STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

1-12-93

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:
MC
DHC
NSL
NSP
SWD X
WFX
PMX

Gentlemen:

I have examined the application for the:

Stanoil Co. State #1-I 10-10-32
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

ENERGY AND MINERALS DEPARTMENT

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

Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: STANOIL Company

Address: P.O. Box 56 Tatum NM 88267

Contact party: Stan Watson Phone: 505-398-3490

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: Stan Watson Title Owner

Signature: Stan Watson Date: 12-7-92

* 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.

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.

Form C-108

Application for Authorization to Inject

STANOil Company

III. A

1. STANOil Company
   State #1 Unit I. Sec 10 T 10 R 32 E
   330/FEL 1650/FSL Lea Co., NM.

2. 8 5/8" 24# CSG set at 391' cement
   circ. to surface.
   4 1/2" 9.5# CSG set at 4184' with
   200 sx calc. back to 3199'

3. Plan to run 2 3/8" plastic lined tubing
   set at approx. 4115'.

4. Plan to run a Baker Tension Packer
   and set at approx. 4115'.

III. B

1. San Andres formation Mescalero Field

2. The injection interval will be through
   the perforations from 4124' to 4172'.

3. Well was originally drilled as an oil
   well in the San Andres formation.

4. None

5. The upper formation is the Yates at 2240'.
   The next lower formation is the Glorieta at 4844'.
   Both zones none productive in the area.

PART V. Attached

PART VI. Attached

PART VII.

1. The average rate of injection will be approx. 400 BBls per day with a max of 600 BBls. per day.

2. The system will be closed.

3. The average pressure will be 400 to 600 psi with a maximum of 1000 psi or not to exceed OCD limit.

4. The source of water will be from San Andres production in the area. Tipton Oil - Penroc - Claremont Oil.

5. Waters from the San Andres Formation Range in chloride content 162,000 ppm as per previous analysis.

PART VIII. Attached

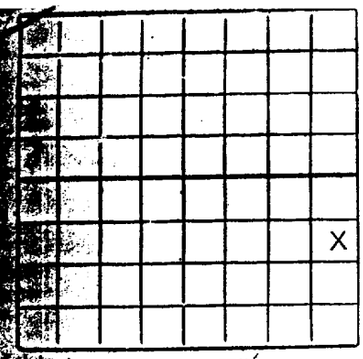
PART I X. No major stimulation is proposed, only acid is needed.

PART X. Previously Submitted.

PART XI. Attached

PART XII. All available geologic and engineering data has been examined and no evidence of open faults or any other hydrolic connection between the injection zone and underground source of drinking water was found.

PART XIII. Attached



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONS. .VATION COMMISSION
Santa Fe, New Mexico

O. C. C.
MAR 3 AM '66

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was [illegible] later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

Arno R. Dalby (Company or Operator) State (Lease)

Well No. 1, in NE ¼ of SE ¼, of Sec. 10, T. 10, R. 32, NMPM.

Mescelero (SA) Pool, Lea County.

Well is 330 feet from East line and 1650 feet from South line of Section 10. If State Land the Oil and Gas Lease No. is K-117

Drilling Commenced December 11, 19 65 Drilling was Completed December 22, 19 65

Name of Drilling Contractor Verna Drilling Company

Address Levelland, Texas

Elevation above sea level at Top of Tubing Head n 4322 The information given is to be kept confidential until March 6, 19 66

OIL SANDS OR ZONES

No. 1, from 4122 to 4150 No. 4, from ____ to ____

No. 2, from ____ to ____ No. 5, from ____ to ____

No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from None to ____ feet. ____

No. 2, from ____ to ____ feet. ____

No. 3, from ____ to ____ feet. ____

No. 4, from ____ to ____ feet. ____

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8 5/8	24#	New	391	Texas	----	--------	--------
4 1/2	9.5#	"			----	4124, 4138	--------
						4142, 4150	

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
12 3/8	8 5/8	391	250	Pump truck	Surface	----------
7 7/8	4 1/2	4184	200	" "	10.5	200 sacks

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Treated with 3,000 gallons of acid in the intervals of 4124, 4138, 4142, 4150 on hole per foot.

Result of Production Stimulation IP:P 42 BOPD & 158 BW

Depth Cleaned Out

DATA ON DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from Surface feet to 4184 feet, and from ---- feet to ---- feet.

Cable tools were used from ---- feet to ---- feet, and from ---- feet to ---- feet.

