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*NOT LICENSED IN NEW MEXICO

August 10, 1993

PJS
1082
1083

Florene Davidson
Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87503

Dear Florene:

Please find enclosed for filing the original and two copies of the Application of Cross Timbers Operating Company for Institution of a Waterflood Project, Lea County, New Mexico.

Very truly yours,

HINKLE, COX, EATON, COFFIELD
& HENSLEY

Fran Sowers
Fran Sowers, Secretary
to James Bruce

Enclosures

VIA HAND DELIVERY

FRS5\93E52.c

Proposed Advertisement

10822

Application of Cross Timbers Operating Company for a waterflood project, Lea County, New Mexico. Applicant seeks authority to convert its State "BY" Well No. 6, located 2,130 feet from the South line and 430 feet from the East line (Unit I) of Section 32, Township 17 South, Range 33 East, and utilize said well for secondary recovery purposes for the applicant's State "BY" Lease by injecting produced and fresh water through the perforated interval from approximately 4,602 to 4,708 feet. The applicant requests that the Division establish procedures for the administrative approval of additional injection wells on said lease without the necessity of further hearings, and the adoption of any other provisions necessary for such other matters as may be appropriate for said waterflood operations. Said well is located approximately _____

_____.

11/1993

NEW MEXICO DIVISION
OF MINES

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

APPLICATION OF CROSS TIMBERS
OPERATING COMPANY FOR INSTITUTION
OF A WATERFLOOD PROJECT, LEA COUNTY,
NEW MEXICO.

No. 10822

APPLICATION

Cross Timbers Operating Company hereby applies for an order approving the institution of a waterflood project for secondary recovery of hydrocarbons from its State "BY" Lease, Lea County, New Mexico, and in support thereof, states:

1. Applicant is the operator of the State "BY" Well No. 6, located 2,310 feet from the South line and 430 feet from the East line (Unit I) of Section 32, Township 17 South, Range 33 East, N.M.P.M.

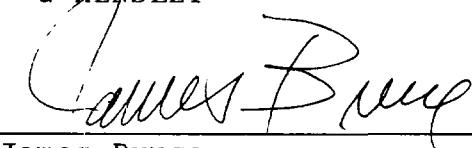
2. Applicant proposes to convert said well and inject produced and fresh water into the Grayburg formation at depths of 4,602-4,708 feet subsurface, as set forth in the Form C-108 attached hereto.

3. The injection well will be used for secondary recovery of hydrocarbons from the Grayburg formation underlying Applicant's State "BY" Lease (State of New Mexico Lease E-398-8), which covers the NW $\frac{1}{4}$ and SE $\frac{1}{4}$ of said Section 32.

4. Applicant requests that the Order entered in this case contain an administrative procedure for approval of additional injection wells and expansion of the waterflood project, and such other matters as may be appropriate for waterflood operations.

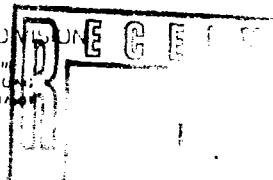
WHEREFORE, Applicant requests that, after due notice and hearing, the relief requested above be granted.

HINKLE, COX, EATON, COFFIELD
& HENSLEY


James Bruce
Post Office Box 2068
Santa Fe, New Mexico 87504-2068
(505) 982-4554

Attorneys for Applicant

APPLICATION FOR AUTHORIZATION TO INJECT



Case 10822

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

II. Operator: Cross Timbers Operating Company

Address: P. O. Box 50847, Midland, Texas 79710

Contact party: Gary L. Markestad Phone: (915)682-8873

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: Gary L. Markestad Title Operations Engineer

Signature: Gary L. Markestad Date: 11/25/92

* 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.

AFFIDAVIT OF PUBLICATION

REC'D. / MIDLAND

State of New Mexico,
County of Lea.

NOV 24 1992

I, Kathi Bearden,

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of _____

one _____ weeks.

Beginning with the issue dated

Nov. 17, 1992
and ending with the issue dated

Nov. 17, 1992

Kathi Bearden
General Manager
Sworn and subscribed to before
me this 20th day of

November, 1992

Dec 1992 Dec 1st 93
Notary Public.

My Commission expires _____

July 6, 1994
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

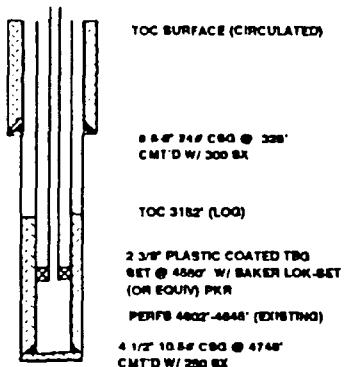
LEGAL NOTICE
November 17, 1992
Cross-Numbers: Operating
Company: P.O. Box 50847,
Midland, Texas, 79701, (915)
682-8873; is hereby giving
notice of our intent to inject
produced water and/or brine
well into the Grayburg-BY
Well No. 6 located 2310
FSL & 430' FEL of Section
32, T-17-S, R-33-E for sec-
ondary recovery purposes.
Water is to be injected into
the Grayburg formation from
4,602' to 4,708' at an ex-
pected rate of 200-BWPD
and 1400 psig pressure. In-
terested persons objecting
to this application must file
a request for hearing with
the Oil Conservation Division,
P.O. Box 2088, Santa
Fe, New Mexico 87501, with
in 15 days of this notice.

INJECTION WELL DATA SHEET

CROSS TIMBERS OPERATING COMPANY STATE BY

OPERATOR	LEASE
6	SEC 32, T17S, R33E
WELL NO.	SEC/TWP/RGE

SCHMATIC



TABULAR DATA

SURFACE CASING		
SIZE	8 5/8"	CEMENTED WITH 300 SX
TOC	SURFACE	DETERMINED BY CIRCULATION
HOLE SIZE	11"	
INTERMEDIATE CASING		CEMENTED WITH
SIZE		DETERMINED BY
TOC		
HOLE SIZE		
LONG STRING 4 1/2"		CEMENTED WITH 250 SX
TOC	3152'	DETERMINED BY LOG
HOLE SIZE	7 7/8"	
TOTAL DEPTH 4748'		
INJECTION INTERVAL		
4602 FEET TO 4708 FEET		

TUBING SIZE 2 3/8" LINED WITH PLASTIC SET IN A
BAKER LOK-SET (OR EQUIV.) PACKER AT 4550'.

