



Cross Timbers Operating Company

June 26, 1991

David Catanach
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87504

Dear Mr. Catanach:

Enclosed is the additional data requested for Items No.'s VI, VIII, XI, XII and XIV to support our application to convert the SMGSAU Tract 9 Well No. 2 to water injection.

If you have any questions or require additional data, please contact me at (915)682-8873.

Sincerely,

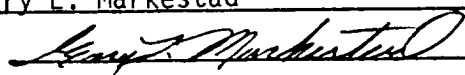
CROSS TIMBERS OPERATING COMPANY

Gary L. Markestad
Operations Engineer

GLM/kg
Enclosures

cc: Well File

APPLICATION FOR AUTHORIZATION TO INJECT

- 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 R-3134
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:  Date: 6/27/91
- * 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. _____

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.

JUL 03 1967

WELLS WITHIN SHGSAD 902 AREA OF REVIEW

OPERATOR	CITIES SERVICE(ORIG CARPER DRUG CO)	CITIES SERVICE	CITIES SERVICE	BARNETT COCKBURN
WELL NAME	:OHIO STATE "A" #6(OHIO-STATE #6)	STATE CB #2	STATE "CB" #5	STATE #2
LOCATION	:2310 FWL & 330' FEL SEC 32, T17S, R33E	2310' FWL & 1700' FEL SEC 32, T17S, R33E	1650' FWL & 1650' FEL SEC 32, T17S, R33E	660' FWL & 1980' FWL SEC 32, T17S, R33E
WELL TYPE	:OIL	OIL	DRT HOLE	DRT HOLE
STATUS	:PLUGGED	PLUGGED 11/18/83.	PLUGGED	PLUGGED
SURFACE CASING	:8-5/8" @ 1,368' W/50 SX.	13-3/8" @ 331' W/250 SX.	13" 42# @ 205'.	8-5/8" @ 1,276'.
TOP OF CEMENT	:1240'	SURFACE	10-3/4" 34# @ 856'.	
INTERMEDIATE CASING	:	8 5/8" @ 2897' W/ 500 SX.	7" 20# @ 3,912' W/ 100 SX.	7" @ 4,652'.
TOP OF CEMENT	:	1260'	2916'	
PRODUCTION CASING	:7" @ 3,735' W/100 SX.	4-1/2" @ 8,799' W/850 SX.		
TOP OF CEMENT	:2660'	5515'		
LINER	:			
DATE DRILLED	:11/53	9/65	7/49	12/44
TOTAL DEPTH	:3,769'	8,780'	4500'	5,200'
COMPLETION INTERVAL	:3,735'-3,769' (OH)	8,750'-58' (PERFS)		4,652'-5,200' (OH)
PLUGGING PROCEDURE	CIBP @ 3700'	CIBP @ 8630' W/ 5 SX.	CIBP @ 3475'.	REPLUGGED 4/80
	5 SX. @ 3700'-3660'	25 SX. 6234'-5985'	PERF @ 1340'.	SEP 7" CSG @ 207' W/ 175 SX.
	CUT OFF 7" @ 1750'	25 SX. 3993'-3743'	RETAINER @ 1305'.	DRILL OUT TO 653'.
	50 SX 1800'-1650'	SHOT CSG OFF @ 3,068'.	SQZ W/ 500 SX.	FILLED HOLE W/ 200 SX.
	50 SX 1425'-1300'	50 SX. 3219'-3019'	PERF @ 1150'.	
	10 SX 30'-0'	75 SX. 3019'-2719'	PAR 500 SX DWN CSG & DISPL TO 1050'	
		CUT OFF 8 5/8" @ 386'	PERF @ 250'.	
		120 SX. 443'-143'	PAR 375 SX DWN CSG.	
		40 SX. 56'-0'	CIRC 5 SX TO SURF.	

WELLS WITHIN SKGSAD 902 AREA OF REVIEW

OPERATOR	:CROSS TIMBERS OPERATING CO.		
WELL NAME	:SKGSAD #602	CROSS TIMBERS OPERATING CO.	SKGSAD #701
LOCATION	:660' PSL, 1980' PHL SEC 29, T-17-S, R-33-E	660' PSL, 1980' PHL SEC 29, T-17-S, R-33-E	660' PSL, 990' PHL SEC 29, T17S, R33E
WELL TYPE	:INJECTION	INJECTION	INJECTION
STATUS	:PLUGGED	ACTIVE	ACTIVE
SURFACE CASING	:8" 3/4" @ 1300' W/ 25 SX.	10 3/4" 35.75# @ 1234' W/ 450 SX.	8-5/8" 28# @ 32# @ 1,260' W/550 SX.
TOP OF CEMENT	:1250'	SURFACE	SURFACE
INTERMEDIATE CASING :			
TOP OF CEMENT :		7" 24# @ 4034' W/300 SX.	5-1/2" 15.5# @ 4,290' W/300 SX.
PRODUCTION CASING :	7" 22# @ 4060' W/ 200 SX.	2470'	3000'
TOP OF CEMENT :	:1580'	5" 14.87# @ 4,439' W/100 SX.	
LINER :		3/44	12/52
DATE DRILLED :	:7/43	4,327'	4,340'
TOTAL DEPTH :	:4312'	4,222'-4,322' (PERF).	4,290'-4,340' (OH)
COMPLETION INTERVAL :	4060'-4312' (OPEN HOLE)		
PLUGGING PROCEDURE	RETAINER @ 2000' W/ 300 SX. 100' CMT ON RETAINER PERF @ 1300'. RETAINER @ 1265' SQZ W/ 200 SX. 100' CMT ON RET. PERF @ 500'. RETAINER @ 425'. SQZ W/ 100 SX. 425' CMT ON RET.		

CROSS TIMBERS OPERATING COMPANY	SKGSAD #704
CROSS TIMBERS OPERATING COMPANY	1650' PSL @ 990' PHL
CROSS TIMBERS OPERATING COMPANY	SEC 29, T17S, R33E
CROSS TIMBERS OPERATING COMPANY	INJECTION
CROSS TIMBERS OPERATING COMPANY	7A
CROSS TIMBERS OPERATING COMPANY	8-5/8" 32# @ 297' W/300 SX.
CROSS TIMBERS OPERATING COMPANY	SURFACE
CROSS TIMBERS OPERATING COMPANY	5-1/2" 15.5# @ 4,246' W/800 SX.
CROSS TIMBERS OPERATING COMPANY	1800'
CROSS TIMBERS OPERATING COMPANY	10/54
CROSS TIMBERS OPERATING COMPANY	4,360'
CROSS TIMBERS OPERATING COMPANY	4,246'-4,360' (OH).
CROSS TIMBERS OPERATING COMPANY	CIRBP SEP @ 4,157'.

