

Case 5301

JUSTIS McKEE UNIT
SOURCE WATER DATA

Martin Water Laboratories

BOX 1468 MONAHANS, TEXAS W13-3234

COMPANY Tidewater Oil Company LEASE A. B. Coates "C"

FIELD OR POOL Justis

SECTION 24 BLOCK T25S SURVEY R37E COUNTY Lea STATE N. M.

SOURCE OF SAMPLE AND DATE TAKEN: Loc: 2700' FSL, 1370' FWL

NO. 1 Raw water - taken from A. B. Coates "C" water well.

9-5/8" Casing set at 806' with 425 sx. 2-18-65

5-Hr. Test with shaft driven pump: 3430 BWP, Static FL 213'

REMARKS: Rustler zone 888⁺-901⁺

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60 degs. F	1.0053			
pH When Sampled				
pH When Received	7.5			
Total Alkalinity as CaCO ₃	204			
Supersaturation as CaCO ₃	4			
Undersaturation as CaCO ₃	-			
Total Hardness as CaCO ₃	1,890			
Calcium as CaCO ₃	1,236			
Magnesium as CaCO ₃	654			
Sodium and/or Potassium				
Sulfate as SO ₄	1,927			
Chloride as NaCl	466			
Iron as Fe	3.4			
Manganese as Mn				
Barium as Ba	0.0			
Turbidity Electric	15.9			
Color as Pt	4.5			
Dissolved Solids at 100 deg. C				
Total Solids at 100 deg. C				
Total Solids, Calculated				
Temperature Degs. F.				
Carbon Dioxide, Calculated	13			
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0			
Resistivity OHM/CC at 69 Degs. F.	270			
Total Suspended Solids				

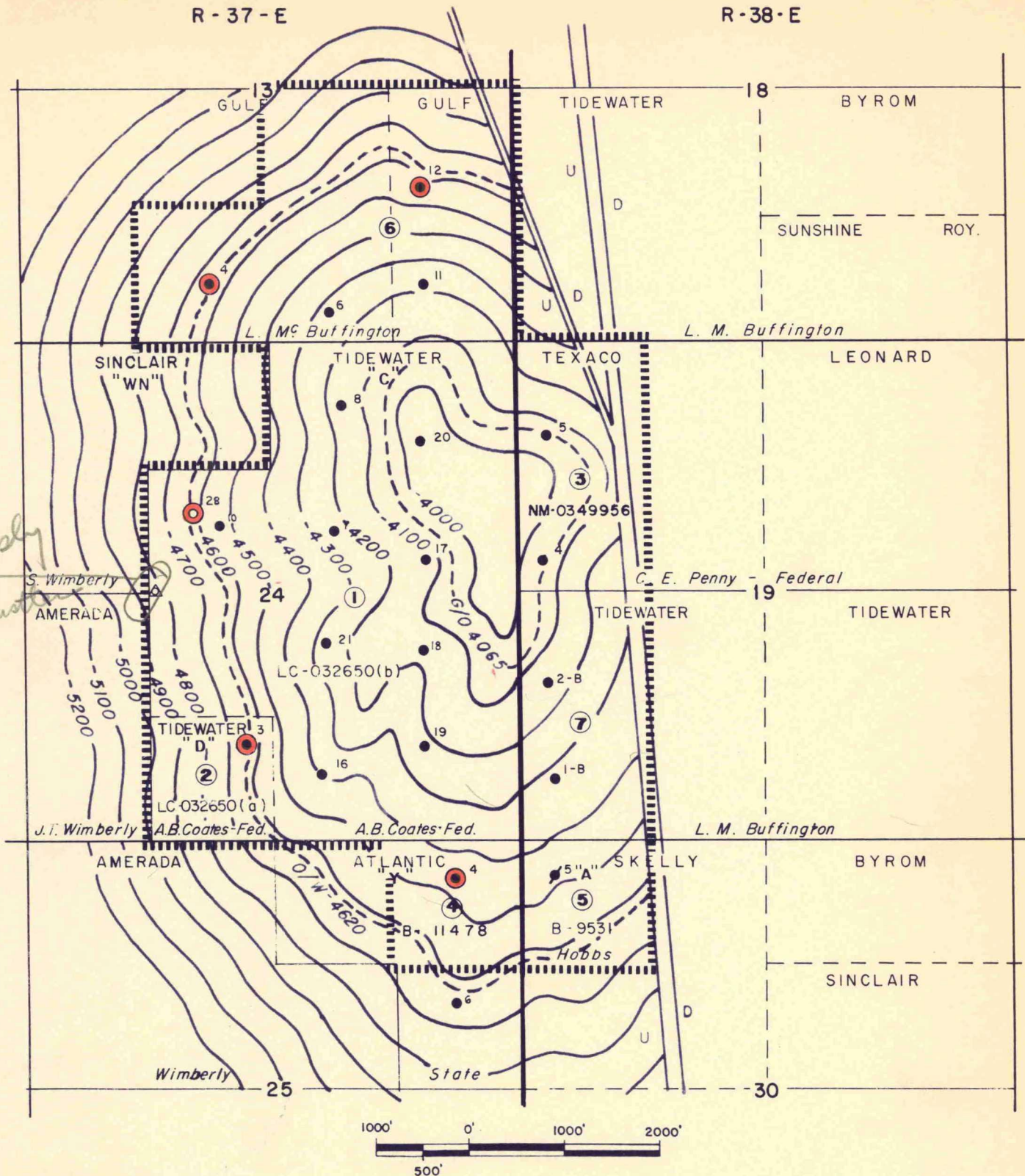
All Results Reported As Parts Per Million

Additional Observations And Remarks

Water Source Requirements: 2 Yrs. @5160 BWP for 3,800,000 BW
5 Yrs. @1650 BWP for 3,000,000 BW
1 Yr. @ 550 BWP for 200,000 BW
Total 7,000,000 BW

