IP: 208 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****

3965 - 4005' CIBP 35' CMT CAP

3965 - 4005' CIBP 35' CMT CAP

1860 - 3850' 2.875" OD TBG

1860 - 3849' 2.875" OD TBG

6300 - 6588' ABANDONED PERFS SQZD W/190 SX

6200 - 8851' CEMENT 1500 SX TS

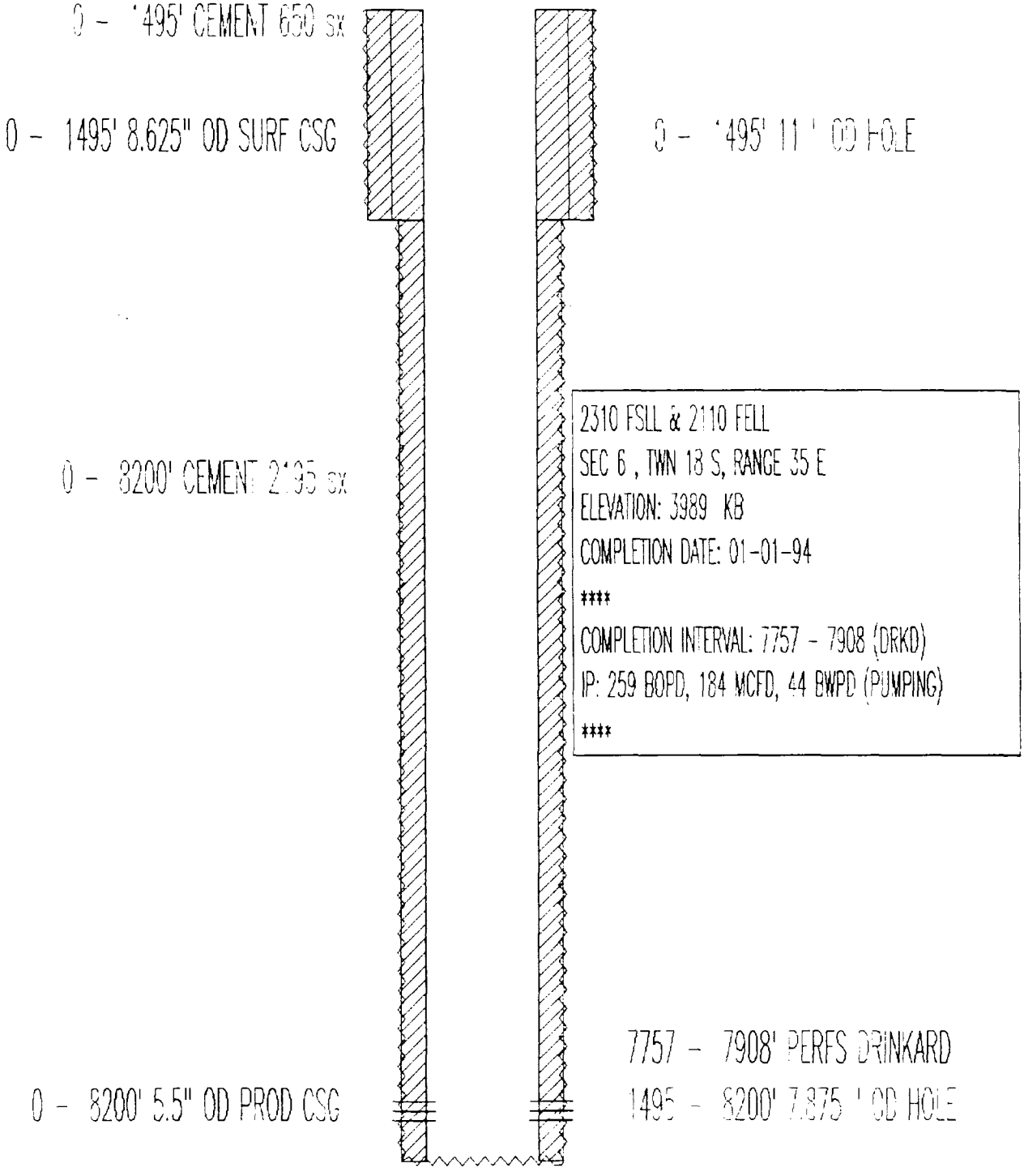
8172 - 8794' ABANDONED PERFS

3070 - 8851' 7.875 " OD HOLE

TD: 8851'

PRODUCING
DRINKARD

TEXACO EXPL & PROD
NEW MEXICO "AB" STATE NO. 10
API# 3002531991



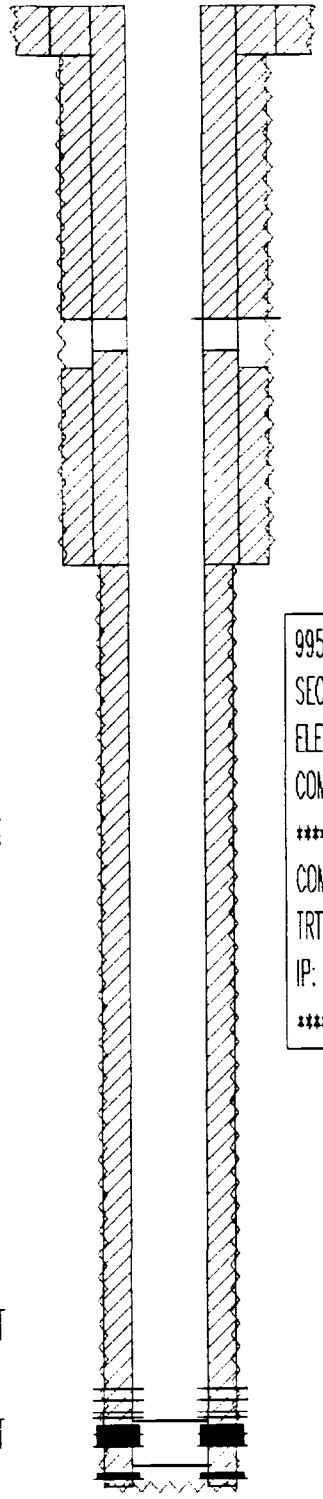
KB ELEV: 3989'