WELLS WITHIN SNGSAD 902 AREA OF REVIEW

OPERATOR	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY
WELL NAME	:SNGSAD #705	SNGSAD #706	SNGSAD #707	SNGSAD #708
LOCATION	:1395' PSL & 2615' PEL SEC 29, T17S, R33E	1155' PSL & 1385' PEL SEC 29, T17S, R33E	100' PSL & 1430' PEL SEC 29, T17S, R33E	100' PSL & 2590' PEL SEC 29, T17S, R33E
WELL TYPE	:OIL	OIL	DRY HOLE	OIL
STATUS	:ACTIVE	ACTIVE	PLUGGED	ACTIVE
SURFACE CASING	:8-5/8" 20# @ 369' W/300 SX.	8-5/8" 24# @ 353' W/220 SX.	8-5/8" 24# @ 810' W/350 SX.	8-5/8" 24# @ 819' W/500 SX.
TOP OF CEMENT	:SURFACE	SURFACE	SURFACE	SURFACE
INTERMEDIATE CASING :				
TOP OF CEMENT :				
PRODUCTION CASING	:5-1/2" 14# @ 4,448' W/335 SX.	5-1/2" 14# @ 4,350' W/435 SX.	5-1/2" 14# @ 4,429' W/435 SX.	5-1/2" 14# @ 4,316' W/435 SX.
TOP OF CEMENT	:2360'	2420'	1740'	2540'
LINER :				
DATE DRILLED	:11/71	8/72	11/72	4/73
TOTAL DEPTH	:4,450'	4,355'	4,430'	4,316'
COMPLETION INTERVAL	:4,178'-4,330' (PERF)	4,244'-4,322' (PERF)	4,272'-4,284' (PERF)	4,255'-4,292' (PERF)

PLUGGING PROCEDURE

WELLS WITHIN SNGSAD 902 AREA OF REVIEW

OPERATOR	:CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY
WELL NAME	:SNGSAD #803	SNGSAD #904	SNGSAD #905	SNGSAD #1004
LOCATION	:660' PHL & 1980' PEL SEC 32, T17S, R33E	660' PHL & 660' PEL SEC 32, T17S, R33E	1650' PHL & 330' PEL SEC 32, T17S, R33E	330' PHL & 2970' PEL SEC 32, T17S, R33E
WELL TYPE	:INJECTION	OIL	OIL	OIL
STATUS	:PLUGGED	PLUGGED	ACTIVE	PLUGGED
SURFACE CASING	:8-5/8" 32# @ 1,280' W/50 SX.	9-5/8" @ 1,300'.	8-5/8" 24# @ 1,346' W/50 SX.	7" 17# @ 1,223' W/50 SX.
TOP OF CEMENT	:1200'		1260'	1140'
INTERMEDIATE CASING	:			
TOP OF CEMENT	:7" 20# @ 4,045' W/102 SX.	7" @ 3,943'.	7" 20# @ 3,523' W/50 SX.	5-1/2" 14# & 17# @ 4,096' W/120 SX.
PRODUCTION CASING	:2780'		2900'	1900'
TOP OF CEMENT	:		4-1/2" 9.5# @ 4,474' W/50 SX.	
LINER	:5/44	7/46	9/50	11/51
DATE DRILLED	:4,325' (PRTD 4,313')	4,306' (PRTD 4,266')	4,476'	4,298'
TOTAL DEPTH	COMPLETION INTERVAL :4,045'-4,313' (OH)	3,943'-4,266' (OH)	4,298'-4,407' (PERF)	4,096'-4,298' (OH)
PLUGGING PROCEDURE	RETAINER @ 3,947'. SOL W/150 SX. 37 SX ON RET (3,747'-3,947'). PERF 2,800'. SET RET @ 2,699'. SOL W/500 SX. 37SX ON RET (2,499'-2,699'). PERF 1,200'. PHP 250 SX DNM CSG. DISPLACE TO 100'. 15 SX 50'-SURF.	CIBP @ 3,891' W/9 SX CNT (3,846'-3,891'). PULLED 2,215' 7" CSG. 45 SX 2,265'-2,165'. 45 SX 1,350'-1,250'. 15 SX 30'-SURF.		CIBP @ 4,039' W/50 SX (3,426'-4,039'). 50 SX 2,599'-1,986'. PERF 1,230'. RET @ 1,091'. SOL W/175 SX. 25 SX ON RET. SURF PLUG 214'-SURF.

WELLS WITHIN SMC&AD 902 AREA OF REVIEW

OPERATOR	:JAMES P. DUNIGAN	GRUTEN & PEPPER	GRUTEN & PEPPER	DALLAS McCASLAND
WELL NAME	:COCKBURN #1	U.S. MINERALS #1	U.S. MINERALS #2	STATE "BT" #3
LOCATION	:990' PUL & 430' PUL	990' PUL, 330' PUL	990' PUL, 990' PUL	1980' PSL & 660' PEL
	SEC 33, T17S, R33E	SEC 33, T-17-S, R-33-E	SEC 33, T-17-S, R-33-E	SEC 32, T-17-S, R-33-E
WELL TYPE	:DRT HOLE	OIL	OIL	OIL
STATUS	:PLUGGED	ACTIVE	ACTIVE	ACTIVE
SURFACE CASING	:13-3/8" @ 308' W/340 SX.	7" 20# @ 1427' W/ 50 SX.	8 5/8" 28# @ 1305' W/ 50 SX.	8 5/8" 24# @ 1370' W/ 50 SX.
TOP OF CEMENT	:SURFACE	1365'	1225'	1290'
INTERMEDIATE CASING	:8-5/8" @ 4,557' W/1950 SX.			
TOP OF CEMENT	:1400'			
PRODUCTION CASING	:NONE	5 1/2" 14# @ 4278' W/ 100 SX.	7" 20# @ 4104' W/ 100 SX.	7" 20# @ 3813' W/ 100 SX.
TOP OF CEMENT	:	3770'	2860'	2570'
LINER	:			
DATE DRILLED	:4/61	9/53	7/53	12/52
TOTAL DEPTH	:8,940'	4293'	4302'	4715' (PB TO 3940')
COMPLETION INTERVAL	:NONE	4278'-4293' (OPEN HOLE)	4104'-4302' (OPEN HOLE)	3813'-3940' (OPEN HOLE)
PLUGGING PROCEDURE	CUT OFF 8 5/8" @ 1400'			
	30 SX. @ 1400'			
	30 SX @ 308'			
	10 SX. @ SURFACE			

