VACUUM UPPER PENN FIELD
VACUUM WOLFCAMP FIELD
VACUUM ABO NORTH FIELD

PRESSURE MAINTENANCE PROJECT
APPLICATION FOR AUTHORIZATION TO INJECT WATER

ATTACHMENT III TO FORM C-108

Attached is a description of the three wells proposed for injection for this project.. For each well a 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. 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:	3000 BWPD	(1000 BWPD/well)
Maximum Daily Rate:	6000 BWPD	(2000 BWPD/well)

The injection system is closed.

The proposed average and maximum* surface injection pressures are:

Average injection pressure	1800 PSIG
Maximum injection pressure	2200 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 Paddock Formations. This will be supplied from the Vacuum Glorieta West Unit injection system. As shown on the attached water analysis of Wolfcamp produced water and the above mentioned sources, the waters are compatible.

ATTACHMENT VIII TO FORM C-108

FORMATION DESCRIPTION

The Abo formation is a microcrystalline dolomite deposited in a back reef environment. The structure is a southeasterly dipping stratagraphic trap with permeability pinchouts in all directions. The Abo is in the Paleozoic era, Permian System, Leonard Age. The top of the Abo is found at approximately 8300' and is approximately 1000 feet thick.

The Wolfcamp formation is a massive limestone interbedded with shale stringers. The structure is an anticline with permeability pinchouts in all directions. The Wolfcamp is in the Paleozoic era, Permian System, Wolfcamp Age. The top of the Wolfcamp is approximately 9300' and is approximately 800' thick.

The Upper Penn is Paleozoic era, Pennsylvanian System, Cisco Group. The structure is an anticline with an undefined oil-water contact in all directions. The top of the Upper Penn is approximately 10100' and is approximately 200' thick.

No known faults cut through these formations 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 Abo in the Paddock-Glorieta formations (Vacuum Glorieta West Unit) and the Grayburg-San Andres (Central Vacuum Unit). The productive formation below the Penn is the Devonian. 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	9300'
Penn Reef	10100'
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 programs were initially 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

Logs on New Mexico "O" State NCT-1 No. 38 and State BA Nos. 6 and 8 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 four fresh water wells in the vicinity of the proposed pressure maintenance project which have chemical analysis. Attached are the attendant water analyses. Water is from the Ogallala at a depth of 200 feet.

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.

See the attached list of Offset Operators. The surface owner is the State of New Mexico.

INJECTION WELL DATA SHEET

OPERATOR Texaco Exploration and Production Inc. LEASE State BA

WELL NO. 6 | 660' FNL and 860 FWL (FOOTAGE LOCATION) | 36 (SECTION) | 17S (TOWNSHIP) | 34E (RANGE)

Schematic

Well Construction Data

Surface Casing

Size 13 3/8 " Cemented with 400 sx.

TOC surface feet determined by cement circ

Hole Size 17 1/2"

Intermediate Casing

Size 9 5/8 " Cemented with 2080 sx.

TOC 110 feet determined by Temp Survey

Hole Size 12 1/4"

Long String

Size 7 " Cemented with 850 sx.

TOC 5675 feet determined by Temp Survey

Hole Size 8 3/4"

Total Depth 12,110'

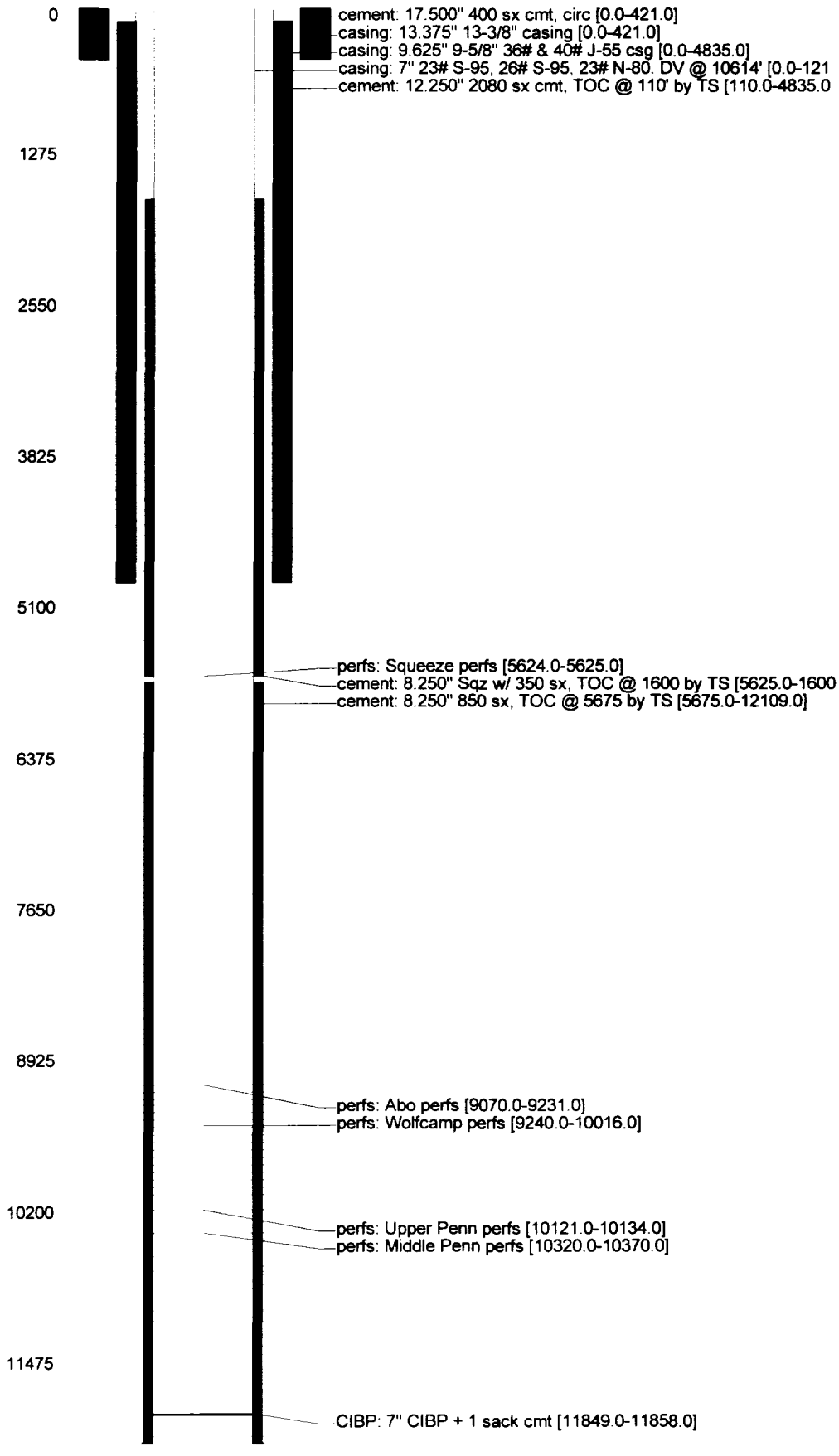
Injection Interval

9070 feet to 10,134 feet

(perforated or open-hole; indicate which)

ATTACHMENT III
TO
FORM C-108

State BA #6
Name: 6 ID: 3002520057:406PSLVU Type: TEXACO Date: 2/23/00



INJECTION WELL DATA SHEET

Side

OPERATOR Texaco Exploration and Production Inc LEASE State BA

WELL NO. 8 766' FNL and 2086' FEL 36 17-S 34-E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Well Construction Data

Surface Casing

Size 13 3/8 " Cemented with 350 sx.

TOC surface feet determined by cmt circ

Hole Size 17 1/2"

Intermediate Casing

Size 9 5/8 " Cemented with 3550 sx.

TOC surface feet determined by cmt circ

Hole Size 12 1/4"

Long String

Size 7 " Cemented with 1480 sx.

TOC 2000 feet determined by Temp Survey

Hole Size 8 3/4"

Total Depth 10,494'

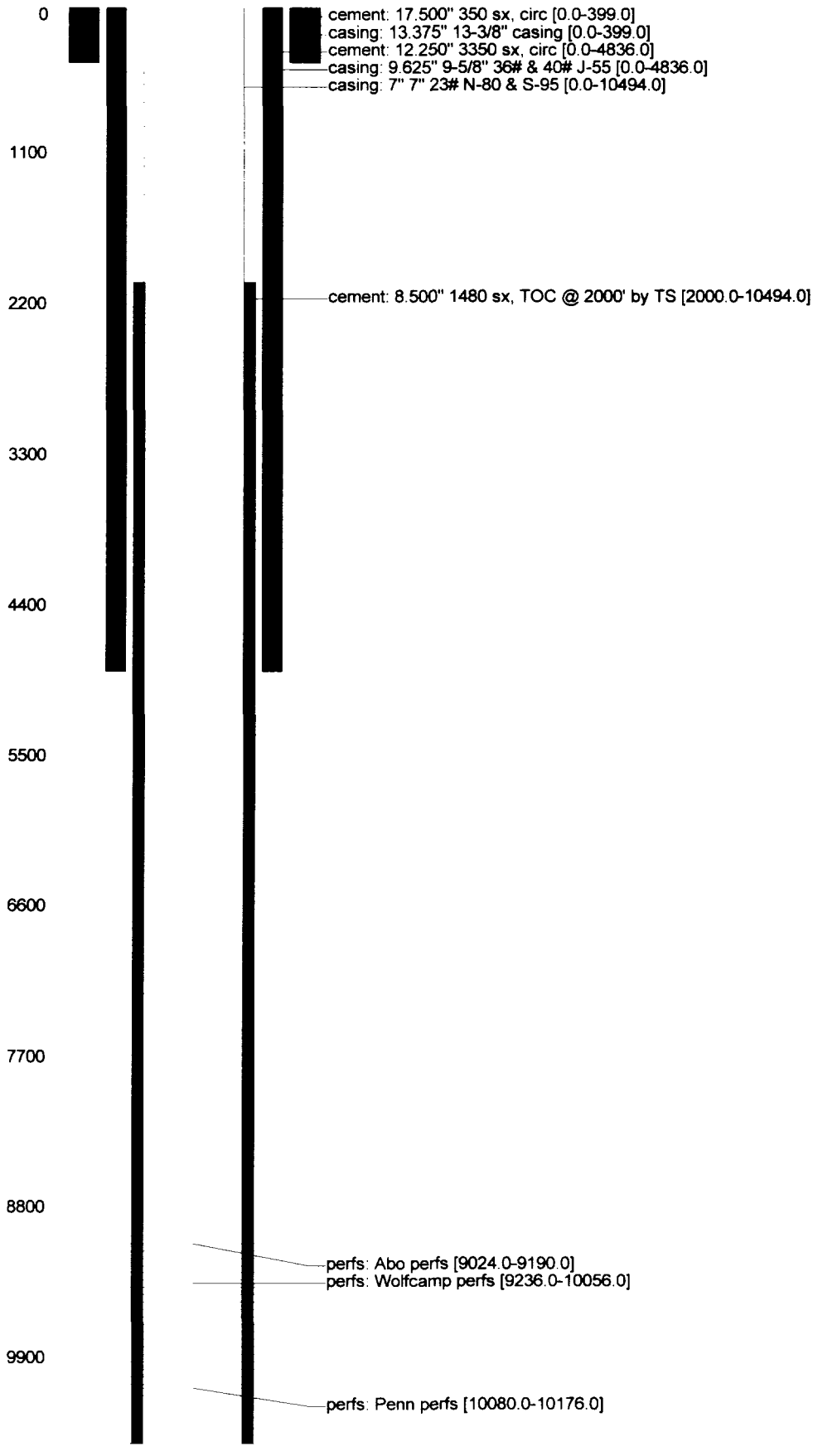
Injection Interval

9024 feet to 10,176' feet perforated

(perforated or open-hole; indicate which)

State BA #6

Name: 8 ID: 3002520986:406PSLVU Type: TEXACO Date: 2/23/00



INJECTION WELL DATA SHEET

OPERATOR Texaco Exploration and Production Inc. LEASE New Mexico O State NCT-1

WELL NO. 38 2085' FSL and 710' FEL (FOOTAGE LOCATION) | 36 (SECTION) | 17-S (TOWNSHIP) | 34-E (RANGE)

Schematic

Well Construction Data

Surface Casing

Size 11-3/4" Cemented with 800 sx.

TOC surface feet determined by cmt circ

Hole Size 14-3/4"

Intermediate Casing

Size 8-5/8" Cemented with 1700 sx.

TOC surface feet determined by Cmt circ

Hole Size 11 3/4"

Long String

Size 5 1/2" Cemented with 1900 sx.

TOC surface feet determined by Cmt Circ, 2 Stgs

Hole Size 7 7/8"

Total Depth 11,500'

Injection Interval

9140 feet to 10,182 feet perforated

(perforated or open-hole; indicate which)

New Mexico O State NCT-1 #38
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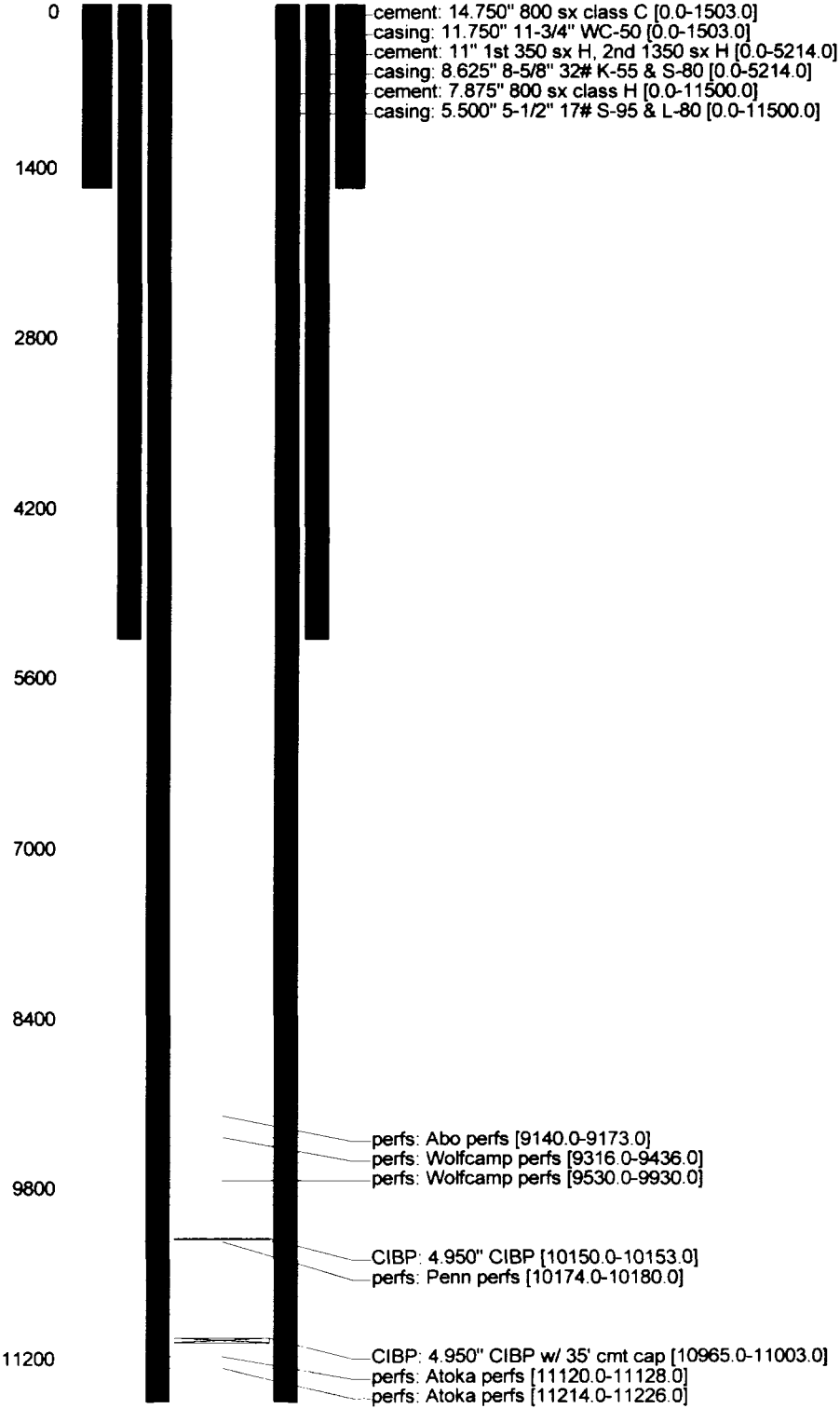
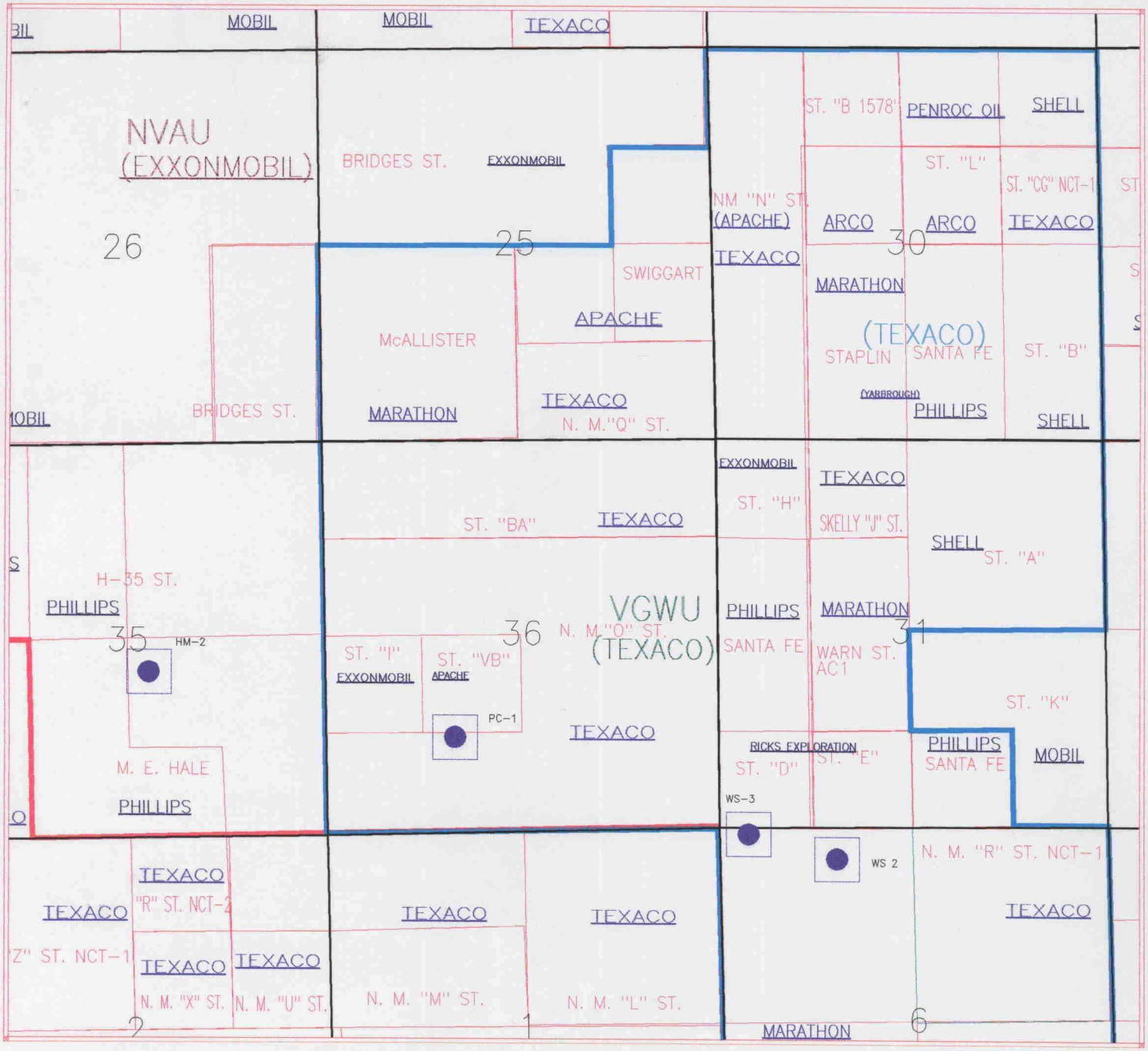




Scale 1:24000.