PBTD: 8155'

TD: 8200'

PRODUCING
ABO REEF

EXXON
NEW MEXICO "BO" ST. NO. 7
API# 3002520176



0 - 302' 13.375" OD SURF CSG

0 - 302' CEMENT 325 sx

0 - 1900' CEMENT

0 - 1900' CEMENT 1050 sx

0 - 302' 17.5 " OD HOLE

1900 - 1900' SQUEEZE PERFS

2200 - 3403' CEMENT 650 sx TS

0 - 3403' 8.625" OD INT CSG

302 - 3403' 12.25 " OD HOLE

995 FNL & 330 FEL
SEC 12 , TWN 18 S, RANGE 34 E
ELEVATION: 3982 DF
COMPLETION DATE: 04-21-63
****
COMPLETION INTERVAL: 8343 - 8544 (ABO)
TRT: 12000 GALS ACID (8343 - 8544)
IP: 144 BOPD, 0 MCFD, 8 BWPD (FLOWING)
****

2100 - 8996' CEMENT 1230 sx TS

8914 - 8953' ABANDONED PERFS

8595 - 8600' CIBP 1 SK CMT

8343 - 8544' PERFS

0 - 8996' 4.5" OD PROD CSG

8544 - 8578' PERFS

8870 - 8875' CIBP 1 SK CMT

3403 - 9000' 7.875 " OD HOLE

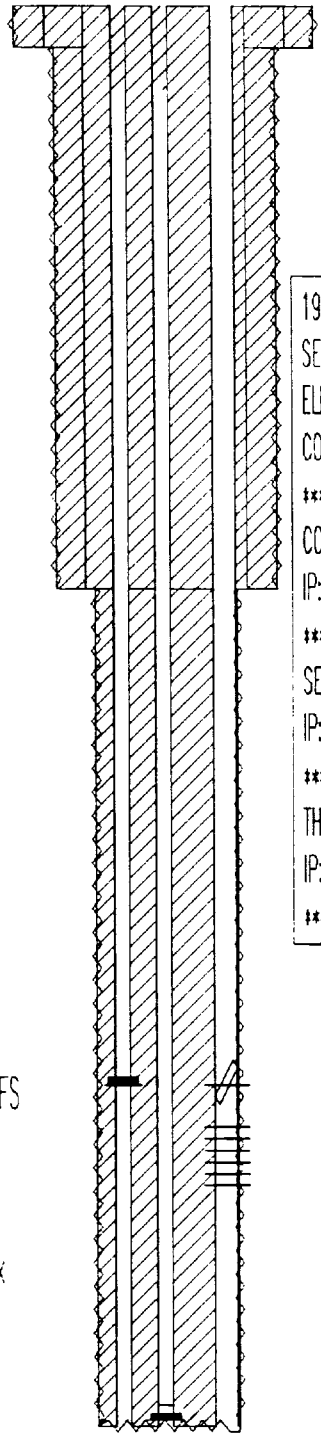
8620 - 8749' ABANDONED PERFS

TD: 9000'

PRODUCING
ABO-WFMP

MOBIL OIL
STATE CC COM NO. 1
API# 3002520872

0 - 360' 16 " OD SURF CSG
0 - 360' CEMENT 350 sx
0 - 715' CEMENT PLUG 15 SX
0 - 715' CEMENT PLUG 15 SX
0 - 4967' CEMENT 2175 sx
0 - 4967' 10.75" OD INT CSG
360 - 4967' 14.75 " OD HOLE
9115 - 9185' ABANDONED PERFS
0 - 12080' CEMENT 4460 sx
0 - 12080' 2.875" OD TBG
0 - 12080' 2.875" OD TBG
4967 - 12080' 9.5 " OD HOLE