WELLS WITHIN SHGSAD 902 AREA OF REVIEW

OPERATOR	: DALLAS MCCASLAND	OXY USA, INC.	OXY USA, INC.	OXY USA, INC.
WELL NAME	: STATE "BY" #6	COCKBURN STATE "A" #4	GIPFORD STATE "A" #1	STATE "CB" #1
LOCATION	: 2310' PSU, 430' PEL SEC 32, T-17-S, R-33-E	1980' PEL & 990' PEL SEC 32, T-17-S, R-33-E	330' PEL & 2310' PSU SEC 32, T-17-S, R-33-E	2310' PEL, 2310' PEL SEC 32, T-17-S, R-33-E
WELL TYPE	: OIL	OIL	OIL	OIL
STATUS	: ACTIVE	ACTIVE	ACTIVE	ACTIVE
SURFACE CASING	: 8 5/8" @ 325' W/ 300 SX.	13 3/8" @ 334' W/ 320 SX.	11 3/4" 28# @ 314' W/ 225 SX.	8 5/8" @ 329' W/ 300 SX.
TOP OF CEMENT	: SURFACE	SURFACE	SURFACE	SURFACE
INTERMEDIATE CASING	:	8 5/8" @ 2899' W/ 500 SX.	8 5/8" 24# @ 32# @ 2915' W/ 250 SX.	
TOP OF CEMENT	:	2100'	2180'	
PRODUCTION CASING	: 4 1/2" @ 4744' W/ 250 SX.	4 1/2" @ 8819' W/ 700 SX.	4 1/2" 10.5# @ 11.6# @ 8829' W/ 1500 SX. 4 1/2" @ 4810' W/ 250 SX.	
TOP OF CEMENT	: 3780'	6085'	3030'	3845'
LINER	:			
DATE DRILLED	: 11/61	3/66	9/61	12/61
TOTAL DEPTH	: 4748'	8820'	8829'	4810
COMPLETION INTERVAL	: 4602'-4645'	8632'-8695'	8561'-8586' & 8594'-8644' (PERF)	4345'-4492' (PERF)

PLUGGING PROCEDURE

WELLS WITHIN SMGSAD 902 AREA OF REVIEW

OPERATOR	:OXY USA, INC	PENROIL	PENROIL (ORIG ZAPATA)	PHILLIPS PETROLEUM COMPANY
WELL NAME	:OHIO STATE "C" #1	PHILLIPS STATE #1	PHILLIPS STATE #2	ZILLIAMS #6
LOCATION	:1980' PUL & 330' PUL	660' PSL & 660' PUL	1980' PSL & 660' PUL	2311' PUL & 659' PUL
	SEC 32, T-17-S, R-33-E	SEC 28, T-17-S, R-33-E	SEC 28, T17S, R33E	SEC 33, T17S, R33E
WELL TYPE	:OIL	OIL	INJECTION	OIL
STATUS	:ACTIVE	ACTIVE	ACTIVE	ACTIVE ABO
SURFACE CASING	:13 3/8" @ 311' W/ 340 SX.	8 5/8" @ 354' W/ 250 SX.	8-5/8" @ 345' W/150 SX.	13-3/8" @ 320' W/350 SX.
TOP OF CEMENT	:SURFACE	SURFACE	105	SURFACE
INTERMEDIATE CASING	:8 5/8" @ 3168' W/ 800 SX.			8-5/8" @ 4,589' W/700 SX.
TOP OF CEMENT	:820'			2530
PRODUCTION CASING	:4 1/2" 11.64 @ 8825' W/ 1600 SX.	5 1/2" @ 4439' W/ 200 SX.	5-1/2" @ 4,459' W/450 SX.	5-1/2" @ 8,788' W/361 SX.
TOP OF CEMENT	:2645	3420	2170	6950
LINER	:			
DATE DRILLED	:11/60	12/57 (RE-ENTERED 11/77)	12/57	7/61
TOTAL DEPTH	:8828'	OTD-4440' PBTD-4352'	4,460' (PBTD 4,431')	8,788'
COMPLETION INTERVAL	:8615'-8650' (PERF)	4299-4337 (PERF)	4,200'-4,352'	8,562'-8,734' (PERFS)