Injection Well Pressures: Range 350-1300 psi
Average 825 psi

Ex #6



LEGEND

- ② TRACT NUMBER
- UNIT WELL
 - PROPOSED INJECTION WELL
 - PROPOSED CONVERSION TO INJECTION WELL
 - △ WATER SOURCE WELL

UNIT AREA

BEFORE EXAMINER UT JUSTIS Mc KEE POOL
OIL CONSERVATION COMMISSION JUSTIS Mc KEE UNIT
apts EXHIBIT NO. 2
CASE NO. 3301 LEA COUNTY, NEW MEXICO

JUSTIS McKEE UNIT
SOURCE WATER DATA

Martin Water Laboratories

BOX 1468

MONAHANS, TEXAS

W13-3234

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION

ap's EXHIBIT NO. 6

CASE NO. 3301

COMPANY Tidewater Oil Company LEASE A. B. Coates "C"

FIELD OR POOL Justis

SECTION 24 BLOCK T258 SURVEY R372 COUNTY Lea STATE N. M.

SOURCE OF SAMPLE AND DATE TAKEN: Loc: 2700' FSL, 1370' FWL

NO. 1 Raw water - taken from A. B. Coates "C" water well.

9-5/8" Casing set at 806' with 425 sx. 2-18-65

5-Hr. Test with shaft driven pump: 3430 BWPD, Static FL 213'

REMARKS: Rustler zone 888'-901'

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60 deg. F	1.0013			
pH When Sampled				
pH When Received	7.5			
Total Alkalinity as CaCO ₃	204			
Carbonate Alkalinity as CaCO ₃	4			
Noncarbonate Alkalinity as CaCO ₃	-			
Total Hardness as CaCO ₃	1,890			
Calcium as CaCO ₃	1,236			
Magnesium as CaCO ₃	654			
Sulfate and/or Sulfuric Acid				
Sulfate as SO ₄	1,927			
Chloride as NaCl	466			
Iron as Fe	3.4			
Manganese as Mn				
Copper as Cu	0.0			
Oil Soluble Solids	15.9			
Color as Pt	4.5			
Dissolved Solids at 180 deg. C				
Total Solids at 180 deg. C				
Total Solids, Calculated				
Temperature Deg. F.				
Carbon Dioxide, Calculated	13			
Dissolved Oxygen, Winter				
Hydrogen Sulfide	0.0			
Residual Chlorine/O ₂ at 60 deg. F.	270			
Total Suspended Solids				

All Results Reported As Parts Per Million

Additional Observations And Remarks

Water Source Requirements: 2 Yrs. @ 5160 BWPD for 3,800,000 BW

5 Yrs. @ 1650 BWPD for 3,000,000 BW

1 Yr. @ 550 BWPD for 200,000 BW

Total 7,000,000 BW

Injection Well Pressures: Range 350-1300 psi

Average 825 psi

JUSTIS MCKEE UNIT
TABLE OF PROPOSED INJECTION WELLS
IN T25S-R37E

Operator-Lease-Well (Location)	Type	Casing Size	Depth	Cement Amount	Top	T.D. (P.W.D.)	Present Zone (Perf. Interval)	Proposed McKee Inf. Interval
PROPOSED CONVERSIONS:								
Gulf-McBuffington No. 12 (1650 FSL, 990 FFL Sec. 13) Elev. 3088'	Surf. Inter. Prod'n	13-3/8" 9-5/8" 7"	429' 3450' 7230'	450 Sx 1150 Sx 590 Sx	Surf. Surf. 3500'	8620' (5644') (5227-5545')	Blinebry-Prod. (5227-5545')	7681-7815' (Liner)
Gulf-McBuffington No. 4 (1980 FWL, 660 FSL Sec. 13) Elev. 3091'	Surf. Inter. Prod'n	13-3/8" 9-5/8" 7"	410' 3449' 6730'	500 Sx 2200 Sx 1250 Sx	Surf. Surf. 3610'	8264' (5841') (5458-5549')	Blinebry-Prod. (5458-5549')	7768-7871'
Tidewater-Coates "D" No. 3 (990 FSL, 2310 FWL Sec. 24) Elev. 3085	Surf. Inter. Prod'n	13-3/8" 9-5/8" 7"	531' 3309' 8243'	550 Sx 650 Sx 950 Sx	Surf. Surf. 5100'	8260' (7680') (5300-5430')	Blinebry-Prod. (5300-5430')	7712-7847'
Atlantic-C te "Y" No. 4 (430 FNL, 630 FFL Sec. 25) Elev. 3073'	Surf. Inter. Prod'n	13-3/8" 9-5/8" 7"	605' 3350' 8164'	500 Sx 1400 Sx 976 Sx	Surf. Surf. 2115'	8165' (8054') (7576-7668')	McKee-S.I. (7576-7668')	7567-7700'
PROPOSED NEW WELL:								
Tidewater-Coates "C" No. 28 1820 FNL, 1820 FSL Sec. 24) Elev. 3090'	Surf. Inter. Prod'n	10-3/4" 8-5/8" 5"	550' 3450' 7900'	450 Sx 1200 Sx 1000 Sx	Surf. Surf. 5000'	7900' (-) -	-	7710-7837'