0 - 360' 20 " OD HOLE

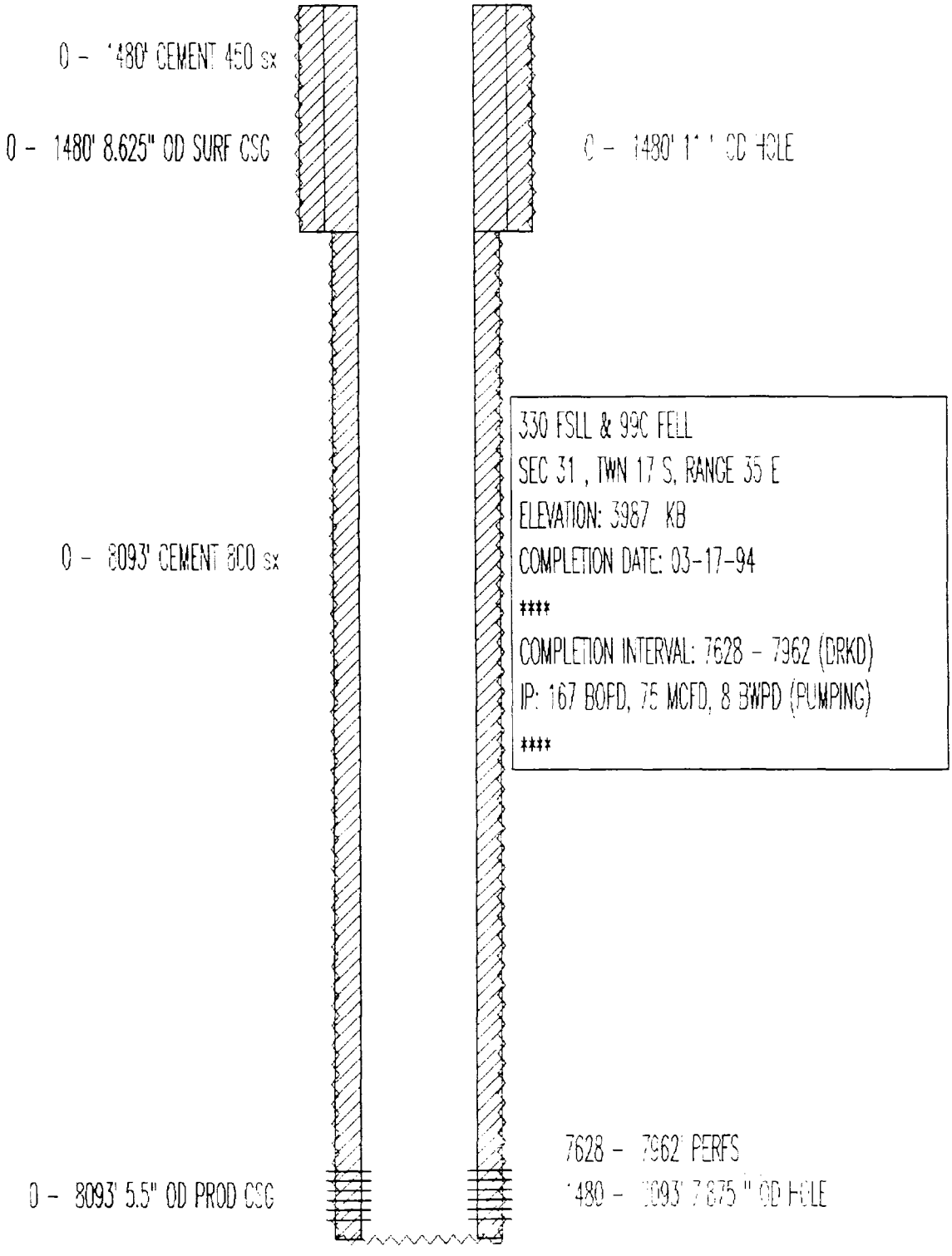
1980 FSL & 860 FWL
SEC 36 , TWN 17 S, RANGE 34 E
ELEVATION: 4001 ES
COMPLETION DATE: 08-12-64
****
COMPLETION INTERVAL: 9115 - 9185 (ABO)
IP: 179 BOPD, 0 MCFD, 0 BWPD (FLOWING)
****
SECOND CMPL INTRVL: 11972 - 12028 (DWNN)
IP: 104 BOPD, 0 MCFD, 21 BWPD (FLOWING)
****
THIRD CMPL INTRVL: 9962 - 10032 (WFMP)
IP: 211 BOPD, 0 MCFD, 4 BWPD (FLOWING)
****

9115 - 9185' PERFS ABO
8962 - 9350' BAR FISH TBG & PMP
9442 - 10032' PERFS WFCP
11895 - 11896' CIBP CMT CAP
11972 - 12028' ABANDONED PERFS
0 - 10222' 4.5" OD TBG

KB ELEV: 4001'
PBTD: 11895'
TD: 12080'

