

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

June 10, 1983

Mr. Joe D. Ramey
State Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Jim Baca
Commissioner of Public Lands
P. O. Box 1148
Santa Fe, New Mexico 87501

Re: Application for Authorization
to Inject
SXT Bough "C" Unit No. 2
1980' FNL and 660' FWL
Section 27, T10S, R33E
Lea County, New Mexico

Gentlemen:

Enclosed is Application for Authority to Inject Salt Water into the subject well. Also enclosed are logs and data packages required on the C-108.

We respectfully request approval of our application. Please contact us at the letterhead telephone number, collect, advising if anything further is needed in connection with this Application. Please contact Mr. Ron Sentz of our Engineering Department if additional technical information is required.

Very truly yours,

Helen G. Wood
District Landman

HGW:1ks
Enclosures

cc: Mr. Carl L. Johnson
P. O. Box 918
Tatum, New Mexico 88246

APPLICATION FOR AUTHORIZATION TO INJECT:

I. Disposal.

II. Southern Union Exploration Company of Texas
Suite 400, Texas Federal Savings Bldg.
1217 Main Street
Dallas, Texas 75202

CONTACT: Ronald M. Sentz
OFFICE: 214-742-6051
HOME: 214-775-2027

III. A.

- (1) SXT Bough "C" Unit #2
660' FWL & 1980' FNL
Sec 27, T10S, R33E
- (2) Drilled 17 1/2" hole with rotary rig to 428'. Set 428' of 13 3/8", 61#/ft, J-55, ST&C casing on 7/20/81. Cemented with 420 sacks of Class "C" cement with 2% CaCl_2 , circulated 40 sacks to surface. Tested casing to 500# for 15 minutes with no pressure loss.




Drilled with 12 1/4" bit to 433', 5' of new hole; tested casing to 1500# for 30 minutes, no leak off. Drilled 12 1/4" hole to 3975' and set 9 5/8" J-55 ST&C 36# and 40# casing to 3975' on 8/5/81. Cemented using 1750 sacks of Halliburton lite with 15#/sack salt + 5#/sack gilsonite + 1/4#/sack flocele + 2% CaCl_2 , circulated 50 sacks to surface. Tested casing to 1500# for 20 minutes, no leaks.

Drilled out to 3980' with 7 7/8" bit and tested to 1000# for 15 minutes with no leak off. Drilled 7 7/8" hole to 9668' and set 9668' of 17#, N80 LT&C casing; cemented with 500 sacks of Class "H" with 4000# salt + 282# of Halad 22-A on 9/18/81. Tested casing to 1500# for 15 minutes, held OK.

Ran cased hole Cement Bond Log, Collar Locator, Gamma Ray on 10/2/81, found cement top at 7888'.
- (3) The tubing to be used will be 2 7/8", 6.4#/ft, N80, seal lok. The tubing will have plastic linings inserted and sealed in each joint. The 2 7/8" tubing will be set to a depth of 9550'.
- (4) A 2 3/8" x 5 1/2" Guiberson Uni VI packer with 2 3/4" x 2 3/8" F-1 on and off seal connector will be set at 9550'.

B.

- (1) Formation - Bough "C"
Field & Pool - Inbe Permo Penn
- (2) Perforations - 9622' to 9636' 1 SPF for 15 holes (cased).
- (3) This well was originally drilled as an oil well; no commercial quantities of oil or gas were found. SXT feels this would make a good disposal well as the Bough "C" appears depleted.
- (4) The perforations in the Bough "C" which are listed in III B. (2) are the only shots in this well.
- (5) No other gas or oil producing zones have been found on the Electric Logs and none were detected in the drilling samples.

- IV. This is not an expansion of an existing project.
- V. Maps showing 2 mile and 1/2 mile radius circles are attached.
- VI. Schematics are attached.
- VII. (1) 5 loads per day - 900 bbls.
- (2) The system will be open to all on a contractual basis, no one will be able to use the system unless they have a key to the interlock control panel.
- (3) Under present conditions, there will be no injection pressure. The well will take all water on a vacuum. Tests have shown the bottom hole pressure to be 61#.
- (4) Sources and a copy of an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water is attached.
- (5) A chemical analysis of the disposal zone formation water is attached.
- VIII. Appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth is attached.
- IX. The well will be acidized with 2000 gallons of 15% HCl with scale inhibitor and flushed with 2% KCl water. The well will be acidized at 6 month intervals with the same volume and type of acid and flushed with injection water. The acid treatment will be done at any other time that well conditions indicate it is needed.
- X. Appropriate logs and test data are attached.
- XI. A chemical analysis of fresh water from two fresh water wells is attached.
- XII. All Geological & Engineering materials have been reviewed and no evidence of open faults or any hydrologic connection between the disposal zone and any underground source of drinking water were detected.
- 
Roy G. Sharrock
Vice-President & Chief Geologist
- 
Ronald M. Sentz
Drilling & Production Engineer
- 
Richard Thomas
Reservoir Engineer
- XIII. There are no other operators that fall within the half mile radius circle; therefore, there are no operators to be notified.

LAND DEPT.