OTHER DATA

1. NAME OF INJECTION FORMATION GRAYBURG
2. NAME OF FIELD OR POOL MALJAMAR (G-SA)
3. IS THIS A NEW WELL DRILLED FOR INJECTION ? NO
IF NO, FOR WHAT PURPOSE WAS THIS WELL ORIGINALLY DRILLED ? PRODUCTION
4. HAS THE WELL EVER BEEN PERFORATED IN ANY OTHER ZONE(S) ? LIST ALL SUCH PERFORATED INTERVALS AND GIVE PLUGGING DETAIL (SACKS OF CEMENT OR BRIDGE PLUG(S) USED NO.
5. GIVE THE DEPTH TO AND NAME OF ANY OVERLYING AND/OR UNDERLYING OIL OR GAS ZONES (POOLS) IN THIS AREA.
CORBIN (ABO) 8650', CORBIN (QUEEN) 3700'.

ATTACHMENT

ITEM VII
OPERATION DATA

- 1) Proposed average daily rate - 200 BWPD.
Proposed maximum daily rate - 400 BWPD @ 1400 psig.
- 2) Closed system.
- 3) Expected average injection pressure - 1000 psig.
Maximum injection pressure - 1500 psig.
- 4) Injection water is primarily produced water from the Cross Timbers State "BY" Lease and the Cross Timbers SMGSAU with some fresh water to augment the injection volume. The fresh water is being supplied to the SMGSAU by Conoco, Inc. and is used extensively in this area for secondary recovery purposes.
- 5) Injection is not for disposal purposes.

ITEM VIII
GEOLOGICAL DATA

Formation Name: Grayburg
Lithology: Sandstone
Thickness: 508' gross, 50' net
Depth: 4,205'

Sources of Drinking Water: None
Listed in State Engineer's Report

ITEM IX

- 1) Additional stimulation is not planned at this time.

ITEM X

Open hole logs not available.

ATTACHMENT
(cont'd)

ITEM XI
CHEMICAL ANALYSIS OF FRESH WATER

No fresh water wells within 1 mile of proposed injection well.

ITEM XII

All available data indicates that the injection interval is not in hydraulic communication with any sources of fresh water in this area.

OPERATOR	CITIES SERVICE(ORIG CARPER DRILL CO)		CITIES SERVICE	BARNEY COCKBURN
WELL NAME	:OHIO STATE "A" #6(OHIO-STATE #6)		STATE CB #2	WYATT-PHILLIPS #2
LOCATION	:2310' PNL & 330' PEL SEC 32, T17S, R33E		2310' PNL & 1700' PEL SEC 32, T17S, R33E	1980' PNL & 460' PEL SEC 33, T17S, R33E
WELL TYPE	OIL	:PLUGGED	OIL	DRY HOLE
STATUS	SURFACE CASING :9-5/8" @ 1,368' W/50 SX.		PLUGGED 11/18/83. 13-3/8" @ 331' W/250 SX.	PLUGGED 8-5/8" @ 1,430' W/50 SX.
TOP OF CEMENT	:1240'.		SURFACE 8 5/8" @ 2897' W/ 500 SX.	
INTERMEDIATE CASING	:		1260'.	10-3/4" 34# @ 856'.
TOP OF CEMENT	:		1260'.	
PRODUCTION CASING	:7" @ 3,735' W/100 SX.		4-1/2" @ 8,799' W/850 SX.	7" @ 3,649' W/310 SX.
TOP OF CEMENT	:2660'.		4-1/2" @ 8,799' W/850 SX.	
LINER	:		5515'.	
DATE DRILLED	:11/53.		9/65.	11/51.
TOTAL DEPTH	:3,769'.		8,780'.	3,765'.
COMPLETION INTERVAL	:3,735'-3,769' (OH)		8,750'-58' (PERPS)	3,649'-3,765'.
NO RECORD OF WELL @ NWOD DIST CFC.				
PLUGGING PROCEDURE	CIBP @ 3700' 5 SX. @ 3700'-3660' CUT OPP 7" @ 1750' 50 SX 1800'-1650' 50 SX 1425'-1300' 10 SX 30'-0'		CIBP @ 8630' W/ 5 SX. 25 SX. 6234'-5985' 25 SX. 3993'-3743' SHOT CSG OPP @ 3,068'. 50 SX. 3219'-3019'. 75 SX. 3019'-2719'. CUT OPP 8 5/8" @ 386'. 120 SX. 443'-143'. 40 SX. 56'-0'	CIBP @ 3475'. PERF @ 1340'. RETAINER @ 1305'. SQZ W/ 500 SX. PERF @ 1150'. PMP 500 SX DWN CSG & DISPL TO 1050'. PERF @ 250'. PMP 375 SX DWN CSG. CIRC 5 SX TO SURF.

WELLS WITHIN STATE BY WELL NO. & AREA OF REVIEW

OPERATOR :CROSS TIMBERS OPERATING COMPANY
 WELL NAME :DENIUS FEDERAL #9
 LOCATION :2310' PSL & 940' FWL
 SEC 33, T-17-S, R-33-E
 WELL TYPE :OIL
 STATUS :ACTIVE
 SURFACE CASING :8 5/8" 24# @ 326' W/ 200 SX.
 TOP OF CEMENT :SURFACE (CIRC.)
 INTERMEDIATE CASING :
 TOP OF CEMENT :
 PRODUCTION CASING :4 1/2" 10.5# @ 4750' W/ 850 SX.
 TOP OF CEMENT :1286' (CALC)
 LINER :
 DATE DRILLED :8/61
 TOTAL DEPTH :4750'
 COMPLETION INTERVAL :4612'-4630'

CROSS TIMBERS OPERATING COMPANY
 STATE "BY" #3
 2310' PSL & 2117' FWL
 SEC 33, T-17-S, R-33-E
 OIL
 PLUGGED
 11 3/4" @ 314' W/ 275 SX.
 SURFACE (CIRC.)
 1290' ACTIVE
 8 5/8" 24# @ 1370' W/ 50 SX.
 1254' (CALC)

CROSS TIMBERS OPERATING COMPANY
 STATE "BY" #3
 1980' PSL & 660' PEL
 SEC 32, T-17-S, R-33-E
 OIL
 SI
 8 5/8" 24# @ 333' W/ 50 SX.
 1254' (CALC)

PLUGGING PROCEDURE

CIBP @ 4575' W/ 145SX.
 PERP @ 1400'. SQZ W/ 50 SX.
 PERP @ 350'. SQZ W/ 50 SX.
 50' SURF. PLUG
 DRY HOLE MARKER
 P&A'D 5/12/90