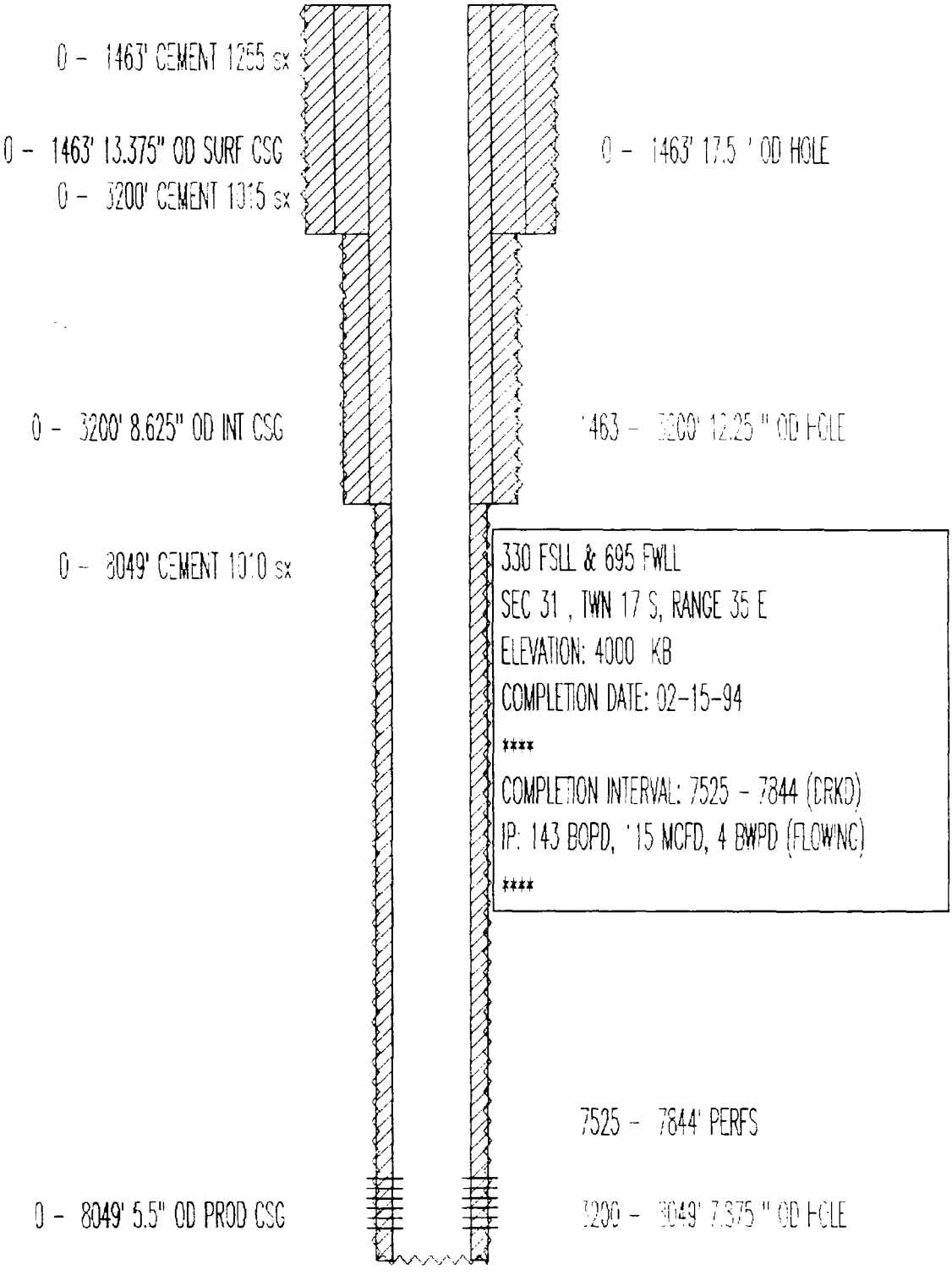
PRODUCING
DRINKARD

MOBIL PRODUCING TX & NM
STATE "K" NO. 12
API# 3002532413



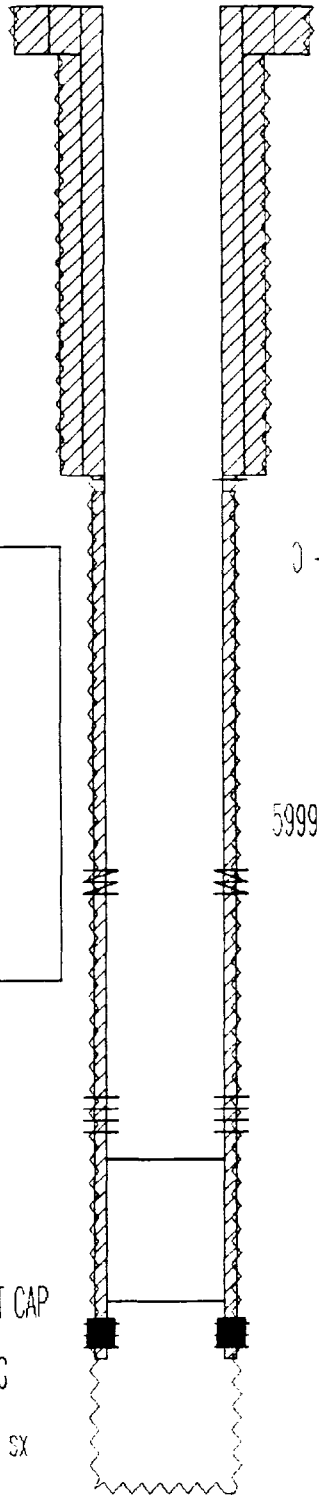
PRODUCING
DRINKARD

SHELL WESTERN EXPL & PROD
STATE "D" NO. 3
API# 3002532298



PRODUCING
DRINKARD

SHELL OIL
STATE "E" NO. 2
API# 3002520823



0 - 332' 13.375" OD SURF CSG

0 - 332' CEMENT 300 sx

0 - 332' 17.5 " OD HOLE

332 - 3284' 12.25 " OD HOLE

0 - 3284' 9.625" OD INT CSG

0 - 3284' CEMENT 574 sx

660 FSL & 1700 FWL
SEC 31 , TWN 17 S, RANGE 35 E
ELEVATION: 3984 GR
COMPLETION DATE: 05-11-64
****
COMPLETION INTERVAL: 5999 - 6101 (PDCK)
TRT: 1500 GALS ACID (5999 - 6101)
IP: 120 BOPD, 0 MCFD, 7 BWPD (FLOWING)
****

3320 - 3320' SQUEEZE PERFS

0 - 3320' CEMENT SQZ TO SURF W/ 1260 SX

5999 - 6223' SQUEEZE PERFS SQZD W/150 SX (PDK)