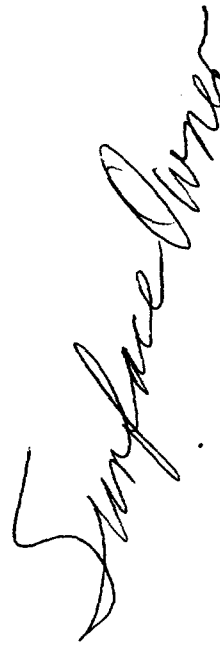
P 265 310 849

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

SENT TO		Carl L. Johnson
STREET AND NO.		P. O. Box 918
P. O. STATE AND ZIP CODE		Tatum, NM 88267
POSTAGE		5
CERTIFIED FEE		c
SPECIAL DELIVERY		c
RESTRICTED DELIVERY		c
SHOW TO WHOM AND DATE DELIVERED		c
SHOW TO WHOM DATE AND ADDRESS OF DELIVERY		c
SHOW TO WHOM DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		c
TOTAL POSTAGE AND FEES		5
POSTMARK DATE		10 1983



Applicable Rules for Salt Water Disposal Wells
in New Mexico

- Rule 701 Injection of Fluids into Reservoir (Form C-108)
Parts A, B, C + D are applicable
Parts E, F + G are not applicable
- Rule 702 Casing and Cementing of Injection Wells - Applicable
- Rule 703 Operation and Maintenance - Applicable
- Rule 704 Testing and Monitoring - Applicable
- Rule 705 Commencement, Discontinuance and Abandonment of Injection
Operations - Applicable
- Rule 706 Records and Reports (C-120-A) - Applicable
- Rule 710 Disposition of Transported Produced Water - Applicable
- Rule 1120 Monthly Water Disposal Report (Form C-120-A) Applicable

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: _____
Address: _____
Contact party: _____ Phone: _____
- 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. **RECEIVED**
DECEMBER 14 1983
OIL CONSERVATION DIVISION
SANTA FE
- 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: _____ Title: _____
- Signature: _____ Date: _____
- * 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.

GEOLOGICAL DRILLING REPORT
SOUTHERN UNION EXPLORATION COMPANY OF TEXAS

SUSCO STATE 35 #1
LEA COUNTY, NEW MEXICO

Michael L. Davies
MICHAEL L. DAVIES
Staff Geologist

SXT

ABSTRACT

The Southern Union Exploration of Texas' SUSCO State #35-1 was spudded on March 20, 1981 and drilled to a total depth of 9944' Logger, 9950' Driller, on July 13, 1981.

The samples were examined by a geologist in the field from 8900' to 9950'. Schlumberger logged the well from 9942' to surface.

Production was indicated and casing set on July 18, 1981.

LOCATION

1980' FSL & 1980' FEL, Sec. 35, T10S-R33E, Lea County, New Mexico

ELEVATION

KB: 4210.51', DF: 4209.51', GL: 4196.51'

CONTRACTOR

BJM Drilling Company, Rig #4
Toolpusher: Alton Willis
Drilling Consultant: Bodie Hooper (Foy Boyd)

SPUD AND COMPLETION DATA

Spud Date: March 20, 1981
Rotary Spud Date: June 5, 1981
Date TD Reached: July 13, 1981
Production Csg set on July 17, 1981

CASING

13 3/8" surface casing set at 404' with 400 sks Class 'C' cement
9 5/8" intermediate casing set at 3990' with 300 sks Class 'C' cement
5-1/2" production casing set at 9953' with 2330 sks Class 'H' cement

ELECTRICAL SURVEYS

Schlumberger: DLL/GR/CL from 9942' to 3982'
CNL/FDC/GR/CL from 9940' to surface
Cyberlook from 9925' to 8725'

FORMATION TOPS

<u>Permian</u>	<u>Depth</u>	<u>KB Datum</u>
Anhydrite	1955'	+2256'
Yates	2663'	+1548
Queen	3500'	+ 711'
San Andres	3888'	+ 323'
Glorieta	5378'	-1167+
Abo	7680'	-3469+
Wolfcamp	8920'	-4709

	<u>Depth</u>	<u>KB Datum</u>
<u>Permo-Penn</u>	9655'	-5444
<u>Pennsylvanian</u>		
Bo 'C'	9810'	-5599
TD	9944'	-5733

DEVIATION RECORD

<u>No.</u>	<u>Degree</u>	<u>Depth</u>
1	3/4	745'
2	1/2	1235'
3	1/4	1731'
4	1/4	1933'
K5 4210.51' DF: 4309.51' G1 1/2 126.51'	1 1/2	2433'
6	3/4	2758'
7	1-1/4	3516'
8	3/4	3990'
9	3/4	4485'
10	3/4	5094'
11	3/4	5353'
12	3/4	6049'
13	3/4	6573'
14	3/4	7032'
15	3/4	7765'
16	1	8079'
17	1-1/4	8 08'
18	1-1/4	8708'
19	1-1/2	8916'
20	1-1/4	9416'
21	1-1/4	9849'
22	1-1/4	9950'

BIT RECORD

<u>No.</u>	<u>Make</u>	<u>Size</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hours Run</u>
1	HTC	12-1/4	RT	1458	1458	19
2	HTC	12-1/4	OWV-J	2758	825	20 1/2
3	STC	12-1/4	F-3	3355	597	33
4	SEC	12-1/4	S86-F	3990	645	69-1/4
5	HTC	7-7/8	J33	3990	0	0
6	HTC	7-7/8	J33	5135	1146	55 1/4
7	STC	7-7/8	F-57	8079	2943	202 1/2
8	SEC	7-7/8	M89-FF	8208	129	35 1/4

DAILY DRILLING REPORT

03/20/81 MI & RU. Spudded @ 1 PM, 3/19/81. Drilled 16" hole to 28', Caliche & sand.
Accum Cost \$1,020

03/21/81 Drlg @ 70', made 42' in sand & clay. PU water sand @ 60'.
Daily Cost \$720 Accum Cost \$1,740

03/22/81 Reaming 16" hole to 17" hole, water sand. Set 16" pipe @ 70' to shut off water.

03/23/81 • SD for Sunday.

