STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

FORM C-108
Revised 7-1-81

NEW MEXICO
OIL CONSERVATION DIVISION

EXHIBIT 1

CASE NO. 10822

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [X] 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 [X] 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.

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

AFFIDAVIT OF PUBLICATION

REC'D. / MIDLAND

NOV 24 1992

State of New Mexico,
County of Lea.

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

Peggy J. Fenty
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.

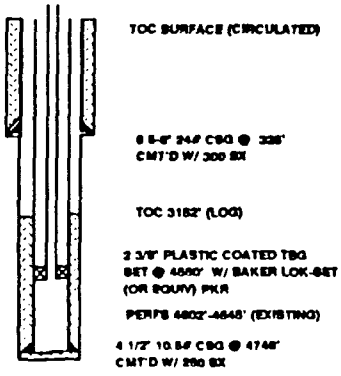
LEGAL NOTICE
November 17, 1992

Cross Timbers Operating Company, P.O. Box 50847, Midland, Texas 79710, (915) 682-8873, is hereby giving notice of our intent to inject produced water and/or fresh water into the Blalock "A" Well No. 6 located 2310' FSL & 430' FEL of Section 32, T-17-S, R-33-E for secondary recovery purposes. Water is to be injected into the Grayburg formation from 4,602' to 4,708' at an expected rate of 200 BWPD and 1400 psig pressure. Interested 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, within 15 days of this notice.

INJECTION WELL DATA SHEET

CROSS TIMBERS OPERATING COMPANY		STATE BY	
	OPERATOR	LEASE	
6	2310' FSL, 430' FEL	SEC 32, T17S, R33E	
WELL NO.	FOOTAGE LOCATION	SEC/TWP/RGE	

SCHEMATIC



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.

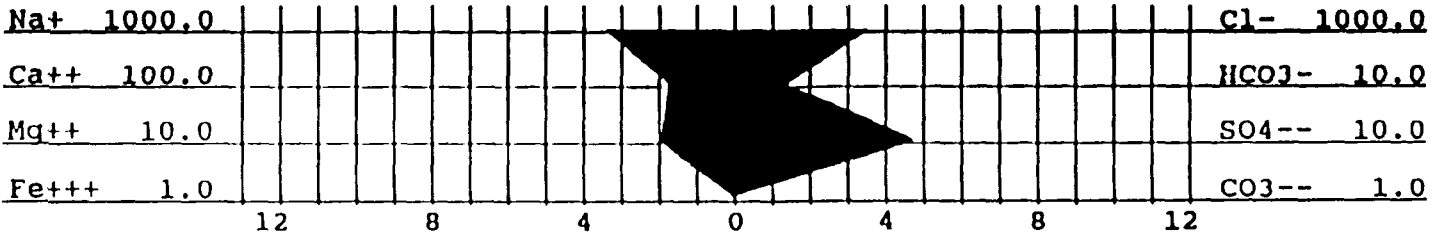
BAKER OIL TREATING
A Baker Hughes company

WATER ANALYSIS for CROSSTIMBERS

Date of Analysis:	JULY 11, 1991	Analysis #:	5408
Company:	CROSSTIMBERS	Company Address:	N/D
State:	N.M.	Field:	N/D
Lease:	COCKBURN US MINERAL	Well #:	# 2
Oil (bbl/day):	N/D	Water (bbl/day):	N/D
Type of Water:	PRODUCED	Temp.,C:	18
Sample Source:	WELLHEAD	Date of Sampling:	JULY 11, 1991
Representative:	JOHN COCKRUM	Analysis By:	CLYDE WILHOIT

WATER ANALYSIS PATTERN

(number beside ion symbol indicates me/l scale unit)



DISSOLVED SOLIDS

CATIONS	me/l	mg/l
Total Hardness :	200.00	
Calcium, (Ca++) :	180.00	3608.66
Magnesium, (Mg++):	20.00	243.03
Iron, (Fe+++) :	0.05	1.00
Barium, (Ba++) :	N/D	N/D
Sodium, Na+(calc):	3469.27	79793.24
Manganese, (Mn++):	0.00	0.00
ANIONS		
Chloride, Cl- :	3605.63	127995.38
Sulfate, SO4-- :	48.70	2340.00
Carbonate, CO3-- :	0.00	0.00
Bicarbonate,HCO3-:	15.00	915.19
Hydroxyl,OH- :	0.00	0.00
Sulfide, S-- :	0.00	0.00
TOTAL SOLIDS (quant.):		214896.50

DISSOLVED GASES

Hydrogen sulfide:	40.00	mg/l
Carbon dioxide :	126.72	mg/l
Oxygen :	N/D	mg/l

PHYSICAL PROPERTIES

pH :	6.75
Spec Grav. :	1.150
TDS (calc.) :	214911.50

SCALE STABILITIES

Temp.,C	CaCO3	CaSO4	BaSO4
18.0	N/D	4547	0
28.0	N/D	4826	0
38.0	N/D	5341	0
Max entity, (calc.)		3545	0

RESIDUAL HYDROCARBONS: N/D

N/D = not determined

@ 20'C...Calcium sulfate scaling is unlikely.

@ 20'C...Slightly corrosive.