7618 - 7904' PERFS DRINKARD

8095 - 8098' CIBP

9218 - 9418' ABANDONED PERFS WOLFCAMP

9096 - 9100' CIBP 1 SK CMT CAP

0 - 9505' 7 " OD PROD CSG

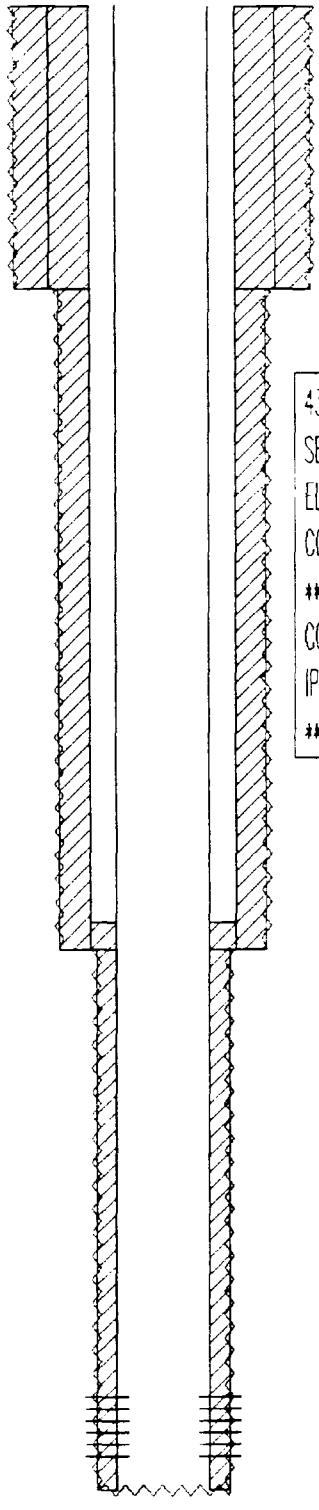
3400 - 9505' CEMENT 1800 sx

3284 - 10406' 8.5 " OD HOLE

KB ELEV: 3996'
PBTD: 8095'
TD: 10406'

PRODUCING
DRINKARD

PHILLIPS PET
SANTA FE NO. 133
API# 3002532333



0 - 1539' CEMENT 1750 sx

0 - 1539' 13.375" OD SURF CSG

0 - 1539' 17.5 " OD HOLE

0 - 5145' CEMENT 2400 sx

435 FSLL & 1930 FELL
SEC 31 , TWN 17 S, RANGE 35 E
ELEVATION: 3979 KB
COMPLETION DATE: 02-23-94
***
COMPLETION INTERVAL: 7540 - 7908 (DRKD)
IP: 330 BOPD, 435 MCFD, 4 BWPD (FLOWING)
***

0 - 5145' 8.625" OD INT CSG

1539 - 5145' 12.25 " OD HOLE

5000 - 8100' CEMENT 825 sx CALC

7540 - 7908' PERFS DRINKARD 2/94

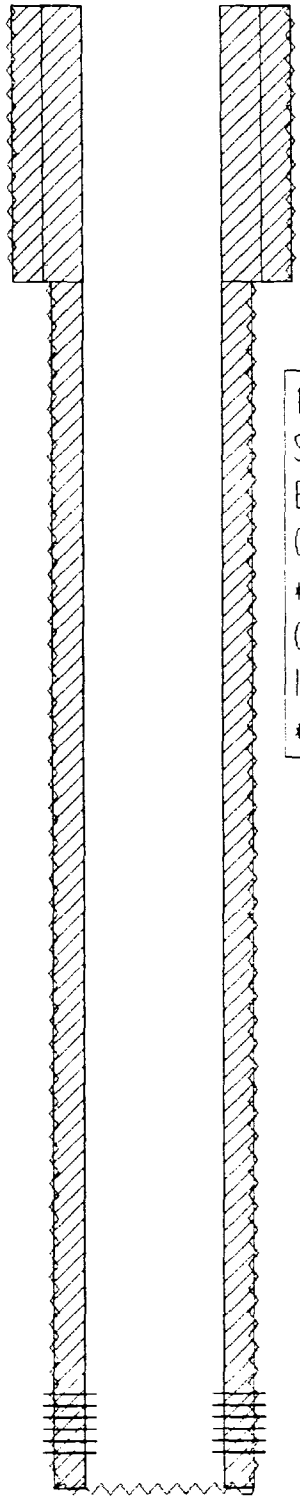
0 - 8100' 5.5" OD PROD CSG

5145 - 8100' 7.875 " OD HOLE

KB ELEV: 3979'
TD: 8100'

PRODUCING
DRINKARD

PHILLIPS PET
SANTA FE NO. 135
API# 3002532438



0 - 500' CEMENT 350 sx

0 - 1500' 8.625" OD SURF CSG

0 - 1500' 11" OD HOLE

1743 FSLL & 808 FWLL
SEC 31 , TWN 17 S, RANGE 35 E
ELEVATION: 3995 KB
COMPLETION DATE: 05-19-94
***
COMPLETION INTERVAL: 7537 - 7859 (DRKD)
IP: 65 BOPD, 23 MCFD, 22 BWPD (PUMPING)
***

0 - 8052' CEMENT 2494 sx

7537 - 7859' PERFS DRINKARD 5/94

0 - 8052' 5.5" OD PROD CSG

1500 - 8052' 7.875" OD HOLE

TD: 8052'

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Marathon Oil
Date : 8-2-1994
Location: [redacted] Drinkard (on 8-1-1994)

	Sample 1
Specific Gravity:	1.082
Total Dissolved Solids:	114514
pH:	5.60
IONIC STRENGTH:	2.306

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	80.0	1600
Magnesium	(Mg+2)	400	4860
Sodium	(Na+1)	1540	35300
Dissolved Iron	(Fe+2)	0.004	0.100
ANIONS:			
Bicarbonate	(HCO3-1)	1.40	85.4
Carbonate	(CO3-2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO4-2)	96.8	4650
Chloride	(Cl-1)	1920	68000
DISSOLVED GASES			
Carbon Dioxide	(CO2)		30.0
Hydrogen Sulfide	(H2S)		0

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	-1.9	-20
110[F	43[C	-1.1	-20
130[F	54[C	-0.78	-20
140[F	60[C	-0.59	-20
160[F	71[C	-0.19	-17

Comments:
cc: Jay Brown
Joe Hay

I

WESTERN
UNICHEM

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Texaco Inc.
Date : 8-2-1994
Location: [redacted] (on 8-1-1994)

	Sample 1
Specific Gravity:	1.081
Total Dissolved Solids:	112779
pH:	5.50
IONIC STRENGTH:	2.207