03/24/81 Set 75' of 16" casing to shut off water. Drlg 16" hole to 80'

03/25/81 Drlg @ 110' in red clay, 16" hole.

03/26/81 Drlg @ 145' in sand, made 35'. Drlg a 16" hole.

03/27/81 Drlg @ 165' in red clay.

03/28/81 Drlg @ 185' in red clay, made 20'.

03/29/81 Drlg @ 205' in red clay, made 20'.

03/30/81 No operations.

03/31/81 Pulled 16" pipe, reamed hole. Run 125' of 16" pipe.

04/1/81 Clean out to 205'. Drld to 210' in red bed.

04/2/81 Drlg @ 225' in red clay, 16" hole.

04/3/81 No report.

04/4/81 Drlg @ 255' in blue clay.

04/5/81 Drlg @ 270' in blue clay, made 15'.

04/6/81 No operations, SD for Sunday.

04/07/81 Drlg @ 285' in blue clay, made 15'.

04/8/81 Drlg @ 300 in a 16" hole in blue clay, made 15'.

04/9/81 Drlg @ 315' in red clay, made 15'.

04/10/81 Drlg 16" hole from 315-330' in red clay.

04/11/81 Drlg @ 343' in red clay, in 16" hole, made 13'.

04/12/81 Drlg @ 350' in red clay, in 16" hole, made 7'.

04/13/81 No report.

04/14/81 Drlg @ 362' in 16" hole, in red clay, made 12'.

04/15/81 Drlg @ 379' in blue clay, made 17'.

04/16/81 Drlg @ 395' in 16" hole in blue clay, made 16'.

Will probably run surface pipe 04/17/81.

04/17/81 Drlg @ 402' in 16" hole in blue clay, made 7'.

04/18/81 Run 404' of 13 3/8" pipe. Cemented with 400 sacks of Class "C" cement, 2% cc. Circulated 10 sacks.

04/19/81 Drlg cement from 265-365'. Cement fell back 40'. Will cement 4/20/81 with ready mix.

04/20/81 No report.

04/21/81 Cemented 40' to surface and drilled cement 365-390'.

04/22/81 Drlg cement from 390-401'.

04/23/81 Drlg @ 408' in 12 1/4" hole in red clay, made 7'.

04/24/81 Drlg @ 418' in 12 1/4" hole in red clay, made 10'.

04/25/81 Drlg @ 425' in 12 1/4" hole in gray shale, made 7'.

04/26/81 Drlg @ 431' in 12 1/4" hole in gray shale, made 6'.

04/27/81 No report.

04/28/81 Drlg @ 438' in 12 1/4" hole in gray shale, made 7'.
Rig released.

04/29/81 Preparing to move out rig.

04/30/81 No further report until rotary rig moves in.

06/03/81 MI & RU rig. Working on draw works.

06/04/81 Working on rig.

Day 1

06/05/81 Drlg @ 500' in Redbed, made 25'.

MW 8.3, Vis 29, PH 10, CH 120,000

Bit #1, 12 1/4", OSC 38, in at 475', made 25' in 1/2 hr (WOB 65,000#, 80 RPM, pump C350, 5 1/2" liner, 50 SPM 1000 psi). Pumping 7.4 BPM.

BHA: Drl collars 20-6 1/4" total 38,000#. 3 point reamer 38' above bit, 3 point reamer 69' above bit, shock sub on top of bit.

1/2 hr test BOP, 4 hrs PU DC, 1/2 hr drlg 25' cement, 1/2 hr drlg formation, 18 1/2 hrs rig repairs, tagged cement @ 450', casing shoe set @ 475', 25' of cement on top of casing shoe.

Accum Cost \$12,875

06/06/81 2nd day, Drlg @ 1933' in anhydrite and salt, made 1433' in 18½ hrs.

W.O. magnet, lost 2 cones.

Deviation: 3/4° @ 745'

½° @ 1235'

½° @ 1731'

½° @ 1933'

Bit #1, 12¼", OSC 3A, in @ 475' out @ 1933', made 1458' in 19 hrs (WOB 50,000#, 80 RPM).

Drlg 18½ hrs, 3/4 hr circ for survey, ½ hr survey, ¼ hr service rig, 3 hrs trip.

Daily Mud Cost \$330

Daily Cost \$7900

Accum Mud Cost \$330

Accum Cost \$25,338

06/07/81 3rd day, Drlg @ 1933' in anhydrite and salt, drlg with brine water.

MW 9.2, Vis 31, PH 10 CH 145,000.

RIH w/10" ID magnet 11 7/16" OD and PU 30 bearings plus other metal parts. No indication of large pieces. RIH w/ OWV bit.

W.O. magnet 2½ hrs, 20 hrs trip, 1½ hrs fishing.

Daily Cost \$7900

Accum Cost \$33,238

06/08/81 4th day, Drlg @ 2653' in anhydrite and salt, made 720' in 15 3/4 hrs, drlg 45.7'/hrs in brine cut mud.

MW 10, Vis 31, PH 12.5, CH 149,000.

Deviation: ½° @ 2433'.

Bit #2, 12¼", OWV, in @ 1933', made 720' in 15 3/4 hrs (60,000# WOB, 90 RPM).

Drlg 15 3/4 hrs, 6 3/4 hrs trip, 1 hr wash to bottom, ¼ hr totco.

Daily Mud Cost \$657

Accum Cost \$657

Daily Cost \$8300

Accum Cost \$41,538

06/09/81 Drlg @ 3012' in anhydrite, made 359' w/rate of 20.5'/hr.

Deviation 3/4° @ 2758'

MW 10, Vis 31, PH 12.

Bit #2, out @ 2758', made 825' in 20 1/2 hrs, W.O.B. 60,000#, RPM 80.