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 7

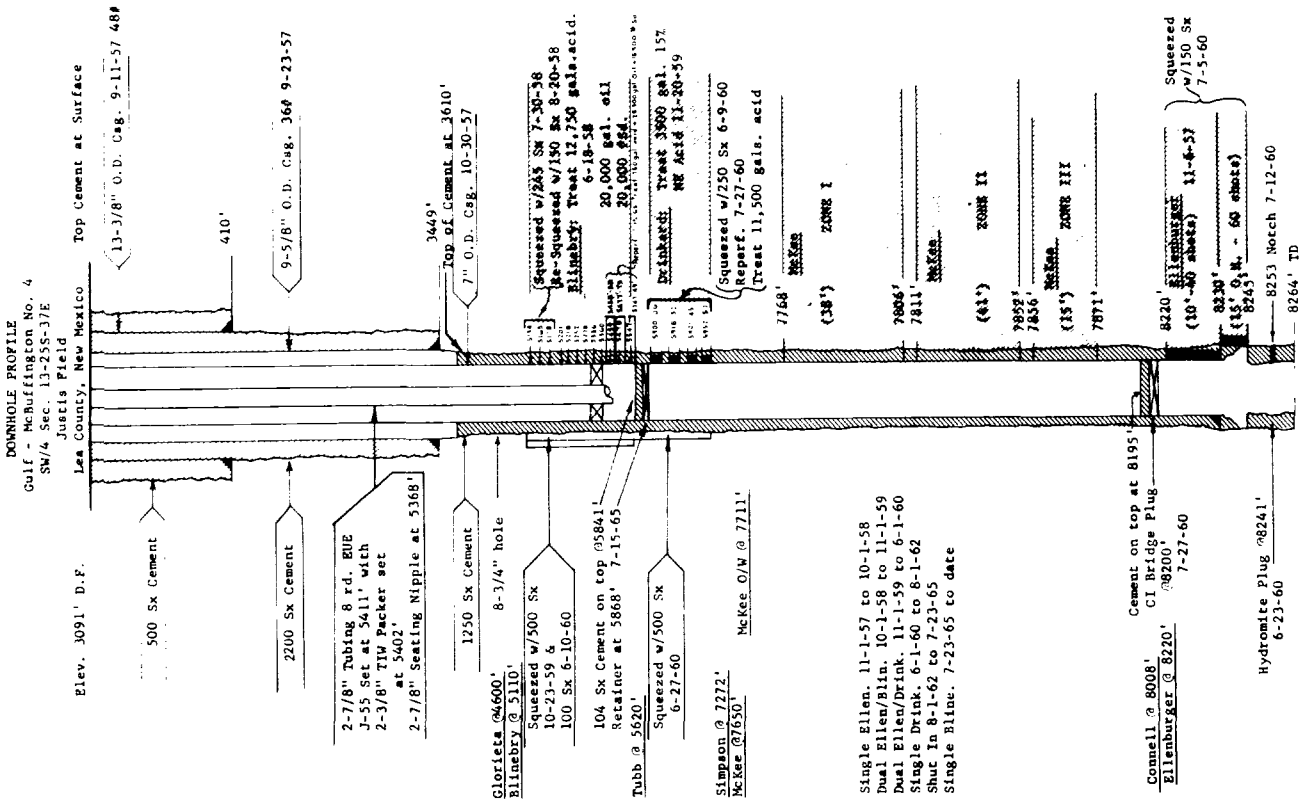
CASE NO. 2301

PRESENT STATUS

BLINEBRY - PRODUCER

WATERFLOOD STATUS

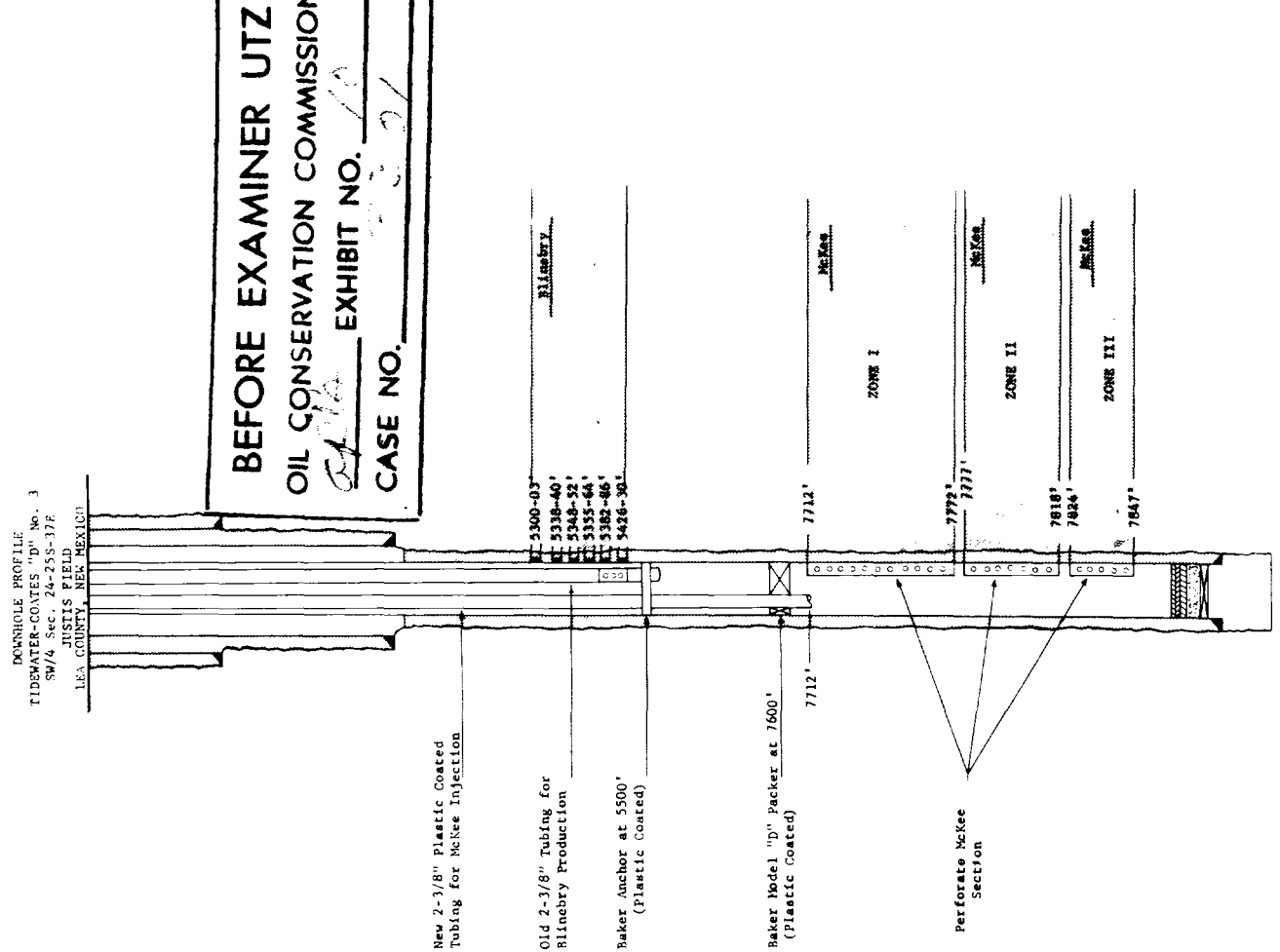
McKEE - INJECTOR
BLINEBRY - PRODUCER



BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 7
CASE NO. 1

WATERFLOOD STATUS

McKEE-INJECTOR
BLINEBRY - PRODUCER



PRESENT STATUS

McKEE - SHUT IN

DOWNHOLE PROFILE
ATLANTIC STATE "W" No. 4
NE/4 Sec. 25-25S-37E
JUSTIS FIELD
LEA COUNTY, NEW MEXICO

Elev. 3073' D.P.

450 Sx + 2% CaCl
50 Sx Incor + 2% CaCl

1200 Sx 50-50 Pozmix + 6%
Gel + 1/4# Floccle/Sx
200 Sx Lone Star Reg.

Glorieta @4680'

177 Sx Incor + 1/4# Floccle/Sx
399 cu.ft. Diacel D + 2%
CaCl. 436 Sx Lone Star Reg. +
1/4# Floccle + 25# Gilaonite

Rinebry #5025'

Drinkard #5916'

Montoya #6838'

Simpson #7130'

McKee #7567'

Treated all McKee peris
3-22-62
11,000 gals. Gel Lee Crude
+ 1/40# Gal. Mark II Adomite
3000# 20-40 Sd.
10,000# 10-20 Sd.
2000 gals. Gel Lee Crude +
Slick Oil
Began pumping 3-26-62

30' of Cement on Plug
8054' to 8084'
Ellenburger #8091'

Baker 415-D Pkr.
w/DK Plug @8090'
3-21-62

Top Cement at Surface