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	132	2640
Magnesium	(Mg+2)	264	3210
Sodium	(Na+1)	1570	36100
Dissolved Iron	(Fe+2)	0.007	0.200
ANIONS:			
Bicarbonate	(HCO3-1)	1.40	85.4
Carbonate	(CO3-2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO4-2)	77.0	3700
Chloride	(Cl-1)	1890	67000
DISSOLVED GASES			
Carbon Dioxide	(CO2)		550
Hydrogen Sulfide	(H2S)		0

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	-1.8	-6.6
110[F	43[C	-1.0	-6.6
130[F	54[C	-0.69	-6.6
140[F	60[C	-0.50	-6.6
160[F	71[C	-0.10	-2.9

Comments:
cc: Jay Brown
Joe Hay
I

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Texaco Inc.
Date : 8-2-1994
Location: [redacted] West (on 8-1-1994)

	Sample 1
Specific Gravity:	1.149
Total Dissolved Solids:	208467
pH:	6.90
IONIC STRENGTH:	3.827

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	284	5680
Magnesium	(Mg+2)	128	1560
Sodium	(Na+1)	3180	73200
Dissolved Iron	(Fe+2)	0.286	8.00
ANIONS:			
Bicarbonate	(HCO3-1)	1.80	110
Carbonate	(CO3-2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO4-2)	40.1	1930
Chloride	(Cl-1)	3550	126000

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	0.70	-1.2
110[F	43[C	1.4	-1.1
130[F	54[C	1.8	-1.1
140[F	60[C	2.0	-1.1
160[F	71[C	2.4	-1.9

Comments:
cc: Jay Brown
Joe Hay

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Texaco Inc.
Date : 8-2-1994
Location: WGSAU - Well 12 (on 8-1-1994)

	Sample 1
Specific Gravity:	1.083
Total Dissolved Solids:	116583
pH:	6.70
IONIC STRENGTH:	2.120

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	164	3280
Magnesium	(Mg+2)	36.0	437
Sodium	(Na+1)	1800	41300
ANIONS:			
Bicarbonate	(HCO3-1)	10.4	634
Carbonate	(CO3-2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO4-2)	40.1	1930
Chloride	(Cl-1)	1950	69000
DISSOLVED GASES			
Carbon Dioxide	(CO2)		70.0
Hydrogen Sulfide	(H2S)		119

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	0.38	-22
110[F	43[C	1.1	-22
130[F	54[C	1.5	-22
140[F	60[C	1.6	-22
160[F	71[C	2.0	-18

Comments:
cc: Jay Brown
Joe Hay

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

ompany : Texaco Inc.
ate : 8-3-1994
ocation: Compatability (on 7-28-1994)

	Sample 1
pecific Gravity:	1.082
otal Dissolved Solids:	114681
H:	6.10
ONIC STRENGTH:	2.163

CATIONS:		me/liter	mg/liter
alcium	(Ca+2)	148	2960
agnesium	(Mg+2)	150	1820
odium	(Na+1)	1680	38700
issolved Iron	(Fe+2)	0.004	0.100
ANIONS:			
icarbonate	(HCO3-1)	5.90	360
arbonate	(CO3-2)	0	0
ydroxide	(OH-1)	0	0
ulfate	(SO4-2)	58.6	2810
hloride	(Cl-1)	1920	68000
DISSOLVED GASES			
arbon Dioxide	(CO2)		310
ydrogen Sulfide	(H2S)		59.5
xygen	(O2)		0

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	-0.50	-13
110[F	43[C	0.23	-13
130[F	54[C	0.57	-13
140[F	60[C	0.76	-13
160[F	71[C	1.2	-9.4

Comments:
Ratio: Conoco Drinkard = 50% and VGSAU = 50%.
cc: Jay Brown
Joe Hay

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

ompany : Texaco Inc.
ate : 8-3-1994
ocation: Compatability (on 7-28-1994)

	Sample 1
pecific Gravity:	1.081
otal Dissolved Solids:	113647
H:	5.55
ONIC STRENGTH:	2.256

CATIONS:		me/liter	mg/liter
alcium	(Ca+2)	106	2120
agnesium	(Mg+2)	332	4030
odium	(Na+1)	1550	35700
issolved Iron	(Fe+2)	0.005	0.150
ANIONS:			
icarbonate	(HCO3-1)	1.40	85.4
arbonate	(CO3-2)	0	0
ydroxide	(OH-1)	0	0
ulfate	(SO4-2)	86.9	4180
hloride	(Cl-1)	1900	67500
ISSOLVED GASES			
arbon Dioxide	(CO2)		290
ydrogen Sulfide	(H2S)		0
xygen	(O2)		0

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	-1.8	-12
110[F	43[C	-1.1	-12
130[F	54[C	-0.72	-12
140[F	60[C	-0.53	-12
160[F	71[C	-0.13	-8.4

omments:
atio: Warm St. Drinkard = 50% and Consol. Drinkard = 50%
c: Jay Brown
Joe Hay

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

ompany : Texaco Inc.
ate : 8-3-1994
ample 1: Compatability (on 7-28-1994)
ample 2: (on)

	Sample 1	Sample 2
pecific Gravity:	1.081	1.081
otal Dissolved Solids:	113213	114080
H:	5.53	5.57
ONIC STRENGTH:	2.231	2.281