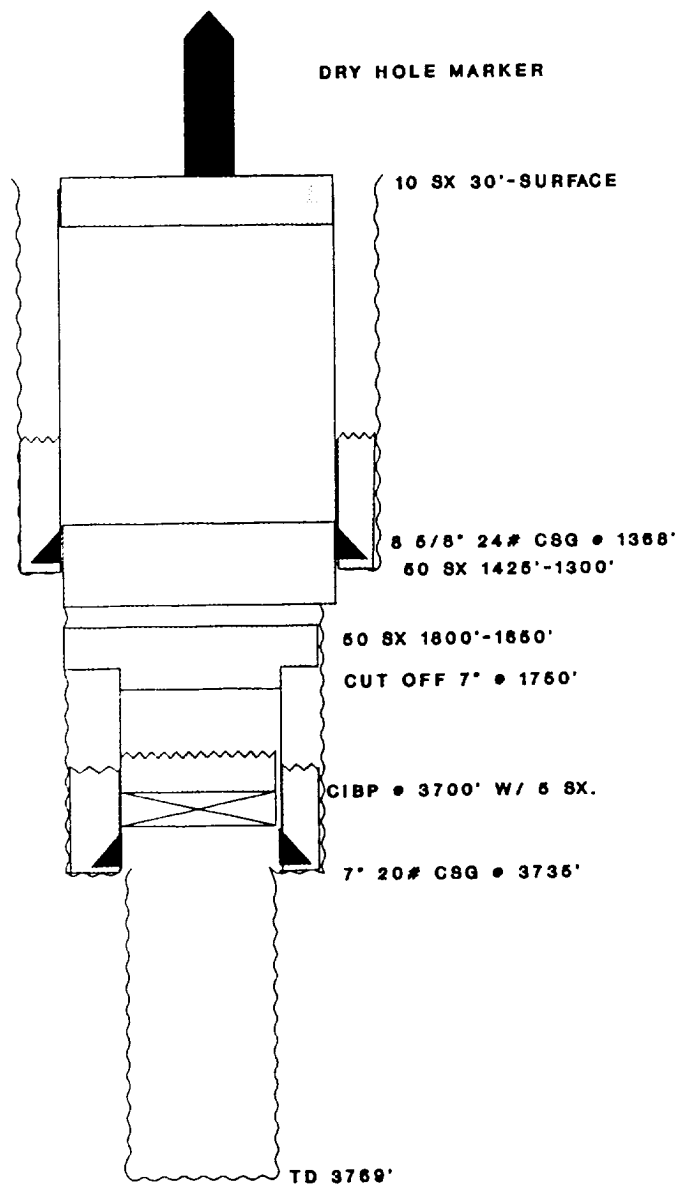
PLUGGING PROCEDURE

WELLS WITHIN SHGSAD 902 AREA OF REVIEW

OPERATOR	: PHILLIPS PETROLEUM COMPANY	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.
WELL NAME	: PHILMEX #14	WYATT "A" FEDERAL #3	WYATT "A" FEDERAL #13
LOCATION	: 569' PSL & 507' PNL	1650' PNL & 330' PNL	1980' PNL, 660' PNL
	SEC 28, T17S, R33E	SEC 33, T-17-S, R-33-E	SEC 33, T-17-S, R-33-E
WELL TYPE	: WATER DISPOSAL	OIL	OIL
STATUS	: ACTIVE	ACTIVE	ACTIVE
SURFACE CASING	: 11-3/4" @ 376' W/ 480 SX.	7" @ 1318' W/ 50 SX.	10" 34# @ 20' W/ 5 SX.
TOP OF CEMENT	: SURFACE	1260	SURFACE
INTERMEDIATE CASING	: 8-5/8" @ 4,747' W/ 750 SX.		
TOP OF CEMENT	: 2150'		
PRODUCTION CASING	: 5 1/2" @ 6609' W/ 1420 SX.	5 1/2" @ 3718' W/ 50 SX.	7" 20# @ 3995' W/ 100 SX.
TOP OF CEMENT	: SURFACE	3465	3625
LINER	:	4" 11.43# @ 4430' W/ 400 SX.	
DATE DRILLED	: 3/72	6/52	8/47
TOTAL DEPTH	: 12,752'	4432'	4582'
COMPLETION INTERVAL	: 4380'-5210'	4378'-4357, 4320'-4323' (PERP)	3995'-4582' (OPEN HOLE, PLUGGED)
			3695'-3720' (PERFS)