Bit #3, 12 1/4", F3, made 254' in 12 3/4 hrs., W.O.B. 50,000#, RPM 60.

17 1/2 hrs. drlg, 5 hrs. trip, 1 1/4 hr. wash 60' to bottom, 1/4 hr. service rig.

Daily Mud Cost \$528

Accum Mud Cost \$1,439

Daily Cost \$8,300

Accum Cost \$49,838

06/10/81 Drlg @ 3355' in anhydrite & lime, made 342' @ rate of 17.1'/hr.

Deviation $1\frac{1}{2}^{\circ}$ @ 3240'
 $1\frac{1}{2}^{\circ}$ @ 3355'

MW 10, Vis 31, PH 12.

20 hrs. drlg, $1\frac{1}{2}$ hrs. trip, $1\frac{1}{4}$ hrs. survey, $\frac{1}{4}$ hr. service rig.

Bit #3, out @ 3355', made 597' in $32\frac{3}{4}$ hrs., W.O.B. 50,000#, RPM 60.
Bit #4, 12 $\frac{1}{4}$ ", S86F.

Daily Mud Cost \$528
Daily Cost \$9,217

Accum Mud Cost \$1,439
Accum Cost \$59,055

06/11/81 Drlg @ 3498' in anhydrite, made 143'.

MW 10, Vis 30, PH 12.

15 $\frac{1}{4}$ hrs. drlg, $6\frac{1}{2}$ hrs. trip, $2\frac{1}{4}$ hrs. wash & ream
60' to bottom.

Bit #4, made 143' in $15\frac{1}{4}$ hrs., W.O.B. 40,000#, RPM 50.

Daily Mud Cost \$159
Daily Cost \$19,062

Accum Mud Cost \$1,801
Accum Cost \$70,818

06/12/81 Drlg @ 3715' in anhydrite, made 215', rate 9.25'/hr.

MW 10.1, Vis 31, PH 12.

Bit #4, made 360' in $38\frac{1}{2}$ hrs (WOB 50,000#, 60 RPM).

Deviation: $1\frac{1}{4}^{\circ}$ @ 3516'.

$23\frac{1}{4}$ hrs drlg, $\frac{1}{2}$ hr survey, $\frac{1}{4}$ hr service rig.

Daily Mud Cost \$159
Daily Cost \$8300

Accum Mud Cost \$1,801
Accum Cost \$78,218

06/13/81 9th day, Drlg at 3947' in anhydrite, made 232' in $23\frac{1}{4}$ hrs, drlg 9.9'/hr.

MW 10.1, Vis 31, PH 12, CH 164,000.

Bit #4, 12 $\frac{1}{4}$ ", in at 3355', made 592' in $61\frac{3}{4}$ hrs, 9.8'/hr.

Drlg $23\frac{1}{4}$ hrs, $\frac{1}{4}$ hr service rig, $\frac{1}{2}$ repair stand pipe.

Daily Mud Cost \$160
Daily Cost \$8300

Accum Mud Cost \$1801
Accum Cost \$86,518

06/14/81 Drlg @ 3990' in anhydrite, made 53'.

6½ hrs drlg, 1½ hrs circ, ¼ hr survey, 6 ¾ hrs trip, 1 hr W.O. fill, ¼ hr service rig, 1½ hr RU casing crew and LD machine, 6½ hrs running 9 5/8" casing.

MW 10.5, Vis 34, PH 12, 4% oil.

Deviation: 3/4° @ 3990'.

Bit #4, 12½", out @ 3990', made 635' in 68½ hrs (WOB 50,000#, 60 RPM).

Daily Mud Cost \$159

Accum Mud Cost \$180

Daily Cost \$8900

Accum Cost \$95,418

06/15/81 Depth 3990'. Running 9 5/8" casing, set @ 3990'.

Cemented 2/1250 sacks of Halliburton-lite, 15# salt, 5# gilsonite, ¼# flocele, 300 sacks Class "C" 2% chloride. PD @ 1:15 p.m. CST. Plug held 1500# pressure.

Ran 19 joints of 40#, 9 5/8" casing. Ran 76 joints of 36# 9 5/8", shoe joint set @ 3990'. Ran centralizers as per program.

5 hrs running casing, 2 hrs circ and wasing 40' to bottom, 2½ hrs cementing, 1 hr hanging BOP, 5 hrs set slips and W.O. cement, 2 hrs cut 9 5/8" casing, put on wellhead, test same to 1000#, held ok, 6 ¾ hrs rig repairs. Rig released at 11:15 p.m.

Daily Cost \$21,086

Accum Cost \$111,704

06/16/81 Depth @ 3990' in anhydrite. Down 24 hrs. for rig repair.

Daily Cost \$1,000

Accum Cost \$112,704

06/17/81 Day 13, Drlg @ 3990' in anhydrite. Present operation checking DC in holes.

MW 8.2, Vis 29, PH 12.

Bit #5, 7 7/8" J33, in @ 3990'.

BHA: 4½"-DP E grade, 4½" XO connection, 21-DC 6½" 63,000#, 6 point reamer at bit, shock sub 9' above bit, 3 point reamer 16' above bit, 3 point reamer 53' above bit.

20 hrs rig repair, 2 hrs NU BOP, ½ hrs test BOP to 1000#, ok. 1½ hrs checking DC in hole.

Daily Cost \$12,622

Accum Cost \$123,835

06/18/81 Days 14, Drlg @ 4051' in anhydrite and lime, made 61' in 4½ hrs, rate 13.5'/hr.

MW 8.3, Vis 28, PH 10, CH 12,000.