1000. 0. 1000. 2000. 3000. 4000. 5000. feet

0.1 0. 0.1 0.2 0.3 0.4 0.5 miles

Texaco Inc.		
VACUUM FIELD FRESH WATER WELLS		
Hickey, Kevin		2/13/01
	Scale 1:24000.	

N

LEGEND

- PRODUCER
- DUAL
- TRIPLE

ATTACHMENT XI
TO
FORM C-108

UNICHEM

A Division of BJ Services Company

Lab Test No : 9461

Phillips

Sample Date : 3/26/96
Lab Date In : 3/28/96
Lab Date Out : 3/28/96

Water Analysis

Listed below please find water analysis report from : Potash #1

Specific Gravity :	1.000
Total Dissolved Solids :	265
pH :	
Conductivity (uohms):	
Ionic Strength :	0.008

Cations:		mg/l
Calcium	(Ca++):	59
Magnesium	(Mg++):	23
Sodium	(Na+):	0
Iron	(Fe++):	0.07
Dissolved Iron	(Fe++):	
Barium	(Ba++):	0.40
Strontium	(Sr):	
Manganese	(Mn++):	0.39
Resistivity :		
Anions:		
Bicarbonate	(HCO3-):	
Carbonate	(CO3--):	
Hydroxide	(OH-):	0
Sulfate	(SO4--):	43
Chloride	(Cl-):	140

Gases:		ppm
Carbon Dioxide	(CO2):	
Oxygen	(O2):	
Hydrogen Sulfide	(H2S):	

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature		CaCO3 SI	CaSO4 SI
86F	30.0C		
104F	40.0C		
122F	50.0C		
140F	60.0C		
168F	70.0C		
176F	80.0C		

Comments :

If you have any questions or require further information, please contact us.

Sincerely,

John Paul Gonzales

Laboratory Technician

cc: Jay Brown
Joe Hay

P.O. Box 61427, Midland, TX 79711 • 4312 S. County Rd. 1298, Midland, TX 79765
Office: (915) 563-0241 • Fax: (915) 563-0243

UNICHEM

A Division of BJ Services Company

Lab Test No : 9464

Phillips

Sample Date : 3/26/96
Lab Date In : 3/28/96
Lab Date Out : 3/28/96

Water Analysis

Listed below please find water analysis report from : Halo Mable S.O. #2

Specific Gravity :	1.000
Total Dissolved Solids :	198
pH :	
Conductivity (uohms):	
Ionic Strength :	0.006

Cations:		mg/l
Calcium	(Ca++):	50
Magnesium	(Mg++):	19
Sodium	(Na+):	10
Iron	(Fe++):	0.40
Dissolved Iron	(Fe++):	
Barium	(Ba++):	0.20
Strontium	(Sr):	
Manganese	(Mn++):	0.07
Resistivity :		
Anions:		
Bicarbonate	(HCO3-):	
Carbonate	(CO3--):	
Hydroxide	(OH-):	0
Sulfate	(SO4--):	50
Chloride	(Cl-):	90

Gases:		ppm
Carbon Dioxide	(CO2):	
Oxygen	(O2):	
Hydrogen Sulfide	(H2S):	

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature		CaCO3 SI	CaSO4 SI
86F	30.0C		
104F	40.0C		
122F	50.0C		
140F	60.0C		
168F	70.0C		
176F	80.0C		

Comments :

If you have any questions or require further information, please contact us.

Sincerely,

John Paul Gonzales

Laboratory Technician

cc: Jay Brown
Joe Hay

P.O. Box 61427, Midland, TX 79711 • 4312 S. County Rd. 1298, Midland, TX 79765
Office: (915) 563-0241 • Fax: (915) 563-0243

I

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
I

I

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

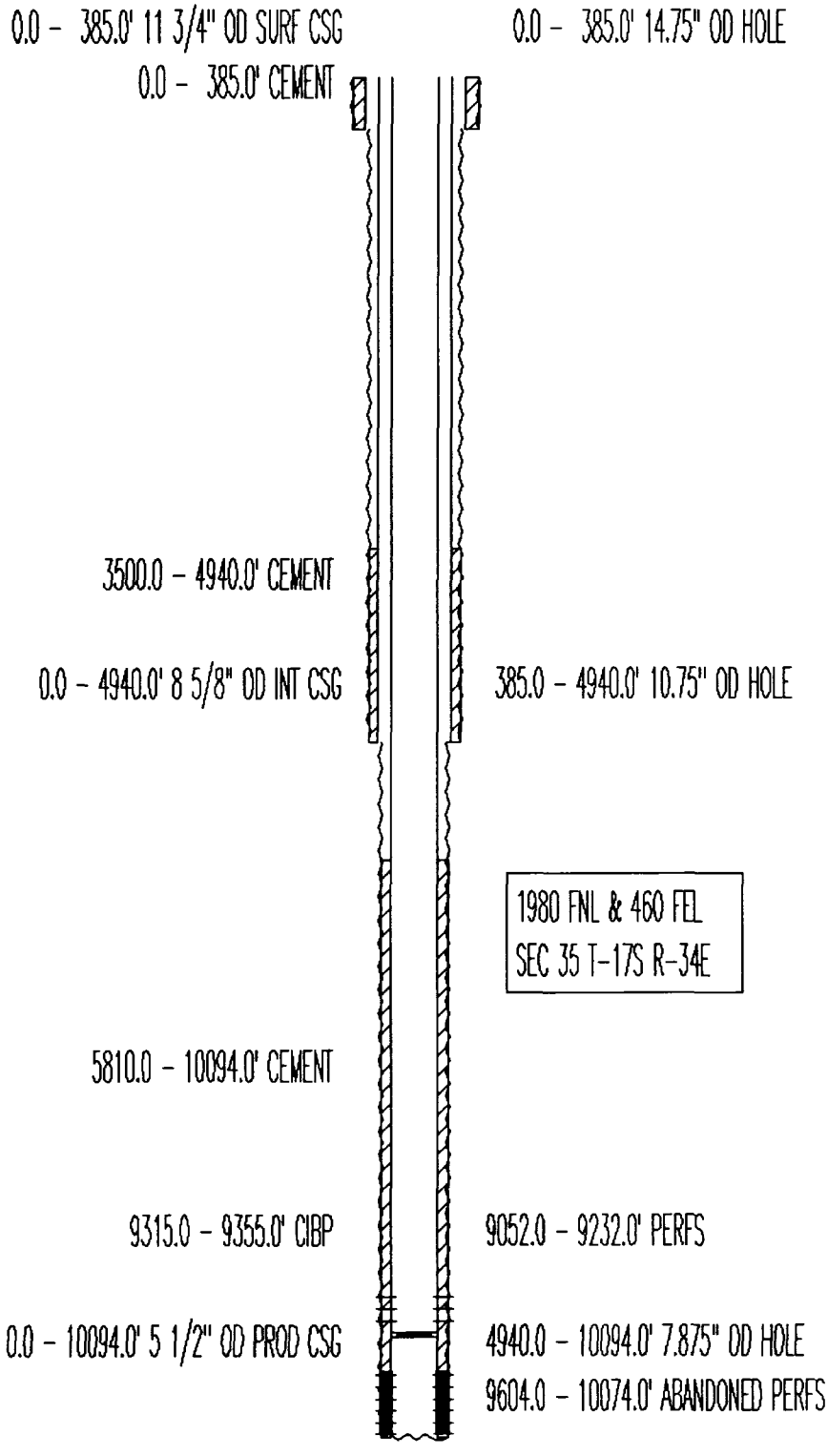
CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	9.00	180
Magnesium	(Mg+2)	6.60	80.2
Sodium	(Na+1)	17.7	406
Iron (total)	(Fe+2)	0.014	0.400
ANIONS:			
Bicarbonate	(HCO3-1)	2.20	134
Carbonate	(CO3-2)	0	0
Hydroxide	(OH-1)	0	0
Sulfate	(SO4-2)	3.31	159
Chloride	(Cl-1)	27.8	984

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
I

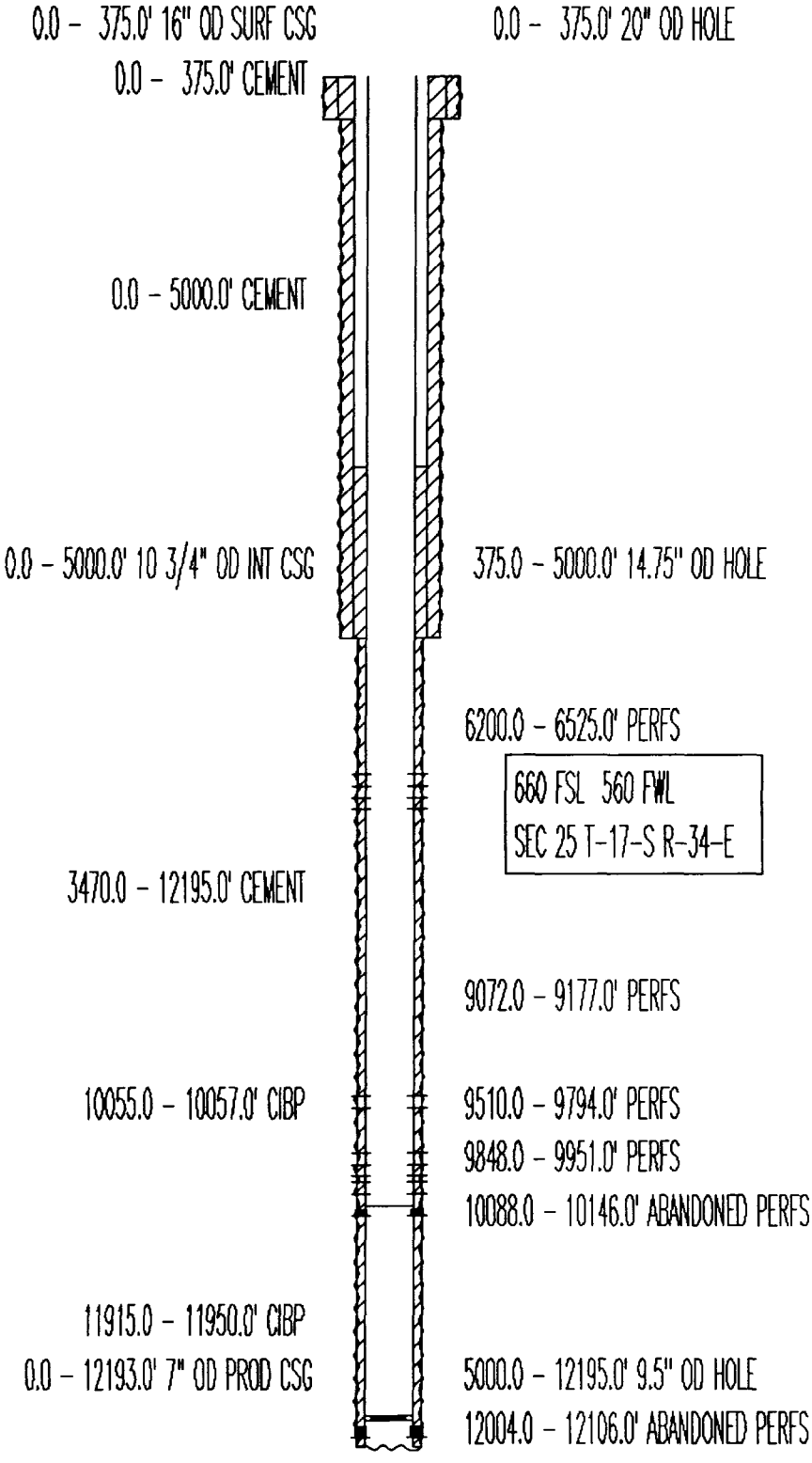
STATE H-35 NO. 9
PHILLIPS PET
API# 3002520228



KB ELEV: 4022'
PBTD: 9315'
TD: 10094'