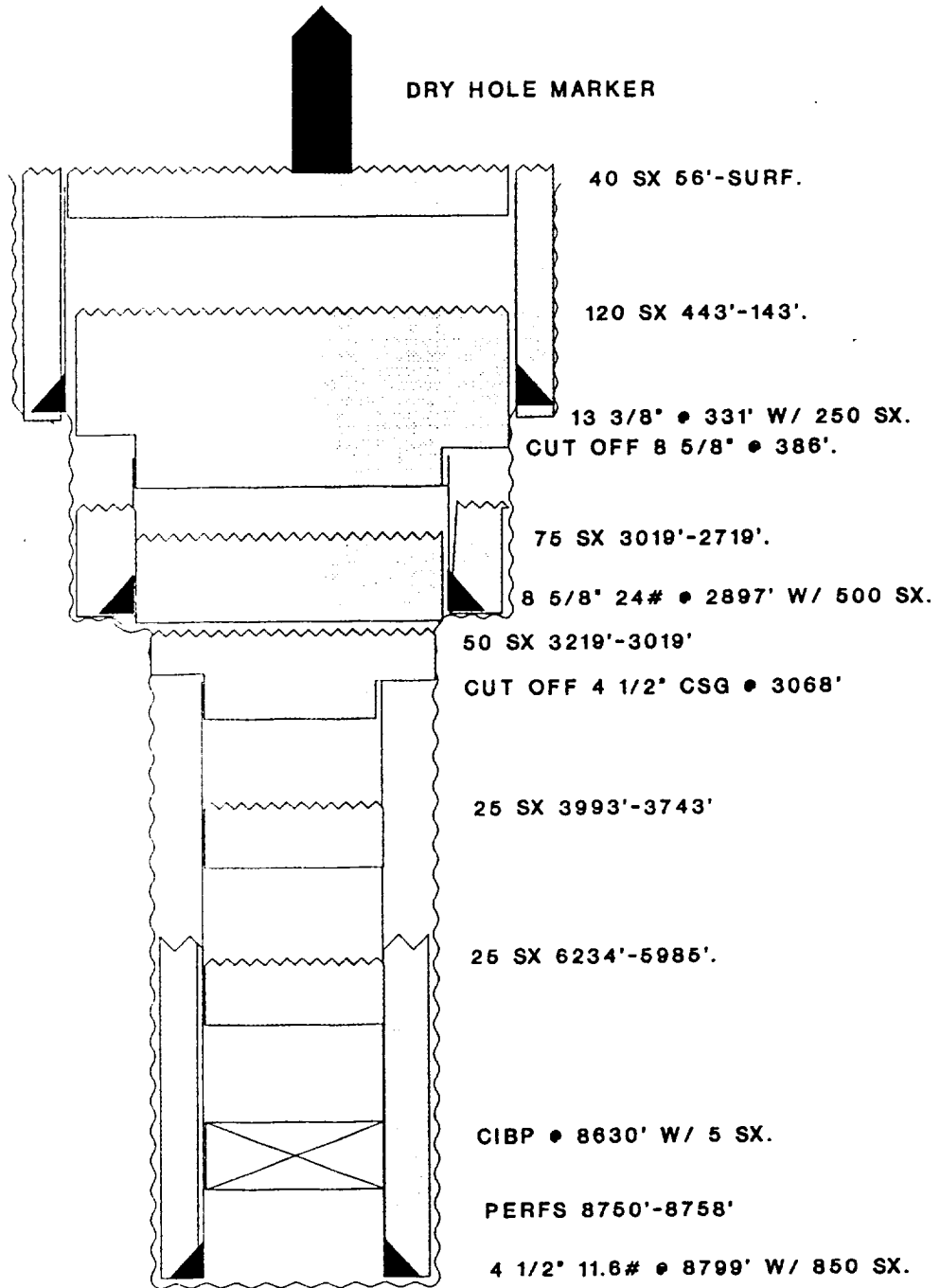
PLUGGING PROCEDURE

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



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

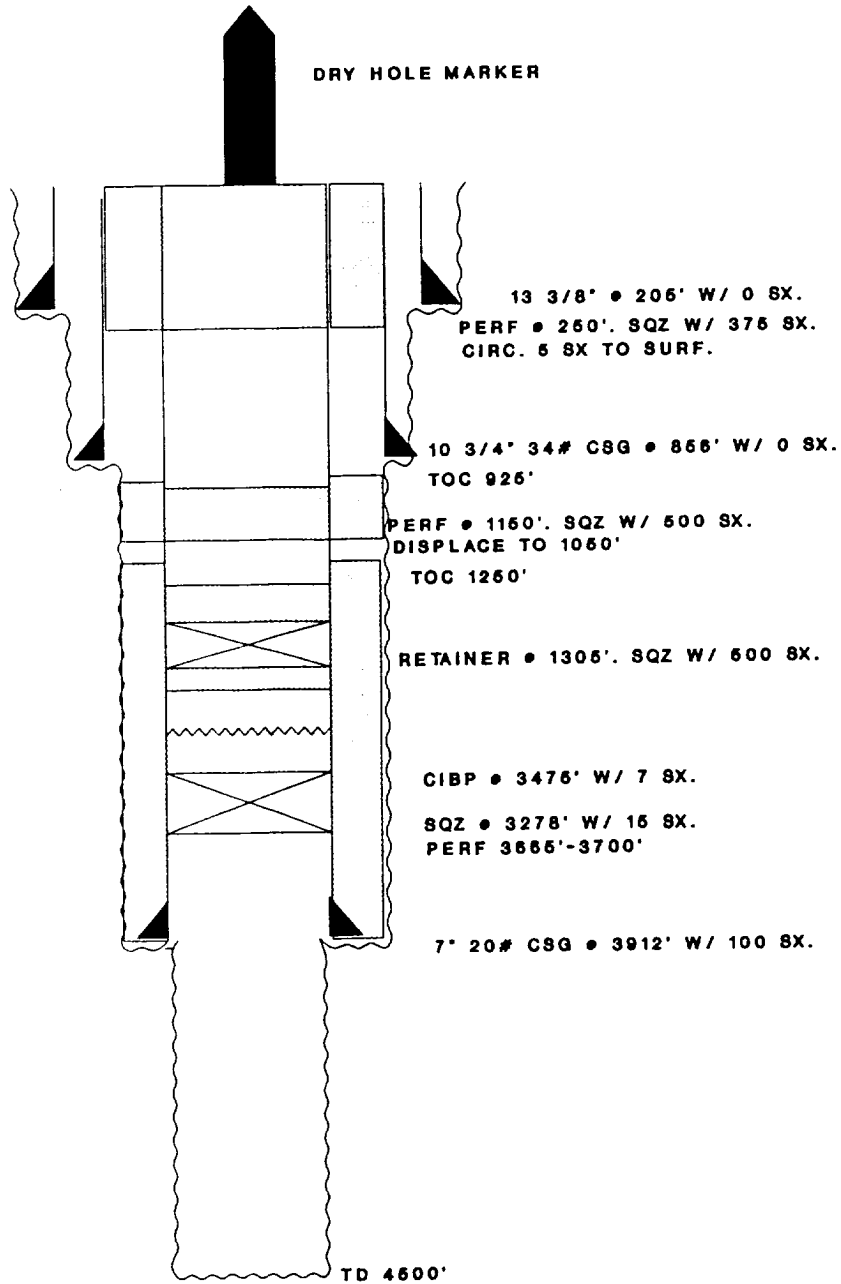
CITIES SERVICE STATE "CB" #2



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

CITIES SERVICE
STATE "CB" #5

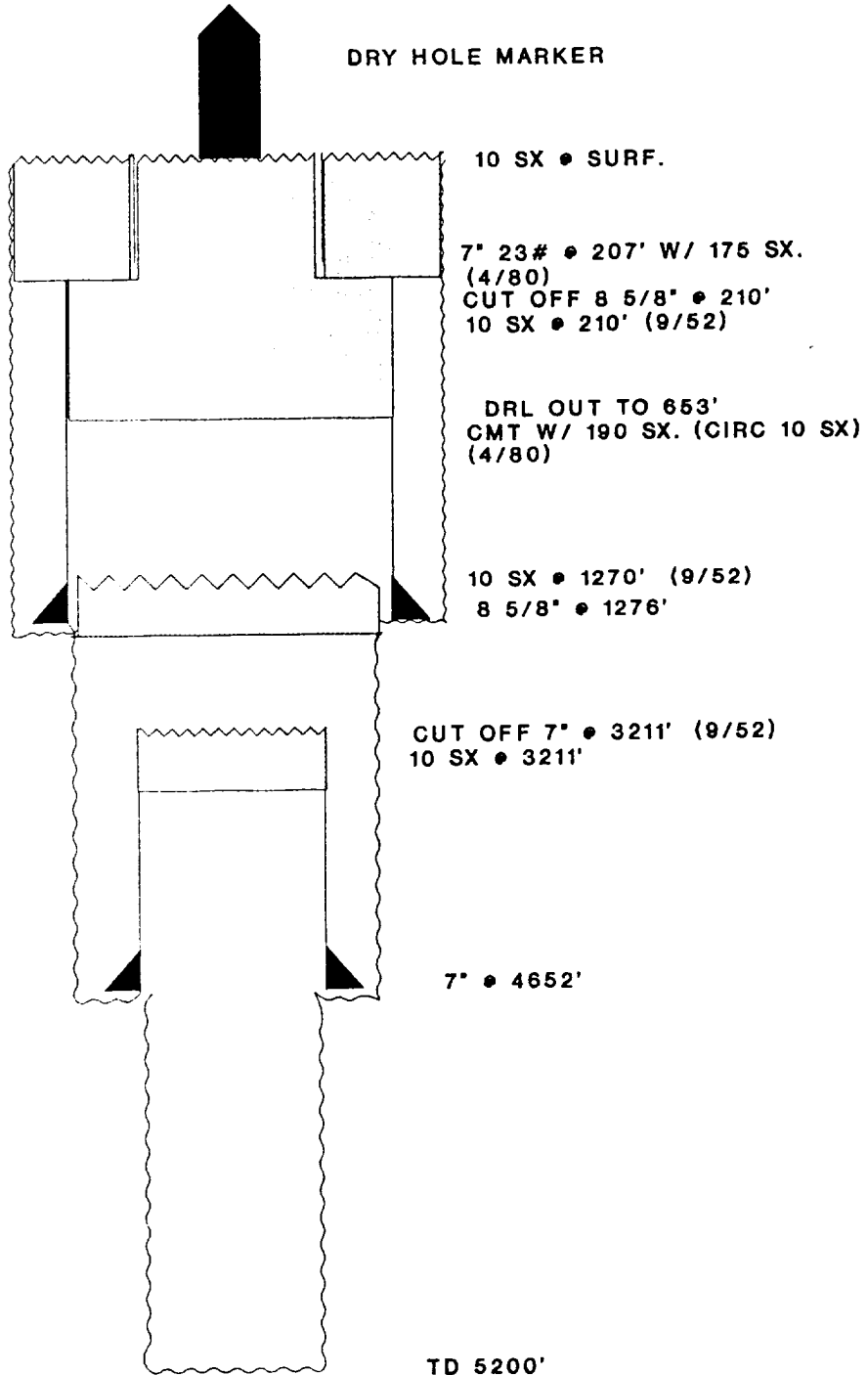
(P&A 2/80)