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BAKER OIL TREATING
A Baker Hughes company

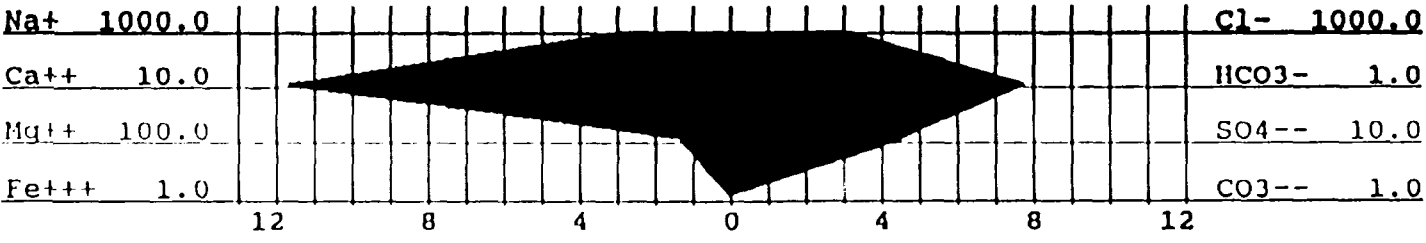
WATER ANALYSIS for CROSSTIMBERS

REC'D. / MIDLAND
AUG - 6 1991

Date of Analysis:	JULY 11, 1991	**Analysis #:**	5407
Company:	CROSSTIMBERS	**Company Address:**	N/D
State:	N.M.	**Field:**	
Lease:	COCKBURN US MINERAL	**Well #:**	# 1
Oil (bbl/day):	N/D	**Water (bbl/day):**	N/D
Type of Water:	PRODUCED	**Temp.,C:**	15
Sample Source:	WELLHEAD	**Date of Sampling:**	JULY 11, 1991
Representative:	STEVE STROUD	**Analysis By:**	CLYDE WILHOIT

WATER ANALYSIS PATTERN

(number beside ion symbol indicates me/l scale unit)



DISSOLVED SOLIDS

CATIONS	me/l	mg/l
Total Hardness :	260.00	
Calcium, (Ca++) :	120.00	2405.77
Magnesium, (Mg++):	140.00	1701.20
Iron, (Fe+++) :	0.05	1.00
Barium, (Ba++) :	N/D	N/D
Sodium, Na+(calc):	3118.71	71730.31
Manganese, (Mn++):	0.00	0.00
ANIONS		
Chloride, Cl- :	3323.94	117995.73
Sulfate, SO4-- :	46.82	2250.00
Carbonate, CO3-- :	0.00	0.00
Bicarbonate,HCO3-:	8.00	488.10
Hydroxyl,OH- :	0.00	0.00
Sulfide, S-- :	0.00	0.00
TOTAL SOLIDS (quant.):		196572.10

DISSOLVED GASES

Hydrogen sulfide:	50.00	mg/l
Carbon dioxide :	87.12	mg/l
Oxygen :	N/D	mg/l

PHYSICAL PROPERTIES

pH :	6.60
Spec Grav. :	1.140
TDS (calc.) :	196580.13

SCALE STABILITIES

Temp.,C	CaCO3	CaSO4	BaSO4
15.0	0.24	5791	0
25.0	0.42	6088	0
35.0	0.65	6488	0
Max entity, (calc.)		3389	0

RESIDUAL HYDROCARBONS: N/D

N/D = not determined

@ 20'C...Calcium sulfate scaling is unlikely.

@ 20'C...Moderately corrosive.

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BAKER
Performance Chemicals
WATER ANALYSIS REPORT

Lab ID No. : 012791.002 Analysis Date: January 29, 1992

Company	: Cross Timbers	Sampled By	: J. L. Enriquez
Field	:	Sample Date	: 8-December-1991
Lease/Unit	: SEMGSAU	Salesperson	: Clyde Wilhoit
Well ID.	: Fresh Water	Formation	: San Andres
Sample Loc.	: Water Tank Inlet	Location	: Lovington, N. M.

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
Calcium as Ca++	54	3	Hydroxyl as OH-	0	0
Magnesium as Mg++	17	1	Carbonate as CO3=	0	0
Sodium as Na+ (Calc)	28	1	Bicarbonate as HCO3-	195	3
Barium as Ba++	Not Determined		Sulfate as SO4=	34	1
Oil Content	0		Chloride as Cl-	50	1

Total Dissolved Solids, Calculated: 378 mg/L.

Calculated Resistivity: 0.213 ohm-meters
mg/L. Hydrogen Sulfide: 0
mg/L. Carbon Dioxide: 8
mg/L. Dissolved Oxygen: 5.5

pH: 8.300
Specific Gravity 60/60 F.: 0.998
Saturation Index @ 80 F.: -0.404
@ 140 F.: +0.496

Total Hardness: 205 mg/L. as CaCO3
Total Iron: 0.05 mg/L. as Fe++

Calcium Sulfate Scaling Potential
Not Present

Estimated Temperature of Calcium Carbonate Instability is 105 F.

PROBABLE MINERAL COMPOSITION

COMPOUND	MG/L	MEQ/L
Ca(HCO3)2	220	2.7
CaSO4	0	0.0
CaCl2	0	0.0
Mg(HCO3)2	35	0.5
MgSO4	43	0.7
MgCl2	9	0.2
NaHCO3	0	0.0
Na2SO4	0	0.0
NaCl	71	1.2

Analyst 10:44 AM

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.

BAKER
Performance Chemicals
WATER ANALYSIS REPORT

Lab ID No. : 012791.001 Analysis Date: January 29, 1992

Company	: Cross Timbers	Sampled By	: J. L. Enriquez
Field	:	Sample Date	: 8-December-1991
Lease/Unit	: SEMGSAU	Salesperson	: Clyde Wilhoit
Well ID.	: Injection Pump	Formation	: San Andres
Sample Loc.	: Pump Suction	Location	: Lovington, N. M.

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
Calcium as Ca++	2,473	124	Hydroxyl as OH-	0	0
Magnesium as Mg++	2,038	167	Carbonate as CO3=	0	0
Sodium as Na+ (Calc)	39,855	1,733	Bicarbonate as HCO3-	804	13
Barium as Ba++	Not Determined		Sulfate as SO4=	3,100	65
Oil Content	117		Chloride as Cl-	68,984	1,946

Total Dissolved Solids, Calculated: 117,255 mg/L.