Bit #5, 7 7/8" J33 in @ 3990' out @ 3990'. Bit #6, 7 7/8" J33 in @ 3990', made 61' in 4½ hrs (WOB 30,000#, RPM 40).

4½ hrs drlg, 2 hrs checking DC in hole, 1½ hrs cut drlg line, 9½ hrs trip, 2 hrs W.O. magnet, ½ hr fishing, 1 hr trying to work past junk with bit #5 (retrieved ½ of cone from 12½" bit).

Daily Mud Cost \$522

Accum Mud Cost \$3242

Daily Cost \$11,822

Accum Cost \$135,657

06/19/81 Drlg @ 4544' in anhydrite and lime, made 493' in 23 3/4 hrs, 20.75'/hr.
MW 8.4, Vis 28, PH 10, CH 240,000.
Bit #6, 7 7/8" J33, in @ 3990' made 554' in 23 3/4 hrs, WOB 40,000#, 19.6'/hrs.
Drlg 23 3/4 hrs, 1/4 hr service rig.

Daily Mud Cost \$216

Accum Mud Cost \$3022

Daily Cost \$10,163

Accum Cost \$138,521

06/20/81 16th day, Drlg @ 5062' in limestone and sandstone, made 518'.

Deviation 3/4° @ 4485'

MW 8.5, Vis 28, PH 11, Chl 24,000.

Bit #6, made 1072' in 51 3/4 hrs., W.O.B. 40,000#, RPM 48.

23 1/2 hrs. drlg, 1/2 hr. survey.

Daily Mud Cost \$356

Accum Mud Cost \$3598

Daily Cost \$8,300

Accum Cost \$146,820

06/21/81 Drlg @ 5355' in shale & limestone, made 293'.

Deviation 3/4° @ 5094'

MW 8.2, Vis 85, WL 28, PH 10.5, CH 24,000.

Bit #6, 7 7/8" J33, in @ 3990', out @ 5136', made 1146' in 53 3/4 hrs (40,000# WOB 48 RPM). Bit #7, 7 7/8" F57, in @ 5136', made 219' in 16 3/4 hrs.

18 3/4 hrs drlg, 4 1/2 hrs trip, 1/2 hr survey, 1/4 hr wash 14' to bottom.

Daily Mud Cost \$273

Accum Mud Cost \$4636

Daily Cost \$8300

Accum Cost \$155,120

06/22/81 Drlg @ 5877' in lime and shale, made 522' in 23 1/2 hrs, 22.45'/hr.

MW 8.5, Vis 28, PH 10, CH 104,000.

Deviation: 3/4° @ 5353'.

Bit #7, 7 7/8" F57, in @ 5136', made 741' in 40 hrs (WOB 40,000#, 48 RPM).

23 1/2 hrs drlg, 1/2 hr totco, 1/4 hr service rig.

Daily Mud Cost \$296

Accum Mud Cost \$8300

Daily Cost \$5328

Accum Cost \$163,320

06/23/81 Drlg @ 6310' in lime & shale, made 433'.

Deviation $3/4^0$ @ 6049'

MW 8.5, Vis 28, PH 10.5.

23 1/4 hrs. drlg, 1/2 hr. survey, 1/4 hr. service rig.

Bit #7, made 1174' in 63 1/4 hrs., W.O.B. 40,000#, RPM 48.

Daily Cost \$11,430

Accum Cost \$167,451

06/24/81 Drlg @ 6527' in lime & shale, made 217' w/rate of 14.23'/hr.

MW 9, Vis 28, PH 10.5.

15 1/2 hrs. drlg, 1/4 hr. service rig, 8 1/4 hr. down (replace stand pipe & derrick).

Bit #7, made 1391' in 78 3/4 hrs., W.O.B. 40,000#, 48 RPM

23 1/2 hrs. drlg, 1/2 hr. survey.

Daily Mud Cost \$290

Accum Mud Cost \$5,801

Daily Cost \$8,300

Accum Cost \$168,451

06/25/81 Drlg @ 6888' in lime & shale, made 361', rate of 16.36'/hr.

Deviation $3/4^0$ @ 6573'

MW 9, Vis 28, PH 10.5.

Bit #7, made 1752' in 102 1/4 hrs., W.O.B. 40,000#, RPM 48.

23 1/2 hrs. drlg, 1/2 hr. survey.

Daily Mud Cost \$295

Accum Cost \$6250

Daily Cost \$10,200

Accum Cost \$171,351

06/26/81 Drlg @ 7230' in lime & shale, made 342' w/rate of 14.14'/hr. Day 22

Deviation $3/4^0$ @ 7032'

MW 9.1, Vis 28, PH 10.5

Bit #7, made 2094' in 125 1/2 hrs., W.O.B. 40,000#, 48 RPM.

23 hrs. drilling, 1/2 hr. survey, 1/2 hr. service rig.

Daily Mud Cost \$330

Accum Mud Cost \$7,281

Daily Cost \$11,400

Accum Cost \$175,496

06/27/81 23rd day, Drlg @ 7565' in limestone and shale, made 335' in 23 3/4 hrs, 14.5'/hr, mudding up.

Salt gel MW. 9.6, Vis 30, PH 10.5, CH 145,000.

Bit #7, 7 7/8" F57, in @ 5136', made 2429' in 149 1/2 hrs (WOB 40,000#, 48 RPM) 16.3'/hr
23 3/4 hrs drlg, 1/4 hrs rig service.

Daily Mud Cost \$341	Accum Mud Cost \$7353
Daily Cost \$8400	Accum Cost \$183,486

06/28/81 24th day, Drlg @ 7765', made 20' in 16 hrs, 12.5'/hr.