OPERATOR :CROSS TIMBERS OPERATING COMPANY
 WELL NAME :STATE "BY" #7
 LOCATION :660' PSL, 660' PEL
 SEC 32, T-17-S, R-33-E
 WELL TYPE :OIL
 STATUS :ACTIVE
 SURFACE CASING :8 5/8" @ 1383' W/ 700 SX.
 TOP OF CEMENT :SURFACE
 INTERMEDIATE CASING :
 TCP OF CEMENT :
 PRODUCTION CASING :5 1/2" @ 4767' W/ 800 SX.
 TCP OF CEMENT :SURFACE (CIRC. 50 SX)
 LINER :
 DATE DRILLED :12/79
 TOTAL DEPTH :4775'
 COMPLETION INTERVAL :2702'-4150'

CROSS TIMBERS OPERATING COMPANY
 SMGSAU #707
 100' PSL & 1430' PEL
 SEC 29, T17S, R33E
 DRY HOLE
 PLUGGED
 ACTIVE
 SURFACE
 8-5/8" 24# @ 810' W/350 SX.
 9-5/8" @ 1,300'.
 SURFACE
 1260'

CROSS TIMBERS OPERATING COMPANY
 SMGSAU #904
 660' PNL & 660' PEL
 SEC 32, T17S, R33E
 OIL
 PLUGGED
 ACTIVE
 SURFACE
 8-5/8" 24# @ 1,346' W/50 SX.
 9-5/8" @ 1,300'.
 SURFACE
 1260'

CROSS TIMBERS OPERATING COMPANY
 SMGSAU #905
 1650' PNL & 330' PEL
 SEC 32, T17S, R33E
 OIL
 PLUGGED
 ACTIVE
 SURFACE
 8-5/8" 24# @ 1,346' W/50 SX.
 9-5/8" @ 1,300'.
 SURFACE
 1260'

PLUGGING PROCEDURE

CIBP @ 4207' W/ 5 SX
 CUT OPP 5 1/2" CSC @ 1738'
 3,891').
 PULLED 2,215' 7" CSC.
 45 SX 2,265'-2,165'.
 45 SX 1,350'-1,250'.
 15 SX 30' SURP.
 DRY HOLE MARKER
 P&A'D 7/73

WELLS WITHIN STATE BY WELL NO. & AREA OF REVIEW

OPERATOR	:CROSS TIMBERS OPERATING COMPANY	
WELL NAME	:SHGSAU #906	
LOCATION	:1200' PNL & 950' PEL SEC 32, T17S, R33E	
WELL TYPE	:OIL	
STATUS	:ACTIVE	
SURFACE CASING	:9-5/8" 24# @ 306' W/250 SX.	
TOP OF CEMENT	:SURFACE (CIRC.)	
INTERMEDIATE CASING :		
TOP OF CEMENT :		
PRODUCTION CASING	:5 1/2" 17# @ 4545' W/ 1300 SX.	
TOP OF CEMENT	:SURFACE (CIRC.)	
LINER :		
DATE DRILLED	:12/91	
TOTAL DEPTH	:4545'	
COMPLETION INTERVAL	:4270'-4460'	

CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	
SMGSAU #907	U.S. MINERALS #1	
2310' PNL & 990' PEL	990' PNL, 330' PNL	
SEC 32, T17S, R33E	SEC 33, T-17-S, R-33-E	
INJECTION	OIL	
ACTIVE	ACTIVE	
8-5/8" 24# @ 338' W/200 SX.	8-5/8" 24# @ 1305' W/ 50 SX.	
1365'	1225'	
SURFACE (CIRC.)	SURFACE (CIRC.)	
	5 1/2" 15.5# & 17# @ 4600' W/ 1450 SX.	
	SURFACE (CIRC.)	
	3770'	
LINER :		
DATE DRILLED	:12/91	
TOTAL DEPTH	:4545'	
COMPLETION INTERVAL	:4270'-4460'	
	7" 20# @ 4104' W/ 100 SX.	
	2863'	
	9/53	
	4293'	
	4302'	
	4278'-4293' (OPEN HOLE)	
	4104'-4302' (OPEN HOLE)	

PLUGGING PROCEDURE

WELLS WITHIN STATE BY WELL NO. 6 AREA OF REVIEW

OPERATOR	:H. R. DEMIUS	JAMES P. DUNIGAN
WELL NAME	:COCKBURN-FEDERAL #5	COCKBURN STATE "A" #4
LOCATION	:2310' FSL, 330' FWL SEC 33, T17S, R33E	990' FFL & 430' FWL SEC 33, T17S, R33E
WELL TYPE	:OIL	OIL
STATUS	:P&A	DRY EOLE
SURFACE CASING	:9 5/8" 24# @ 1380' W/ 50 SX.	8-5/8" @ 226' W/75SX.
TC# OF CEMENT	:1300' (CALC)	31' (CALC)
INTERMEDIATE CASING :		SURFACE
TC# OF CEMENT	:	8-5/3" @ 4,557' W/1950 SX.
PROMOTION CASING	:5 1/2" 14# @ 3880' W/ 100 SX.	1400'
TOP OF CEMENT	:3372' (CALC)	NONZ
LAYER	:	4 1/2" @ 9819' W/760 SX.
DATE DRILLED	:11/53	6085'
TOTAL DEPTH	:3880'	
COMPLETION INTERVAL	:3840'-3862'	

P&A
PLUGGED
13-1/3" @ 308' W/340 SX.

SURFACE	8 5/3" @ 4,557' W/1950 SX.
1400'	5-1/2" @ 3845' W/300SX
2321' (CALC)	2/60
NONZ	4/61
4 1/2" @ 9819' W/760 SX.	8,940'
6085'	8820'
	NONE
	8632'-8695'

PLUGGING PROCEDURE	100' PLUG @ 3865'-3765' CUT OPP 5 1/2" @ 2396' 100' PLUG @ 2400'-2300' 100' PLUG @ 1430'-1330' CUT OPP 8 5/8" @ 454', 60' PLUG @ 270'-210', 15' SURR PLUG	CUT OPP 8 5/8" @ 1400' 30 SX. @ 1400', 30 SX @ 308', 10 SX. @ SURFACE 10' SURFACE PLUG
	P&A 6/16/61	P&A 6/16/61

OPERATOR	:OXY USA, INC.	
WELL NAME	:GIFFORD STATE "A" #1	
LOCATION	:330' PEL & 2310' PSL SEC 32, T-17-S, R-33-E	
WELL TYPE	:OIL	
STATUS	:ACTIVE	
SURFACE CASING	:11 3/4" 23# @ 314' W/ 225 SX. SURFACE	
TCP QZ CEMENT	:INTERMEDIATE CASING :8 5/8" 24# & 32# @ 2915' W/ 250 SX.	
TCP QP CEMENT	:2180'	
PRODUCTION CASING	:4 1/2" 10.5# & 11.6# @ 8829' W/ 1500 SX. 4 1/2" @ 4810' W/ 250 SX.	
TCP OF CEMENT	:3030', :	
LINER	:3845', :	
DATE DRILLED	:9/61	
TOTAL DEPTH	:8829'	
COMPLETION INTERVAL	:9561'-8586' & 8594'-8644' (PERP)	
	4345'-4492' (PERP)	
	8615'-8650' (PERP)	
	4512'-4604'	