CATIONS:		me/liter	mg/liter	me/liter	mg/liter
alcium	(Ca+2)	119	2380	93.0	1860
agnesium	(Mg+2)	298	3620	366	4450
odium	(Na+1)	1560	35900	1550	35500
issolved Iron	(Fe+2)	0.006	0.175	0.004	0.125
ANIONS:					
icarbonate	(HCO3-1)	1.40	85.4	1.40	85.4
arbonate	(CO3-2)	0	0	0	0
ydroxide	(OH-1)	0	0	0	0
ulfate	(SO4-2)	82.0	3940	91.9	4410
hloride	(Cl-1)	1900	67300	1910	67800
ISSOLVED GASES					
arbon Dioxide	(CO2)		420		160
ydrogen Sulfide	(H2S)		0		0
xygen	(O2)		0		0

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate	Calcium Carbonate	Calcium Sulfate
86[F	30[C	-1.8	-8.9	-1.8	-16
110[F	43[C	-1.0	-8.9	-1.1	-16
130[F	54[C	-0.70	-8.9	-0.75	-16
140[F	60[C	-0.51	-8.9	-0.56	-16
160[F	71[C	-0.11	-5.3	-0.16	-12

Comments:
Ratio: Consol. Drinkard = 75% and Warn St. Drinkard = 25%
Consol. Drinkard = 25% and Warn St. Drinkard = 75%
cc: Jay Brown and Joe Hay
I

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

ompany : Texaco Inc.
ate : 8-3-1994
ocation: Compatability (on 7-28-1994)

	Sample 1
pecific Gravity:	1.082
otal Dissolved Solids:	114681
H:	6.10
ONIC STRENGTH:	2.163

CATIONS:		me/liter	mg/liter
alcium	(Ca+2)	148	2960
agnesium	(Mg+2)	150	1820
odium	(Na+1)	1680	38700
issolved Iron	(Fe+2)	0.004	0.100
ANIONS:			
icarbonate	(HCO3-1)	5.90	360
arbonate	(CO3-2)	0	0
ydroxide	(OH-1)	0	0
ulfate	(SO4-2)	58.6	2810
hloride	(Cl-1)	1920	68000
DISSOLVED GASES			
arbon Dioxide	(CO2)		310
ydrogen Sulfide	(H2S)		59.5
xygen	(O2)		0

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	-0.50	-13
110[F	43[C	0.23	-13
130[F	54[C	0.57	-13
140[F	60[C	0.76	-13
160[F	71[C	1.2	-9.4

Comments:
Ratio: Consol: Drinkard = 75% and VGSAU = 25%
Consol: Drinkard = 25% and VGSAU = 75%
cc: Jay Brown and Joe Hay
I

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Texaco Inc.
Date : 8-3-1994
Location: Compatability (on 7-28-1994)

	Sample 1
Specific Gravity:	1.115
Total Dissolved Solids:	160623
pH:	6.20
IONIC STRENGTH:	3.017

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	208	4160
Magnesium	(Mg+2)	196	2380
Sodium	(Na+1)	2380	54700
Dissolved Iron	(Fe+2)	0.147	4.10
ANIONS:			
Bicarbonate	(HCO3-1)	1.60	97.6
Carbonate	(CO3-2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO4-2)	58.6	2810
Chloride	(Cl-1)	2720	96500
DISSOLVED GASES			
Carbon Dioxide	(CO2)		275
Hydrogen Sulfide	(H2S)		0
Oxygen	(O2)		0

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	-0.52	-0.55
110[F	43[C	0.21	0.19
130[F	54[C	0.55	0.19
140[F	60[C	0.74	0.19
160[F	71[C	1.1	-0.25

Comments:
Ratio: Consol. Drinkard = 50% and Vac. Glorieta West = 50%
cc: Jay Brown
Joe Hay

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Texaco Inc.
Date : 8-3-1994
Sample 1: Compatability (on 7-28-1994)
Sample 2: (on)

	Sample 1	Sample 2
Specific Gravity:	1.098	1.132
Total Dissolved Solids:	136701	184545
pH:	5.85	6.55
IONIC STRENGTH:	2.612	3.422

CATIONS:		me/liter	mg/liter	me/liter	mg/liter
Calcium	(Ca+2)	170	3400	246	4920
Magnesium	(Mg+2)	230	2790	162	1970
Sodium	(Na+1)	1980	45400	2780	63900
Dissolved Iron	(Fe+2)	0.077	2.15	0.217	6.05
ANIONS:					
Bicarbonate	(HCO3-1)	1.50	91.5	1.70	104
Carbonate	(CO3-2)	0	0	0	0
Hydroxide	(OH-1)	0	0	0	0
Sulfate	(SO4-2)	67.8	3260	49.3	2370
Chloride	(Cl-1)	2310	81800	3140	111000
DISSOLVED GASES					
Carbon Dioxide	(CO2)		413		138
Hydrogen Sulfide	(H2S)		0		0
Oxygen	(O2)		0		0

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate	Calcium Carbonate	Calcium Sulfate
86[F	30[C	-1.1	-1.3	0.09	-0.30
110[F	43[C	-0.41	-1.2	0.82	0.23
130[F	54[C	-0.07	-1.2	1.2	0.23
140[F	60[C	0.12	-1.2	1.4	0.23
160[F	71[C	0.52	-3.1	1.8	-0.22

Comments:
Ratio: Consol. Drinkard = 75% and Vac. Glorieta West = 25%
Consol. Drinkard = 25% and Vac. Glorieta West = 75%
cc: Jay Brown and Joe Hay