13-3/8" O.D. 538', 21 Jts.

605'

9-5/8" O.D. 3336', 108 Jts.

Top of Cement at 2115'

3150'

7" O.D. 8152', 225 Jts.

2-1/2" Cs Hydril Tubing
w/Sealing Nipple, with
X 2-1/4 X 16 X 22 Pump
w/2-1/2 holddown and Rods
Set at 7551'

Pump Stuck after recovering
1144 bbls. Load Oil of 1355
bbl. Total (85%) Following
3-26-62 Sandfrac

7567'

7576-78'

McKee

ZONE I

Perf. 3-23-62

7567'

7576-78'

McKee

ZONE II

Perf. 10-13-59, 9000 gals.
Crude, 100 BW 7000# sd. Res. SW
Δ 182880 + 221 BW to 11-23-59
Pump 12-1-59, Res. 39990 to 12-5-59

7567'

7576-78'

McKee

ZONE III

7700'

8120'

8160'

8165' TD

Casing at 8164'

WATERFLOOD STATUS

McKEE - INJECTOR

DOWNHOLE PROFILE
ATLANTIC STATE "W" No. 4
NE/4 Sec. 25-25S-37E
JUSTIS FIELD
LEA COUNTY, NEW MEXICO

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO.

New 2-3/8" Plastic Coated
Tubing for McKee Injection

Baker Model "D" Packer @7530'
(Plastic Coated)

Perforate Additional McKee
Section

7567'

7576-78'

McKee

ZONE I

7567'

7576-78'

McKee

ZONE II

7468'

7477'

7486'

7495'

7504'

7513'

7522'

7531'

7540'

7549'

7558'

7567'

7576-78'

7585'

7594'

7603'

7612'