PRODUCTION

Put to Producing March 1, 66

OIL WELL: The production during the first 24 hours was 200 barrels of liquid of which 21 % was was oil; ---- % was emulsion; 79 % water; and ---- % was sediment. A.P.I. Gravity 21°

GAS WELL: The production during the first 24 hours was TSM M.C.F. plus ---- barrels of liquid Hydrocarbon. Shut in Pressure ----

Length of Time Shut in ----

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy 1560	T. Devonian	T. Ojo Alamo	
T. Salt 1628	T. Silurian	T. Kirtland-Fruitland	
B. Salt 2110	T. Montoya	T. Farmington	
T. Yates 2230	T. Simpson	T. Pictured Cliffs	
T. 7 Rivers ----	T. McKee	T. Menefee	
T. Queen ----	T. Ellenburger	T. Point Lookout	
T. Grayburg ----	T. Gr. Wash	T. Mancos	
T. San Andres 3430	T. Granite	T. Dakota	
T. Glorieta	T.	T. Morrison	
T. Drinkard	T.	T. Penn	
T. Tubbs	T.	T.	
T. Abo	T.	T.	
T. Penn	T.	T.	
T. Miss	T.	T.	

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	391	391	Surface				
391	1560	1169	Red Bed Sand				
1560	1620	60	Anhy				
1620	2230	610					
2230	3430	1200	Sand Red Bed Anhy				
3430	4184	754	Dolomite & Anhy.				

RECEIVED

APR 1 1966

O. C. C.

ARTESIA, N. M.

ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herein is complete and correct record of the well and all work done as can be determined from available records.

Company or Operator Arno R. Dalby

Name ----

c/o W. W. Ranck, 1502 Main

Title Agent

STATE LEASE WELL #1

LEA COUNTY, NEW MEXICO

WORKOVER REPORT

4/24/84

Perforated bottom zone at the following locations:
4156,4158,4167,4170, & 4172.
Two holes per foot. Ran TBG back in hole with PKR swinging
& Shut down for the day.

4/25/84

Treated well with 3500 gals of 15% HCL & an anti-scalant
mixed in the first 500 gal of acid.
Tried to load hole with H_2O and couldn't, so spotted
250 gals acid across all perforations, then pulled PKR
up to 4152' and set pkr.
Backside was on a vacuum when we started treatment.

Max treating pressure	1900
Min " "	400
ISIP " "	1050
3 min SIP	-0-
Max Rate	3.6 BBL/min
Min "	2.6 " "
Average	2.8 " "

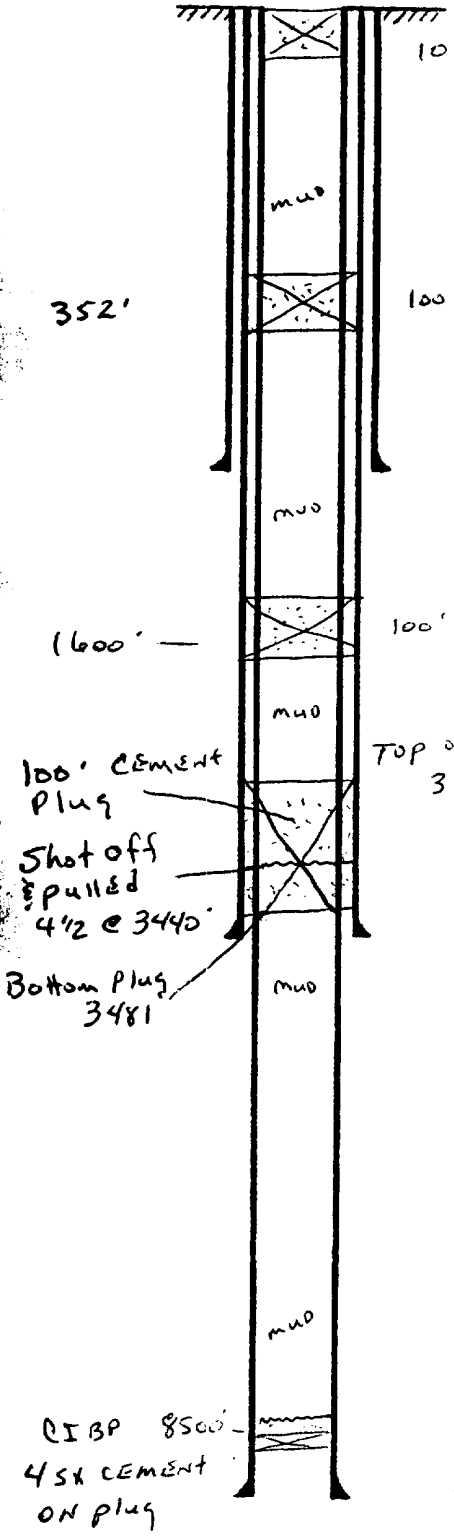
Dropped 2 salt blks 500#'s, 1st blk; 500#'s 2nd blk
Swabbed back approximately 75 bbls of load back.
Last run oil cut 5% or less
400' to 500' of fluid in the hole.