Mud brine gel, MW 9.8, Vis 33, solids 2%, 5% oil, PH 10.5, CH 148,000.
Put in 25 BO yesterday.

Bit #7, 7 7/8" F57, in @ 5136', made 2629' in 166 1/2 hrs (WOB 40,000#, 48 RPM) 15.79'/hr.

16 hrs drlg, 1/4 hr service rig, 7 3/4 hrs working tight hole, pulled 3 joints and drlg back to bottom (also tight).

Daily Mud Cost \$386	Accum Mud Cost \$9256
Daily Cost \$9700	Accum Cost \$193,186

06/29/81 25th day, Drlg @ 7856' in abo shale, made 91' in 11 1/4 hrs, 8.1'/hr.

Salt gel, MW 10, Vis 36, solids 3%, oil 5%, PH 10, CH 148,000.

Deviation: 3/4° @ 7765'.

Bit #7, 7 7/8" F57, in @ 5136', made 2719' in 176 3/4 hrs (WOB 40,000#, RPM 48) 15.38'/hr.

11 1/4 hrs drlg, 11 1/2 hrs TIH for DP, 25 stands, working tight hole back to bottom, 1 hr totco, 1 1/2 hrs service rig.

Daily Mud Cost \$410	Accum Mud Cost \$10,335
Daily Cost \$8300	Accum Cost \$201,487

06/30/81 26th day, Drlg @ 8060' in abo shale, made 204', 8.25'/hr.

MW 9.5, Vis 37, PH 10.5.

23 3/4 hrs drlg, 1/4 hr service rig.

Bit #7, made 2923' in 200 1/4 hrs (WOB 40,000#, 48 RPM).

Daily Mud Cost \$412	Accum Mud Cost \$10,735
Daily Cost \$8300	Accum Cost \$209,786

07/01/81 Day 27, Drlg @ 8109' in abo shale, made 49' in 12½ hrs.

Salt water gel, MW 9.5, Vis 37, solids 4.5%, oil 3%, PH 10, CH 138,000.

Deviation: 1° @ 8079'.

Bit #7, 7 7/8" F57, in @ 5136' out @ 8079', made 2943' in 202½ hrs (WOB 40,000#, 48 RPM). Graded 7 7 1/8. Bit #8, 7 7/8" M89TF, in @ 8079', made 30' in 10 hrs (WOB 30,000#, 48 RPM).

12½ hrs drlg, ¼ hr totco, ¼ hr service rig, 9½ hrs trip, 1½ hrs cut drlg line. Strap talley 8076.34'.

Daily Mud Cost \$214

Accum Mud Cost \$13,162

Daily Cost \$11,458

Accum Cost \$213,945

07/02/81 28th day, Drlg @ 8194' in abo shale, made 85', 3/57'/hr.

MW 10, Vis 37, oil 2½%, PH 10.

1623.3/4 hrs drlg, ¼ hr service rig, 7½ hrs working right hole, pulled 3 joints and drlg back to bottom (also tight).

Bit #8, made 115' in 33 3/4 hrs (WOB 40,000#, RPM 48).

Daily Mud Cost \$451

Accum Mud Cost \$14,219

Daily Cost \$11,450

Accum Cost \$225,395

07/03/81 29th day, Drlg @ 8263' in the abo, made 69' in 14 hrs, 5'/hr.

Salt water gel, MW 9.7, Vis 36, WL NC, Solids 3.9%, oil 3% PH 10, Chl 9300.

Deviation: 1½° @ 8208'.

Bit #8, 7 7/8" M89TF in @ 8079' out @ 8208', made 129' in 38½ hrs (WOB 40,000#, 48 RPM). 1/16 out of gauge.

Bit #9, 7 7/8" Reed HPMH, in @ 8208', made 55' in 9½ hrs (WOB 35,000#, 50 RPM) 5.79'/hr.

14 hrs drlg, ¼ hr survey, 8 3/4 hrs trip, 1 jet pits.

Daily Mud Cost \$566

Accum Mud Cost \$14,785

Daily Cost \$12,300

Accum Cost \$237,695

07/04/81 30th day, Drlg @ 8449' in lime and shale, made 186' in 23 3/4 hrs, 7.85'/hr.

Salt water gel, MW 9.7, Vis 33, WL NC, Solids 3.8%, oil 3%, PH 10, YP 18, PV 5, CHL 93,000.

Bit #9, 7 7/8" HPMH in @ 8208, made 241' in 33½ hrs (WOB 35,000#, 60 RPM, 7.25'/hr).

23 3/4 hrs drlg. ¼ hr service rig.

Daily Mud Cost \$498

Accum Mud Cost \$14,936

Daily Cost \$8300

Accum Cost \$245,995

07/05/81 31st day, Drlg @ 8615' in lime and shale, made 166' in 23 3/4 hrs, 6.99'/hr.

Salt gel, MW 9.6, Vis 36, WL NC, solids 3.5%, oil 3%, PH 10, CHL 96,000.

Bit #9, 7 7/8" HPMH in @ 8079', made 413' in 57 hrs (WOB 35,000#, 60 RPM, 7.25'/hr).

23 3/4 hrs drlg, 1/4 hr service rig.

Daily Mud Cost \$5488

Accum Mud Cost \$16,467

Daily Cost \$8300

Accum Cost \$254,295

07/06/81 32nd day, Drlg @ 8850' in shale and lime, made 235', 9.89'/hr.

MW 9.4, Vis 36, PH 9.9, oil 1.8%.

23 1/4 hrs drlg, 3/4 hrs survey and service rig.

Deviation: 1 1/4° @ 8708'.

Bit #9, made 642' in 80 3/4 hrs (WOB 35,000#, 60 RPM).