1650' FNL, 1650' FEL, SEC 32, T17S, R33E

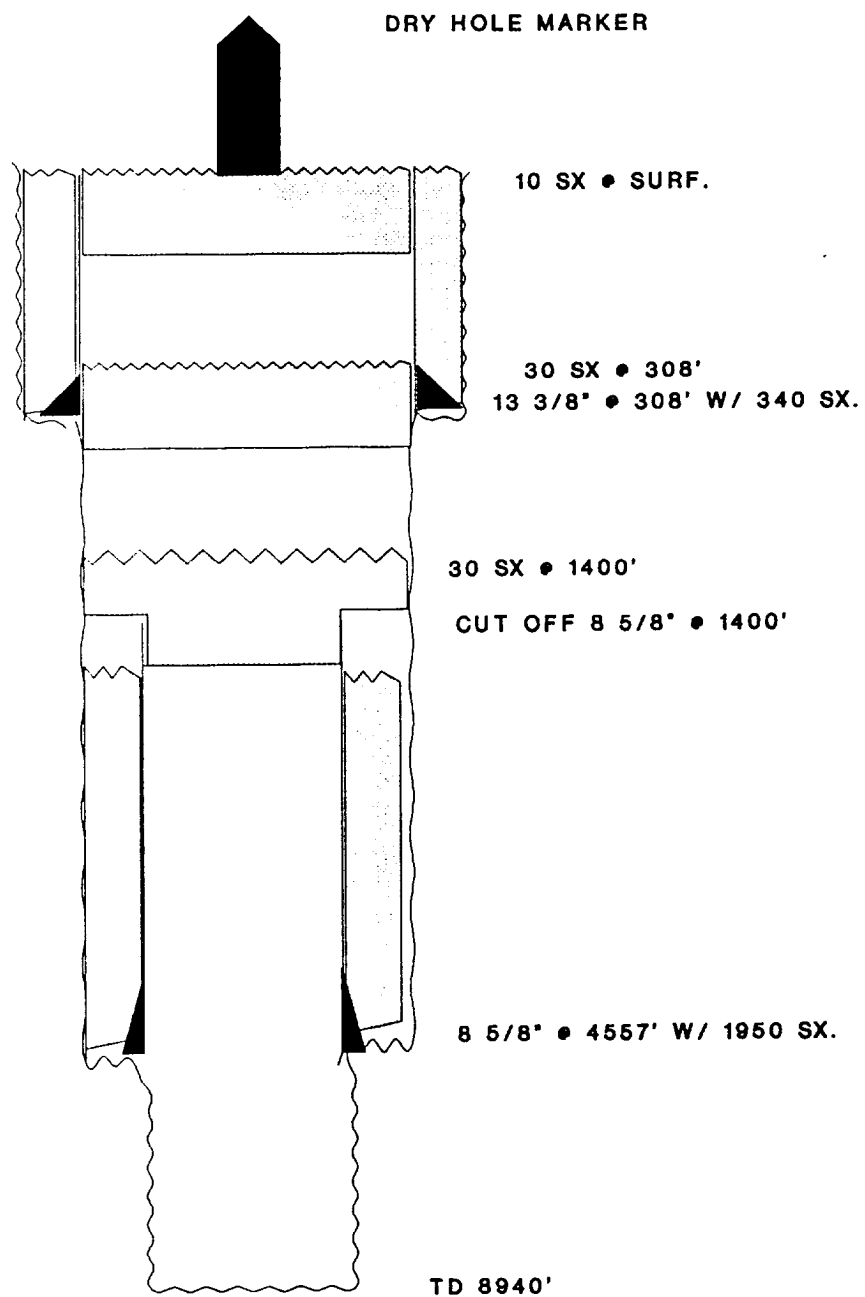
BARNEY COCKBURN
STATE #2
(REPLUGGED 4/80)