OXY USA, INC.	OXY USA, INC.	
STATE "C" #1	OHIO STATE "C" #1	
STATE CD #1	2310' PSL, 2310' PEL	
1980' PNL & 330' PEL	SEC 32, T-17-S, R-33-E	
SEC 32, T-17-S, R-33-E	OIL	
OIL	ACTIVE	
ACTIVE	8 5/8" @ 329' W/ 300 SX.	
SURFACE	13 3/8" @ 311' W/ 340 SX.	
SURFACE	8 5/8" @ 3168' W/ 800 SX.	
820', 2645,	4 1/2" 11.6# @ 8825' W/ 1600 SX.	
11/60	4 1/2" 10.5# @ 4954' W/ 250 SX.	
1/62	3930' (CALC)	
9928', 4955'	11/60	
4512'-4604'	1/62	
	9928', 4955'	
	4512'-4604'	

PLUGGING PROCEDURE

WELLS WITHIN STATE BY WELL NO. 6 AREA OF REVIEW

OPERATOR	:PHILLIPS PETROLEUM COMPANY	PHILLIPS PETROLEUM CO.
WELL NAME	:WILLIAMS # 6	WTATT "A" FEDERAL # 3
LOCATION	:2311' PNL & 659' FWL	1650' PNL & 330' FWL
	SEC 33, T17S, R33-E	SEC 33, T-17-S, R-33-E
WELL TYPE	:OIL	OIL
STATUS	:ACTIVE ABO	ACTIVE
SURFACE CASING	:13-3/8" @ 320' W/350 SX.	7" @ 1318' W/ 50 SX.
TOP OF CEMENT	:SURFACE	SURFACE
INTERMEDIATE CASING	:8-5/8" @ 4,589' W/700 SX.	10" 34# @ 20' W/ 5 SX.
TOP OF CEMENT	:2530	13-3/8" @ 315' W/325SX
PRODUCTION CASING	:5-1/2" @ 8,788' W/361 SX.	8-5/8" @ 2962' W/1050SX
TOP OF CEMENT	:6950	1283' (CALC)
LINER	:	1283' (CALC)
DATE DRILLED	:7/61	4-1/2" @ 8809' W/1610SX
TOTAL DEPTH	:8,788'	3814' (CALC)
COMPLETION INTERVAL	:8,562'-8,734" (PERPS)	5 1/2" @ 3718' W/ 50 SX.
		3465
		4" 11.43# @ 4430' W/ 400 SX.
		3655
		4" 11.43# @ 3995' W/ 100 SX.
		4-1/2" @ 8809' W/1610SX
		3814' (CALC)
		1/61
		8/47
		4582'
		8809'
		3395'-4582' (OPEN HOLE, PLUGGED)
		3695'-3720' (PERPS)
		8605'-60'

PLUGGING PROCEDURE

L.B. SIMMONS ENERGY

DENIUS FEDERAL # 6
2310' FSL, 990' FAL
SEC 33, T17S, R33-E
OIL

ACTIVE

SURF?

8-5/8"

@ 2962' W/1050SX

1283'

(CALC)

1283' (CALC)

4-1/2"

@ 8809' W/1610SX

3814'

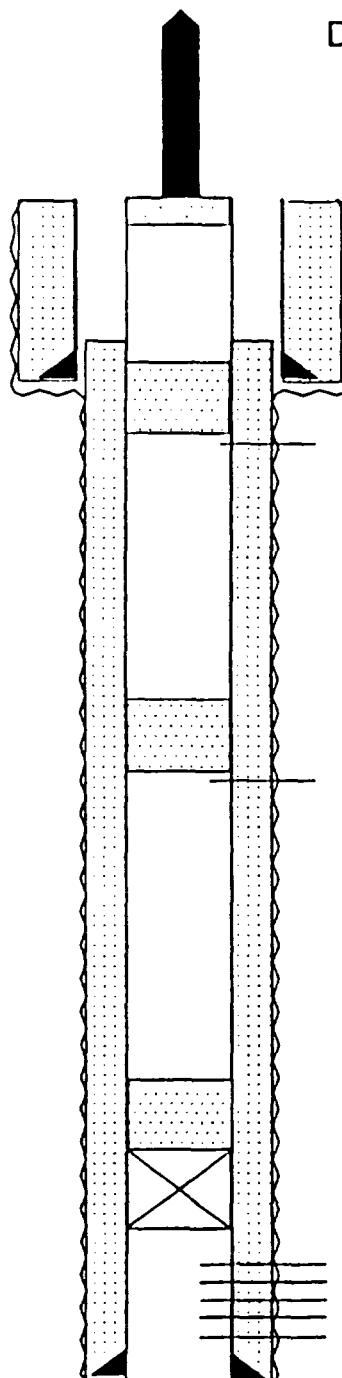
(CALC)

WELLS WITHIN STATE BY WELL NO. & AREA OF REVIEW

OPERATOR :L.B. SIMMONS ENERGY
WELL NAME :DENIUS FEDERAL #3
LOCATION :1980' PSL, 1980' PSL
SEC 33, T17S, R33E
WELL TYPE :OIL
STATUS :SI
SURFACE CASING :13-3/8" @ 309' W/340SX
TOP OF CEMENT :SURP
INTERMEDIATE CASING :9-5/8" @ 2920' W/850SX
TOP OF CEMENT :SURFACE (CALC)
PRODUCTION CASING :4-1/2" @ 9068' W/250SX. SQZ @ 5475' W/35
TOP OF CEMENT :4389' (CALC)
LINER :
DATE DRILLED :8/60
TOTAL DEPTH :9071
COMPLETION INTERVAL :8690'-8740' (CIBP @ 86660' W/ 25 SX)
8576'-8608'

PLUGGING PROCEDURE

CROSS TIMBERS OPERATING CO.
DENIUS FEDERAL NO. 10
(FORMERLY GRAUTEN & PEPPER)
(P&A 5/12/90)



50' SURF. PLUG

11 3/4" @ 314' W/ 275 SX
CIRC CMT TO SURF.