Daily Mud Cost \$547

Accum Mud Cost \$17,517

Daily Cost \$8300

Accum Cost \$262,595

07/07/81 Drlg @ 8965' in shale & lime, made 116'.

MW 9.6, Vis 35, FC 3/32, PH 10, oil 1%.

Deviation 1 1/2° @ 8916'

Bit #9, made 709' in 88 hrs., out @ 8916'. W.O.B. 35,000#, 60 RPM.

Bit #10, F57, 3/11, in @ 8916', made 49' in 10 1/2 hrs., W.O.B. 40,000#, RPM 50.

14 3/4 hrs. drlg, 1/4 hr. survey, 1/4 hr. service rig, 8 3/4 hrs. trip.

Daily Cost \$12,400

Accum Cost \$274,995

07/08/81 Day 34, Drlg @ 9151' in shale & lime, made 186', rate 7.8'/hr.

MW 9.6, Vis 35, FC 3/32, PH 10.5, oil 1%

23 3/4 hrs. drlg, 1/4 hr. service rig.

Bit #10, made 235' in 34 1/4 hrs., W.O.B. 45,000#, 60 RPM.

Daily Mud Cost \$544

Accum Cost \$18,519

Daily Cost \$8,300

Accum Cost \$283,295

07/09/81 35th day. Drlg @ 9330' in shale & lime, made 179'.

MW 9.5, Vis 34, PH 10, oil .75%

Bit #10, made 414' in 57 3/4 hrs., W.O.B. 40,000#, RPM 60.

23 1/2 hrs. drlg, 1/2 hr. jet shale pits & service rig.

Daily Mud Cost \$535

Accum Mud Cost \$18,753

Daily Cost \$9,265

Accum Cost \$292,560

07/10/81 36th day. Drlg @ 9503' in shale & lime, made 173'.

Deviation 1 1/4° @ 9416'

MW 9.6, Vis 35, FC 1/32, PH 10, oil .75%.

Bit #10, made 507' in 81 hrs., W.O.B. 40,000#, RPM 60.

23 1/4 hrs. drlg, 3/4 hr. service rig & survey:

Daily Cost \$15,473 Accum Cost \$318,033

07/11/81 Day 37, drlg @ 9679' in shale & lime, made 176'.

MW 9.5, Vis 35, FC 1/32, PH 10.

Bit #10, made 763' in 104 3/4 hrs., W.O.B. 40,000#, RPM 60.

23 3/4 hrs. drlg, 1/4 hr. rig service.

Daily Mud Cost \$529 Accum Mud Cost \$19,586

Daily Cost \$8,300 Accum Cost \$326,333

07/12/81 Day 38. Strap out of hole. Geolograph depth 9770'. Pipe strap @ 9849'. Drilled 91' of lime & shale in 15 1/2 hrs.

MW 9.6, Vis 41, WL 9, PH 10.

Bit #10, made 844' in 120 hrs., W.O.B. 40,000#, 60 RPM.

15 1/2 hrs. drlg, 3 hrs. trip, 1/4 hr. survey, 1/4 hr. rig service, 5 hrs. circulating.

Daily Cost \$8,300 Accum Cost \$334,633

07/13/81 Day 39, drlg @ 9903' in shale & lime, made 54'.

Deviation 1 1/4° @ 9849'

MW 9.5, Vis 38, WL 12, PH 9.5.

Bit #10, made 899' in 133 1/4 hrs., W.O.B. 40,000#, 60 RPM.

10 hrs. drlg, 7 hrs. trip, 4 hrs. cut drlg line, 1 3/4 hrs. preparing mud line, 3/4 hr. wash to bottom, 1/2 hr. W.O. orders.

Daily Mud Cost \$106

Accum Mud Cost \$23,523

Daily Cost \$9,100

Accum Cost \$343,733

07/14/81 Drlg @ 9950' in shale and lime, made 47' in 9 hrs, 5.22'/hr.

Presently logging, reached TD 2:15 p.m., 7/13/81.

MW 9.5, Vis 46, WL 8, solids 5%, PH 10, Ch 67,000.

Deviation: 1 1/4° @ 9950'.

Bit #10, 7 7/8" F57 in @ 8916' out @ 9950', made, 946' (WOB 40,000#, 60 RPM).
Grade T6, B6, G116.

9 hrs drlg, 6 hrs circ, 1/2 hr totco, 5 3/4 hrs scrap out of hole, 3/4 hr down time, repair drum chain, 1 hr RU lubricator, 1 hr logging.

Log depth 9944', strap depth 9953.35'.

Received truck load of 13 3/8" pipe for Susco 27 State #1.

Daily Mud Cost \$1355

Accum Mud Cost \$24,878

Daily Cost \$15,067

Accum Cost \$358,880

07/15/81 Day 41, Drlg @ 9950' in lime and shale.

Circ hole to LD DP.

Salt water gel, MW 9.5, Vis 44, WL 8, solids 5%, PH 10, CH 67,000.

Bit #10, running back into hole to circ hole.

19 hrs logging, 4 hrs trip, 1 hr circ.

Fluid caliper log, RIH to 7750'.

Daily Cost \$46,216

Accum Cost \$397,797

07/16/81 TD 9950' in shale and lime.

Running 5 1/2" casing.

MW 9.5, Vis 44, WL 8, PH 10.

7 hrs circ hole, 7 1/2 hrs LD DP & DC, 1/2 hr down (repair air valve), 1 hr change pipe rams and RU to run casing, 6 hrs run 5 1/2" casing, 2 hrs W.O. set of tongs.

Daily Cost \$8300

Accum Cost \$406,096

07/17/81 Day 42, TD 9950' in shale and lime.