DRY HOLE MARKER



660' FNL, 1980' FWL, SEC 32, T17S, R33E

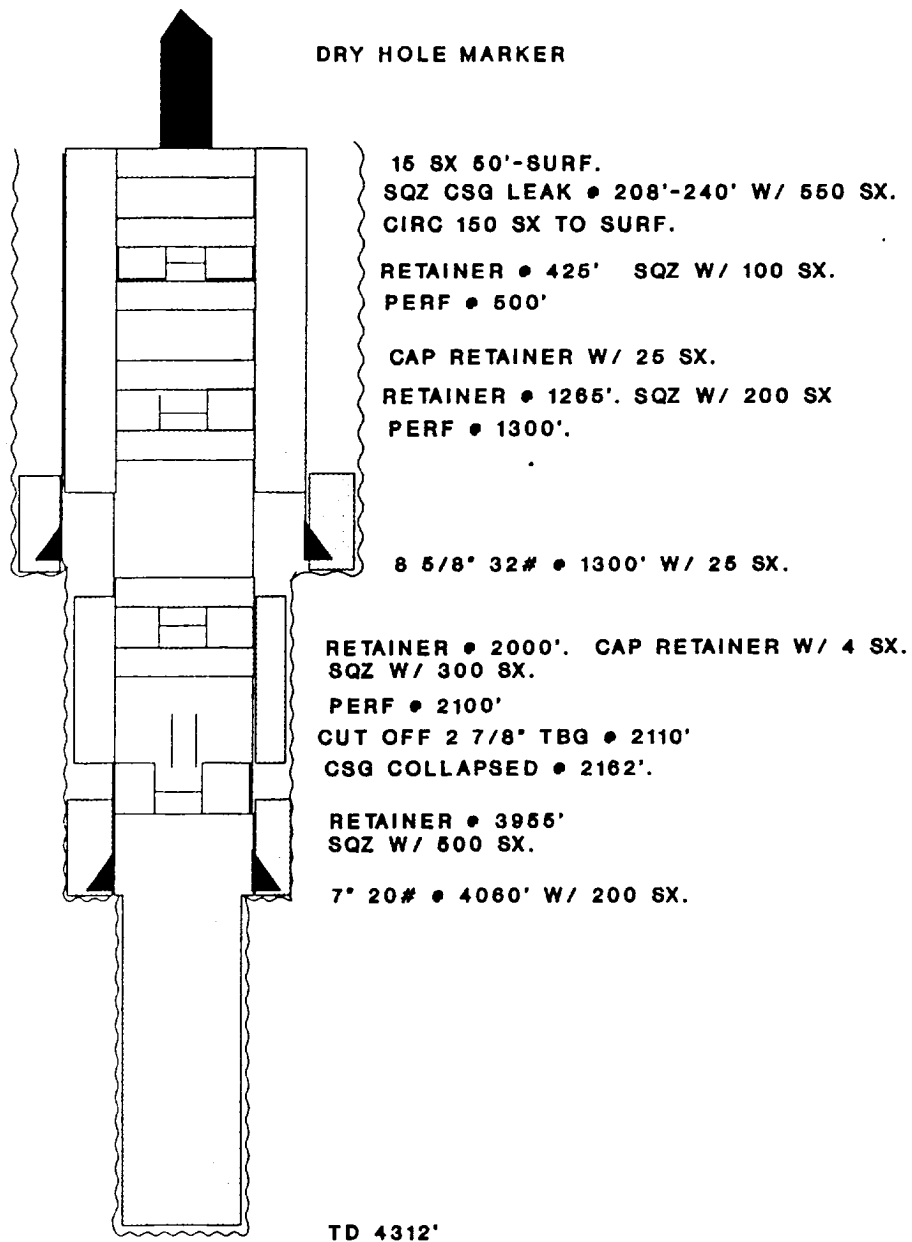
**JAMES P. DUNIGAN
COCKBURN #1**



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

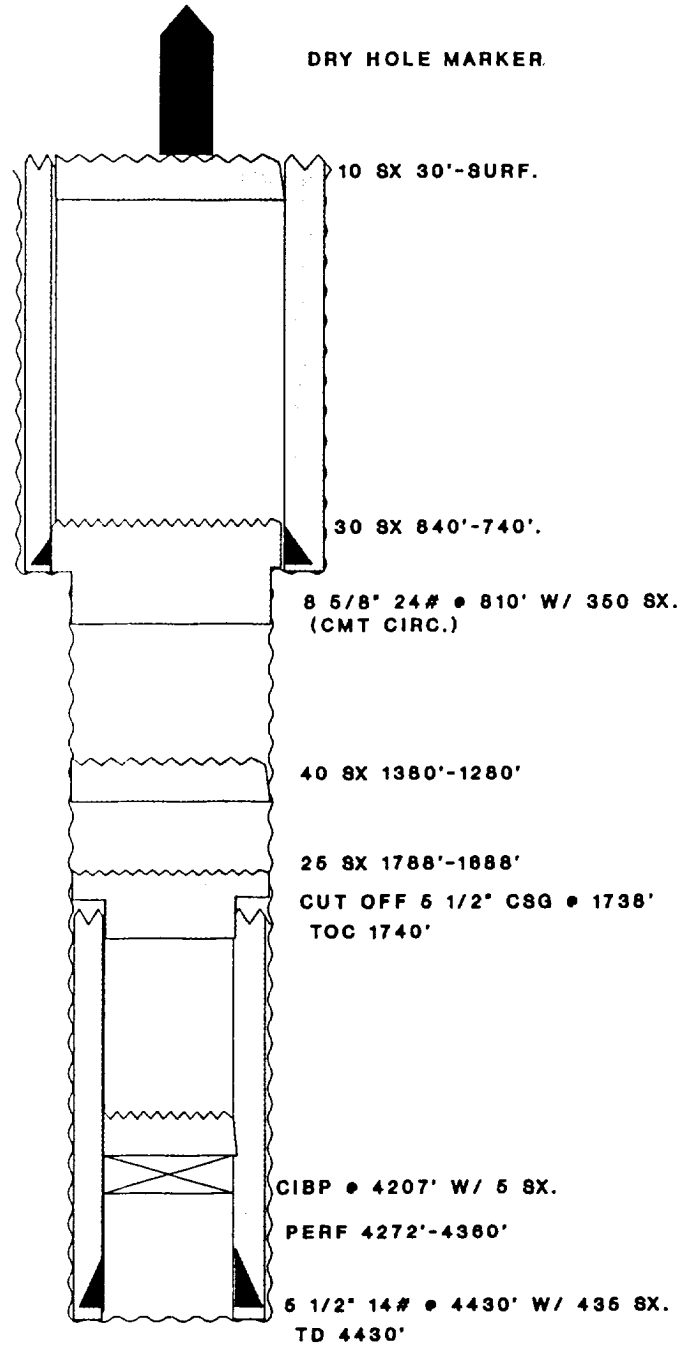
CROSS TIMBERS OPERATING COMPANY SMGSAU TRACT 6 WELL #2

(P&A 3/82)