Calculated Resistivity: 0.101 ohm-meters
mg/L. Hydrogen Sulfide: 75
mg/L. Carbon Dioxide: 140
mg/L. Dissolved Oxygen: 0.005

pH: 6.810
Specific Gravity 60/60 F.: 1.081
Saturation Index @ 80 F.: +0.274
@ 140 F.: +1.199

Total Hardness: 14,555 mg/L. as CaCO3
Total Iron: 8.00 mg/L. as Fe++

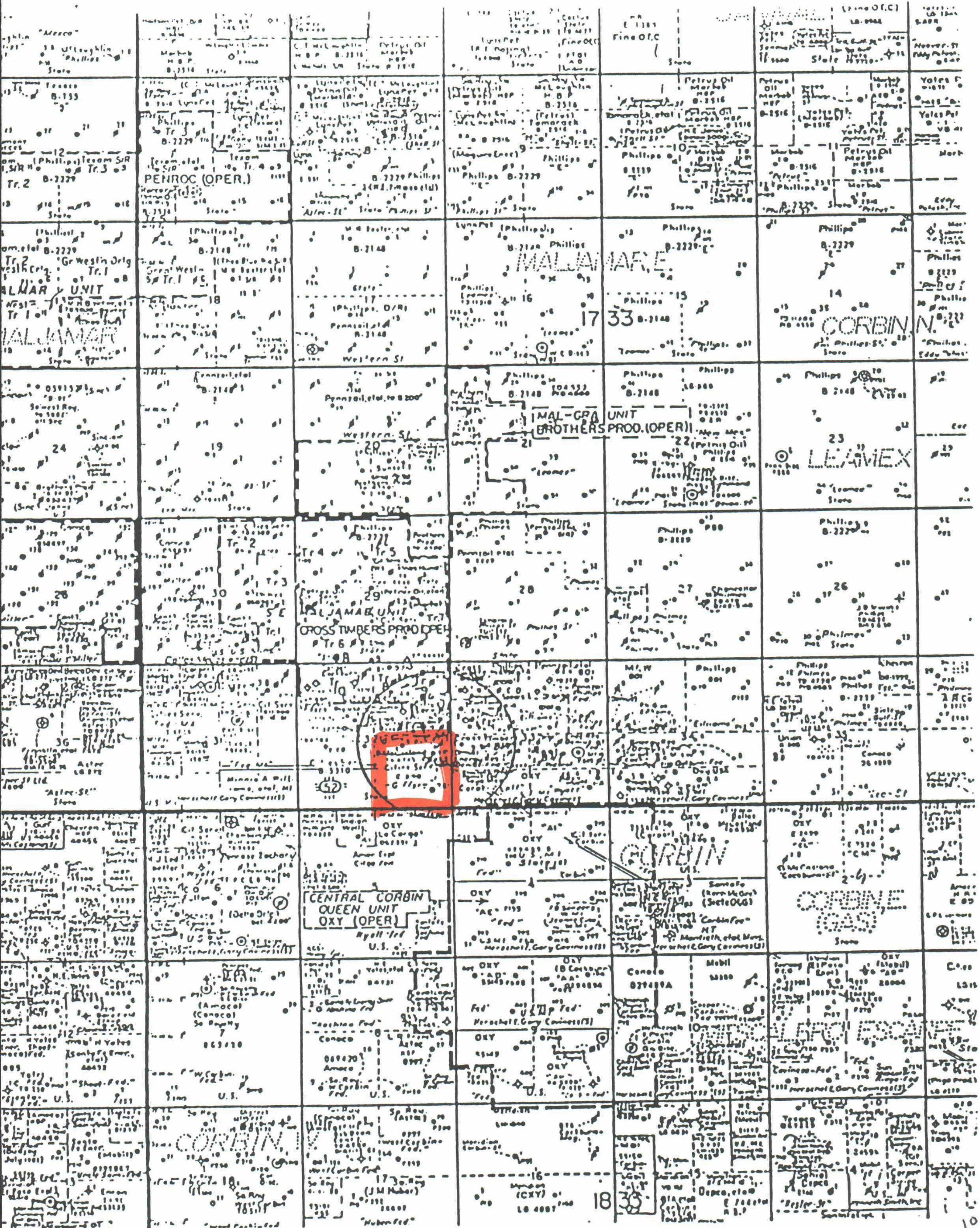
Calcium Sulfate Scaling Potential
Marginal

Estimated Temperature of Calcium
Carbonate Instability is
65 F.

PROBABLE MINERAL COMPOSITION

COMPOUND	MG/L	MEQ/L
Ca(HCO3)2	1,068	13.2
CaSO4	4,396	64.6
CaCl2	2,547	45.9
Mg(HCO3)2	0	0.0
MgSO4	0	0.0
MgCl2	7,956	167.1
NaHCO3	0	0.0
Na2SO4	0	0.0
NaCl	101,302	1,732.8

Analyst 10:43 AM


PENROC (OPER.)
MALJAMAR E.
17 33
CORBIN N.
MALJAMAR
MAL-GRA UNIT
BROTHERS PROD. (OPER.)
LEAMEX
MALJAMAR UNIT
CROSS TIMBERS PROD. (OPER.)
CORBIN
CENTRAL CORBIN
QUEEN UNIT
OXY (OPER)
CORBIN GAS
CORBIN W.
18 33