4/26/84

Pulled TBG & pkr, left hole and shut down because of high wind.

OPERATOR		DATE
The W.I.-Mc O.I Corp		12-2-92
LEASE	**WELL NO.**	**LOCATION**
White State	1	15·10·32 Unit A

PEA 10-29-73



13 3/8" casing set at 445' with 450 sx of NEAT cemen

Hole size 15"

8 5/8" casing set at 3516' with 500 sx of NEAT cement

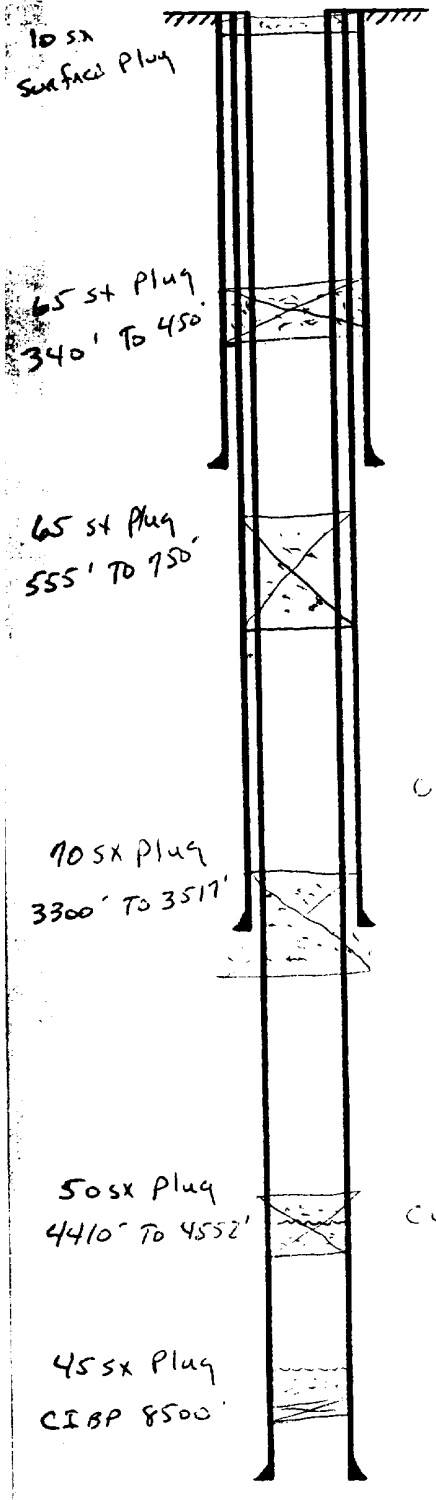
Hole size 9"

4½" casing set at 9084' with 560 sx of NEAT cemen

Total depth 9084' Hole size 7 7/8"

OPERATOR			DATE
SAGE ENERGY COMPANY			12-2-92
LEASE	WELL No.	LOCATION	
FINA STATE	1	10-10-32 UNIT I	

P+A 3-15-85



13 3/8 " casing set at 398 ' with 400 sx of Neat C cement

Hole size 15 "

Circulated

Casing Tested 750# 1-23-69

8 5/8 " casing set at 3467 ' with 3000 sx of Class C cement

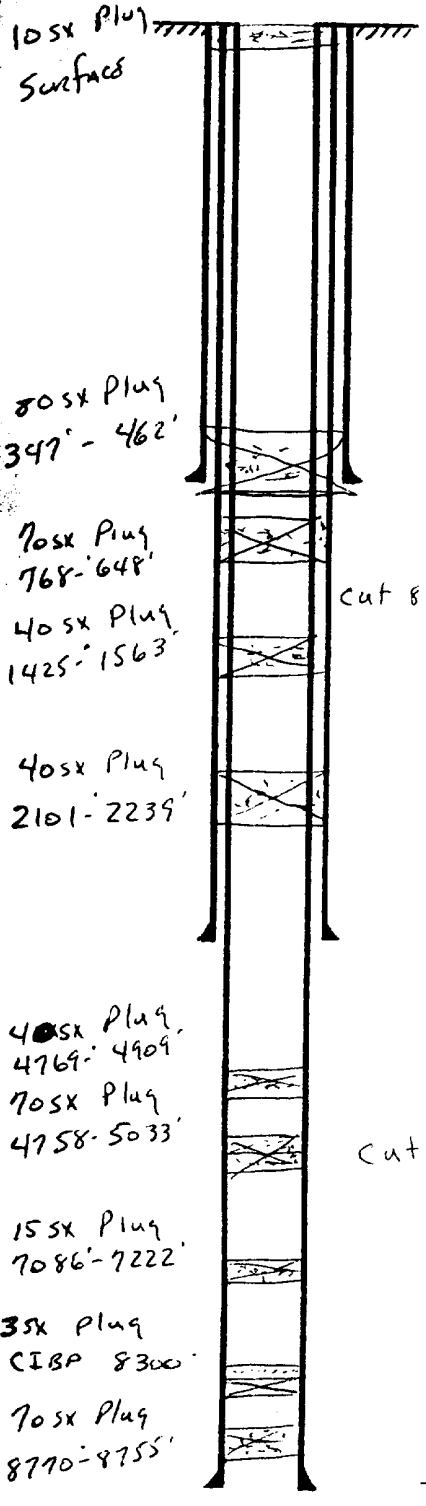
Hole size 11 "