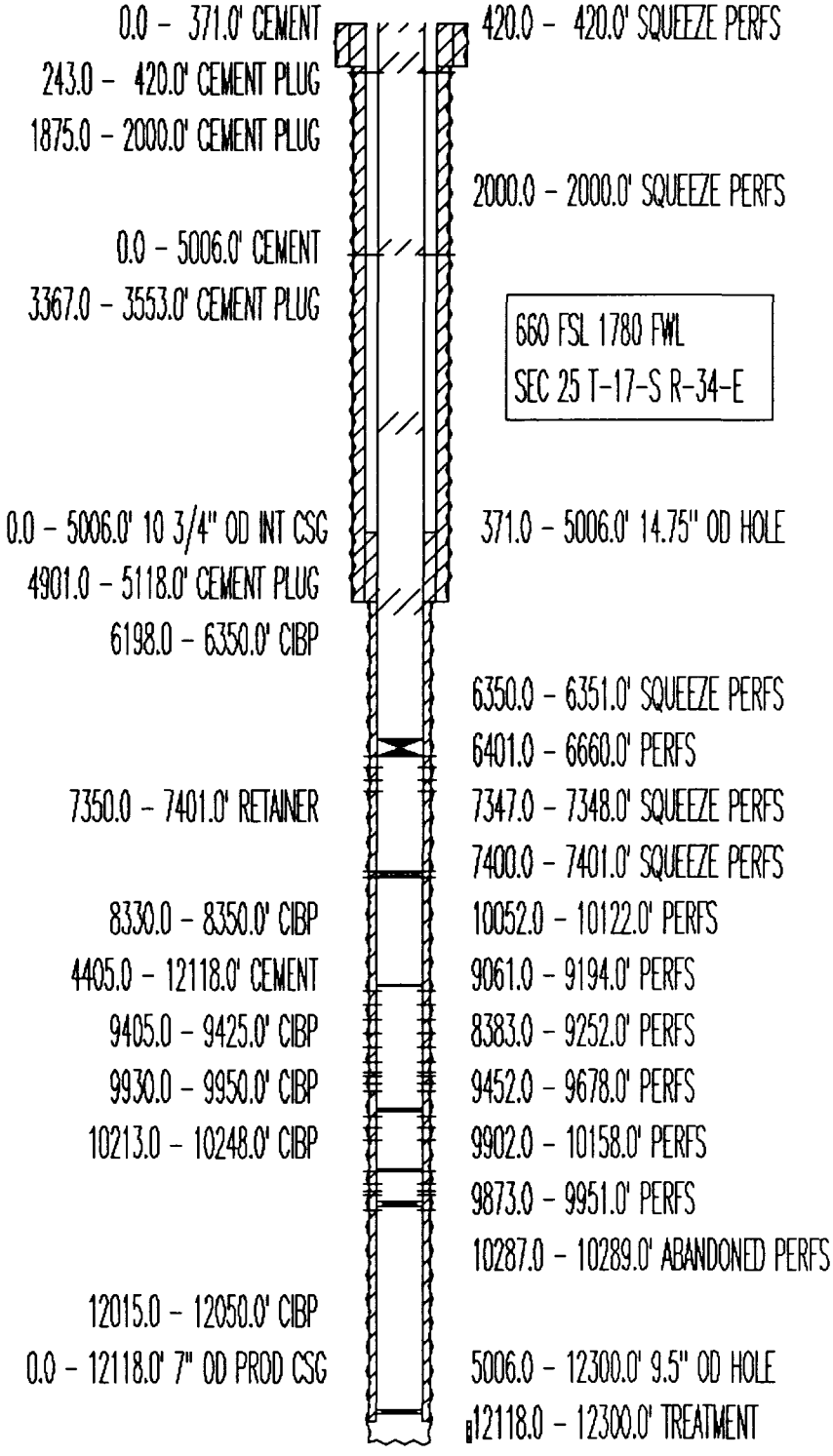
ATTACHMENT VI
TO
FORM C-108

MARATHON OIL CO.
MCCALLISTER ST. NO. 5
API 3002520116



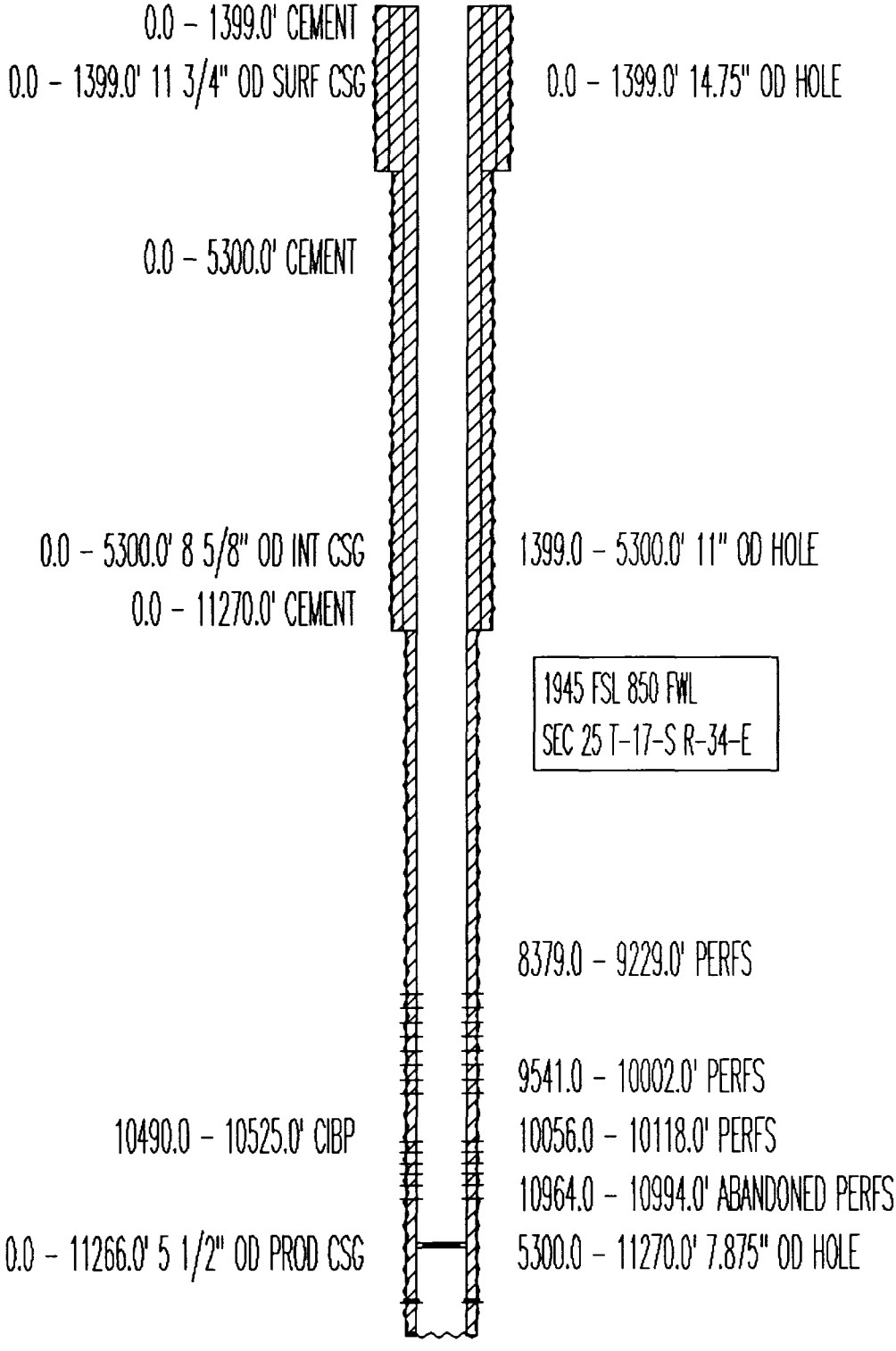
KB ELEV: 4017'
PBTD: 12195'
TD: 12195'

MARATHON OIL CO.
MCCALLISTER ST. NO. 7
API 3002520115



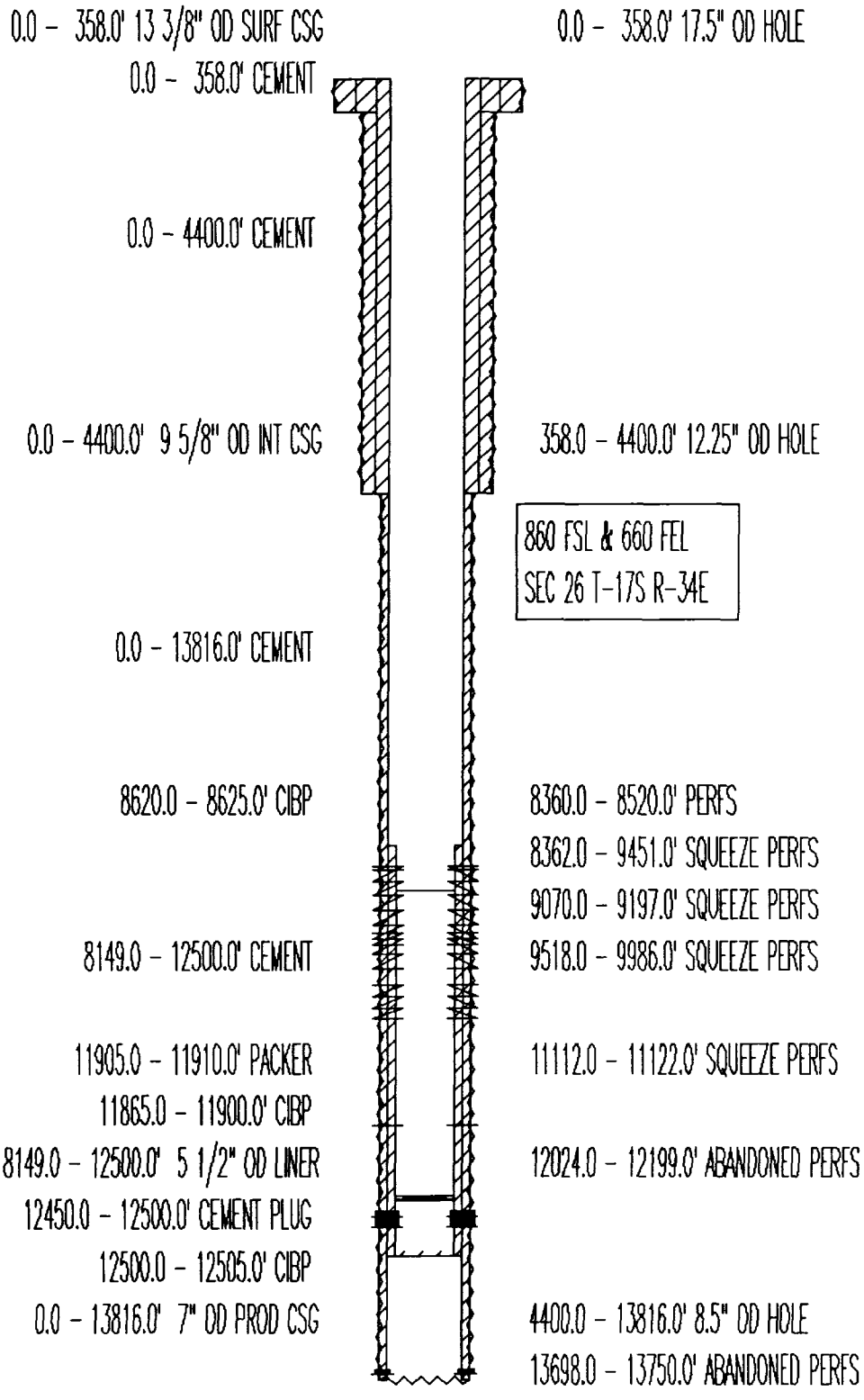
KB ELEV: 4017'
PBTD: 12125'
TD: 12125'

MARATHON OIL CO.
MCCALLISTER ST. NO. 12
API 3002533954

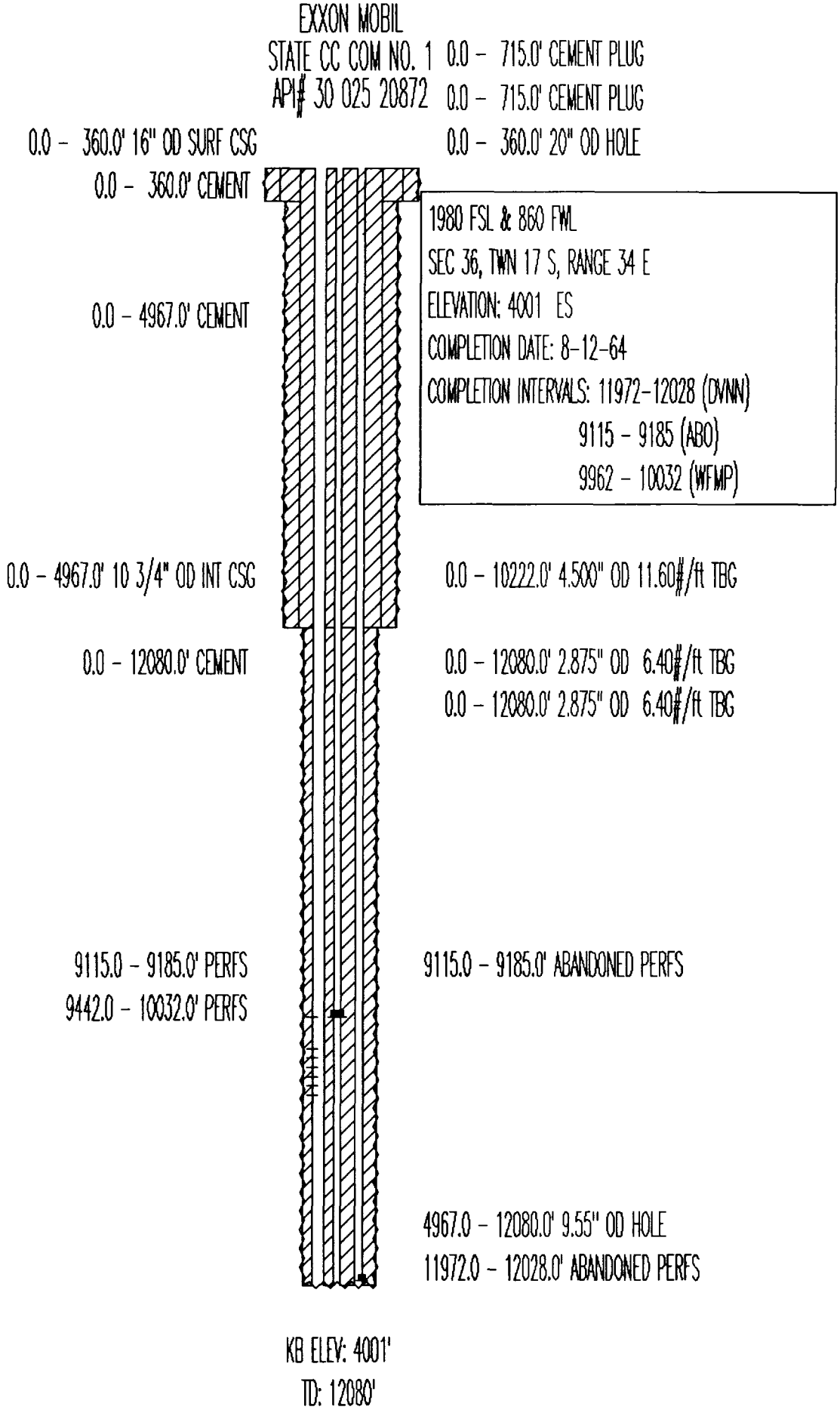


KB ELEV: 4026'
PBTD: 10490'
TD: 11500'

NORTH VACUUM ABO UNIT NO. 95
EXXONMOBIL
API# 3002502128

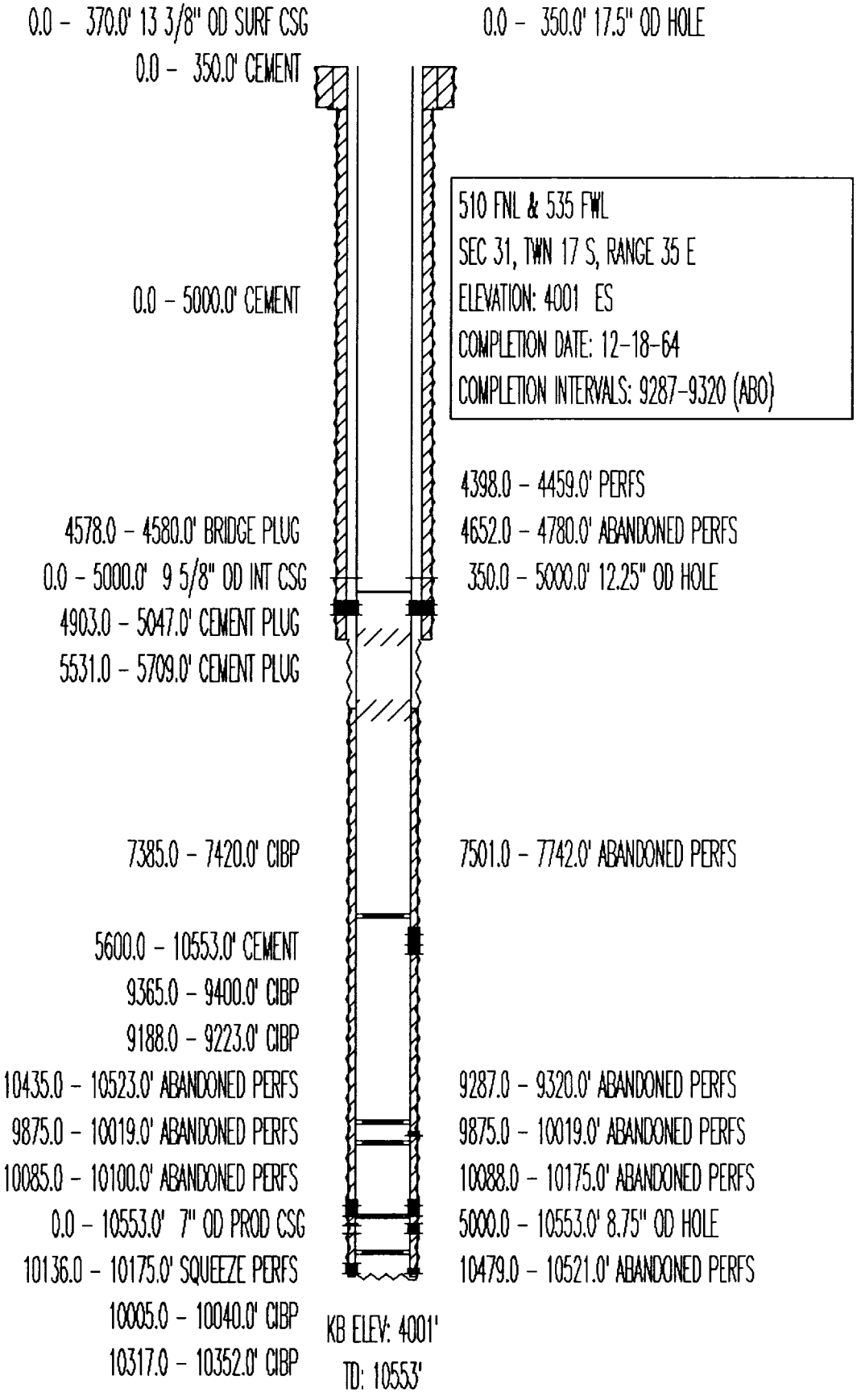


KB ELEV: 4003'
PBTD: 8620'
TD: 13816'