WELLS WITHIN STATE BY WELL NO. 6 AREA OF REVIEW

OPERATOR	:CITIES SERVICE(ORIG CARPER DRLG CO)	CITIES SERVICE	CITIES SERVICE	BARNEY COCKBURN
WELL NAME	:OHIO STATE "A" #6(OHIO-STATE #6)	STATE CB #2	STATE "CB" #5	WYATT-PHILLIPS #2
LOCATION	:2310 FNL & 330' FEL SEC 32, T17S, R33E	2310' FNL & 1700' FEL SEC 32, T17S, R33E	1650' FNL & 1650' FEL SEC 32, T17S, R33E	1980' FNL & 460' FWL SEC 33, T17S, R33E
WELL TYPE	:OIL	OIL	DRY HOLE	DRY 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" @ 1,430' W/50 SX
TOP OF CEMENT	:1240'	SURFACE		
INTERMEDIATE CASING	:	8 5/8" @ 2897' W/ 500 SX.	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" 20# @ 3,912'W/ 100 SX.	7" @ 3,649' W/310 SX.
TOP OF CEMENT	:2660'	5515'	2916'	
LINER	:			
DATE DRILLED	:11/53	9/65	7/49	11/51
TOTAL DEPTH	:3,769'	8,780'	4500'	3,765'
COMPLETION INTERVAL	:3,735'-3,769' (OH)	8,750'-58' (PERFS)		3,649'-3,765'
				NO RECORD OF WELL @ NMOC
PLUGGING PROCEDURE	CIBP @ 3700' 5 SX. @ 3700'-3660' CUT OFF 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 OFF @ 3,068'. 50 SX. 3219'-3019' 75 SX. 3019'-2719' CUT OFF 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. 6 AREA OF REVIEW

OPERATOR	:CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING CO
WELL NAME	:DENIUS FEDERAL #9	DENIUS FEDERAL #10	STATE "BY" #3	STATE "BY" #5
LOCATION	:2310' FSL & 940' FWL SEC 33, T-17-S, R-33-E	2310' FSL & 2117' FWL SEC 33, T-17-S, R-33-E	1980' FSL & 660' FEL SEC 32, T-17-S, R-33-E	2310' FSL, 1650' FEL SEC 32, T17S, R33E
WELL TYPE	:OIL	OIL	OIL	OIL
STATUS	:ACTIVE	PLUGGED	ACTIVE	SI
SURFACE CASING	:8 5/8" 24# @ 326' W/ 200 SX.	11 3/4" @ 314' W/ 275 SX.	8 5/8" 24# @ 1370' W/ 50 SX.	8 5/8" 24# @ 1334' W/ 50 S
TOP OF CEMENT	:SURFACE (CIRC.)	SURFACE (CIRC.)	1290'	1254' (CALC)
INTERMEDIATE CASING	:			
TOP OF CEMENT	:			
PRODUCTION CASING	:4 1/2" 10.5# @ 4750' W/ 850 SX.	4 1/2" 10.5# @ 4710' W/ 1200 SX.	7" 20# @ 3813' W/ 100 SX.	7" 20# @ 3797' W/ 100 SX.
TOP OF CEMENT	:1286' (CALC)	74' (CALC)	2570'	3364' (CALC)
LINER	:			5 1/2" 14# 3700'-4701' W/
DATE DRILLED	:8/61	2/62	12/52	11/53 (DEEPENED 11/61)
TOTAL DEPTH	:4750'	4750'	4715' (PB TO 3940')	4701'
COMPLETION INTERVAL	:4612'-4630'	4659'-4667'	3813'-3940' (OPEN HOLE)	4568'-4680'
PLUGGING PROCEDURE		CIBP @ 4575' W/ 14SX. PERF @ 1400'. SQZ W/ 50 SX. PERF @ 350'. SQZ W/ 50 SX. 50'. SURF. PLUG DRY HOLE MARKER P&A'D 5/12/90		

WELLS WITHIN STATE BY WELL NO. 6 AREA OF REVIEW

OPERATOR	:CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY
WELL NAME	:STATE "BY" #7	SMGSAU #707	SMGSAU #904	SMGSAU #905
LOCATION	:660' FSL, 660' FEL	100' FSL & 1430' FEL	660' FNL & 660' FEL	1650' FNL & 330' FEL
	SEC 32, T-17-S, R-33-E	SEC 29, T17S, R33E	SEC 32, T17S, R33E	SEC 32, T17S, R33E
WELL TYPE	:OIL	DRY HOLE	OIL	OIL
STATUS	:ACTIVE	PLUGGED	PLUGGED	ACTIVE
SURFACE CASING	:8 5/8" @ 1383' W/ 700 SX.	8-5/8" 24# @ 810' W/350 SX.	9-5/3" @ 1,300'.	8-5/8" 24# @ 1,346' W/50 SX.
TOP OF CEMENT	:SURFACE	SURFACE		1260'
INTERMEDIATE CASING	:			
TOP OF CEMENT	:			
PRODUCTION CASING	:5 1/2" @ 4767' W/ 800 SX.	5-1/2" 14# @ 4,429' W/435 SX.	7" @ 3,943'.	7" 20# @ 3,523' W/50 SX.
TOP OF CEMENT	:SURFACE (CIRC. 50 SX)	1740'		2900'
LINER	:			4-1/2" 9.5# @ 4,474' W/50 SX.
DATE DRILLED	:12/79	11/72	7/46	9/50
TOTAL DEPTH	:4775'	4,430'	4,306' (PBTD 4,266')	4,476'
COMPLETION INTERVAL	:2702'-4150'	4,272'-4,284' (PERF)	3,943'-4,266' (OH)	4,298'-4,407' (PERF)
PLUGGING PROCEDURE		CIBP @ 4207' W/ 5 SX CUT OFF 5 1/2" CSG @ 1738' 25 SX @ 1788'-1688' 40 SX @ 1380'-1280' 30 SX 840'-740' 10 SX @ 30'-SURF DRY HOLE MARKER P&A'D 7/73	CIBP @ 3,891' W/9 SX CMT (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.	