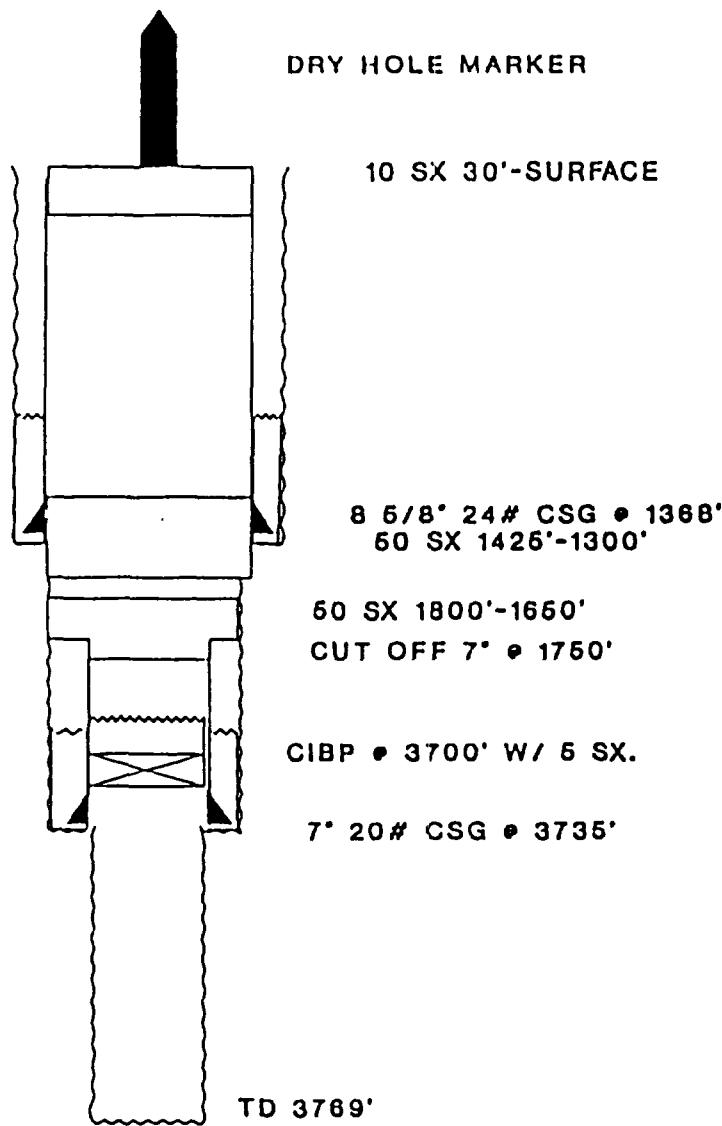
TAGGED TOP OF PLUG @
193'
PERF @ 350' & SQZ W/ 50
SX.

TAGGED TOP OF PLUG @
1325'
PERF @ 1400' & SQZ W/ 50
SX.

CIBP @ 4575' W/ 14 SX CMT
ON TOP.

PERFS: 4659'-4667'
4½" CSG @ 4710' CMT'D W/
1200 SX.

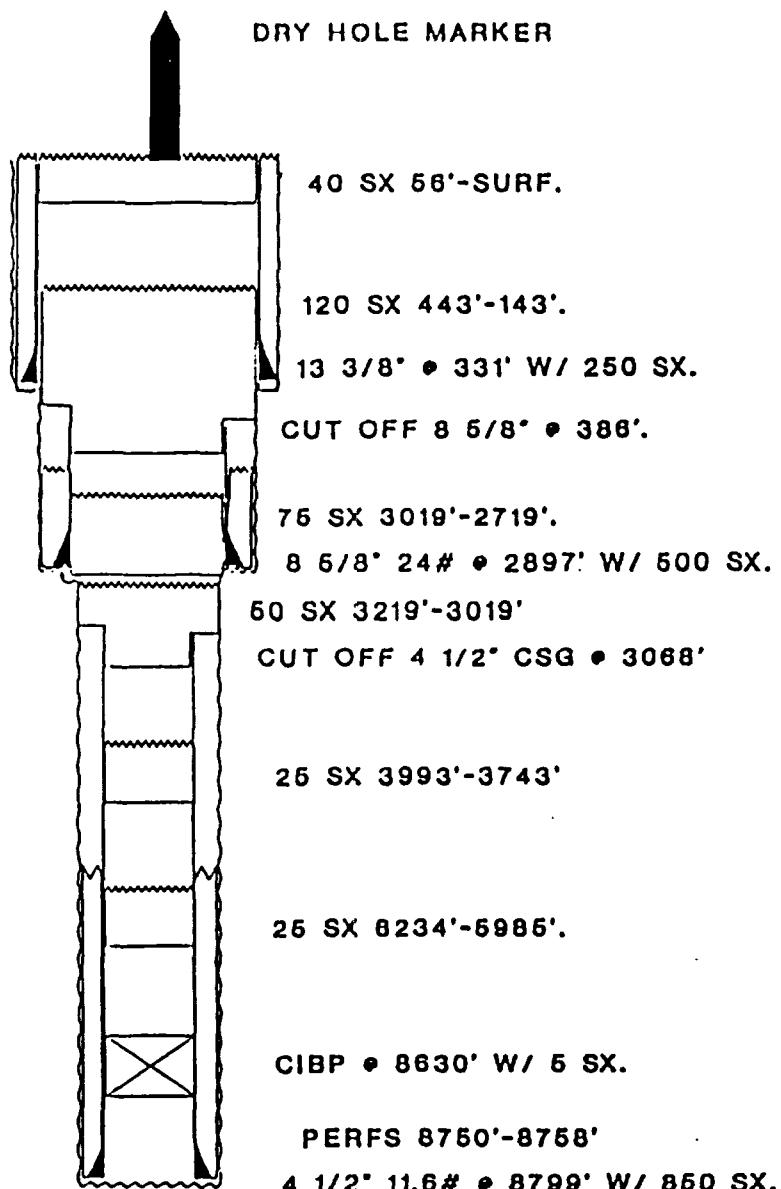
CITIES SERVICE
OHIO STATE "A" #6
(P&A 8/70)