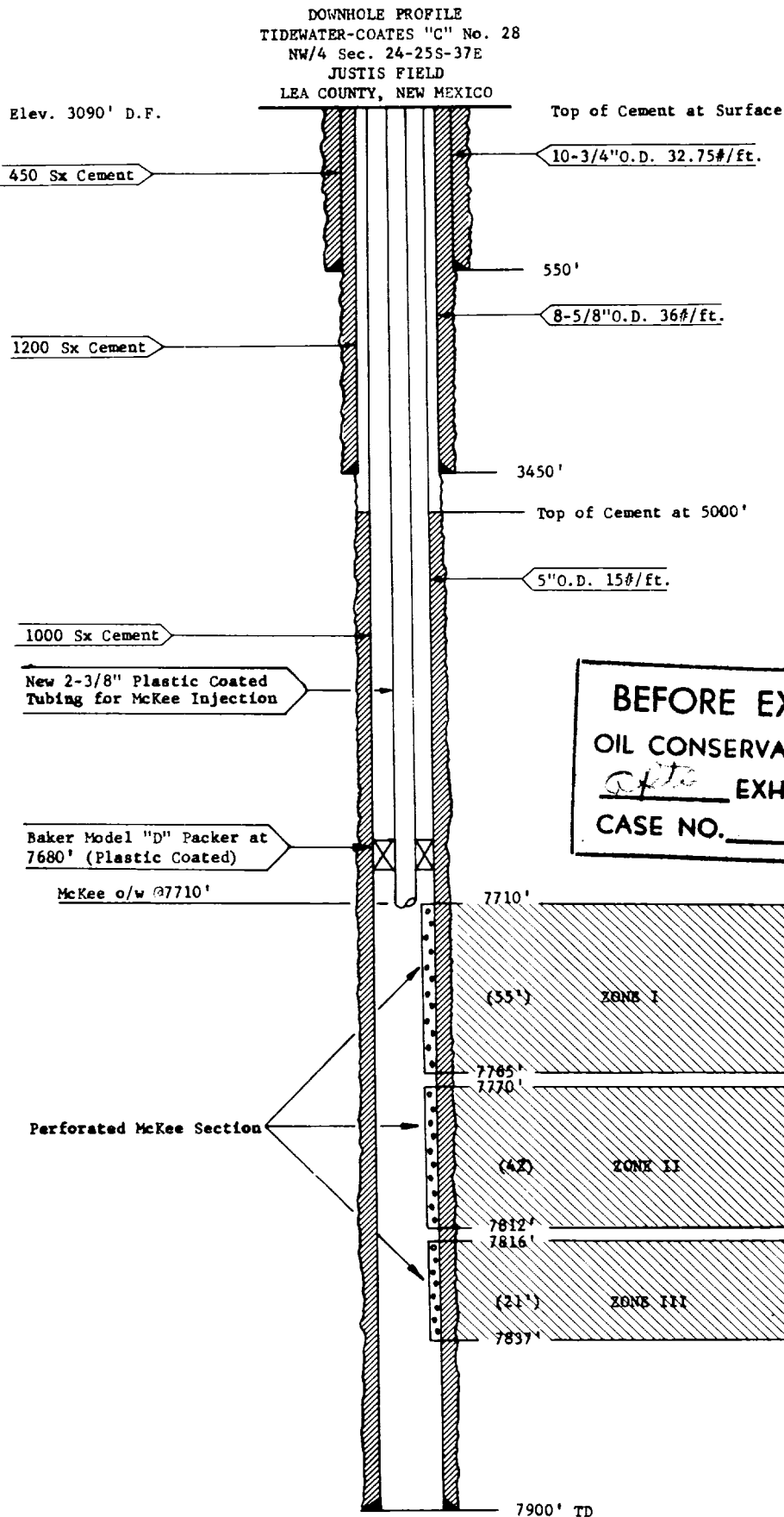
7621'

7630'

7639'

WATERFLOOD STATUS

McKEE - INJECTOR
(NEW WELL)



BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Exhib EXHIBIT NO. *12*
CASE NO. *1330*