WELLS WITHIN STATE BY WELL NO. 6 AREA OF REVIEW

OPERATOR	:CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY	CROSS TIMBERS OPERATING COMPANY
WELL NAME	:SMGSAU #906	SMGSAU #907	U.S. MINERALS #1	U.S. MINERALS #2
LOCATION	:1200' FNL & 950' FEL SEC 32, T17S, R33E	2310' FNL & 990' FEL SEC 32, T17S, R33E	990' FNL, 330'FWL SEC 33. T-17-S, R-33-E	990' FNL, 990'FWL SEC 33, T-17-S, R-33-E
WELL TYPE	:OIL	INJECTION	OIL	OIL
STATUS	:ACTIVE	ACTIVE	ACTIVE	ACTIVE
SURFACE CASING	:8-5/8" 24# @ 306' W/250 SX.	8-5/8" 24# @ 338' W/200 SX.	7" 20# @ 1427' W/ 50 SX.	8 5/8" 28# @ 1305' W/ 50 SX.
TOP OF CEMENT	:SURFACE (CIRC.)	SURFACE (CIRC.)	1365'	1225'
INTERMEDIATE CASING	:			
TOP OF CEMENT	:			
PRODUCTION CASING	:5 1/2" 17# @ 4545' W/ 1300 SX.	5 1/2" 15.5# & 17# @ 4600' W/ 1450 SX.	5 1/2" 14# @ 4278' W/ 100 SX.	7" 20# @ 4104' W/ 100 SX.
TOP OF CEMENT	:SURFACE (CIRC.)	SURFACE (CIRC.)	3770'	2860'
LINER	:			
DATE DRILLED	:12/91	12/91	9/53	7/53
TOTAL DEPTH	:4545'	4600'	4293'	4302'
COMPLETION INTERVAL	:4270'-4460'	4316'-4457'	4278'-4293'(OPEN HOLE)	4104'-4302' (OPEN HOLE)

PLUGGING PROCEDURE

3

WELLS WITHIN STATE BY WELL NO. 6 AREA OF REVIEW

OPERATOR	:H. R. DENIUS	H. R. DENIUS	JAMES P. DUNIGAN	OXY USA, INC.
WELL NAME	:COCKBURN-FEDERAL #5	COCKBURN-FEDERAL #9	COCKBURN #1	COCKBURN STATE "A" #4
LOCATION	:2310' FSL, 330' FWL SEC 33, T17S, R33E	2264' FSL, 990' FWL SEC 33, T17S, R33E	990' FNL & 430' FWL SEC 33, T17S, R33E	1980' FEL & 990' FNL SEC 32, T-17-S, R-33-E
WELL TYPE	:OIL	OIL	DRY HOLE	OIL
STATUS	:P&A	P&A	PLUGGED	ACTIVE
SURFACE CASING	:8 5/8" 24# @ 1380' W/ 50 SX.	8-5/8" @ 226' W/75SX	13-3/8" @ 308' W/340 SX.	13 3/8" @ 334' W/ 320 SX
TOP OF CEMENT	:1300' (CALC)	31' (CALC)	SURFACE	SURFACE
INTERMEDIATE CASING	:		8-5/8" @ 4,557' W/1950 SX.	8 5/8" @2899' W/ 500 SX.
TOP OF CEMENT	:		1400'	2100'
PRODUCTION CASING	:5 1/2" 14# @ 3880' W/ 100 SX.	5-1/2" @ 3845' W/300SX	NONE	4 1/2" @ 8819' W/700 SX.
TOP OF CEMENT	:3372' (CALC)	2321' (CALC)		6085'
LINER	:			
DATE DRILLED	:11/53	2/60	4/61	3/66
TOTAL DEPTH	:3880'	3854'	8,940'	8820'
COMPLETION INTERVAL	:3840'-3862'	3806'-28'	NONE	8632'-8695'
PLUGGING PROCEDURE	100' PLUG @ 3865'-3765' CUT OFF 5 1/2" @ 2396' 100' PLUG @ 2400'-2300' 100' PLUG @ 1430'-1330' CUT OFF 8 5/8" @ 454' 60' PLUG @ 270'-210' 15' SURF PLUG P&A 6/16/61	100' PLUG 3460'-3360' CUT OFF 5 1/2" @ 2110' 100' PLUG 2110'-2020' 100' PLUG 1370'-1270' 10' SURFACE PLUG P&A 6/16/61	CUT OFF 8 5/8" @ 1400' 30 SX. @ 1400' 30 SX @ 308' 10 SX. @ SURFACE	

WELLS WITHIN STATE BY WELL NO. 6 AREA OF REVIEW

OPERATOR	:OXY USA, INC.	OXY USA, INC.	OXY USA, INC	OXY USA, INC.
WELL NAME	:GIFFORD STATE "A" #1	STATE "CB" #1	OHIO STATE "C" #1	STATE CD #1
LOCATION	:330' FEL & 2310' FSL SEC 32, T-17-S, R-33-E	2310' FNL, 2310' FEL SEC 32, T-17-S, R-33-E	1980' FNL & 330' FEL SEC 32, T-17-S, R-33-E	2310' FSL, 2310' FWL SEC 32, T17S, R33E
WELL TYPE	:OIL	OIL	OIL	OIL
STATUS	:ACTIVE	ACTIVE	ACTIVE	ACTIVE
SURFACE CASING	:11 3/4" 28# @ 314' W/ 225 SX.	8 5/8" @ 329' W/ 300 SX.	13 3/8" @ 311' W/ 340 SX.	8 5/8" 24# @ 319' W/ 320 SX.
TOP OF CEMENT	:SURFACE	SURFACE	SURFACE	SURF (CIRC)
INTERMEDIATE CASING	:8 5/8" 24# & 32# @ 2915' W/ 250 SX.		8 5/8" @ 3168' W/ 800 SX.	
TOP OF CEMENT	:2180'		820'	
PRODUCTION CASING	:4 1/2" 10.5# & 11.6# @ 8829' W/ 1500 SX.	4 1/2" @ 4810' W/ 250 SX.	4 1/2" 11.6# @ 8825' W/ 1600 SX.	4 1/2" 10.5# @ 4954' W/ 250
TOP OF CEMENT	:3030'	3845'	2645	3930' (CALC)
LINER	:			
DATE DRILLED	:9/61	12/61	11/60	1/62
TOTAL DEPTH	:8829'	4810	8828'	4955'
COMPLETION INTERVAL	:8561'-8586' & 8594'-8644' (PERF)	4345'-4492' (PERF)	8615'-8650' (PERF)	4512'-4604'