2310' FNL, 330' FEL, SEC 32, T17S, R33E

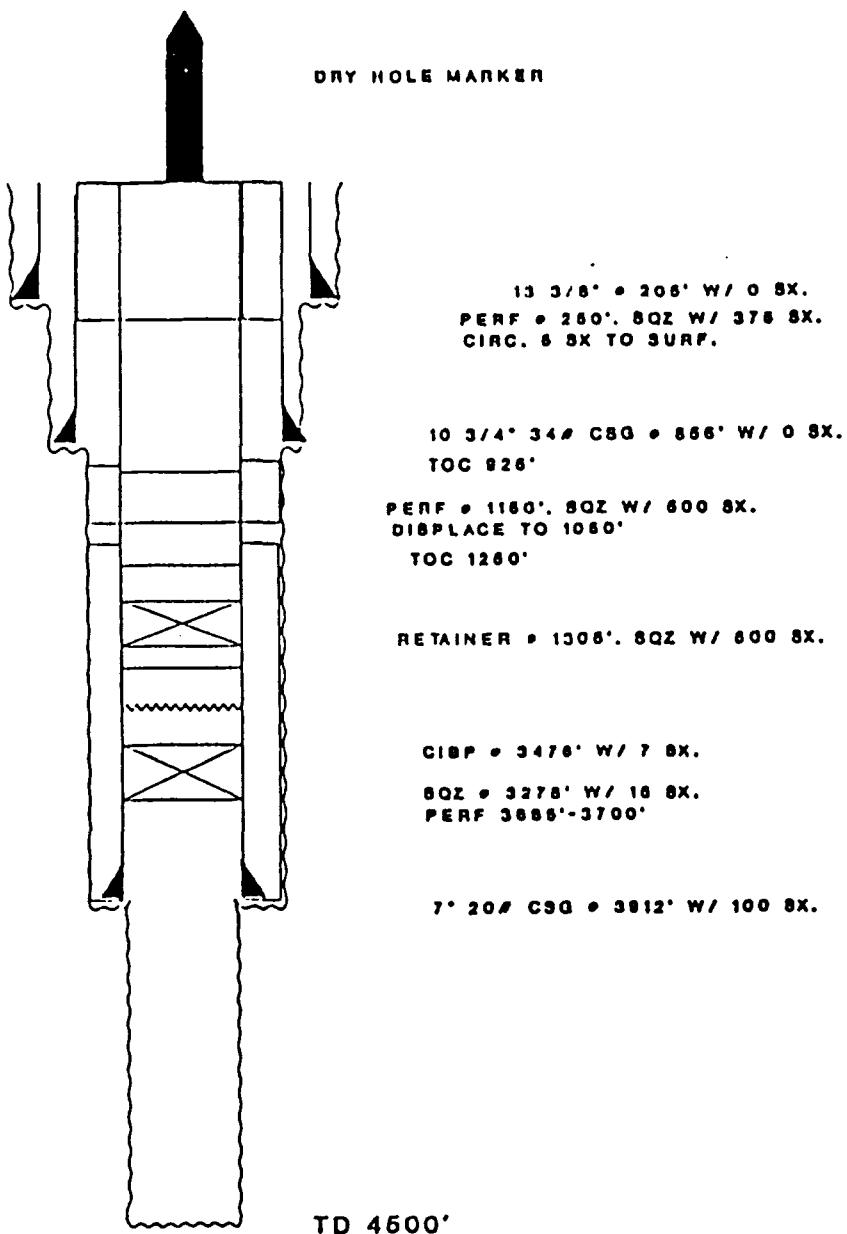
CITIES SERVICE
STATE "CB" #2

DRY HOLE MARKER



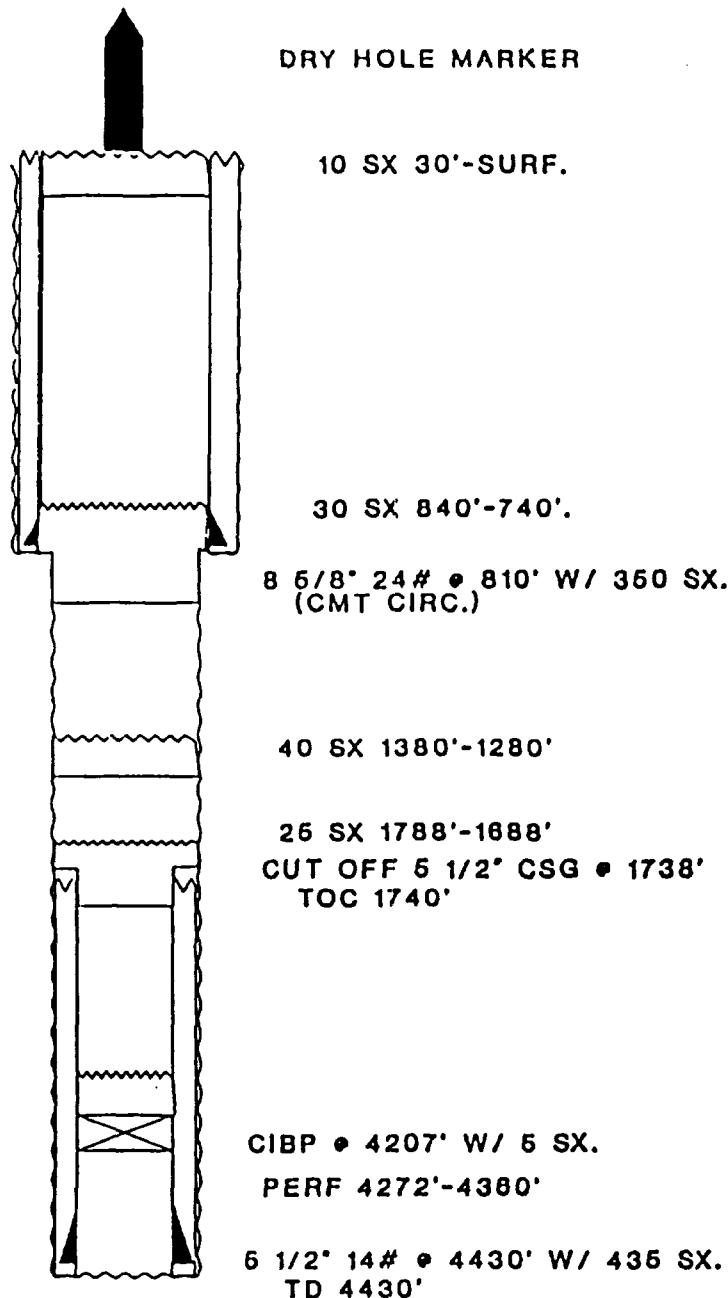
2310' FNL, 1700' FEL, SEC 32, T17S, R33E

CITIES SERVICE
STATE "CB" #5
(P&A 2/80)