BLINEBRY-PRODUCER

Connell @8010'
Joins @8132'
Ellenburger @8353'

McKEE - INJECTOR
BLINEBRY - PRODUCER

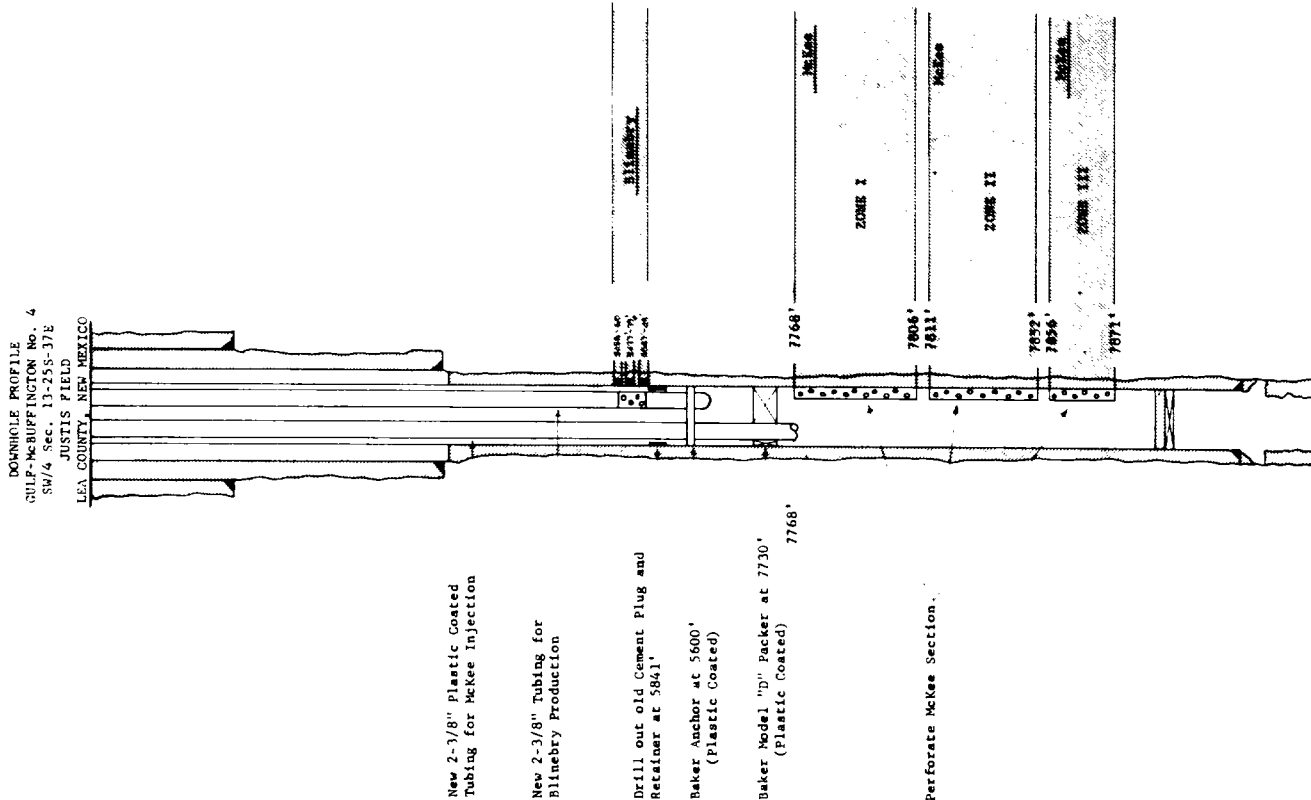
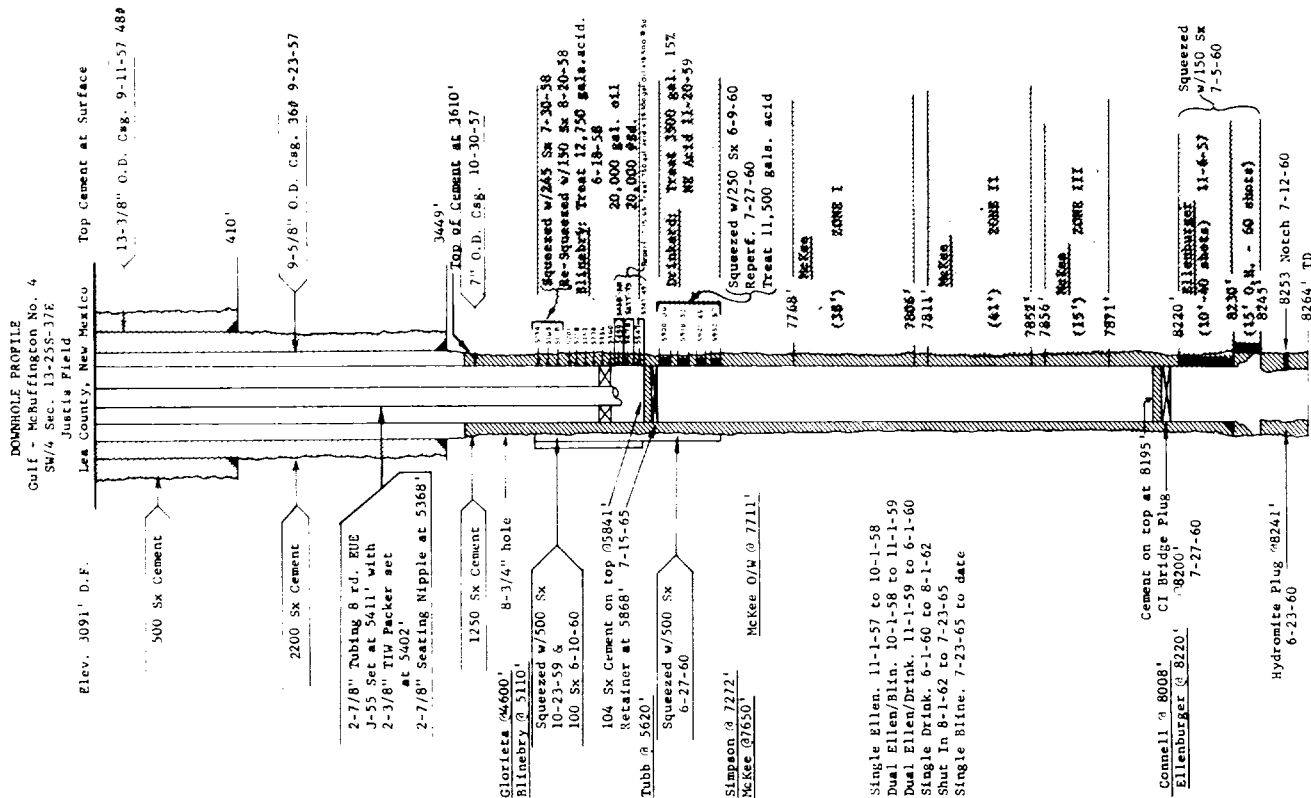
Liner Bottom @7900'