PLUGGING PROCEDURE

6

WELLS WITHIN STATE BY WELL NO. 6 AREA OF REVIEW

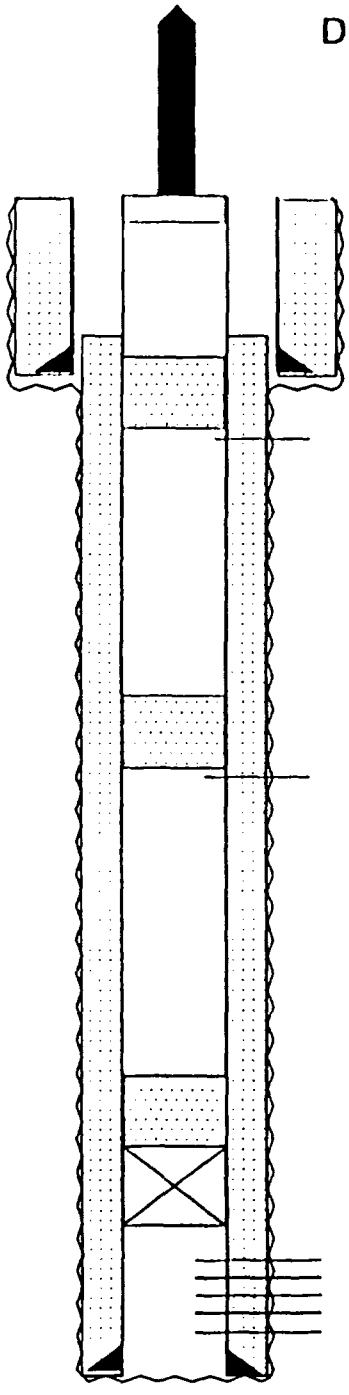
OPERATOR	:PHILLIPS PETROLEUM COMPANY	PHILLIPS PETROLEUM CO.	PHILLIPS PETROLEUM CO.	L.B. SIMMONS ENERGY
WELL NAME	:EILLIAMS #6	WYATT "A" FEDERAL #3	WYATT "A" FEDERAL #13	DENIUS FEDERAL #6
LOCATION	:2311' FNL & 659' FWL SEC 33, T17S, R33E	1650' FNL & 330' FWL SEC 33, T-17-S, R-33-E	1980' FNL, 660' FWL SEC 33, T-17-S, R-33-E	2310' FSL, 990' FWL SEC 33, T17S, R33E
WELL TYPE	:OIL	OIL	OIL	OIL
STATUS	:ACTIVE ABO	ACTIVE	ACTIVE	ACTIVE
SURFACE CASING	:13-3/8" @ 320' W/350 SX.	7" @ 1318' W/ 50 SX.	10" 34# @ 20' W/ 5 SX.	13-3/8" @ 315' W/325SX
TOP OF CEMENT	:SURFACE	1260	SURFACE	SURF
INTERMEDIATE CASING	:8-5/8" @ 4,589' W/700 SX.			8-5/8" @ 2962' W/1050SX
TOP OF CEMENT	:2530			1283' (CALC)
PRODUCTION CASING	:5-1/2" @ 8,788' W/361 SX.	5 1/2" @ 3718' W/ 50 SX.	7" 20# @ 3995' W/ 100 SX.	4-1/2" @ 8809' W/1510SX
TOP OF CEMENT	:6950	3465	3625	3814' (CALC)
LINER	:	4" 11.43# @ 4430' W/ 400 SX.		
DATE DRILLED	:7/61	6/52	8/47	1/61
TOTAL DEPTH	:8,788'	4432'	4582'	8809'
COMPLETION INTERVAL	:8,562'-8,734' (PERFS)	4378'-4357, 4320'-4323' (PERF)	3995'-4582' (OPEN HOLE, PLUGGED) 3695'-3720' (PERFS)	8605'-60'

PLUGGING PROCEDURE

OPERATOR	:L.B. SIMMONS ENERGY
WELL NAME	:DENIUS FEDERAL #3
LOCATION	:1980' FSL, 1980' FWL SEC 33, T17S, R33E
WELL TYPE	:OIL
STATUS	:SI
SURFACE CASING	:13-3/8" @ 309' W/340SX
TOP OF CEMENT	:SURF
INTERMEDIATE CASING	:8-5/8" @ 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 @ 8660' W/ 25 SX) 8576'-8608'

PLUGGING PROCEDURE

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



DRY HOLE MARKER

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.

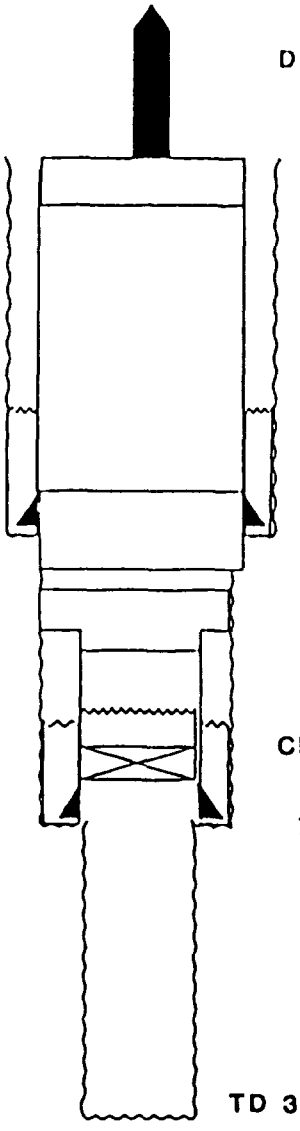
TAGGED TOP OF PLUG @ 1325'
PERF @ 1400' & SQZ W/ 50 SX.