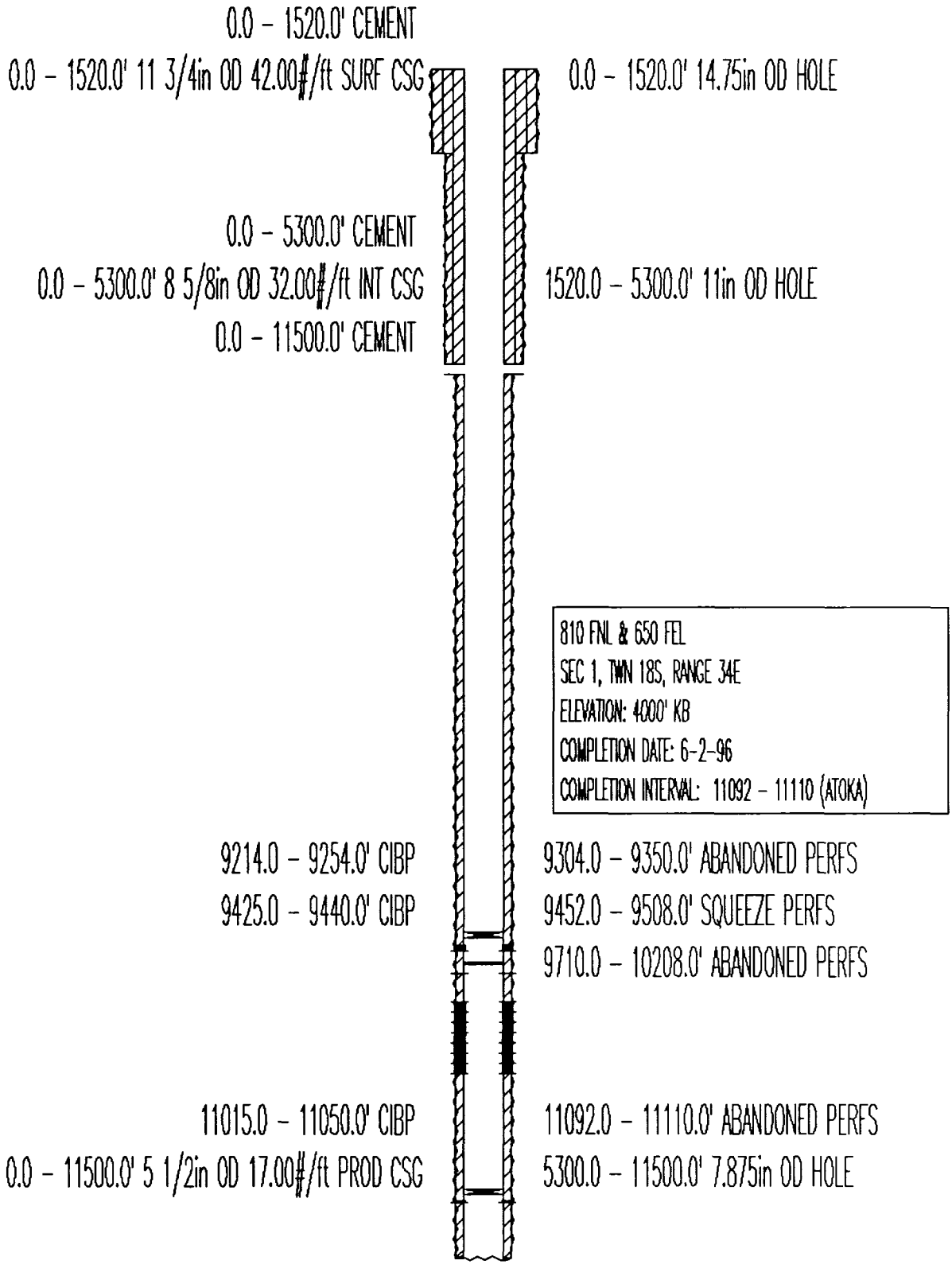

EXXON MOBIL
STATE CC COM NO. 1
API# 30 025 20872
0.0 - 715.0' CEMENT PLUG
0.0 - 715.0' CEMENT PLUG
0.0 - 360.0' 16" OD SURF CSG
0.0 - 360.0' 20" OD HOLE
0.0 - 360.0' CEMENT
1980 FSL & 860 FWL
SEC 36, TWN 17 S, RANGE 34 E
ELEVATION: 4001 ES
COMPLETION DATE: 8-12-64
COMPLETION INTERVALS: 11972-12028 (DVNN)
9115 - 9185 (ABO)
9962 - 10032 (WFMP)
0.0 - 4967.0' CEMENT
0.0 - 4967.0' 10 3/4" OD INT CSG
0.0 - 10222.0' 4.500" OD 11.60#/ft TBG
0.0 - 12080.0' CEMENT
0.0 - 12080.0' 2.875" OD 6.40#/ft TBG
0.0 - 12080.0' 2.875" OD 6.40#/ft TBG
9115.0 - 9185.0' PERFS
9442.0 - 10032.0' PERFS
9115.0 - 9185.0' ABANDONED PERFS
4967.0 - 12080.0' 9.55" OD HOLE
11972.0 - 12028.0' ABANDONED PERFS
KB ELEV: 4001'
TD: 12080'

FORMERLY ST. DD COM. NO. 1

TEXACO
CENTRAL VACUUM UNIT NO. 250
API# 30 025 20862



TEXACO E&P INC.
NEW MEXICO L ST. NO. 18
API# 30-025-33301

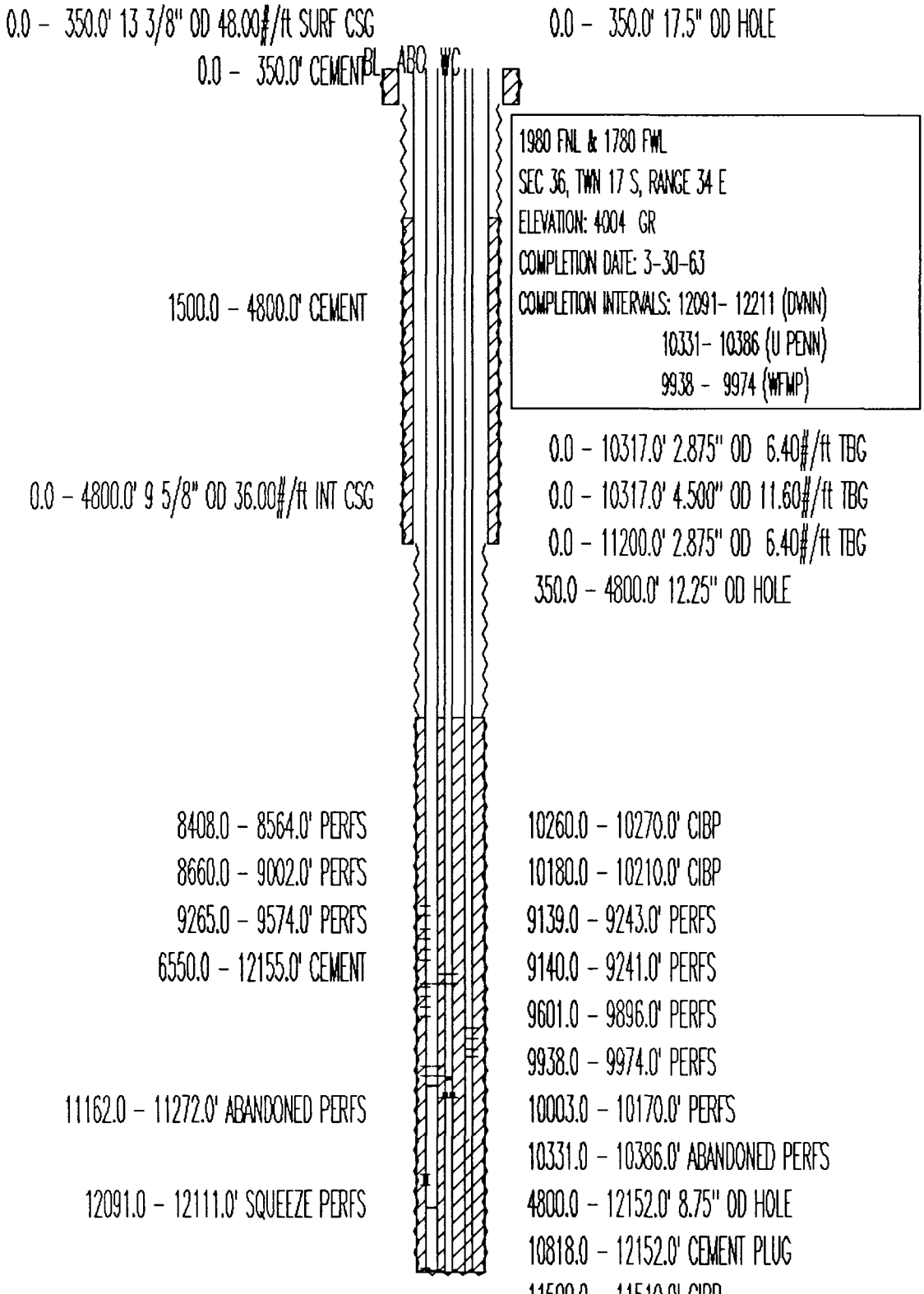


KB ELEV: 4000'

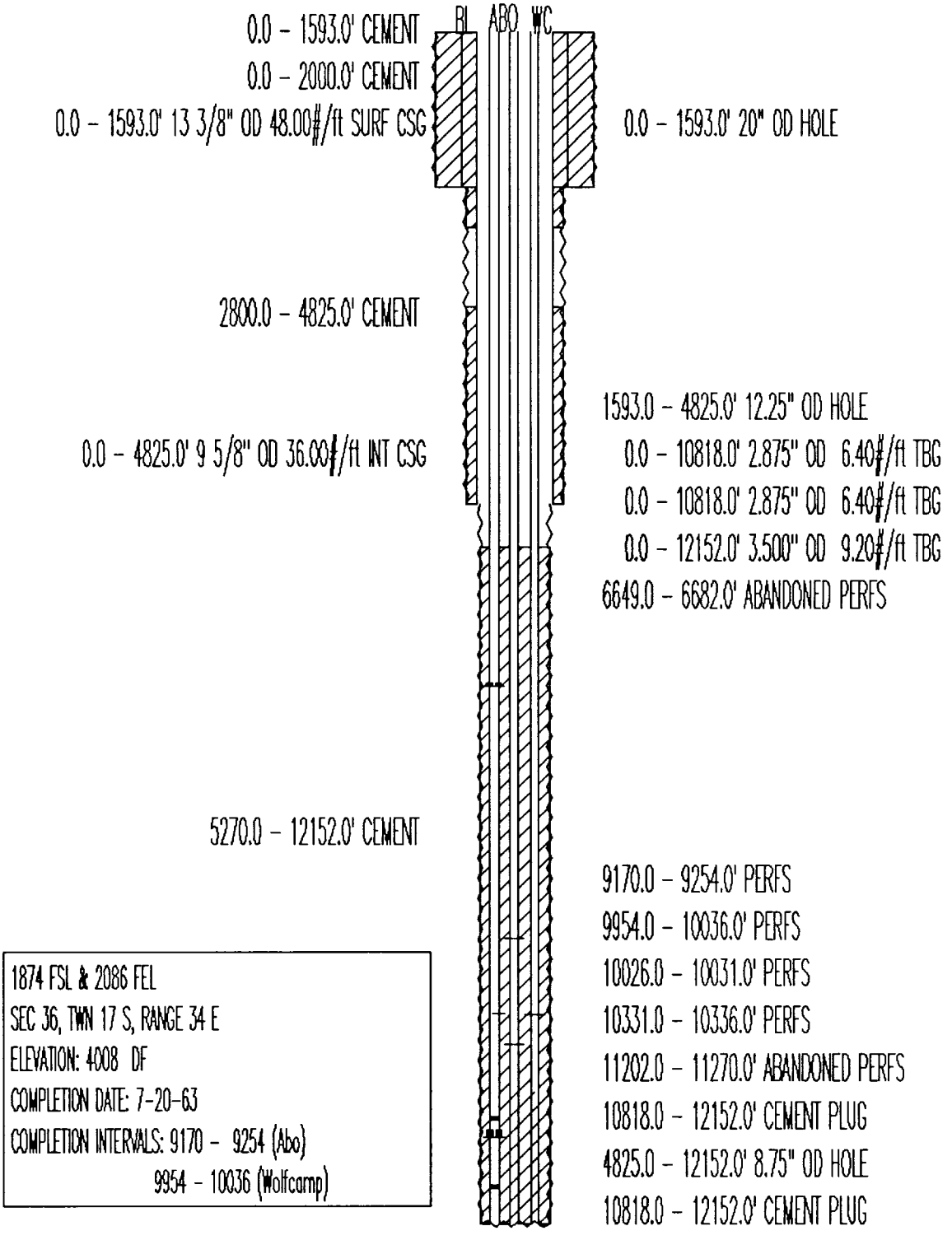
PBTD: 11327'

TD: 11500'

TEXACO E&P INC.
NM "O" STATE NCT-1 No. 11
API# 30 025 20382

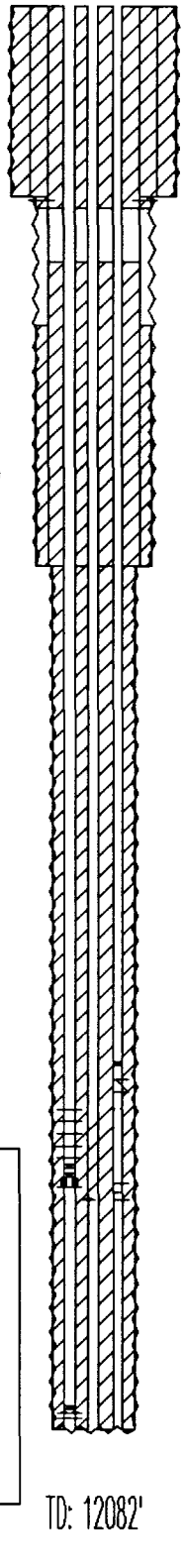


TEXACO E&P INC.
NM "O" STATE NCT-1 No. 14
API# 30 025 20008



1874 FSL & 2086 FEL
SEC 36, TWN 17 S, RANGE 34 E
ELEVATION: 4008 DF
COMPLETION DATE: 7-20-63
COMPLETION INTERVALS: 9170 - 9254 (Abo)
9954 - 10036 (Wolfcamp)

TEXACO E&P INC.
NM "O" STATE NCT-1 No. 17
API# 30 025 20125

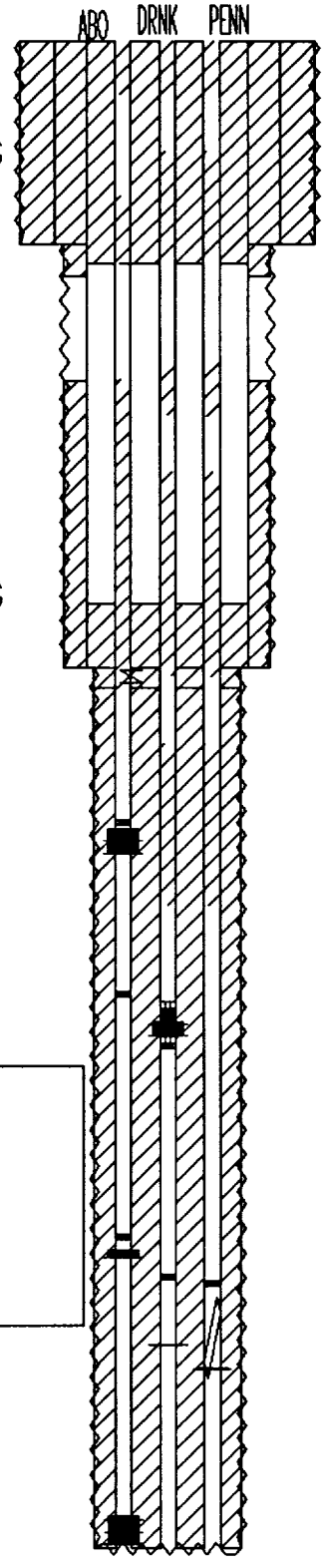


0.0 - 1612.0' CEMENT
0.0 - 1700.0' CEMENT
0.0 - 1700.0' CEMENT
0.0 - 1612.0' 13 3/8" OD 48.00#/ft SURF CSG
0.0 - 1612.0' 17.5" OD HOLE
1640.0 - 1640.0' SQUEEZE PERFS
2700.0 - 4750.0' CEMENT
0.0 - 4750.0' 9 5/8" OD 36.00#/ft INT CSG
1612.0 - 4750.0' 12.25" OD HOLE
0.0 - 10964.0' 2.875" OD 6.40#/ft TBG
0.0 - 10975.0' 2.875" OD 6.40#/ft TBG
0.0 - 12082.0' 3.500" OD 9.20#/ft TBG
2160.0 - 12082.0' CEMENT
9915.0 - 9950.0' CIBP
9380.0 - 10140.0' CEMENT PLUG
9358.0 - 9360.0' RESTR ID
8965.0 - 9000.0' CIBP
9097.0 - 9224.0' SQUEEZE PERFS
9341.0 - 9787.0' PERFS
10130.0 - 10140.0' ABANDONED PERFS
9962.0 - 10029.0' ABANDONED PERFS
9992.0 - 10004.0' SQUEEZE PERFS
10130.0 - 10140.0' SQUEEZE PERFS
11980.0 - 11990.0' ABANDONED PERFS
4750.0 - 12082.0' 8.75" OD HOLE
11932.0 - 11942.0' ABANDONED PERFS
9840.0 - 9875.0' CIBP
10070.0 - 10080.0' RETAINER
11875.0 - 11910.0' CIBP
TD: 12082'

760 FSL & 2080 FWL
SEC 36, TWN 17 S, RANGE 34 E
ELEVATION: 3997 GR
COMPLETION DATE: 6-22-63
COMPLETION INTERVALS: 11980 - 11990 (DVNN)
10130 - 10140 (PSLV)
9992 - 10004 (Wolfcamp)

P&A: 6-23-95

TEXACO E&P INC.
NM "O" STATE NCT-1 No. 18
API# 30 025 20274



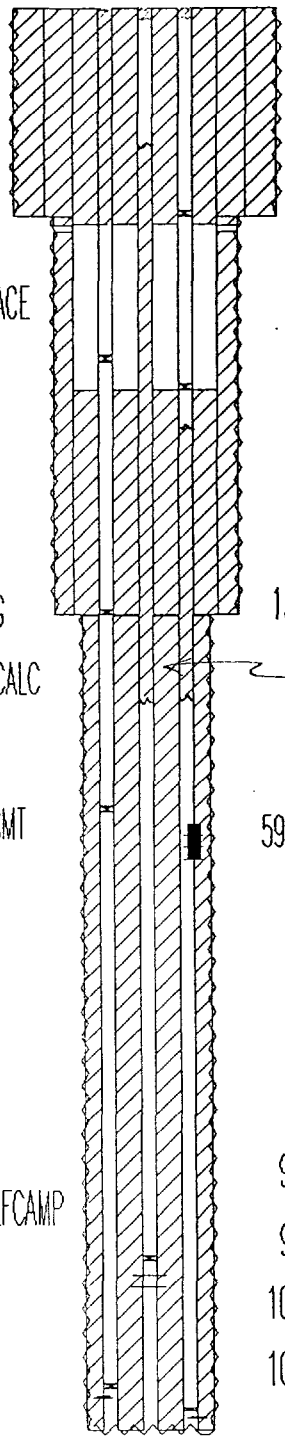
0.0 - 1555.0' CEMENT
0.0 - 1700.0' CEMENT
0.0 - 1555.0' 13 3/8" OD 65.00#/ft SURF CSG
0.0 - 1800.0' CEMENT
2600.0 - 4796.0' CEMENT
0.0 - 4796.0' 9 5/8" OD 36.00#/ft INT CSG
4300.0 - 4950.0' CEMENT
4300.0 - 11510.0' CEMENT