5 1/2 " casing set at 9023 ' with 400 sx of Pozmix 29% cc cement

Total depth 9023 ' Hole size 7 7/8 "

OPERATOR	ARD Drilling Co.		DATE 12-2-92
LEASE STATE 10	WELL No. 1	LOCATION 10-10-32 unit P	

P&A 11-27-85



13 3/8 " casing set at 430 ' with 400 sx of Class C' cement

Hole size 17 1/2 " Circulated

cut 8 5/8 @ 742' Casing Tested 500# 3-10-76

8 5/8 " casing set at 3463' with 350 sx of Class C' cement

Hole size 11 "

Casing tested @ 500# 3-24-76

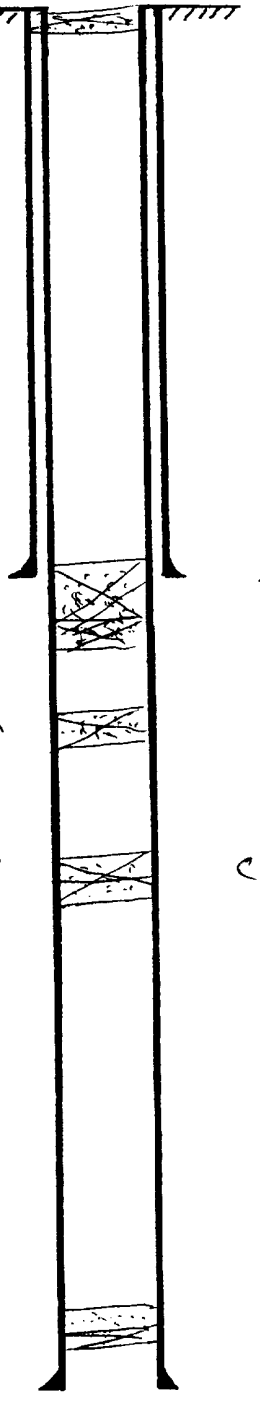
cut 5 1/2 @ 4983'

5 1/2 " casing set at 9052 with 800 sx of Class H' cement

Total depth 9052' Hole size 7 7/8 "

OPERATOR	Black Rock O.L Company		DATE 12-2-92
LEASE STATE K	WELL NO. 1	LOCATION 10-10-32	Unit J

P&A 3-29-95



10 sx plug
Surface

35sx Plug
450'

25 sx Plug
650'

35 sx Plug
1079'

4sx Plug
CIBP 4015'

8 5/8" casing set at 412' with 250 sx of Incor C cemen

Hole size 12 1/2"

Circulated

Casing test 1000# 6-6-68

Cut 4 1/2" casing @ 1079'

4 1/2" casing set at 4310' with 150 sx of Incor cem

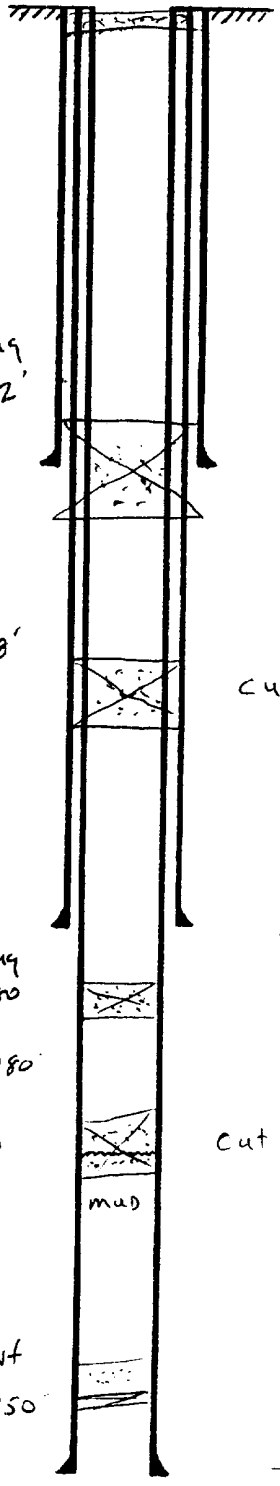
Total Depth 4311' Hole size 7 7/8"