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)



DRY HOLE MARKER

10 SX 30'-SURFACE

8 5/8" 24# CSG @ 1368'
60 SX 1425'-1300'

50 SX 1800'-1650'
CUT OFF 7" @ 1750'

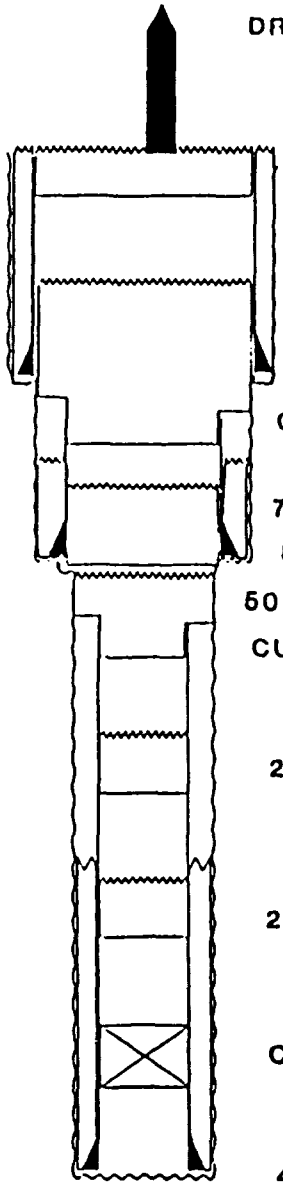
CIBP @ 3700' W/ 5 SX.

7" 20# CSG @ 3735'

TD 3769'

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

CITIES SERVICE
STATE "CB" #2



DRY HOLE MARKER

40 SX 56'-SURF.

120 SX 443'-143'.

13 3/8" • 331' W/ 250 SX.

CUT OFF 8 5/8" • 386'.

75 SX 3019'-2719'.

8 5/8" 24# • 2897' W/ 500 SX.

50 SX 3219'-3019'

CUT OFF 4 1/2" CSG • 3068'

25 SX 3993'-3743'

25 SX 8234'-5985'.

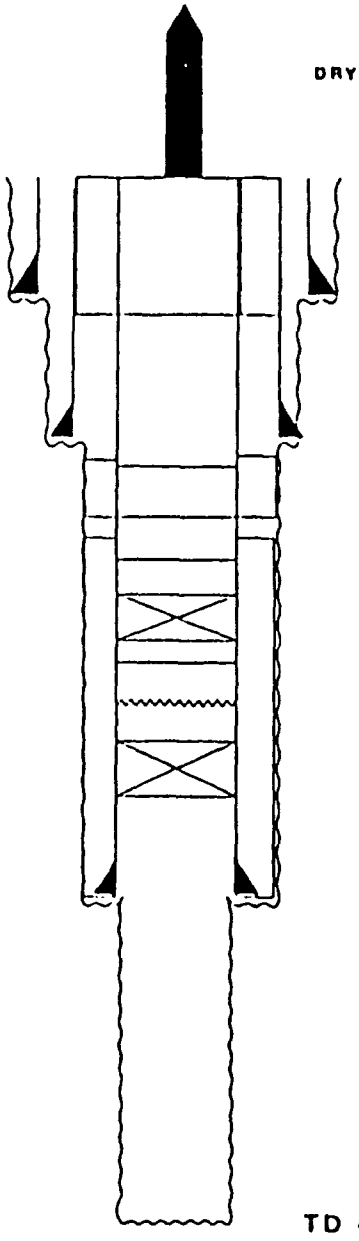
CIBP • 8630' W/ 5 SX.

PERFS 8750'-8758'

4 1/2" 11.6# • 8799' W/ 850 SX.

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

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



DRY HOLE MARKER

13 3/8" @ 205' W/ 0 SX.
PERF @ 260', SQZ W/ 375 SX.
CIRC. 6 SX TO SURF.

10 3/4" 34# CSG @ 856' W/ 0 SX.
TOC 926'

PERF @ 1160', SQZ W/ 600 SX.
DISPLACE TO 1050'
TOC 1260'

RETAINER @ 1306', SQZ W/ 600 SX.

CIBP @ 3476' W/ 7 SX.

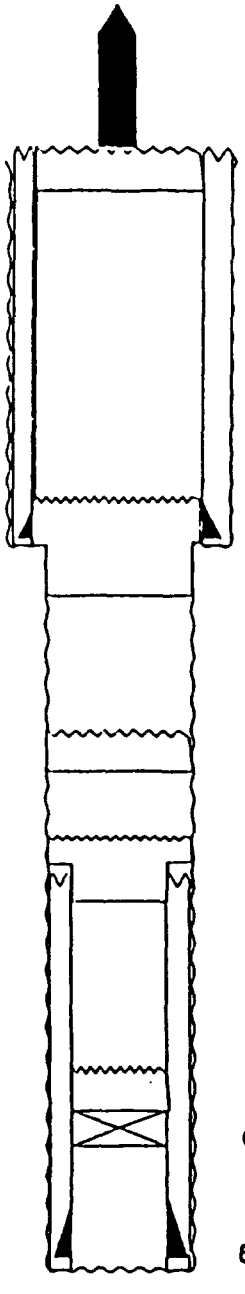
SQZ @ 3276' W/ 15 SX.
PERF 3685'-3700'

7" 20# CSG @ 3912' W/ 100 SX.

TD 4500'

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

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



DRY HOLE MARKER

10 SX 30'-SURF.

30 SX 840'-740'.

8 5/8" 24# @ 810' W/ 350 SX.
(CMT CIRC.)