PRESENT STATUS

BLINEBRY - PRODUCER

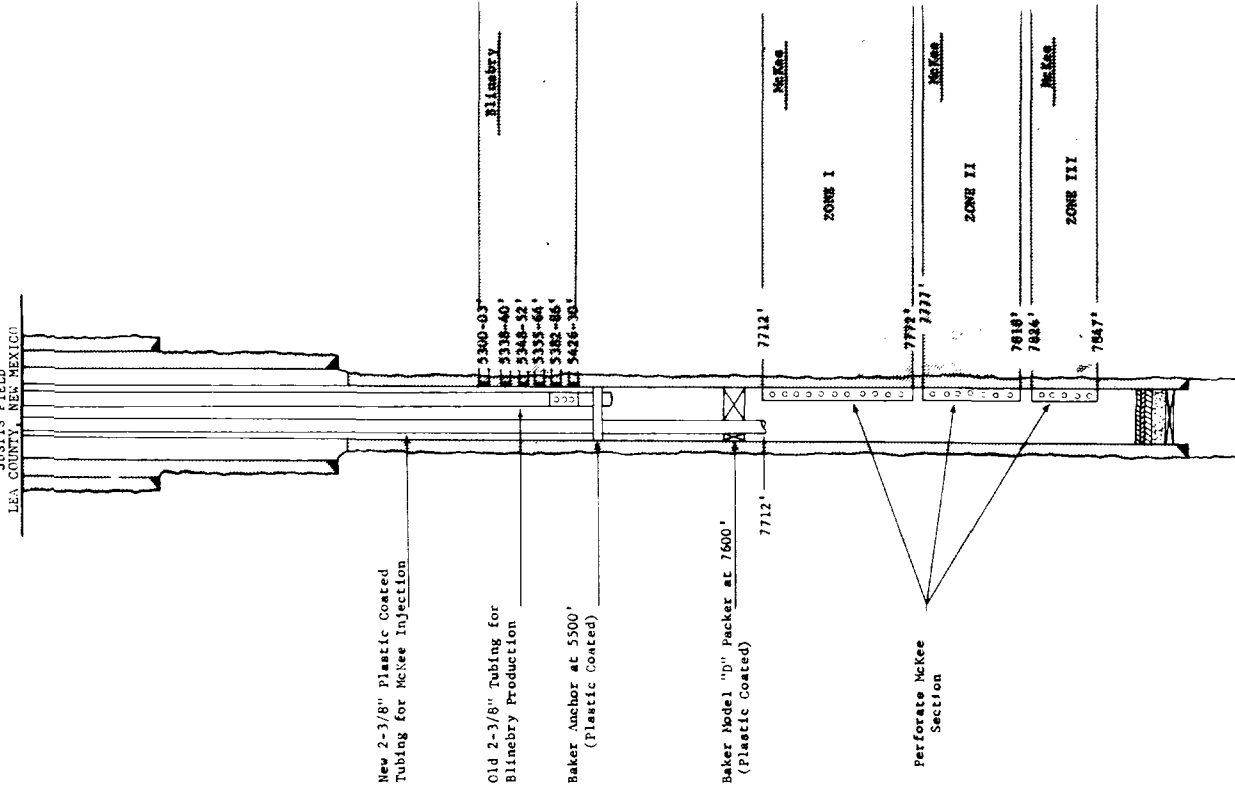
WATERFLOOD STATUS

McKEE - INJECTOR
BLINEBRY - PRODUCER



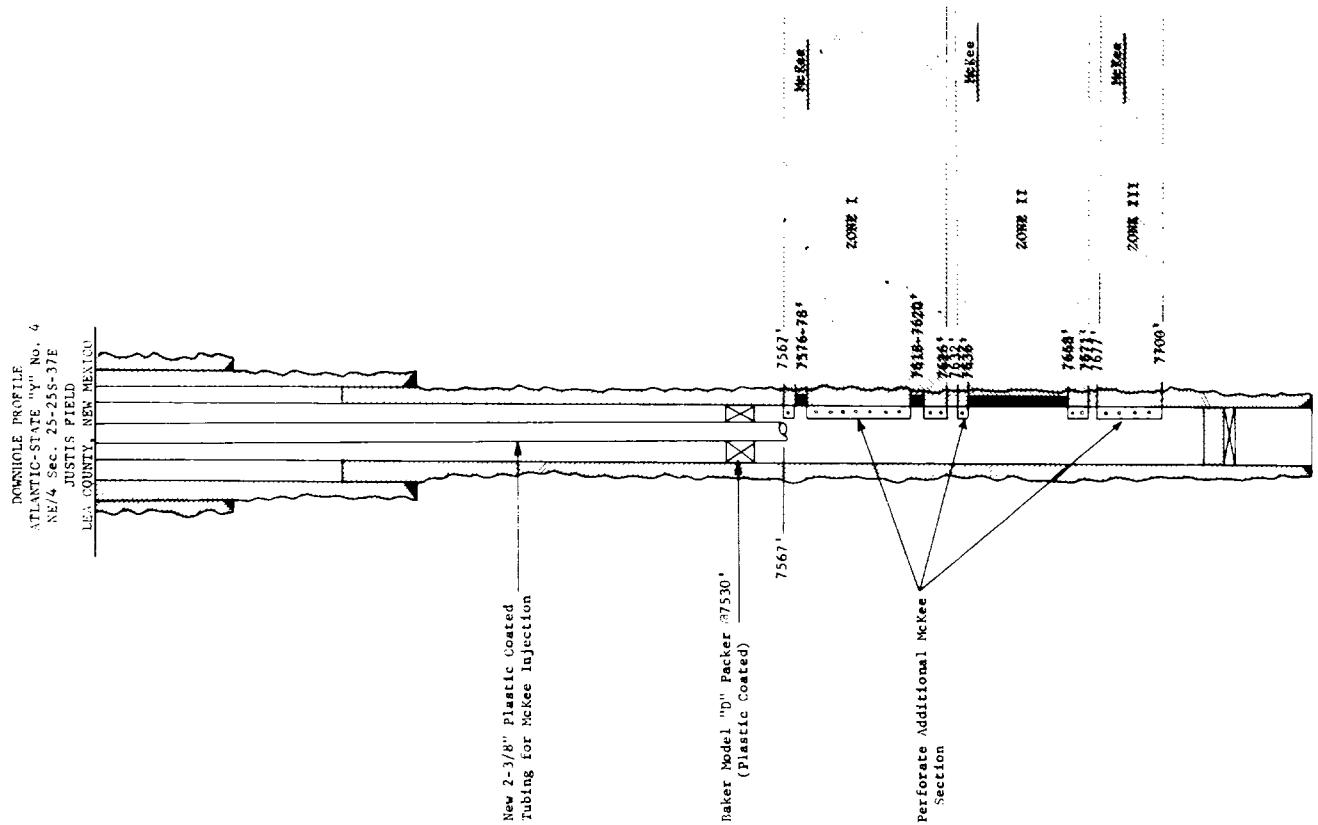
WATERFLOOD STATUS
McKEE-INJECTOR
BLINEBRY - PRODUCER

DOWNHOLE PROFILE
TIDEWATER-COATES "D" No. 3
SW/4 Sec. 24-25S-37E
JUSTIS FIELD
LEA COUNTY, NEW MEXICO



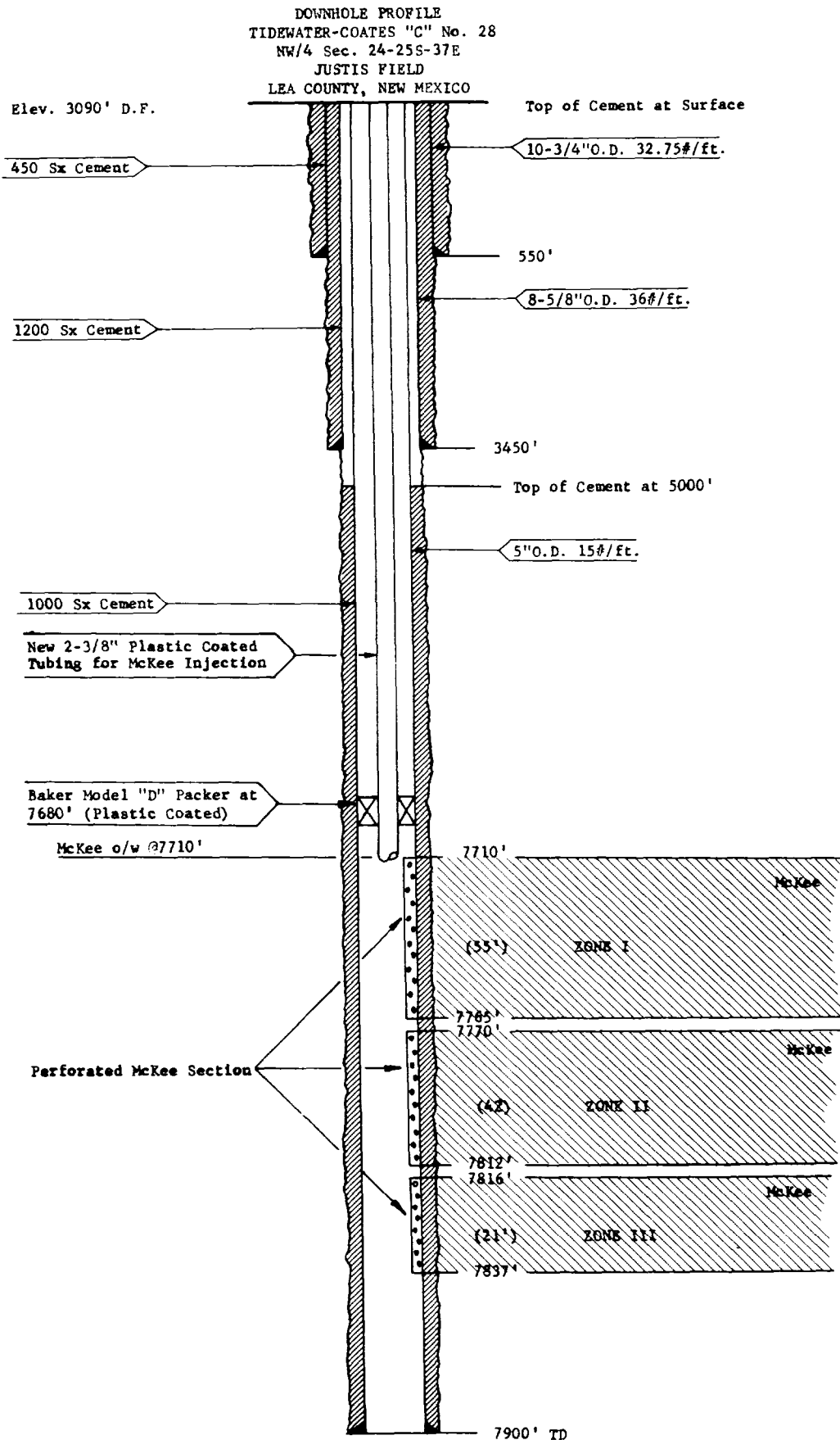
WATERFLOOD STATUS

McKEE - INJECTOR



WATERFLOOD STATUS

McKEE - INJECTOR
(NEW WELL)



JUSTIS McKEE UNIT
TABLE OF PROPOSED INJECTION WELLS
IN T25S-R37E

Operator-Lease-Well (Location)	Casing		Depth	Cement		T.D. (PRTD)	Present Zone (Perf. Interval)	Proposed McKee Inj. Interval
	Type	Size		Amount	Top			
Gulf-McBuffington No. 12 (1650 FSL, 990 FSL Sec. 13) Elev. 3088'	Surf.	13-3/8"	429'	450 Sx	Surf.	8620'	Blincbry-Prod.	7681-7815'
	Inter.	9-5/8"	3450'	1150 Sx	Surf.	(5644')	(5227-5545')	(Liner)
	Prod'n	7"	7230'	590 Sx	3500'			
Gulf-McBuffington No. 4 (1980 FSL, 660 FSL Sec. 13) Elev. 3091'	Surf.	13-3/8"	410'	500 Sx	Surf.	8264'	Blincbry-Prod.	7768-7871'
	Inter.	9-5/8"	3449'	2200 Sx	Surf.	(5841')	(5458-5549')	