Cement Top 3442'

Casing test 1000# 6-14-68

OPERATOR			DATE
GRACE Petroleum Co.			12-2-92
LEASE	**WELL No.**	**LOCATION**	
ZAPATA STATE	2	10-10-32 UNIT H	

P&A 12-13-78



12 3/4" casing set at 353' with 450 sx of NEAT C cement
Hole size 17 1/2"
Circulated cement
Also 1000# Test 10-8-74

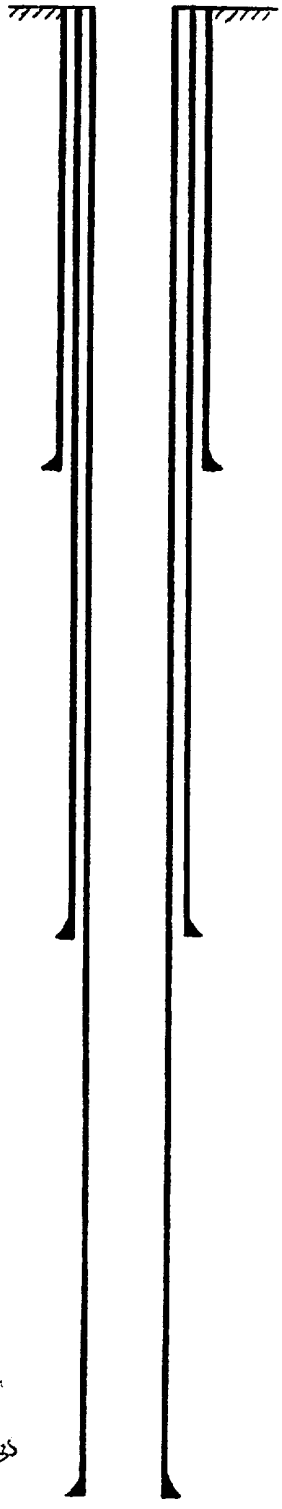
Cut 8 5/8 @ 838'

8 5/8' casing set at 3462' with 400 sx of Class H' cement
Hole size 11"
CASing tested @ 1000# 10-14-74

Cut 5 1/2 @ 5467'

5 1/2" casing set at 9019' with 400 sx of Pozmiz A C' cement
Total depth 7448' / 9019' Hole size 7 7/8"
CAS. g TESTED @ 1000# 11-8-74

OPERATOR			DATE
PENROC Oil Corp			12-2-92
LEASE	WELL No.	LOCATION	
STATE	2	11-10-32 UNIT K	



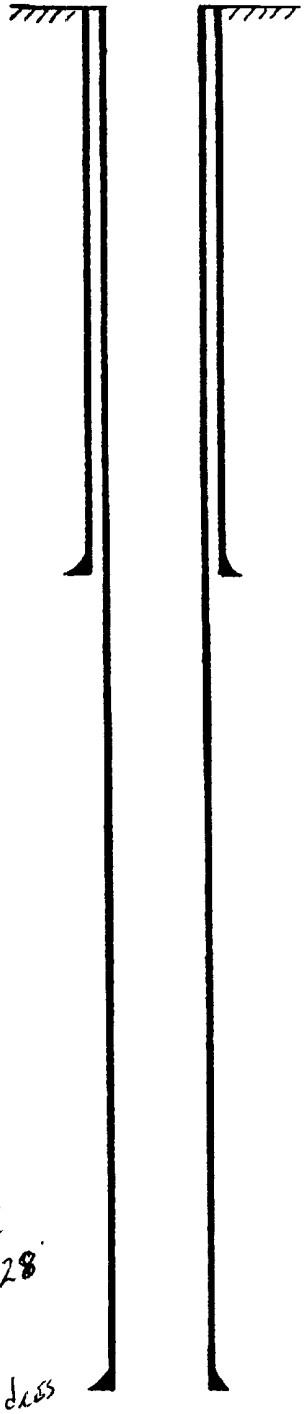
13 3/8 " casing set at 300 ' with 325 sx of Reg Neat cemen
Hole size 15 "
Circulated 4-10-60

8 5/8 " casing set at 3490 ' with 300 sx of Reg Neat cement
Hole size 11 "
CASING TESTED 1000# 4-17-60
CALC. T.O.C. 1840