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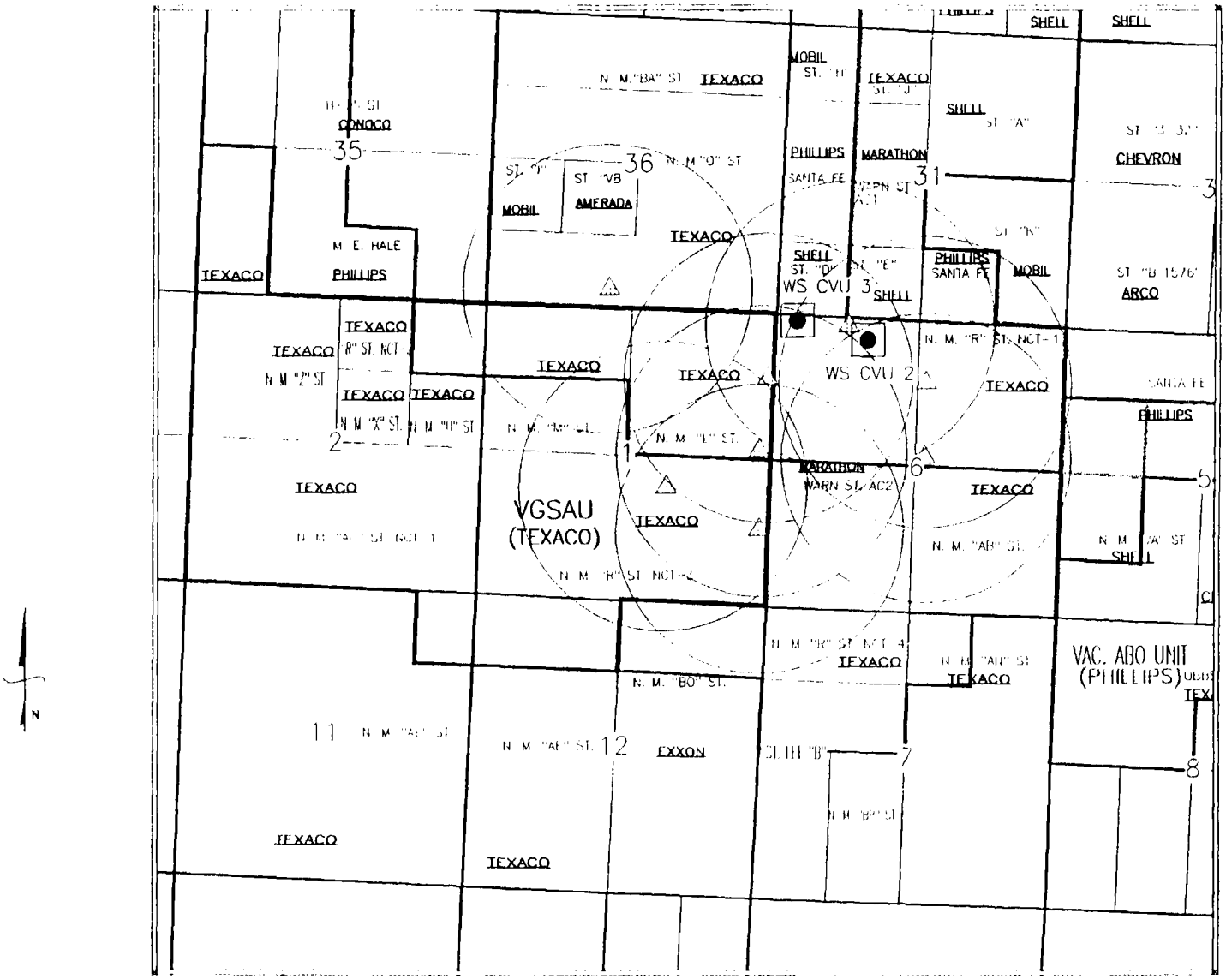
ATTACHMENT XI



FRESH WATER SUPPLY WELLS

Texaco Exploration & Prod. Inc.		
LEASELINE INJECTION WELLS VACUUM DRINKARD FIELD LEA COUNTY NEW MEXICO		
Hobbs, New		10/30/94
	Scale 1:36000.	

Scale 1:36000.

1000 0 1000 2000 3000 4000 5000 feet

0.1 0. 0.1 0.2 0.3 0.4 0.5 miles

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Western Unichem

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Texaco Inc.
Date : 10-31-1994
Location: CVU - WSW #2 (on 10-26-1994)

	Sample 1
Specific Gravity:	1.000
Total Dissolved Solids:	597
pH:	6.50
IONIC STRENGTH:	0.014

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	4.70	94.0
Magnesium	(Mg+2)	3.30	40.1
Sodium	(Na+1)	1.93	44.5
Iron (total)	(Fe+2)	0.007	0.200
ANIONS:			
Bicarbonate	(HCO3-1)	2.60	159
Carbonate	(CO3-2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO4-2)	0	0
Chloride	(Cl-1)	7.33	260

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	-0.84	-18
110[F	43[C	-0.11	-18
130[F	54[C	0.24	-18
140[F	60[C	0.42	-18
160[F	71[C	0.82	-18

Comments:
cc: Jay Brown
Joe Hay
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Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Texaco Inc.
Date : 10-31-1994
Location: CVU - WSW #3 (on 10-26-1994)

	Sample 1
Specific Gravity:	1.001
Total Dissolved Solids:	1944
pH:	6.70
IONIC STRENGTH:	0.043

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	9.00	180
Magnesium	(Mg+2)	6.60	80.2
Sodium	(Na+1)	17.7	406
Iron (total)	(Fe+2)	0.014	0.400
ANIONS:			
Bicarbonate	(HCO3-1)	2.20	134
Carbonate	(CO3-2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO4-2)	3.31	159
Chloride	(Cl-1)	27.8	984

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86[F	30[C	-0.55	-14
110[F	43[C	0.18	-14
130[F	54[C	0.52	-14
140[F	60[C	0.71	-14
160[F	71[C	1.1	-14

Comments:
cc: Jay Brown
Joe Hay
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