1880 FNL & 560 FEL
SEC 36, TWN 17 S, RANGE 34 E
ELEVATION: 4005 DF
COMPLETION DATE: 10-09-63
COMPLETION INTERVALS: 7492 - 7606 (DRNK)

0.0 - 400.0' CEMENT PLUG
0.0 - 400.0' CEMENT PLUG
0.0 - 400.0' CEMENT PLUG
838.0 - 1650.0' CEMENT PLUG
838.0 - 1650.0' CEMENT PLUG
0.0 - 1555.0' 17.5" OD HOLE
1700.0 - 1702.0' SQUEEZE PERFS
1185.0 - 1700.0' CEMENT PLUG
2434.0 - 2860.0' CEMENT PLUG
2454.0 - 2850.0' CEMENT PLUG
2588.0 - 4950.0' CEMENT PLUG
3700.0 - 4860.0' CEMENT PLUG
3294.0 - 3700.0' CEMENT PLUG
5382.0 - 6600.0' CEMENT PLUG
1555.0 - 4796.0' 12.255" OD HOLE
4805.0 - 4908.0' SQUEEZE PERFS
0.0 - 10801.0' 2.875" OD 6.50#/ft TBG
0.0 - 11508.0' 2.875" OD 6.50#/ft TBG
0.0 - 11510.0' 2.875" OD 6.50#/ft TBG
6028.0 - 6206.0' ABANDONED PERFS
3294.0 - 3700.0' CEMENT PLUG
7492.0 - 7606.0' ABANDONED PERFS
3700.0 - 4850.0' CEMENT PLUG
5382.0 - 6600.0' CEMENT PLUG
5955.0 - 5995.0' CIBP
7265.0 - 7305.0' CIBP
9236.0 - 9290.0' ABANDONED PERFS
7339.0 - 7665.0' RETAINER
9951.0 - 9959.0' ABANDONED PERFS
10130.0 - 10140.0' ABANDONED PERFS
7665.0 - 7705.0' CIBP
9420.0 - 9460.0' CIBP
4796.0 - 11510.0' 8.75" OD HOLE
11262.0 - 11481.0' ABANDONED PERFS
9115.0 - 9155.0' CIBP
9465.0 - 9505.0' CIBP
9591.0 - 10210.0' BAR FISH
11400.0 - 11430.0' CIBP

GLOR/ ABO/ WC

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



0 - 1600' CEMENT BRDNHD SQZ W/900 SX

0 - 1534' 13.375" OD SURF CSG

0 - 1534' CEMENT 1200 sx

0 - 1597' CEMENT CIRC. to SURFACE

1597 - 1597' SQUEEZE PERFS

0 - 4418' 9.625" OD INT CSG

1650 - 4418' CEMENT 1700 sx CALC

5810 - 5850' CIBP 35' CMT

9950 - 9990' CIBP 35' CMT

10042 - 10062' ABANDONED PERFS WOLFCAMP

0 - 10229' 2.875" OD TBG (X)

0 - 10300' 2.875" OD TBG (Y)

0 - 10284' 2.875" OD TBG (Z)

2800 - 10300' CEMENT 2400 sx

0 - 50' CEMENT PLUG

0 - 1597' CEMENT PLUG

1013 - 5000' CEMENT PLUG

1494 - 1534' CIBP 35' CMT CAP

0 - 1534' 17.5 " OD HOLE

2360 - 2800' CIBP 35' CMT CAP

3065 - 5000' CEMENT PLUG

4378 - 4418' CIBP 35' CMT

1534 - 4418' 12.25 " OD HOLE

Both strings filled w/ cement to ?' when surf casing was cemented ?

5942 - 6200' ABANDONED PERFS GLORIETA

9040 - 9080' CIBP 35' CMT CAP

9133 - 9263' PERFS ABO

10134 - 10155' CIBP 16' HYD CAP

10206 - 10212' ABANDONED PERFS PENN 40 SX

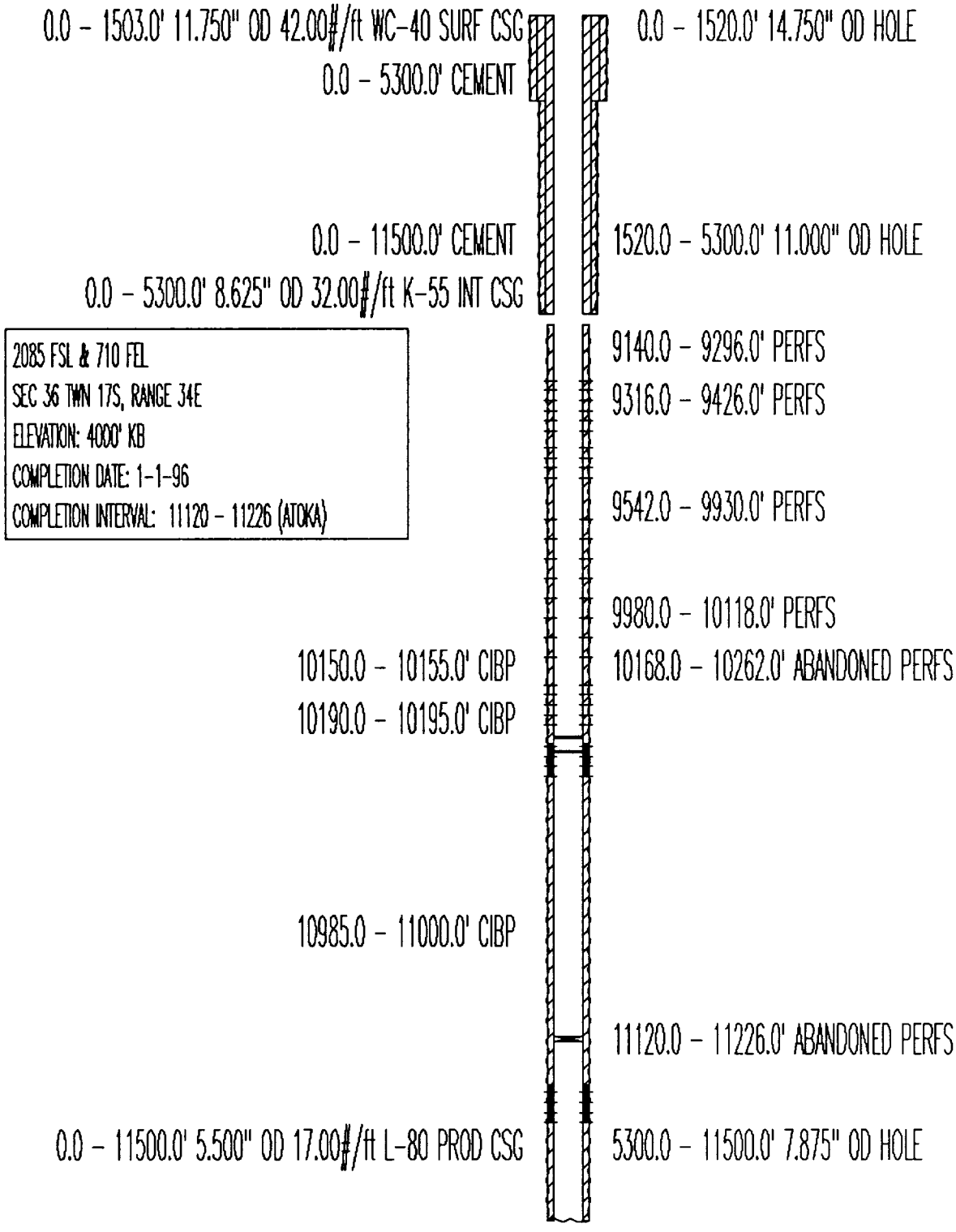
TD: 10300'

4418 - 10300' 8.5 " OD HOLE

860 FSL & 660 FEL
SEC 36 , TWN 17 S, RANGE 34 E
ELEVATION: 3995 KB
COMPLETION DATE: 07-04-64

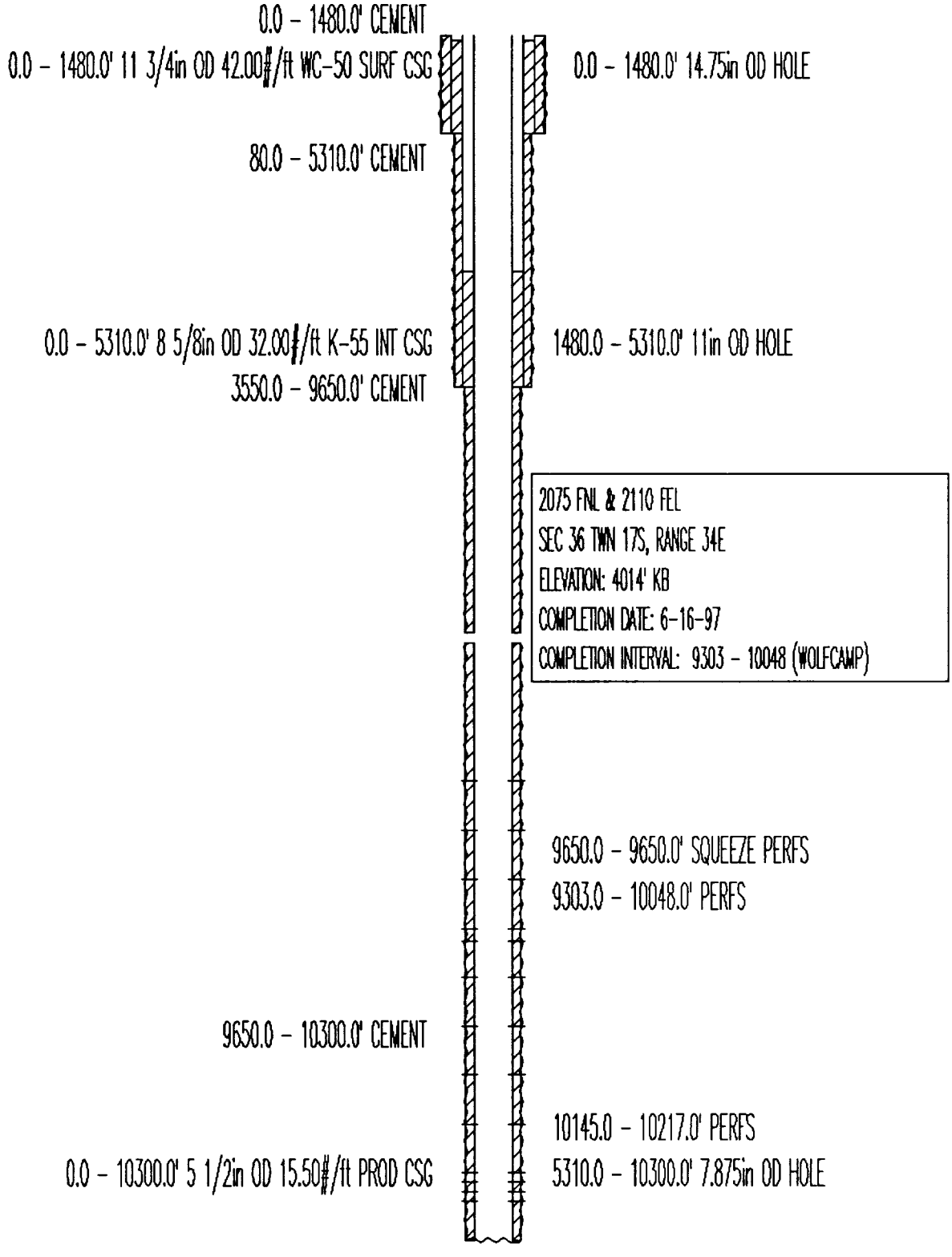
RTM 1/95

TEXACO E&P INC.
NEW MEXICO O ST. NO. 38
API# 30-025-33148



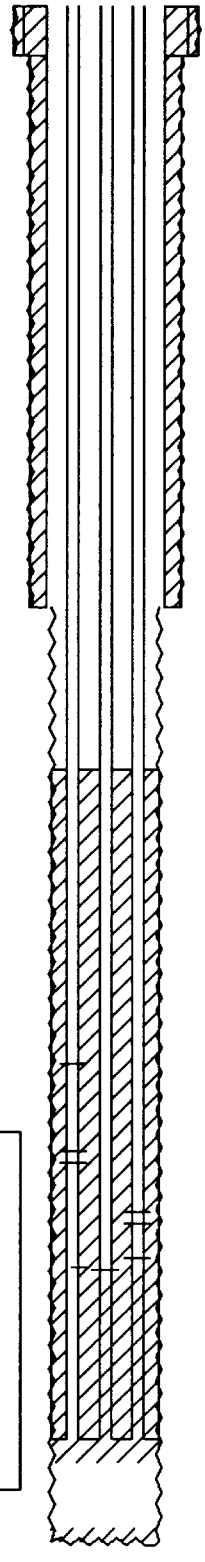
KB ELEV: 4000'
PBTD: 11480'
TD: 11500'

TEXACO E&P INC.
NEW MEXICO O ST. NCT-1 NO. 39
API# 30-025-33569



KB ELEV: 4014'
PBTD: 10300'
TD: 10300'

TEXACO E&P INC.
NM "Q" STATE No. 4
API# 30 025 20294



0.0 - 385.0' 13 3/8" OD 65.00#/ft SURF CSG

0.0 - 385.0' CEMENT

0.0 - 385.0' 15" OD HOLE

0 - 385' 15" OD HOLE

0.0 - 4799.0' CEMENT

385.0 - 4799.0' 12.25" OD HOLE

0.0 - 4799.0' 9 5/8" OD 36.00#/ft INT CSG

0.0 - 10150.0' 2.875" OD 6.40#/ft TBG

0.0 - 10176.0' 2.875" OD 6.40#/ft TBG

0.0 - 11468.0' 2.875" OD 6.40#/ft TBG

6100.0 - 11468.0' CEMENT

8420.0 - 8460.0' PERFS

9148.0 - 9251.0' PERFS

10069.0 - 10107.0' PERFS

9627.0 - 9734.0' PERFS

9951.0 - 10005.0' PERFS

10070.0 - 10080.0' PERFS

10150.0 - 11468.0' CEMENT PLUG

10176.0 - 11468.0' CEMENT PLUG

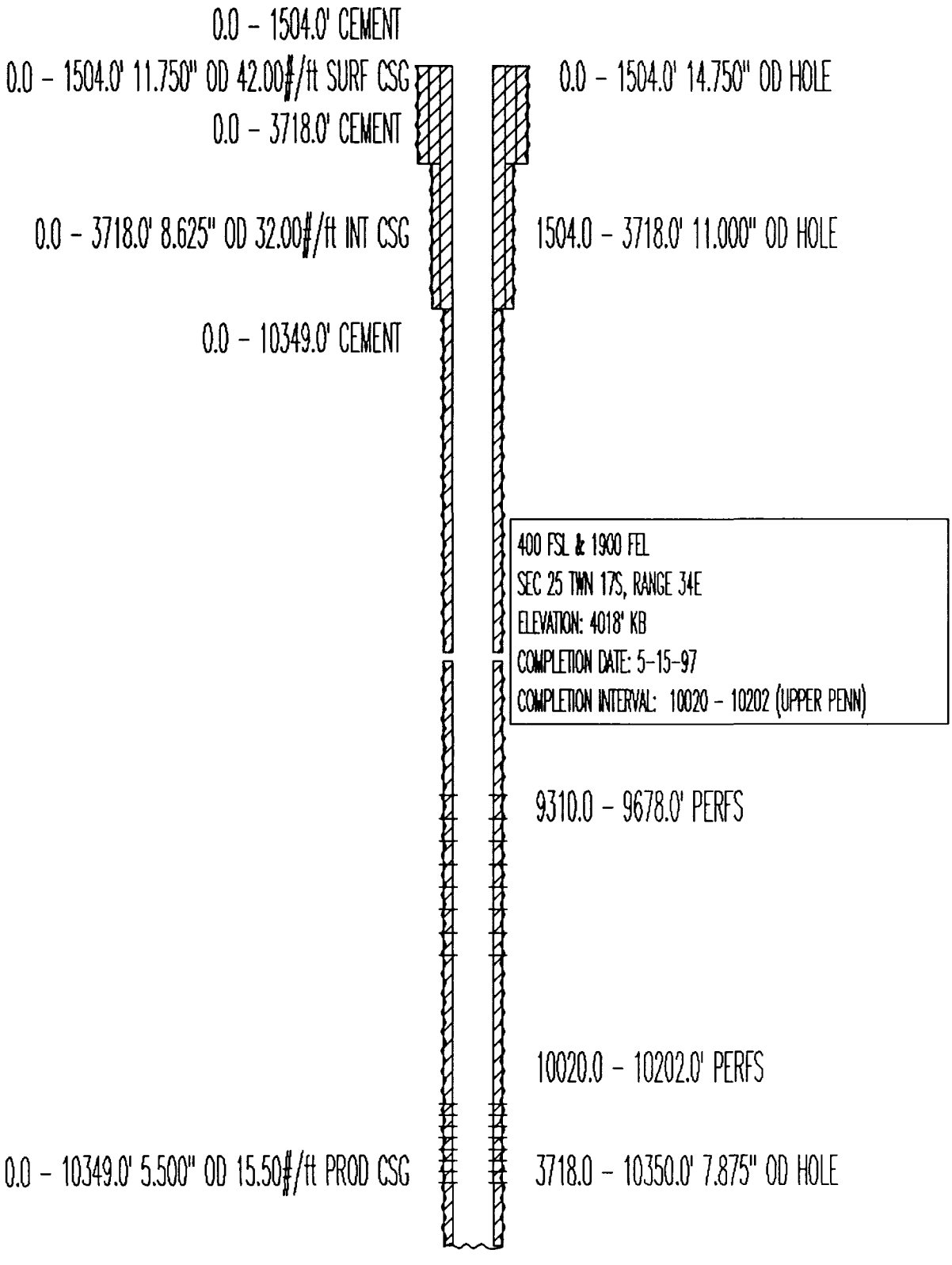
4799.0 - 12285.0' 8.75" OD HOLE

11468.0 - 11650.0' CEMENT PLUG

12181.0 - 12285.0' CEMENT PLUG

500 FSL & 760 FEL
SEC 25, TWN 17 S, RANGE 34 E
ELEVATION: 4003 DF
COMPLETION DATE: 11-02-63
COMPLETION INTERVALS: 8420 - 9251 (ABO)
9627 - 10005 (WCMP)
10069 - 10107 (U PEN)

TEXACO E&P INC.
NEW MEXICO Q ST. NO. 12
API# 30-025-33850



KB ELEV: 4018'
PBTD: 10310'
TD: 10350'

API# 30 025 20057

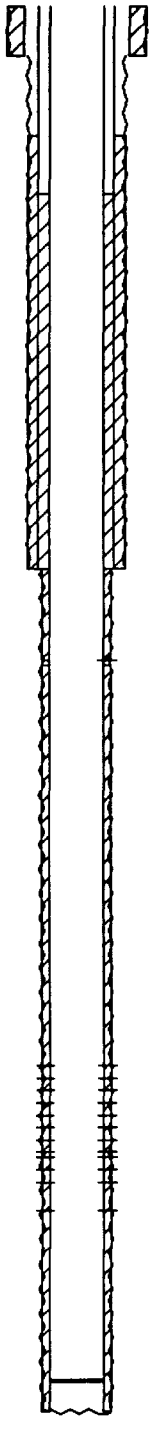
TEXACO E&P INC.