40 SX 1380'-1280'

25 SX 1788'-1688'

CUT OFF 5 1/2" CSG @ 1738'
TOC 1740'

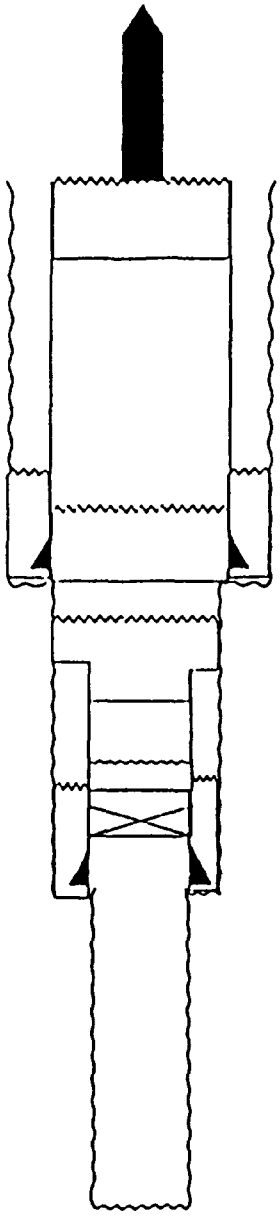
CIBP @ 4207' W/ 5 SX.

PERF 4272'-4360'

5 1/2" 14# @ 4430' W/ 435 SX.
TD 4430'

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

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



DRY HOLE MARKER

15 SX 30'-SURF.

45 SX 1350'-1250'.

9 5/8" @ 1300'

45 SX 2265'-2165'

CUT OFF 7" @ 2215'

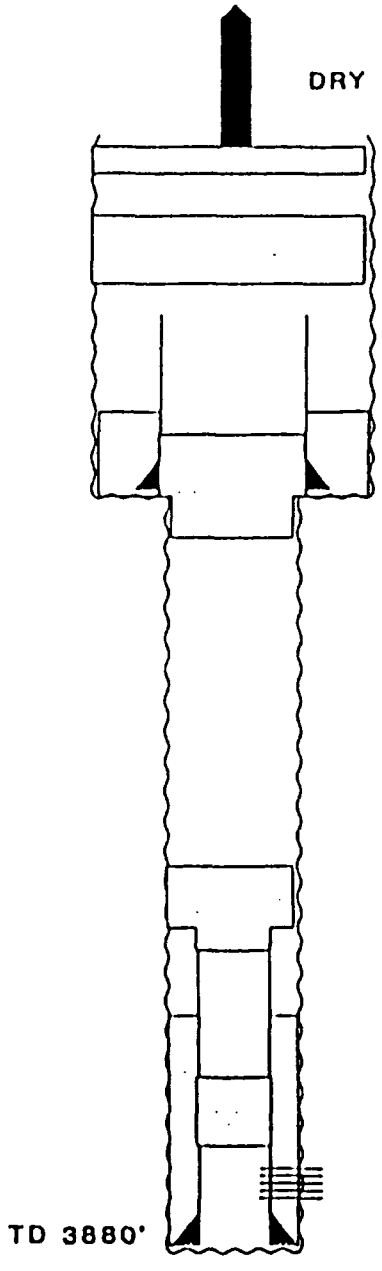
CIBP @ 3991' W/ 7 SX.

7" @ 3943'

TD 4306'

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

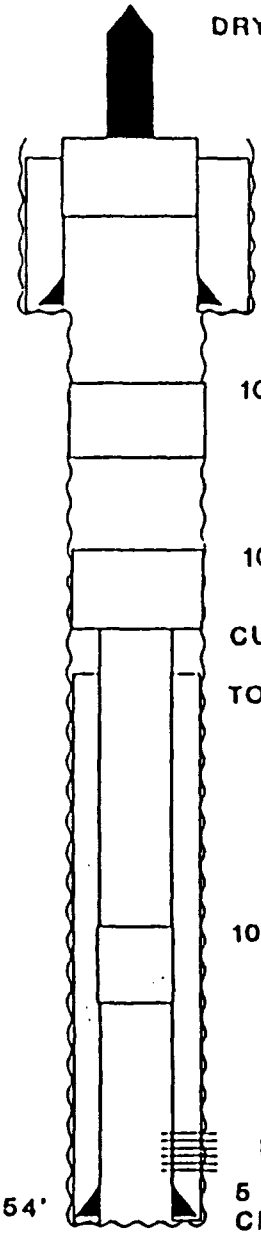
H.R. DENIUS
COCKBURN FEDERAL #5
(P&A 6/16/61)



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

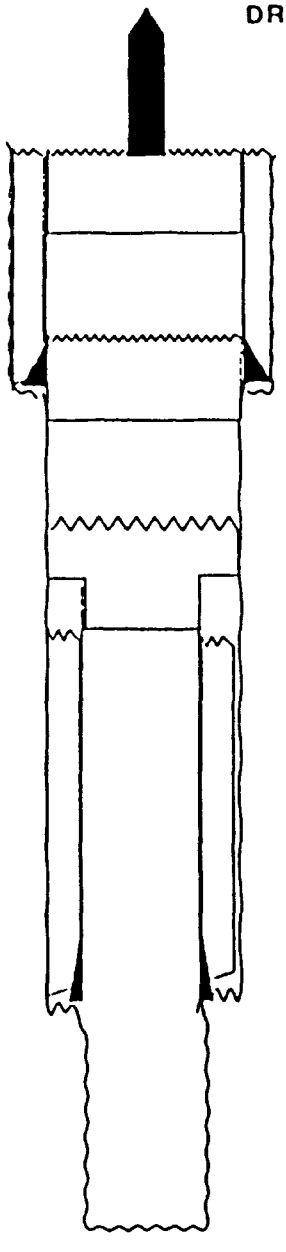
H.R. DENIUS
COCKBURN FEDERAL #9

(P&A 6/16/61)



2264' FSL, 990' FWL, SEC 33, T17S, R33E NMPM

JAMES P. DUNIGAN
COCKBURN #1



DRY HOLE MARKER

10 SX • SURF.

30 SX • 308'
13 3/8" • 308' W/ 340 SX.

30 SX • 1400'

CUT OFF 8 5/8" • 1400'

8 5/8" • 4557' W/ 1950 SX.

TD 8940'

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