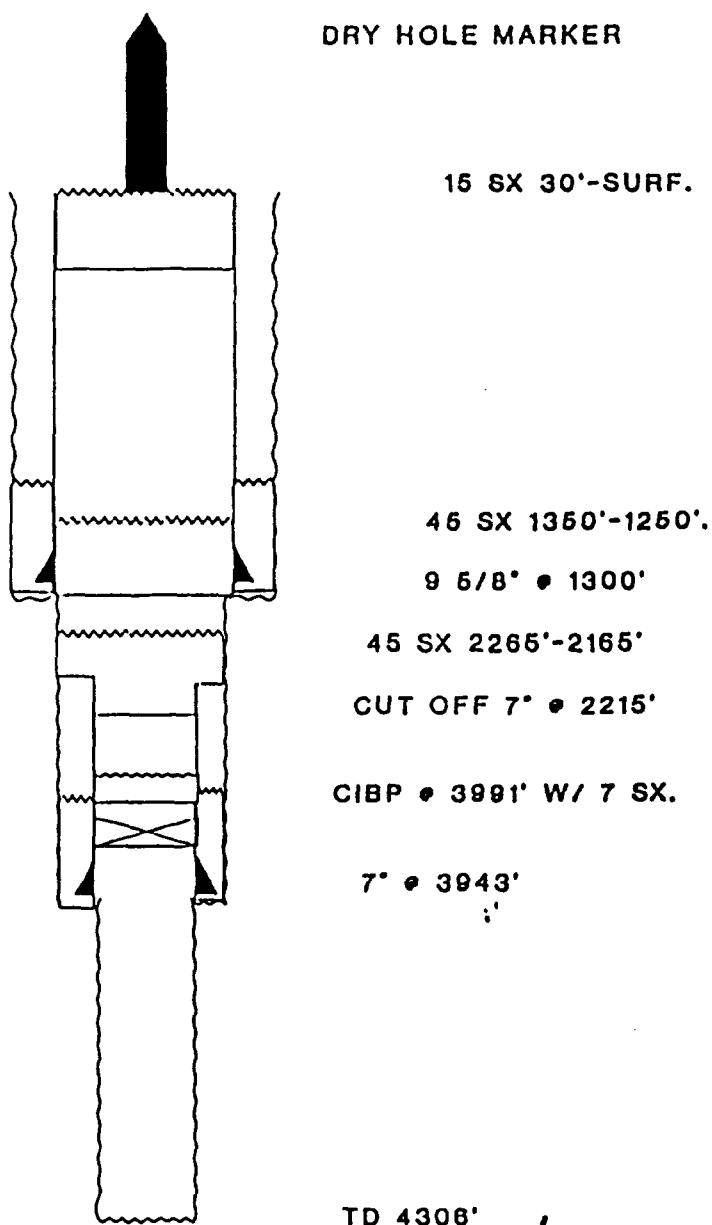
1660' FNL, 1660' FEL, SEC 32, T17S, R33E

CROSS TIMBERS OPERATING COMPANY
SMGSAU TRACT 7 WELL #7
(P&A 7/73)



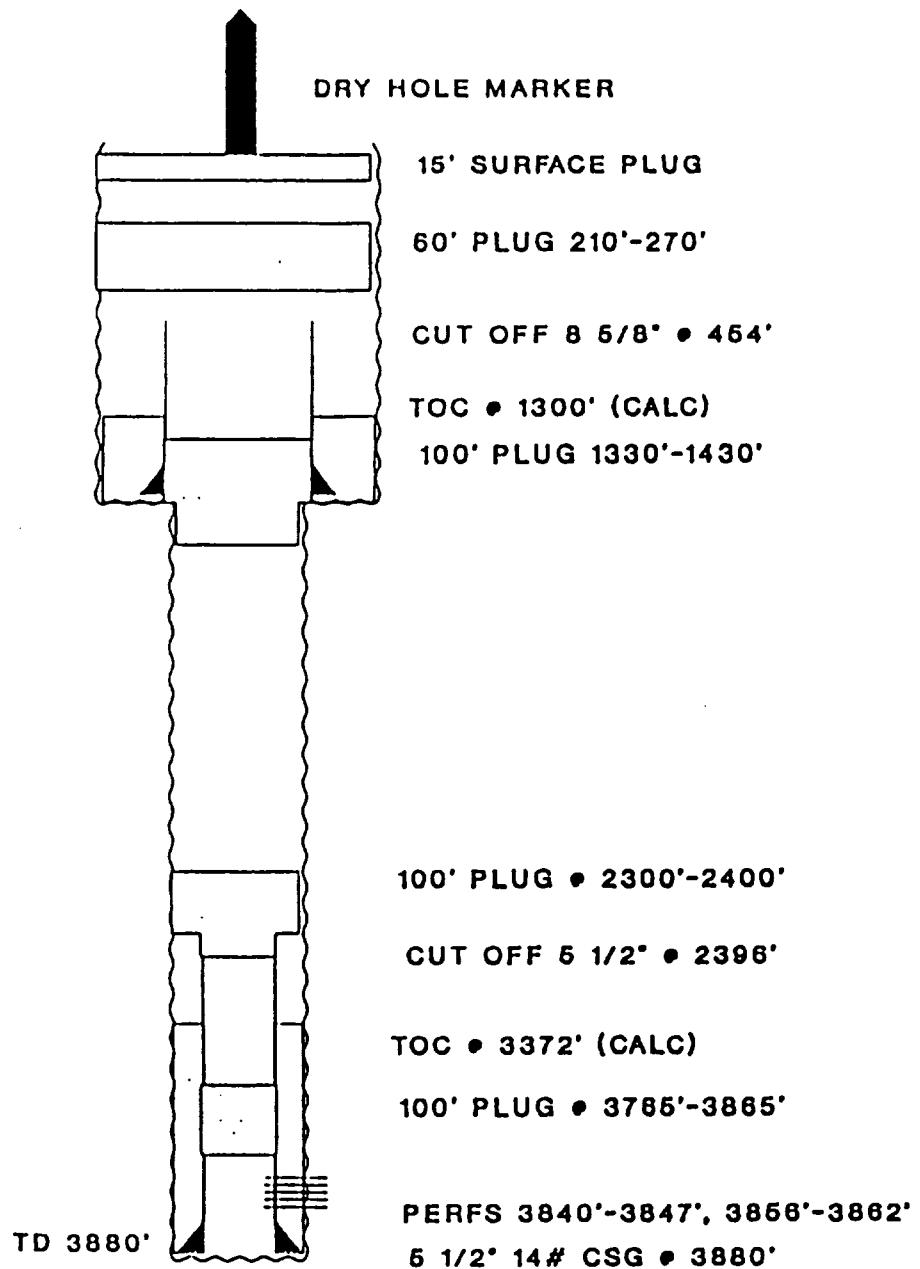
100' FSL, 1430' FEL, SEC 29, T 17S, R33E

CROSS TIMBERS OPERATING COMPANY
SMGSAU TRACT 9 WELL #4
(P&A 7/10/73)