State "BA" No. 6

0.0 - 421.0' 13 3/8" OD 35.60#/ft SURF CSG

0.0 - 421.0' 17-1/2" OD HOLE

0.0 - 421.0' CEMENT



1110.0 - 4835.0' CEMENT

1600.0 - 5625.0' CEMENT

0.0 - 4835.0' 9 5/8" OD 24.00#/ft INT CSG

421.0 - 4835.0' 12-1/4" OD HOLE

5624.0 - 5625.0' SQUEEZE PERFS

660 FNL & 860 FWL
SEC 36, TWN 17S, RANGE 34E
ELEVATION: 4002' GR
COMPLETION DATE: 10-11-63
COMPLETION INTERVALS: 9,070' - 9,231' (ABO)
9,902' - 10,016' (WCMP)
10,121' - 10,134' (PENN)

5675.0 - 12109.0' CEMENT

9070.0 - 9231.0' PERFS

9240.0 - 9870.0' PERFS

9902.0 - 10016.0' PERFS

10121.0 - 10134.0' PERFS

11835.0 - 11860.0' CIBP

10320.0 - 10370.0' PERFS

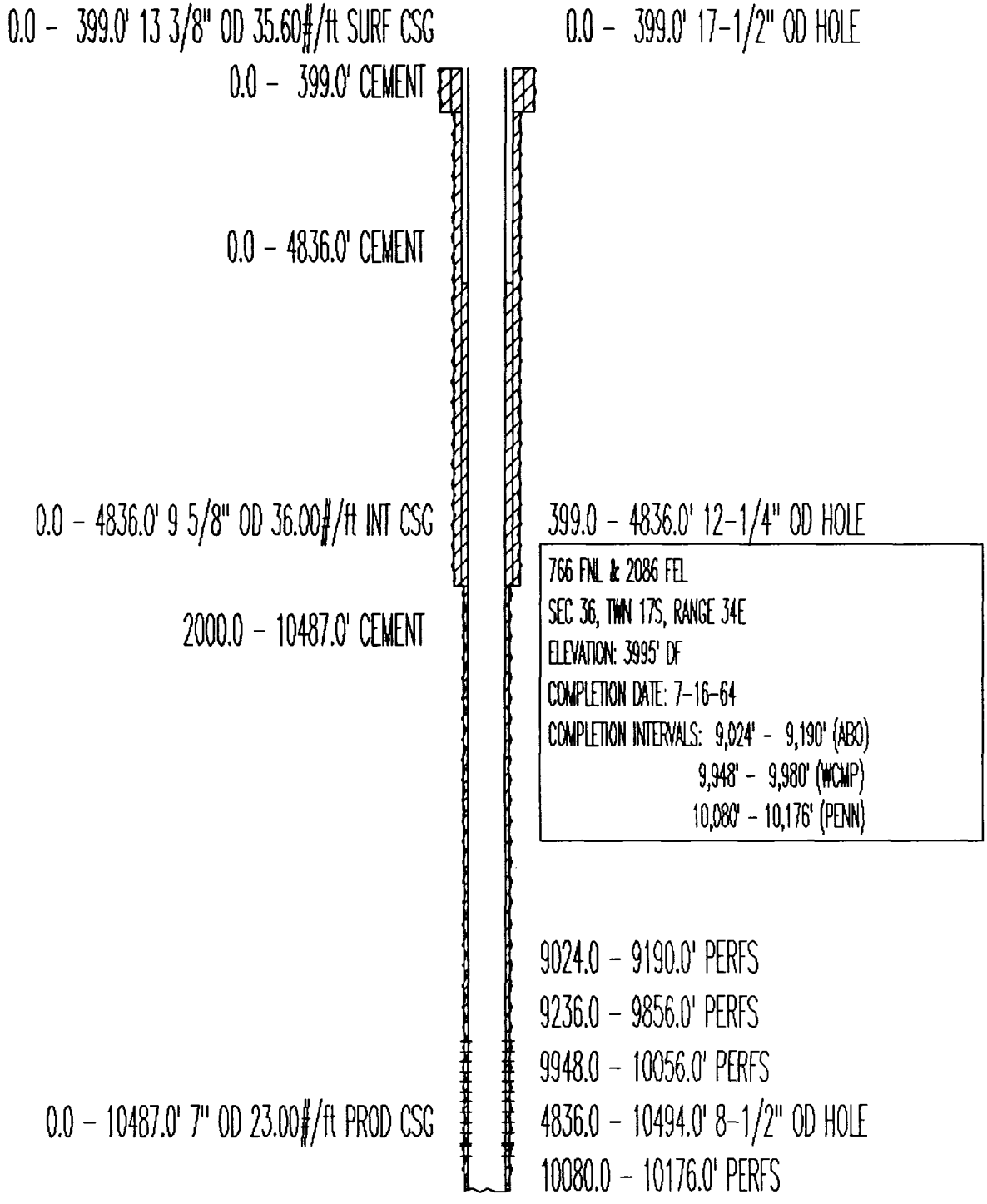
0.0 - 12109.0' 7" OD 23.00#/ft PROD CSG

4835.0 - 12110.0' 8-3/4" OD HOLE

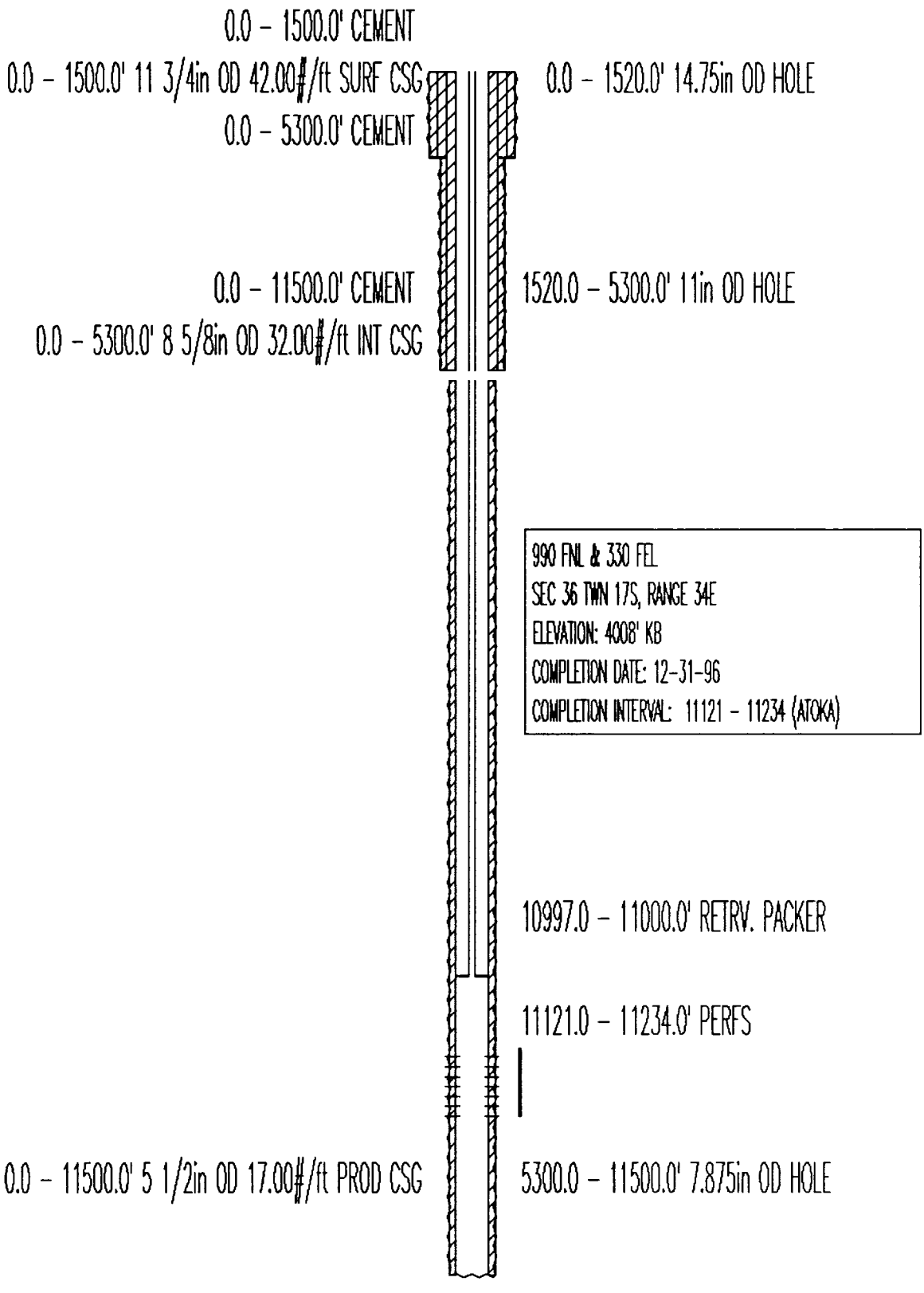
API# 30 025 20986

TEXACO E&P INC.

State "BA" No. 8

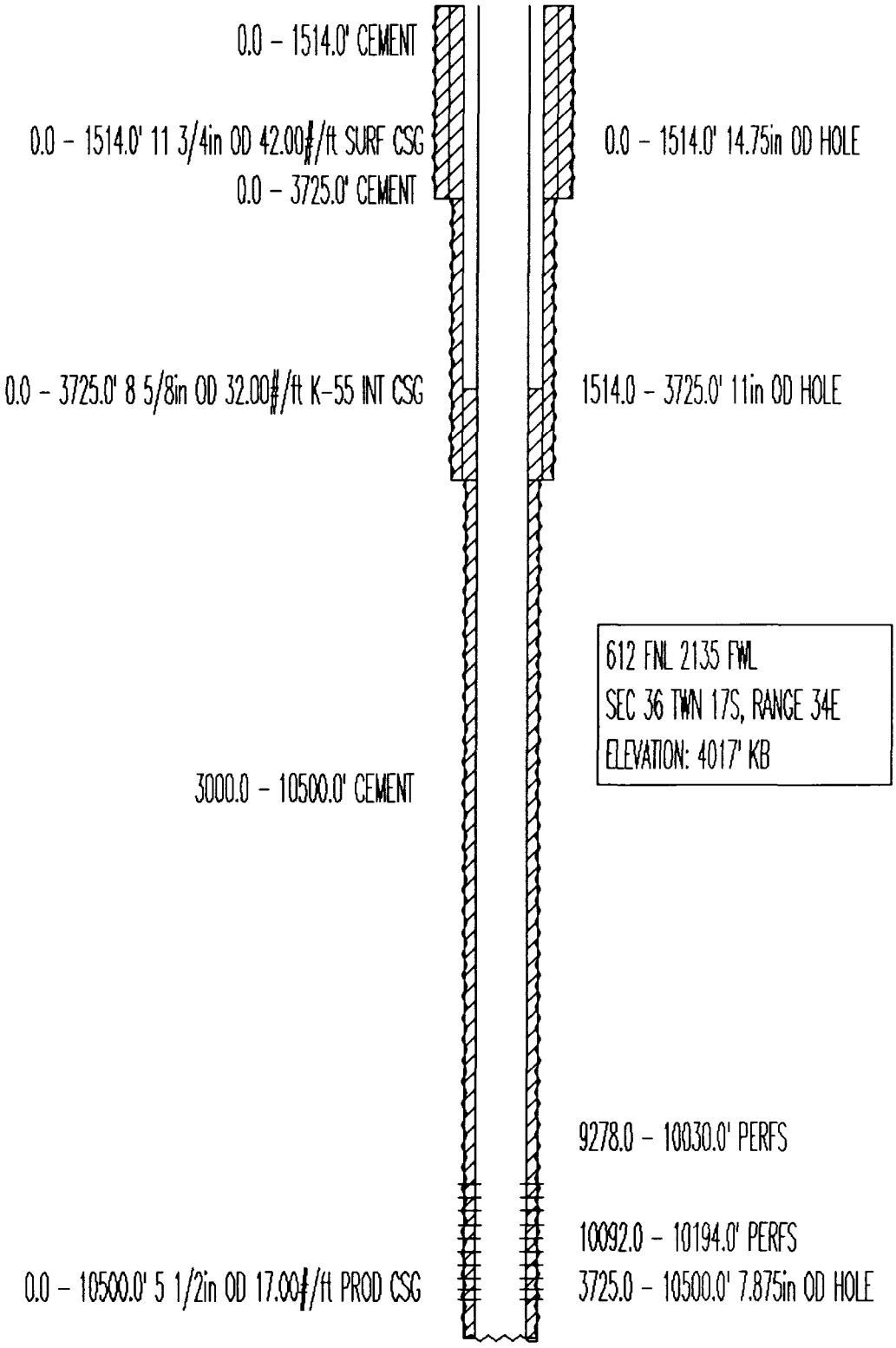


TEXACO E&P INC.
STATE "BA" NO. 14
API# 30-025-33570



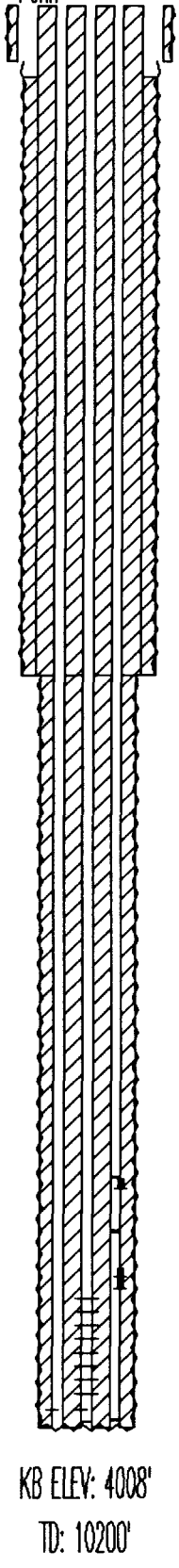
KB ELEV: 4008'
PBTD: 11300'
TD: 11500'

TEXACO E&P INC.
STATE "BA" NO. 15
API# 30-025-34945



KB ELEV: 4017'
PBTD: 10500'
TD: 10500'

APACHE
TEXACO-SHELL ST. COM NO. 1
API# 30 025 20948



0.0 - 390.0' 13 3/8" OD 65.00#/ft SURF CSG

0.0 - 390.0' CEMENT

0.0 - 390.0' 15" OD HOLE

0 - 385' 15" OD HOLE

500.0 - 4800.0' CEMENT

390.0 - 4800.0' 12.25" OD HOLE

0.0 - 4800.0' 9 5/8" OD 36.00#/ft INT CSG

0.0 - 10200.0' CEMENT

0.0 - 10199.0' 2.875" OD 6.40#/ft TBG

0.0 - 10198.0' 2.875" OD 6.40#/ft TBG

0.0 - 10196.0' 2.875" OD 6.40#/ft TBG

1833 FSL & 1845 FEL
SEC 25, TWN 17 S, RANGE 34 E
ELEVATION: 4008 DF
COMPLETION DATE: 05-29-64
COMPLETION INTERVALS: 9056 - 9199 (ABO)
9872 - 9953 (WCMP)
10032 - 10070 (U PEN)