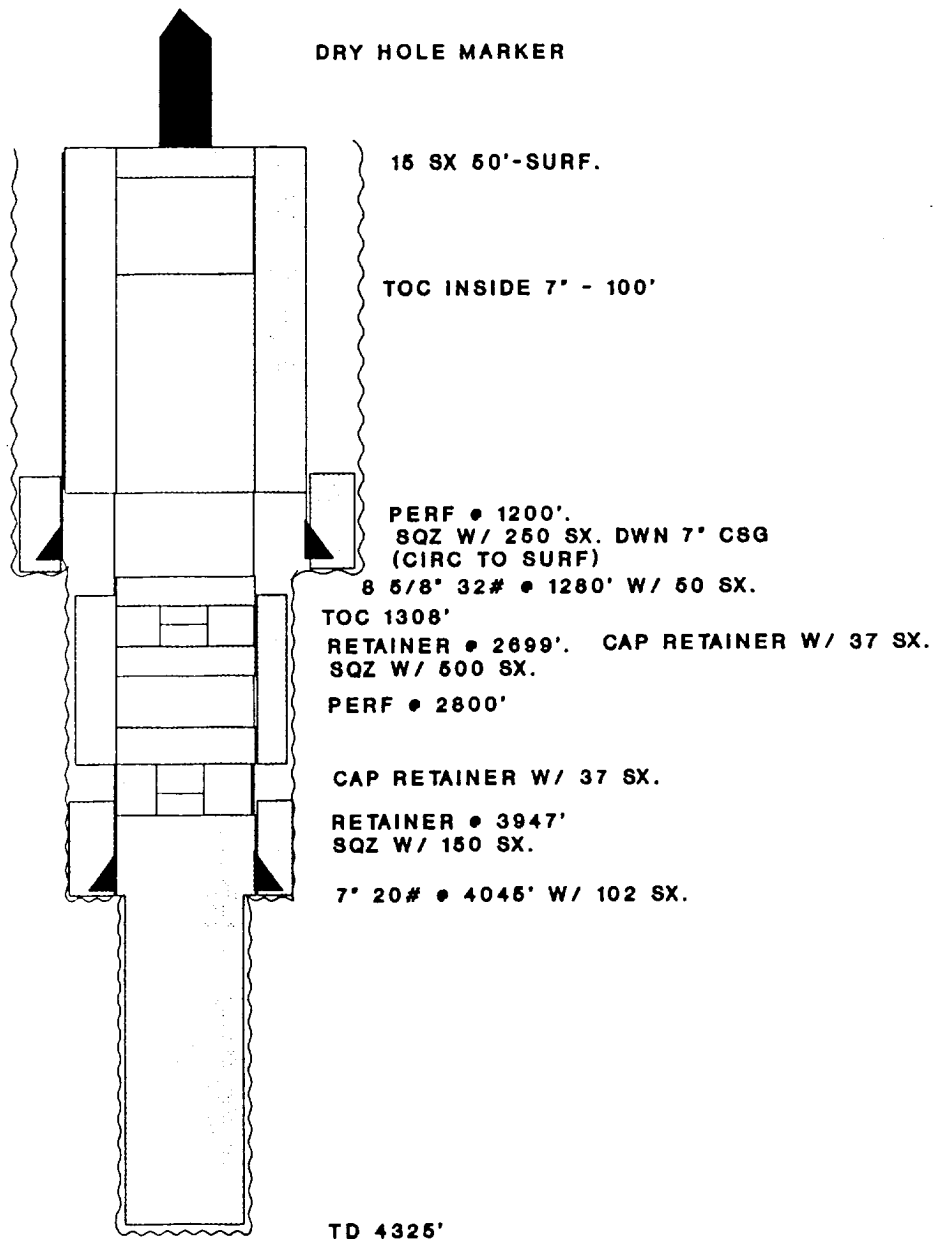
660' FSL, 1980' FWL, SEC 29, T17S, R33E

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



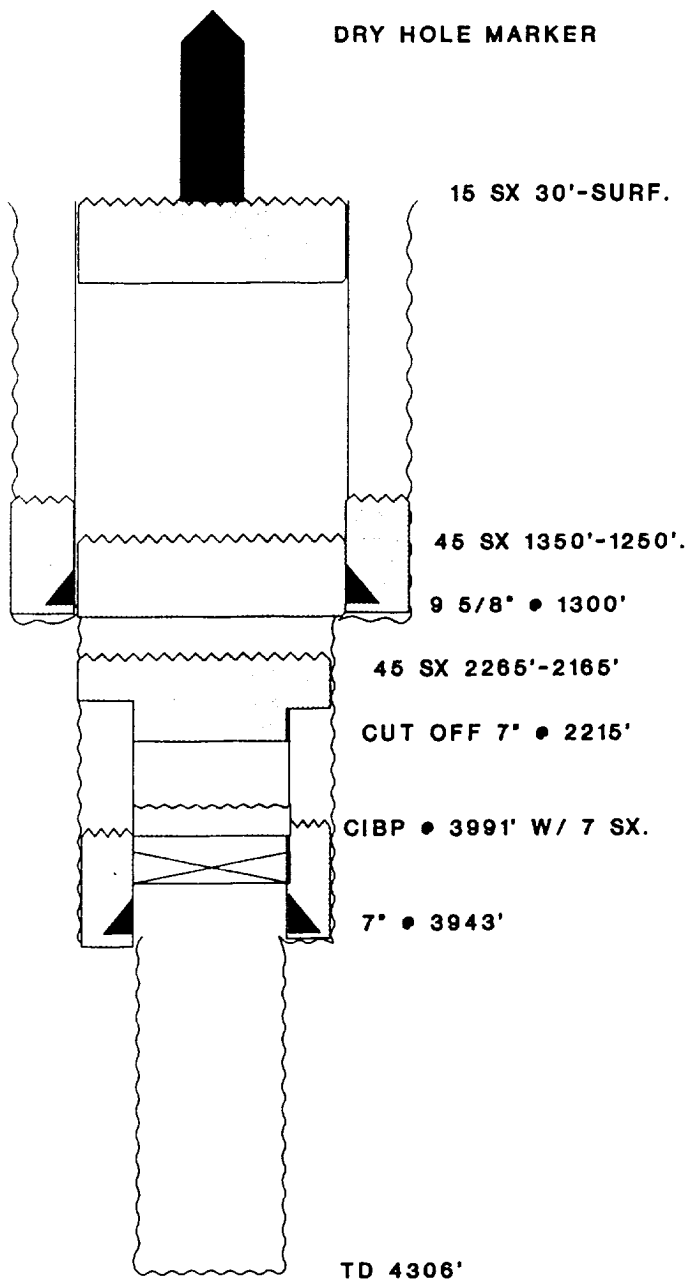
100' FSL, 1430' FEL, SEC 29, T 17S, R33E

CROSS TIMBERS OPERATING COMPANY
SMGSAU TRACT 8 WELL #3
(P&A 6/84)



660' FNL, 1980' FEL, SEC 32, T17S, R33E

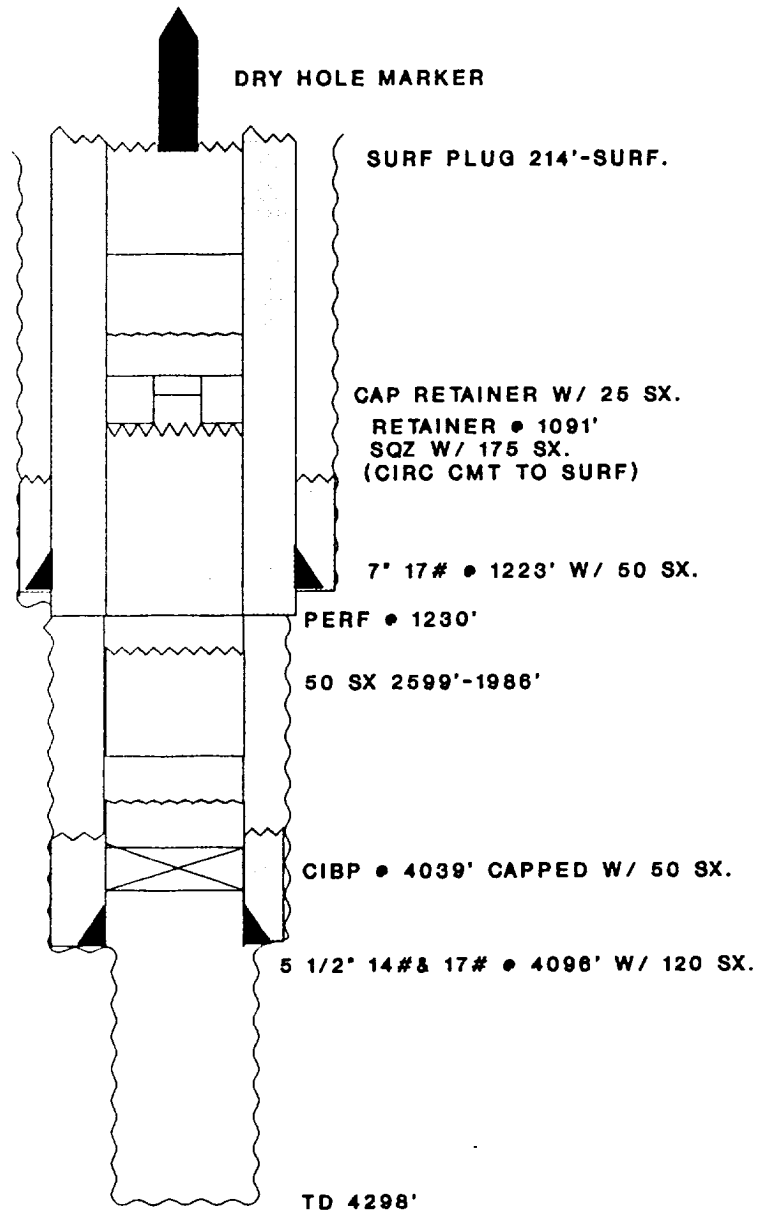
CROSS TIMBERS OPERATING COMPANY
SMGSAU TRACT 9 WELL #4
(P&A 7/10/73)



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

**CROSS TIMBERS OPERATING COMPANY
SMGSAU TRACT 10 WELL #4**

(P&A 2/83)



330' FNL, 2970' FEL, SEC 32, T17S, R33E

ITEM VIII

GEOLOGICAL DATA

Formation Name: Grayburg
Lithology: Sandstone
Thickness: 350' gross, 61' net
Depth: 4,050'

Sources of drinking water: None
Listed in State Engineer's Report

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.