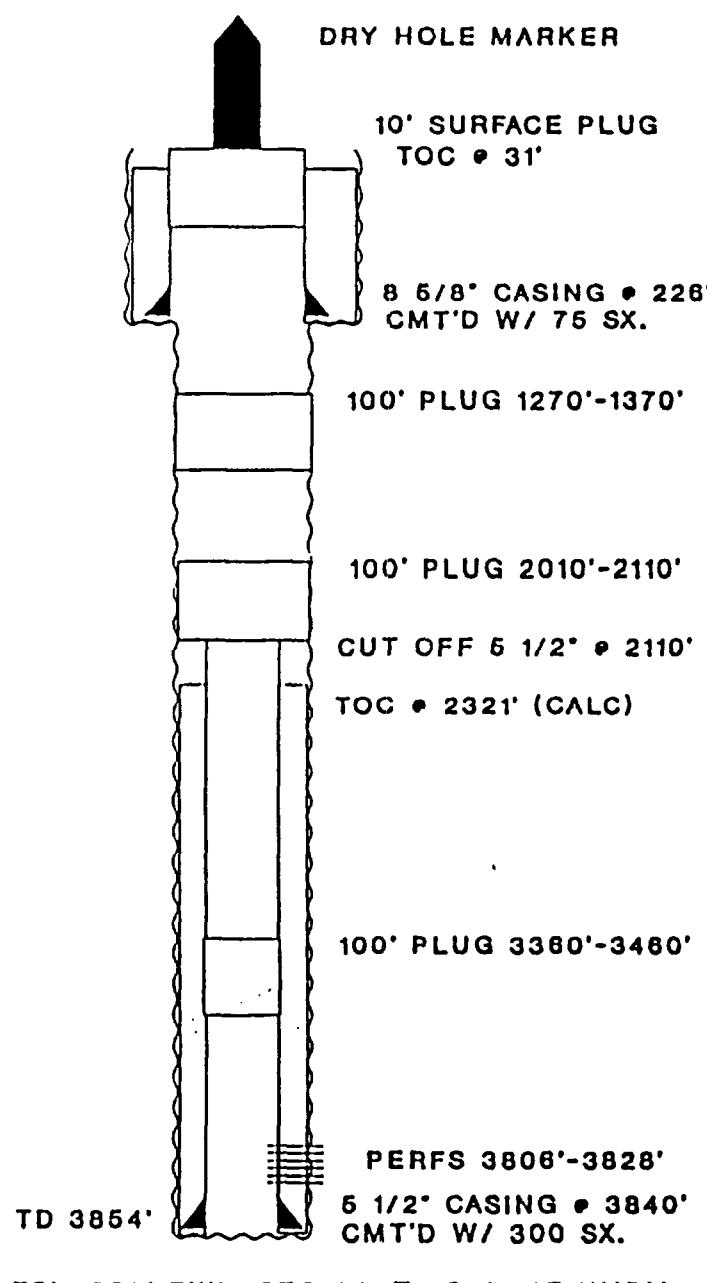
660' FNL, 660' FEL, SEC 32, T17S, R33E

H.R. DENIUS
COCKBURN FEDERAL #5
(P&A 6/16/61)

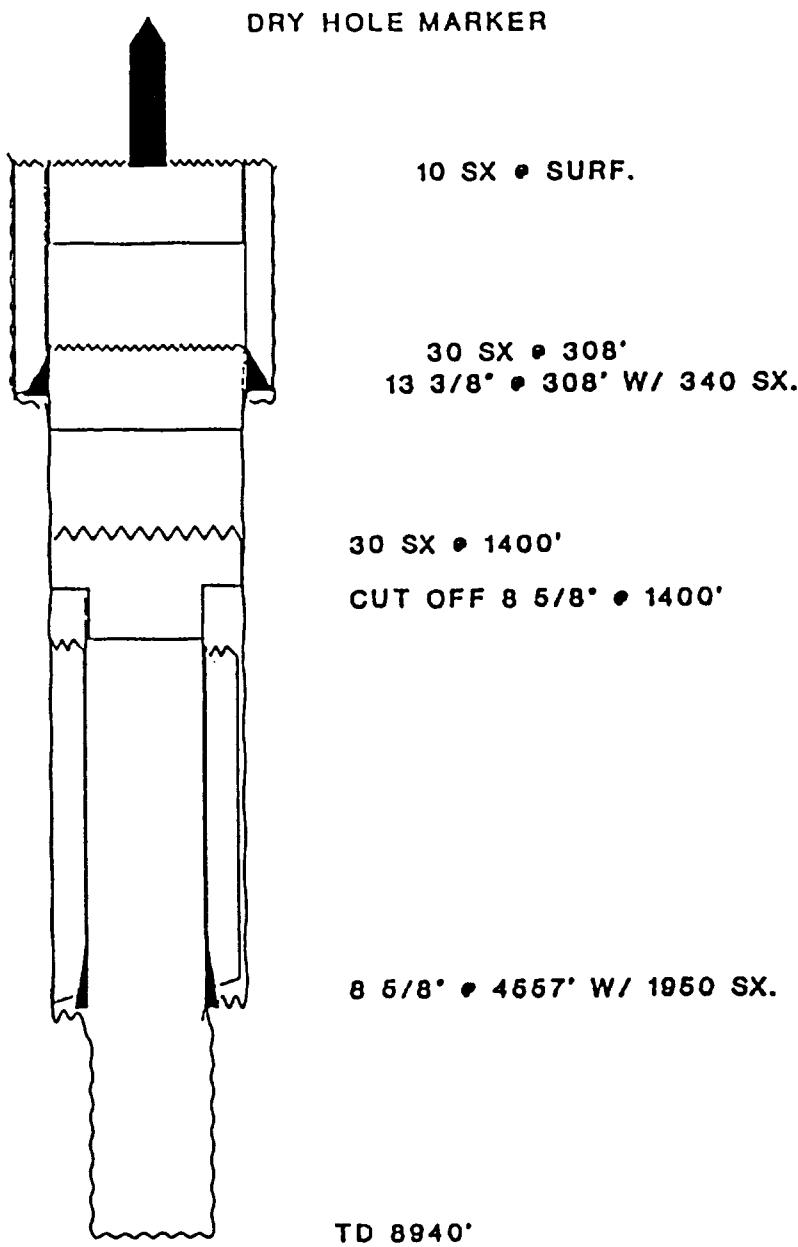


2310' FSL, 330' FWL, SEC 33, T17S, R33E, NMPM

H.R. DENIUS
COCKBURN FEDERAL #9
(P&A 6/16/61)



JAMES P. DUNIGAN
COCKBURN #1



990' FNL, 430' FWL, SEC 33, T17S, R33E