PERFS @ 4120-28' SAN ANDRES

5 1/2 " casing set at 4275 ' with 250 sx of Incor Pozmix cement
Total depth 4282 ' Hole size 7 7/8 "
CALC. T.O.C. 2255

OPERATOR	PENROC Oil Corporation			DATE	12-2-92
LEASE	STATE	WELL No. 1	LOCATION	11-10-32	unit N



8 5/8 " casing set at 395 ' with 225 sx of Reg. ceme

Hole size 12 1/4 "

Circulated approx 25 sx
1-11-64

Perfs @
4118'-28'

San Andres

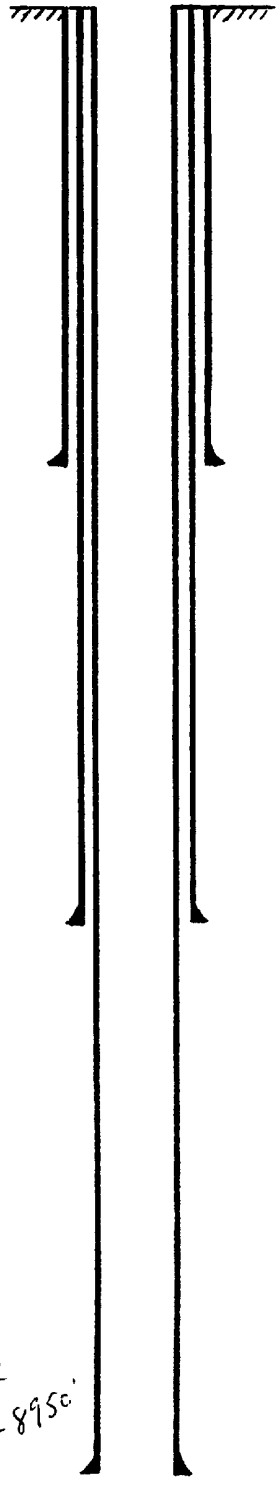
4 1/2 " casing set at 4335 ' with 200 sx of Incor Pozmix cem

Total Depth 4335 ' Hole size 7 7/8 "

Casing Tested 1000# 2-1-64

CALC. T.O.C. 3030

OPERATOR	Bison Petroleum Corp.			DATE	12-2-92
LEASE	STATE 11	WELL No. 1	LOCATION	11-10S2	Unit L



13 3/8 " casing set at 400 ' with 420 sx of Class C cement

Hole size 17 1/2 " Circulated

8 5/8 " casing set at 3420 ' with 320 sx of Class C cement

Hole size 11 "

Casing tested 1500# 12-9-75

Cement Top 2220' by Temp.

Perfs @ 8802'-8950'

Cisco

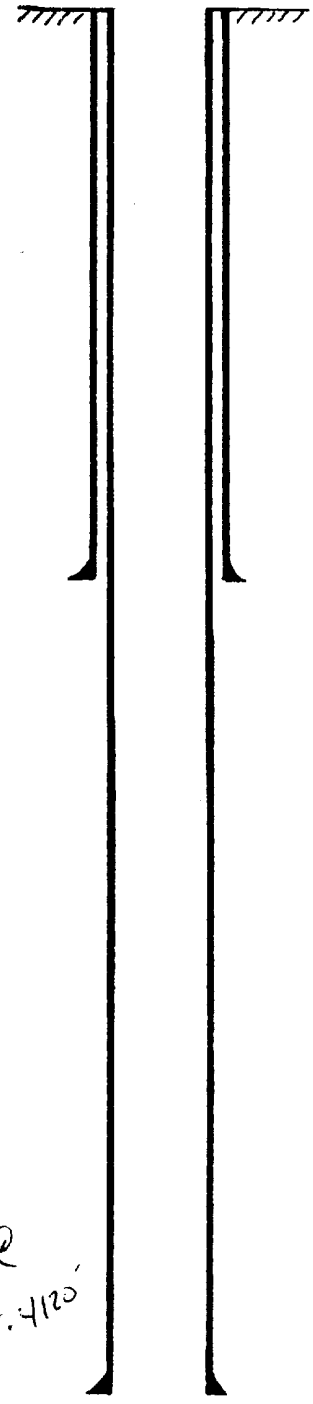
5 1/2 ' casing set at 9000 ' with 375 sx of Class C cement

Total depth 9000' Hole size 7 7/8 "