8778.0 - 8788.0' CIBP

8418.0 - 8485.0' ABANDONED PERFS

8400.0 - 8405.0' CIBP

9056.0 - 9199.0' ABANDONED PERFS

9266.0 - 9953.0' PERFS

10032.0 - 10070.0' PERFS

10065.0 - 10068.0' PERFS

8793.0 - 8795.0' FISH

4800.0 - 10200.0' 8.75" OD HOLE

10140.0 - 10145.0' FISH

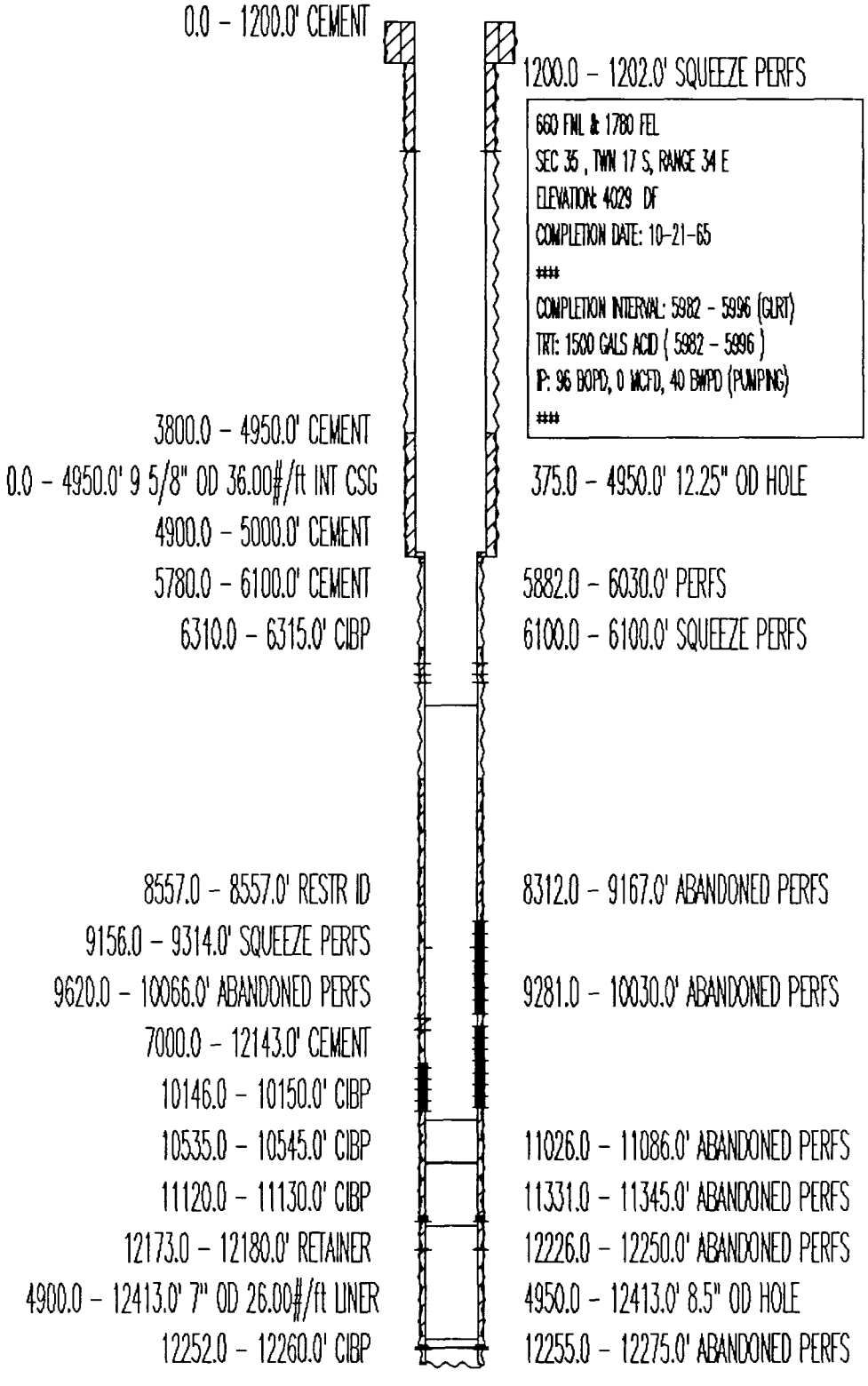
10152.0 - 10155.0' FISH

KB ELEV: 4008'

TD: 10200'

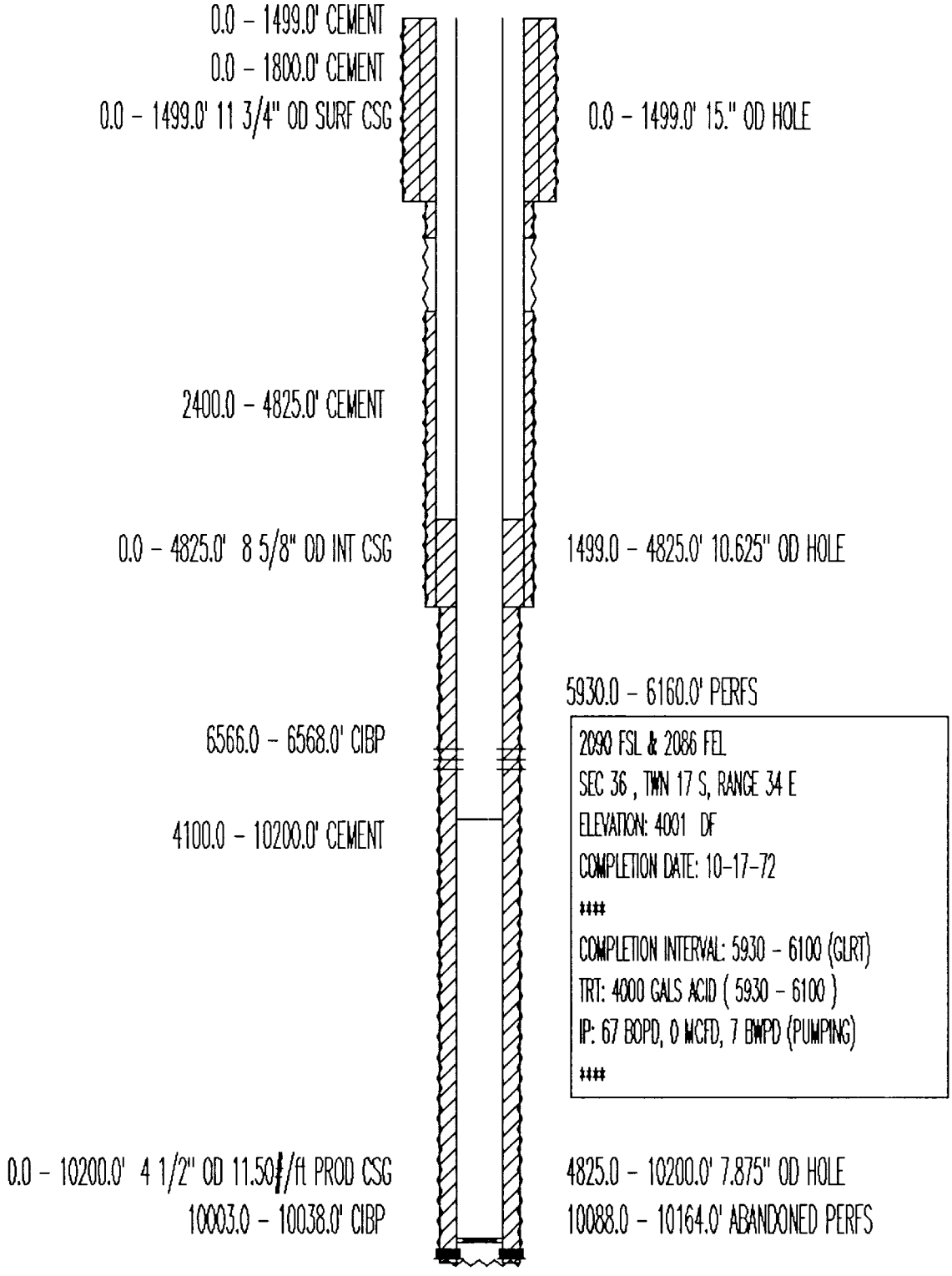
FORMERLY STATE H-35 NO. 7

TEXACO E&P INC
VGWU NO. 56
API# 3002520329



FORMERLY NM O ST NCT-1 NO. 25

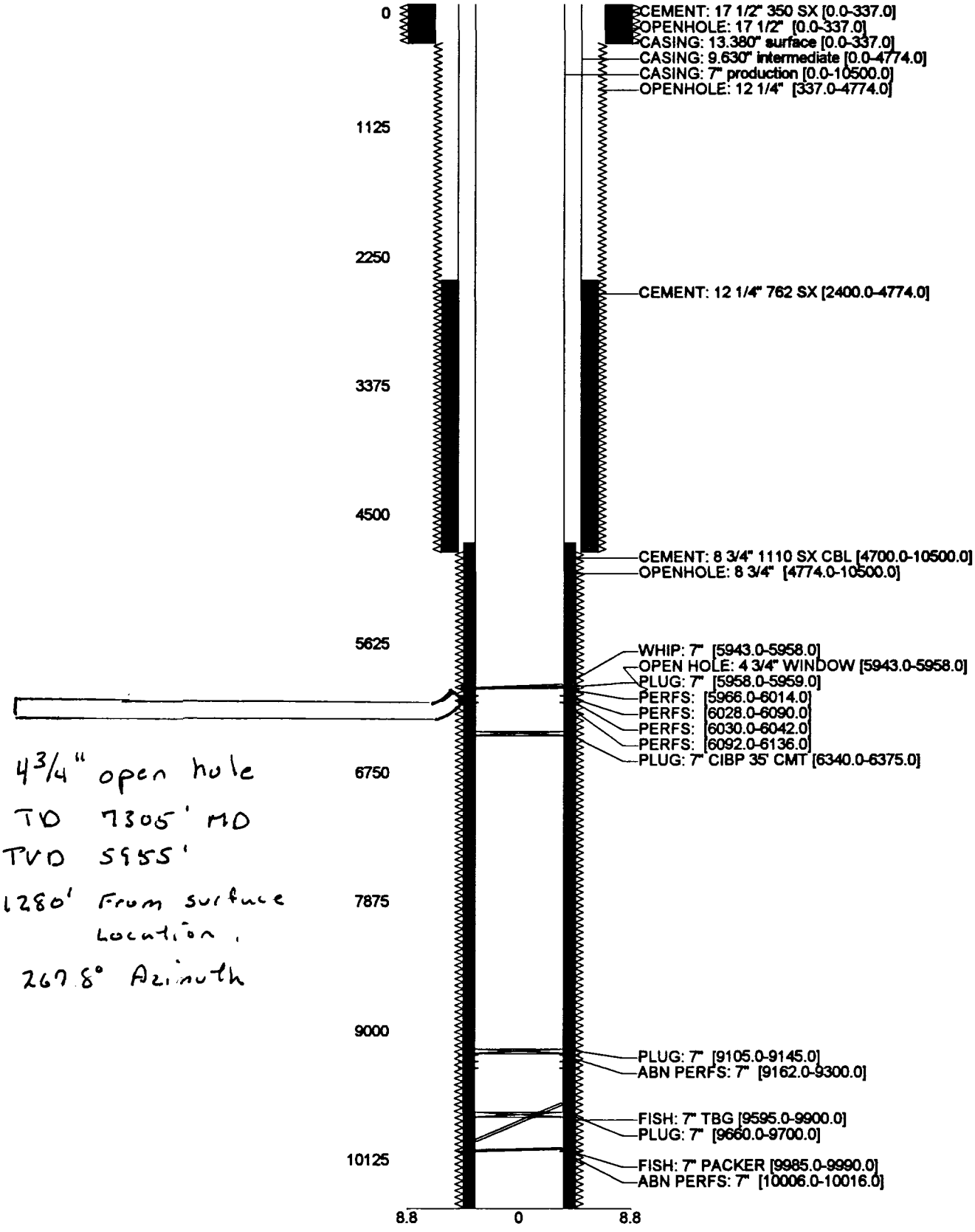
TEXACO INC
VGWU 87
API# 3002521637



KB ELEV: 4002'
PBTD: 10165'
TD: 10200'

VGWU 90

Name: 90 ID: 3002520270 Type: Oil Date: 2/20/01



4 3/4" open hole
TD 7305' MD
TVD 5955'
1280' From surface Location.
267.8° Azimuth

Analytical Laboratory Report for:

Texaco

UNICHEM
A Division of BJ Services Company
UNICHEM Representative: John Offutt

Production Water Analysis

Listed below please find water analysis report from: NQOBA, Heater Dump sampled on 09/29/2000

Lab Test No:	**2000128834**
Specific Gravity:	**1.061**
TDS:	**91736**
pH:	**6.00**

Cations:	**mg/L**	**as:**
Calcium	**3276**	**(Ca^{++})**
Magnesium	**787**	**(Mg^{++})**
Sodium	**27252**	**(Na^{+})**
Iron	**473.00**	**(Fe^{++})**
Barium	**0.28**	**(Ba^{++})**
Strontium	**97.00**	**(Sr^{++})**
Manganese	**5.55**	**(Mn^{++})**
Anions:	**mg/L**	**as:**
Bicarbonate	**1244**	**(HCO_3^{-})**
Silica	**49.71**	**(SiO_2)**
Sulfate	**1550**	**(SO_4^{--})**
Chloride	**57000**	**(Cl^{-})**
Gases:		
Carbon Dioxide		**(CO_2)**
Hydrogen Sulfide	**34**	**(H_2S)**

Comments:

ATTACHMENT VII
TO
FORM C-108

DownHole SAT(tm)
DEPOSITION POTENTIAL INDICATORS

Texaco — Heater Dump
NQOBA

Report Date: 10-11-2000 Sampled: 09-29-2000
Sample #: 8834 at 0000

SATURATION LEVEL		MOMENTARY EXCESS (Lbs/1000 Barrels)	
Calcite (CaCO3)	2.88	Calcite (CaCO3)	0.0738
Aragonite (CaCO3)	2.44	Aragonite (CaCO3)	0.0667
Witherite (BaCO3)	< 0.001	Witherite (BaCO3)	-24.10
Strontianite (SrCO3)	0.118	Strontianite (SrCO3)	-1.22
Magnesite (MgCO3)	0.831	Magnesite (MgCO3)	-0.0193
Anhydrite (CaSO4)	0.954	Anhydrite (CaSO4)	-14.95
Gypsum (CaSO4*2H2O)	1.05	Gypsum (CaSO4*2H2O)	53.00
Barite (BaSO4)	0.957	Barite (BaSO4)	-0.00744
Celestite (SrSO4)	0.322	Celestite (SrSO4)	-107.66
Calcium phosphate	0.00	Calcium phosphate	>-0.001
Hydroxyapatite	0.00	Hydroxyapatite	-398.11
Fluorite (CaF2)	0.00	Fluorite (CaF2)	-5.56
Silica (SiO2)	0.363	Silica (SiO2)	-31.26
Brucite (Mg(OH)2)	< 0.001	Brucite (Mg(OH)2)	-0.471
Magnesium silicate	< 0.001	Magnesium silicate	-119.34
Iron hydroxide (Fe(OH)3)	< 0.001	Iron hydroxide (Fe(OH)3)	< 0.001
Strengite (FePO4*2H2O)	0.00	Strengite (FePO4*2H2O)	>-0.001
Siderite (FeCO3)	588.11	Siderite (FeCO3)	0.131
Halite (NaCl)	0.0248	Halite (NaCl)	-160458
Thenardite (Na2SO4)	< 0.001	Thenardite (Na2SO4)	-77544
Iron sulfide (FeS)	141.68	Iron sulfide (FeS)	7.08

SIMPLE INDICES

Langelier	0.847
Ryznar	4.31
Puckorius	0.689
Larson-Skold Index	58.26
Stiff Davis Index	0.260
Oddo-Tomson	-0.125

UNICHEM - Midland Analytical Laboratory
P.O. Box 61427, Midland, Texas 79711

Analytical Laboratory Report for:

Texaco

UNICHEM
A Division of BJ Services Company

UNICHEM Representative: John Offutt

Production Water Analysis

Listed below please find water analysis report from: VGWU. Charge Pump sampled on 09/29/2000

Lab Test No:	2000128835
Specific Gravity:	1.069
TDS:	104211
pH:	6.64

Cations:	mg/L	as:
Calcium	2287	(Ca^{++})
Magnesium	452	(Mg^{++})
Sodium	35685	(Na^{+})
Iron	9.66	(Fe^{++})
Barium	0.09	(Ba^{++})
Strontium	40.00	(Sr^{++})
Manganese	0.32	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	708	(HCO_3^{-})
Silica	29.23	(SiO_2)
Sulfate	4000	(SO_4^{-})
Chloride	61000	(Cl^{-})
Gases:		
Carbon Dioxide	20	(CO_2)
Hydrogen Sulfide	306	(H_2S)

Comments:

DownHole SAT(tm)
DEPOSITION POTENTIAL INDICATORS

Texaco
VGWU

Charge Pump

Report Date: 10-11-2000 Sampled: 09-29-2000
Sample #: 8835 at 0000

SATURATION LEVEL		MOMENTARY EXCESS (Lbs/1000 Barrels)	
Calcite (CaCO3)	2.35	Calcite (CaCO3)	0.0769
Aragonite (CaCO3)	1.99	Aragonite (CaCO3)	0.0667
Witherite (BaCO3)	< 0.001	Witherite (BaCO3)	-24.57
Strontianite (SrCO3)	0.0556	Strontianite (SrCO3)	-2.96
Magnesite (MgCO3)	0.542	Magnesite (MgCO3)	-0.0951
Anhydrite (CaSO4)	1.89	Anhydrite (CaSO4)	371.17
Gypsum (CaSO4*2H2O)	2.05	Gypsum (CaSO4*2H2O)	525.05
Barite (BaSO4)	0.854	Barite (BaSO4)	-0.00911
Celestite (SrSO4)	0.369	Celestite (SrSO4)	-47.27
Calcium phosphate	0.00	Calcium phosphate	>-0.001
Hydroxyapatite	0.00	Hydroxyapatite	-396.24
Fluorite (CaF2)	0.00	Fluorite (CaF2)	-6.69
Silica (SiO2)	0.216	Silica (SiO2)	-38.03
Brucite (Mg(OH)2)	< 0.001	Brucite (Mg(OH)2)	-0.633
Magnesium silicate	0.00106	Magnesium silicate	-119.18
Iron hydroxide (Fe(OH)3)	< 0.001	Iron hydroxide (Fe(OH)3)	< 0.001
Strengite (FePO4*2H2O)	0.00	Strengite (FePO4*2H2O)	>-0.001
Siderite (FeCO3)	13.21	Siderite (FeCO3)	0.143
Halite (NaCl)	0.0315	Halite (NaCl)	-155868
Thenardite (Na2SO4)	< 0.001	Thenardite (Na2SO4)	-78656
Iron sulfide (FeS)	256.13	Iron sulfide (FeS)	4.95

SIMPLE INDICES

Langelier	0.737
Ryznar	5.17
Puckorius	3.07
Larson-Skold Index	256.51
Stiff Davis Index	0.151
Oddo-Tomson	-0.255

UNICHEM - Midland Analytical Laboratory
P.O. Box 61427, Midland, Texas 79711

DownHole SAT(tm)
MIXED WATER DEPOSITION POTENTIAL INDICATORS

1) CVU IPD 25% 2) VGWU Chrg Pump 75%

Report Date: 10-11-2000

SATURATION LEVEL		MOMENTARY EXCESS (Lbs/1000 Barrels)	
Calcite (CaCO3)	0.00426	Calcite (CaCO3)	-0.0455
Aragonite (CaCO3)	0.00361	Aragonite (CaCO3)	-0.0538
Witherite (BaCO3)	< 0.001	Witherite (BaCO3)	-23.51
Strontianite (SrCO3)	< 0.001	Strontianite (SrCO3)	-2.80
Magnesite (MgCO3)	0.00105	Magnesite (MgCO3)	-0.156
Anhydrite (CaSO4)	2.21	Anhydrite (CaSO4)	434.27
Gypsum (CaSO4*2H2O)	2.37	Gypsum (CaSO4*2H2O)	583.33
Barite (BaSO4)	1.06	Barite (BaSO4)	0.00355
Celestite (SrSO4)	0.395	Celestite (SrSO4)	-43.64
Calcium phosphate	0.00	Calcium phosphate	>-0.001
Hydroxyapatite	0.00	Hydroxyapatite	-364.21
Fluorite (CaF2)	0.00	Fluorite (CaF2)	-5.76
Silica (SiO2)	0.00	Silica (SiO2)	-44.38
Brucite (Mg(OH)2)	< 0.001	Brucite (Mg(OH)2)	-0.528
Magnesium silicate	0.00	Magnesium silicate	-109.93
Iron hydroxide (Fe(OH)3)	< 0.001	Iron hydroxide (Fe(OH)3)	< 0.001
Strengite (FePO4*2H2O)	0.00	Strengite (FePO4*2H2O)	>-0.001
Siderite (FeCO3)	0.0176	Siderite (FeCO3)	-0.0126
Halite (NaCl)	0.0386	Halite (NaCl)	-139899
Thenardite (Na2SO4)	< 0.001	Thenardite (Na2SO4)	-74299
Iron sulfide (FeS)	66.35	Iron sulfide (FeS)	4.08

SIMPLE INDICES	
Langelier	-14.00
Ryznar	14.00
Puckorius	-4.54
Larson-Skold Index	84174
Stiff Davis Index	-14.00
Oddo-Tomson	-14.00

OPERATING CONDITIONS	
Temperature (°F)	100.00
Time(mins)	3.00

UNICHEM - Midland Analytical Laboratory
P.O. Box 61427, Midland, Texas 79711

DownHole SAT(tm)
MIXED WATER DEPOSITION POTENTIAL INDICATORS

1) NQOBA 25%. 2) VGWU Chrg Pump 75%,

Report Date: 10-11-2000

SATURATION LEVEL		MOMENTARY EXCESS (Lbs/1000 Barrels)	
Calcite (CaCO3)	0.0863	Calcite (CaCO3)	-0.0387
Aragonite (CaCO3)	0.0731	Aragonite (CaCO3)	-0.0463
Witherite (BaCO3)	< 0.001	Witherite (BaCO3)	-23.35
Strontianite (SrCO3)	0.00230	Strontianite (SrCO3)	-2.19
Magnesite (MgCO3)	0.0216	Magnesite (MgCO3)	-0.139
Anhydrite (CaSO4)	1.98	Anhydrite (CaSO4)	333.49
Gypsum (CaSO4*2H2O)	2.13	Gypsum (CaSO4*2H2O)	460.64
Barite (BaSO4)	1.13	Barite (BaSO4)	0.00961
Celestite (SrSO4)	0.435	Celestite (SrSO4)	-47.57
Calcium phosphate	0.00	Calcium phosphate	>-0.001
Hydroxyapatite	0.00	Hydroxyapatite	-367.49
Fluorite (CaF2)	0.00	Fluorite (CaF2)	-5.56
Silica (SiO2)	0.00	Silica (SiO2)	-44.89
Brucite (Mg(OH)2)	< 0.001	Brucite (Mg(OH)2)	-0.506
Magnesium silicate	0.00	Magnesium silicate	-110.68
Iron hydroxide (Fe(OH)3)	< 0.001	Iron hydroxide (Fe(OH)3)	< 0.001
Strengite (FePO4*2H2O)	0.00	Strengite (FePO4*2H2O)	>-0.001
Siderite (FeCO3)	5.32	Siderite (FeCO3)	0.00343
Halite (NaCl)	0.0346	Halite (NaCl)	-142978
Thenardite (Na2SO4)	< 0.001	Thenardite (Na2SO4)	-74076
Iron sulfide (FeS)	1286	Iron sulfide (FeS)	65.15

SIMPLE INDICES	
Langelier	-14.00
Ryznar	14.00
Puckorius	-4.54
Larson-Skold Index	5003
Stiff Davis Index	-14.00
Oddo-Tomson	-14.00

OPERATING CONDITIONS	
Temperature (°F)	100.00
Time(mins)	3.00

UNICHEM - Midland Analytical Laboratory
P.O. Box 61427, Midland, Texas 79711

J7.

TEXACO EXPLORATION & PRODUCTION
VACUUM FIELD T 17 & 18 S, R 34 & 35 E LEA COUNTY, NEW MEXICO

LEGEND

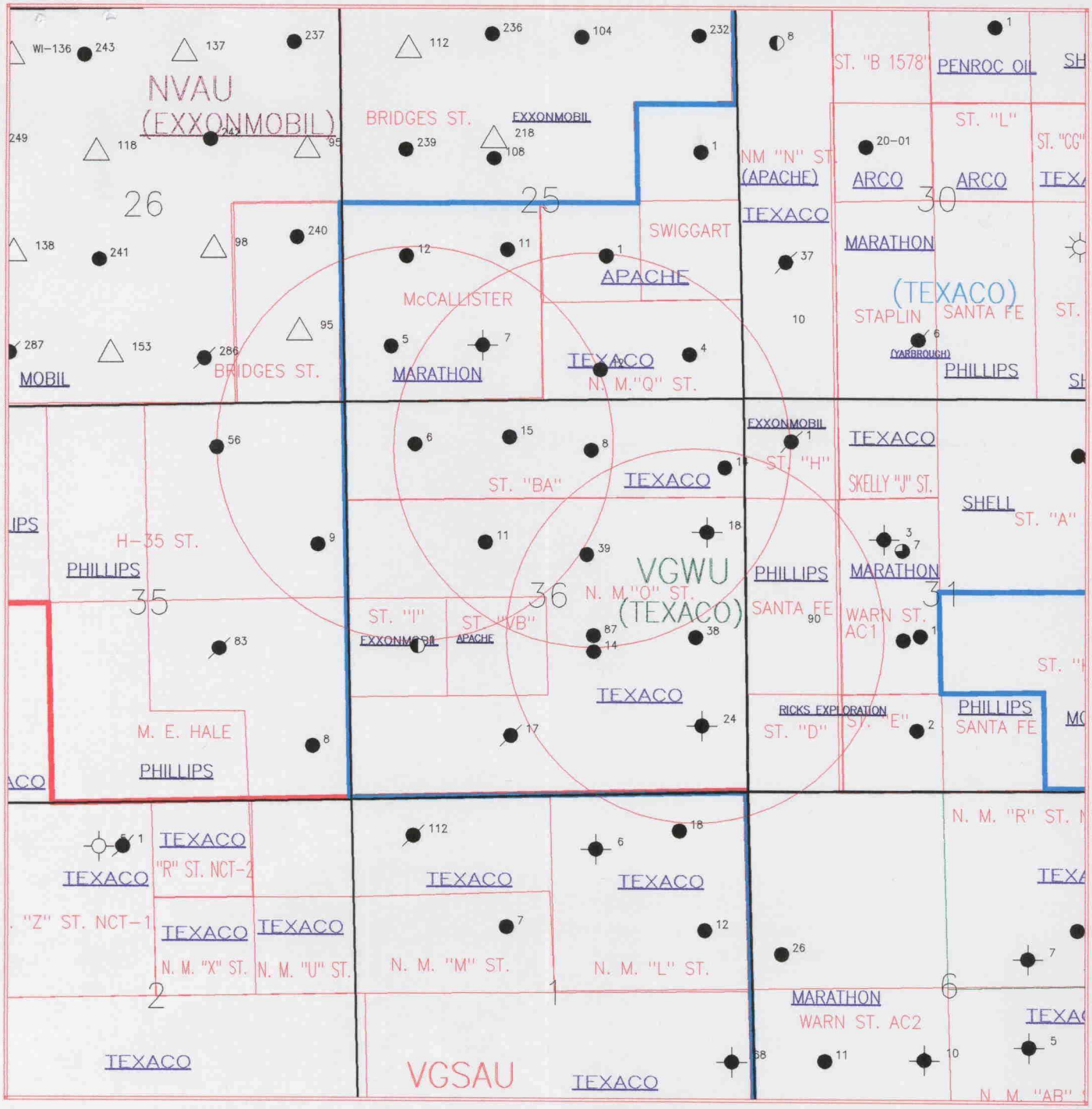
- GAS
- OIL
- INJECTOR
- P & A
- DRY HOLE

N

Scale 1:48000.

1000. 0. 1000. 2000. 3000. 4000. 5000. feet

ATTACHMENT V
TO
FORM C-108



TEXACO EXPLORATION & PRODUCTION		
VACUUM FIELD T 17 & 18 S, R 34 & 35 E LEA COUNTY, NEW MEXICO		

LEGEND

- GAS
- OIL
- INJECTOR
- P & A
- DRY HOLE

N

Scale 1:24000.

1000. 0. 1000. 2000. 3000. 4000. 5000. feet

WELLS IN AREA OF REVIEW

API NUMBER	LEASE	WELL NO.	TD	STATUS	OPERATOR	COMP DATE	TWN	RANGE	SEC	FOOTAGE LOCATION
3002520228	H-35 STATE	9	10094	OIL	PHILLIPS PET.	12/8/63	17S	34E	35	1980 FN / 450 FE
3002520115	MCCALLISTER STATE	7	12125	P&A	MARATHON OIL	6/13/83	17S	34E	25	660 FS / 1780 FW
3002520116	MCCALLISTER STATE	5	12195	OIL	MARATHON OIL	5/1/63	17S	34E	25	660 FS / 560 FW
3002533954	MCCALLISTER STATE	12	11500	OIL	MARATHON OIL	7/22/97	17S	34E	25	1945 FSL / 850 FWL
3002502128	NORTH VACUUM ABO UNIT	95	13816	INJ	EXXONMOBIL	9/3/63	17S	34E	26	660 FS / 660 FE
3002520872	STATE CC UNIT	1	12080	OIL	EXXONMOBIL	8/12/64	17S	34E	36	1980 FS / 660 FW
3002520862	CENTRAL VACUUM UNIT	250	10553	OIL	TEXACO EXPL & PROD	12/18/64	17S	35E	31	510 FN / 535 FW
3002533301	NEW MEXICO L STATE	18	11500	OIL	TEXACO EXPL & PROD	6/2/96	18S	34E	1	810 FNL / 650 FEL
3002520382	NEW MEXICO O STATE NCT-1	11	12155	OIL	TEXACO EXPL & PROD	2/2/72	17S	34E	36	1980 FN / 1780 FW
3002520008	NEW MEXICO O STATE NCT-1	14	12154	OIL	TEXACO EXPL & PROD	7/26/63	17S	34E	36	1874 FS / 2086 FE
3002520125	NEW MEXICO O STATE NCT-1	17	12082	OIL	TEXACO EXPL & PROD	6/5/69	17S	34E	36	760 FS / 2080 FW
3002520274	NEW MEXICO O STATE NCT-1	18	11510	P&A	TEXACO EXPL & PROD	10/9/63	17S	34E	36	1880 FN / 560 FE
3002520946	NEW MEXICO O STATE NCT-1	24	10300	P&A	TEXACO EXPL & PROD	8/1/72	17S	34E	36	860 FS / 660 FE
3002533148	NEW MEXICO O STATE NCT-1	38	11500	OIL	TEXACO EXPL & PROD	1/1/96	17S	34E	36	710 FEL 2085 FSL
3002533569	NEW MEXICO O STATE NCT-1	39	10300	OIL	TEXACO EXPL & PROD	6/16/97	17S	34E	36	2075 FNL / 2110 FEL
3002520294	NEW MEXICO Q STATE	4	12285	OIL	TEXACO EXPL & PROD	12/4/63	17S	34E	25	500 FS / 760 FE
3002533850	NEW MEXICO Q STATE	12	10350	OIL	TEXACO EXPL & PROD	5/15/97	17S	34E	25	400 FSL 1900 FEL
3002520057	STATE BA	6	12110	OIL	TEXACO EXPL & PROD	10/15/72	17S	34E	36	660 FN / 860 FW
3002520986	STATE BA	8	10494	OIL	TEXACO EXPL & PROD	8/14/64	17S	34E	36	766 FN / 2086 FE
3002533570	STATE BA	14	11500	OIL	TEXACO EXPL & PROD	12/31/96	17S	34E	36	990 FNL / 330 FEL
3002520948	TEXACO SHELL STATE COM	1	10200	OIL	APACHE	9/2/71	17S	34E	25	1833 FS / 1845 FE
3002520329	VGWU	56	12413	OIL	TEXACO EXPL & PROD	10/21/65	17S	34E	35	660 FN / 1780 FE
3002521637	VGWU	87	10200	OIL	TEXACO EXPL & PROD	10/17/72	17S	34E	36	2090 FS / 2086 FE
3002520270	VGWU	90	10500	OIL	TEXACO EXPL & PROD	1/30/64	18S	34E	31	2130 FS / 660 FW
3002534945	STATE BA	15	10500	OIL	TEXACO EXPL & PROD	7/17/00	17S	34E	36	612 FN / 2135 FW

Offset Operator Report
State "BA" Well
Lea County, New Mexico
February 16, 2001

T-17-S, R-34-E, NMPM

Section 25: NW/4 SE/4, as to depths from 8,300' to 10,300'

Apache Corporation
2000 Post Oak Blvd., Suite 100
Houston, TX 77056-4400

Section 25: NE/4 SE/4, as to depths from 8,300' to 10,300'

Ricks Exploration II, L.P.
3000 Oklahoma Tower
210 Park Avenue
Oklahoma City, OK 73102

Section 25: SW/4, as to depths from 8,300' to 10,300'

Marathon Oil Company
P. O. Box 552
Midland, TX 79702

Section 26: SE/4, as to depths from 8,300' to 10,300'

Mobil Producing Texas & New Mexico, Inc.
% Exxon Mobil Corporation
P. O. Box 4697
Houston, TX 77210-4697

Section 35: SE/4, as to depths from 8,300' to 10,300'

Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762

Section 35: NE/4, as to depths from 8,300' to 10,300'

Conoco Inc.
10 Desta Dr., Suite 100W
Midland, TX 79705

ATTACHMENT XIII
TO
FORM C-108

T-17-S, R-34-E, NMPM

Section 36: NE/4 SW/4, as to depths from 8,300' to 10,300'

Apache Corporation
2000 Post Oak Blvd., Suite 100
Houston, TX 77056-4400

Section 36: NW/4 SW/4, as to depths from 8,300' to 10,300'

Mobil Producing Texas & New Mexico, Inc.
% Exxon Mobil Corporation
P. O. Box 4697
Houston, TX 77210-4697

T-17-S, R-35-E, NMPM

Section 31: Lot 1 (NW/4 NW/4), as to depths from 8,300' to 10,300'

Mobil Producing Texas & New Mexico, Inc.
% Exxon Mobil Corporation
P. O. Box 4697
Houston, TX 77210-4697

Section 31: Lot 2 (SW/4 NW/4), as to depths from 8,300' to 10,300'

Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762

Section 31: Lot 3 (NW/4 SW/4), as to depths from 8,300' to 10,300'

Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762

Section 31: Lot 4 (SW/4 SW/4), as to depths from 8,300' to 10,300'

Ricks Exploration II, L.P.
3000 Oklahoma Tower
210 Park Avenue
Oklahoma City, OK 73102

T-18-S, R-35-E, NMPM

Section 6: NW/4, as to depths from 8,300' to 10,300'

Marathon Oil Company
P. O. Box 552
Midland, TX 79702

COMMENTS

The above ownership is based on Takeoffs prepared by J. David Williams dated 3/24/00.

The records of Caprock Title Company are posted through January 22, 2001.