	Prod'n	7"	8230'	1250 Sx	3610'			
Tidewater-Coates "D" No. 3 (990 FSL, 2310 FSL Sec. 24) Elev. 3085	Surf.	13-3/8"	539'	550 Sx	Surf.	8260'	Blincbry-Prod.	7712-7847'
	Inter.	9-5/8"	3309'	650 Sx	Surf.	(7880')	(5300-5430')	
	Prod'n	7"	8243'	950 Sx	5100'			
Atlantic-State "Y" No. 4 (430 FSL, 660 FSL Sec. 25) Elev. 3073'	Surf.	13-3/8"	605'	500 Sx	Surf.	8165'	McKee-S.I.	7567-7700'
	Inter.	9-5/8"	3350'	1400 Sx	Surf.	(8054')	(7576-7668')	
	Prod'n	7"	8164'	976 Sx	2115'			
Tidewater-Coates "C" No. 28 (1820 FSL, 1820 FSL Sec. 24) Elev. 3090'	Surf.	10-3/4"	550'	450 Sx	Surf.	7900'	-	7710-7837'
	Inter.	8-5/8"	3450'	1200 Sx	Surf.	(-)	-	
	Prod'n	5"	7900'	1000 Sx	5000'			

PROPOSED NEW WELL:

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STATE _____ NEW MEXICO _____ ELEV. 3075 GL
COUNTY _____ LEA _____
COMPANY _____ TIDEWATER OIL COMPANY _____
FARM _____ COATES "C" WATER _____ WELL NO. 1
LOCATION _____ 2700' FSL & 50' FW LEASE _____
LINE _____ SEC. 24, T-25-S, R-37-E _____
D. _____ 901' _____ TOOLS _____ CABLE TOOLS _____
Drilling Measured from 2'
Above Ground Level

MFS