Csg. Tested 2000# Cement Top 7510' By Temp

CALC. TOC. 5962 1-6-95

OPERATOR			DATE
KERR McGEE CORP.			12-2-92
LEASE	WELL No.	LOCATION	
SUNRAY STATE	2	11-10-32	Unit L



8 5/8 " casing set at 352 ' with 250 sx of Reg cem

Hole size 11 " Csg Tested 1000# 6-16-64

Perfs @ 4083'-4120'

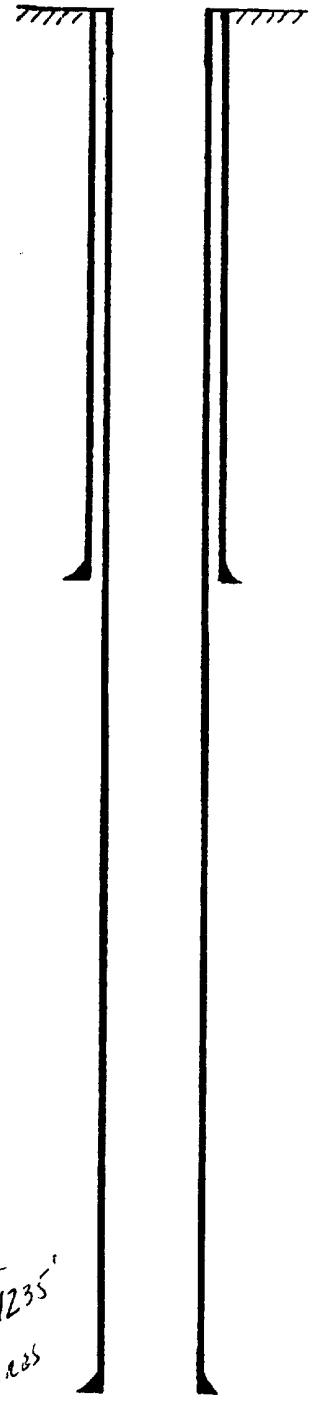
4 1/2 " casing set at 4247 ' with 75 sx of Class A cem

Total Depth 4247 ' Hole size 7 7/8 "

Csg Tested 1500# 7-5-64

T.O.C. 3759

OPERATOR			DATE
KERR-McGEE CORP.			12-2-92
LEASE	**WELL No.**	**LOCATION**	
SUNRAY STATE	1	11-10-32 UNIT M	



8 5/8 " casing set at 364 ' with 250 sx of Reg ceme

Hole size 12 1/4 "

CIRCulated to surface

CASing TESted 1000# 12-15-63

Perfs @ 4152-4235' San Andres

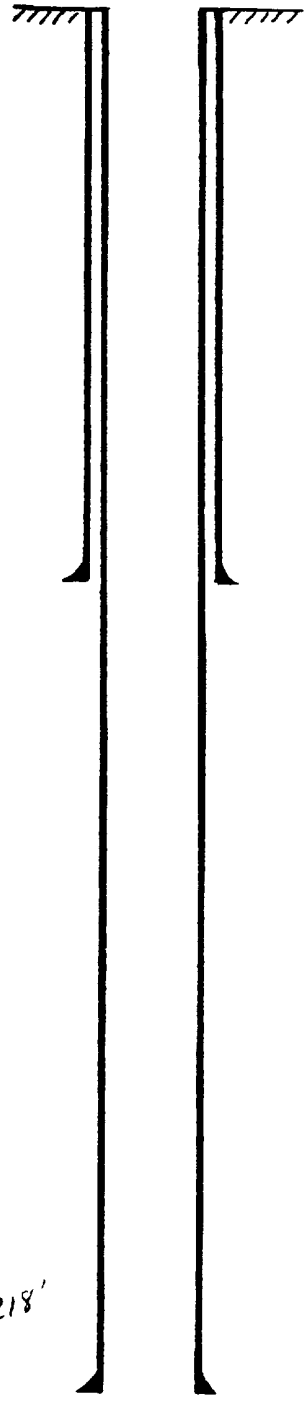
4 1/2 " casing set at 4410 ' with 190 sx of Reg. NEAT cem

Total Depth 4410 ' Hole size 7 7/8 "

[illegible] tested 1000# 1-3-64

CALC. T.O.C. 3200

OPERATOR			DATE
Tipperary Pet. Co.			12-2-92
LEASE	**WELL No.**	**LOCATION**	
New Mexico 'X'	1	10 10-32	Unit P



8 5/8 " casing set at 1566 ' with 600 sx of Incor icc ceme

Hole size 12 1/4 "

Circulated

Casing tested 1000 # 1-11-66

Perfs @ 4152'-4218'

4 1/2 " casing set at 4490 ' with 300 sx of Incor Neat cem

Total Depth 4490 ' Hole size 6 3/4 "

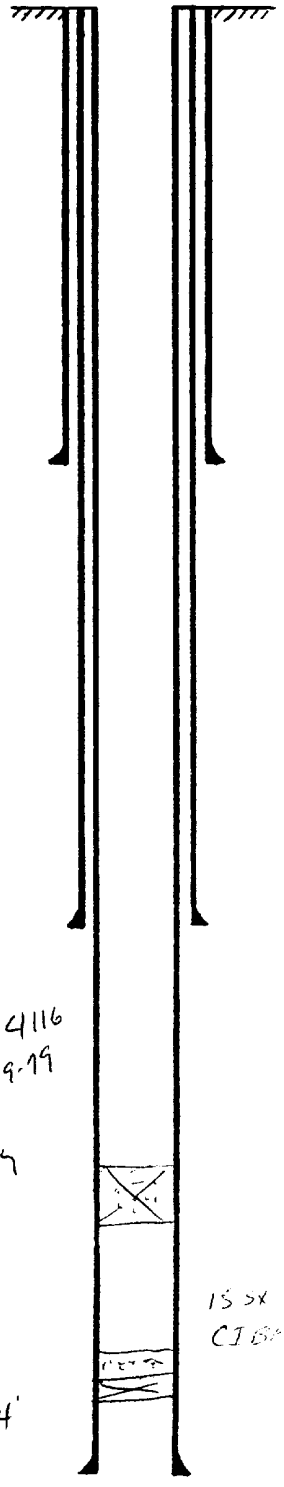
Cement Top 2390'

Casing tested 2000 # 1-28-66

CALC. T.O.C. 1800

OPERATOR			DATE
Dwight A. Tipton			12-2-92
LEASE	**WELL No.**	**LOCATION**	
New Mexico A	1	11-10-32	unit E

Plug Back to San Andres 2-15-79



12 3/4 " casing set at 350 ' with 400 sx of Neat 'C' cement

Hole size 15 "

Circulated

Casing tested 800# 7-22-74

8 5/8 " casing set at 3422 ' with 300 sx of Class 'H' cement

Hole size 11 "

Casing tested 1000# 7-27-74

Perfs @ 4112' To 4116 2-19-79

40sx Plug 4798'

Pulled 5 1/2 up to 4250'

7 7/8 Hole cemented w/ 150 sx C

15 sx Plug CIBP 8300'

Perfs @ 8342-8934'

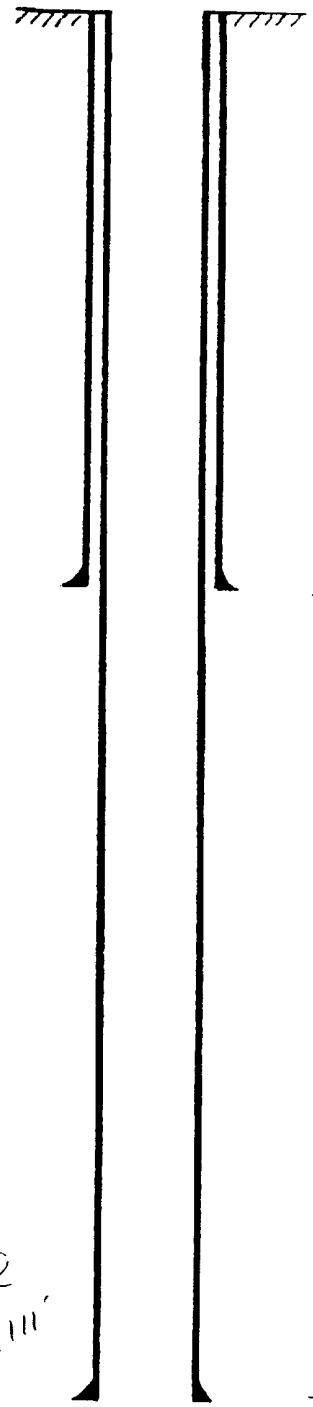
5 1/2 " casing set at 9100 ' with 450 sx of Reg. cement

Total depth 9100 ' Hole size 7 7/8 "

Casing tested 3000# 8-24-74

CALC. TOC. 5452

OPERATOR			DATE
Dwight H. Tipton			12-2-92
LEASE	**WELL No.**	**LOCATION**	
New Mexico A	2	11-10-32 Unit E	



8 5/8 " casing set at 375 ' with 275 sx of Class C ceme

Hole size 12 1/4 "

Circulated 25 sx.

Casing tested @ 1000# 11-23-

Perfs @ 4050'-4111'

5 1/2 " casing set at 4125 ' with 750 sx of C cem

Total Depth [illegible] ' Hole size 7 7/8 "

Circulated 12-13-98