2 1/2 hrs W.O. Cores, 1 1/2 hrs running 5 1/2" casing, 2 hrs washing 8' and circ to bottom, 4 1/2 hrs cementing, 12 hrs circ, 1 3/4 hrs PU BOP and set 5 1/2" slips.

Daily Cost \$52,835

Accum Cost \$451,634

07/18/81 Day 43, TD 9950', RD and moving rig, 4½ hrs. Set 5½" casing and NU well-head. Released rig @ 10:15 a.m.

Daily Cost \$2292

Accum Cost \$453,927

Cementing procedure:

1-FS 198-jts 5½" 17# N80
1-jt 5½" 17# N80
1-FC
25-jts 5½" 17# N80
1-DV tool
63-jts 5½" 17# N80
1-DV tool

FS @ 9951.41', 1st DV tool set @ 8990', 2nd DV tool set @ 6850'. Cemented w/2330 sks Class "H" w/1864# salt, 1314# of Halad 26, 6%.

07/18/81 Day 41, Drilg @ 9150' in lime and shale.

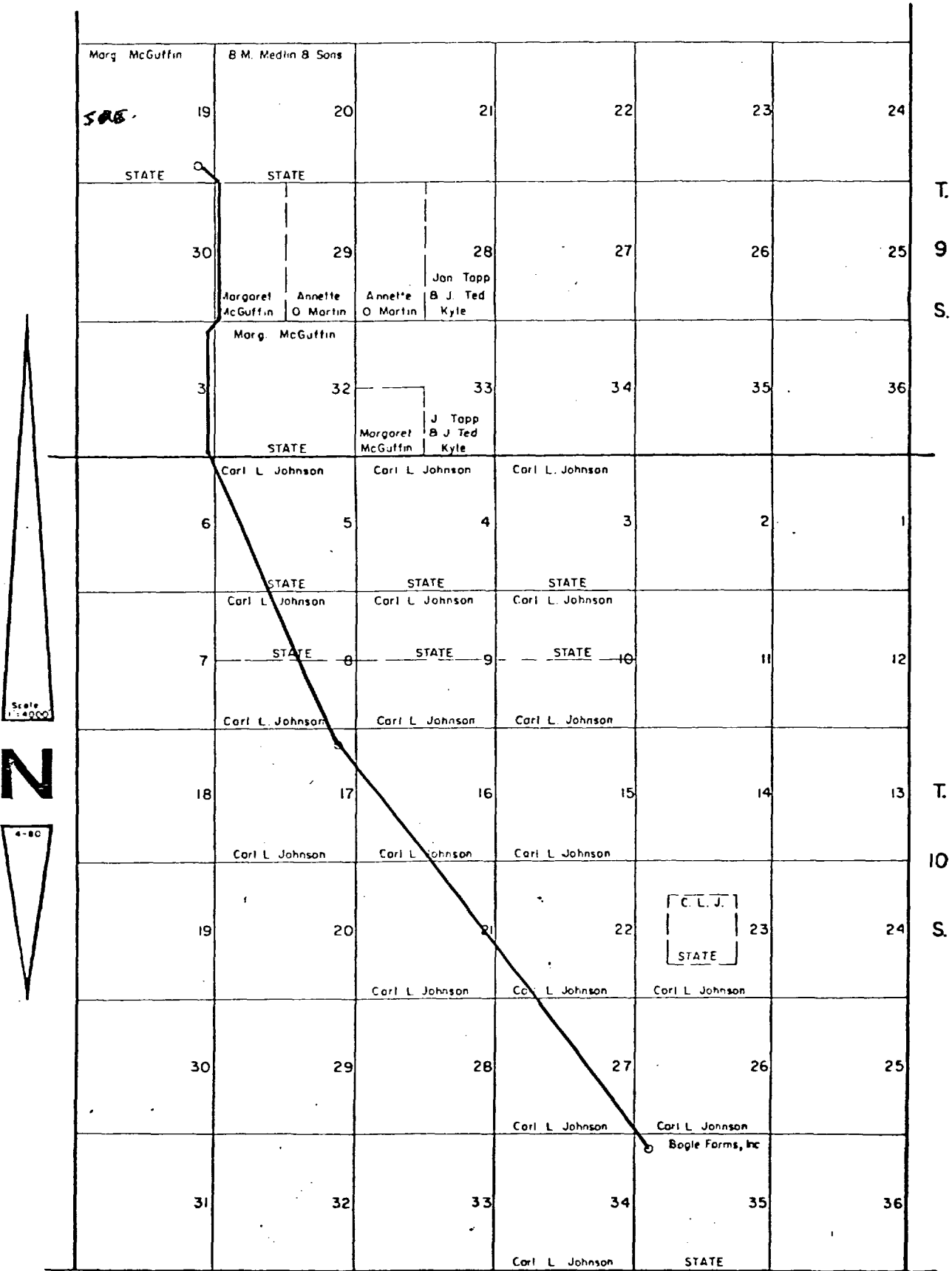
1st stage, pump 10 BW, 25 bbls of cement, dropped 1st DV plug and opened DV tool, then displaced 230 bbls of mud. Circ for 6 hrs, pumped 10 BW and 117 bbls of cement, dropped send plug and displaced w/210 bbls of mud. Closed 1st DV tool and opened 2nd DV tool and circ 6 hrs. Pumped 10 BW and 319 bbls of cement, dropped closing plug and displaced w/119 bbls of mud. Bumped plug and closed tool with 2108# of pressure. Set slips, waited 5 hrs and cut casing, pipe set with 7000#. Good circ throughout entire job.

07/19/81 Moving out rig.

07/20/81 RD BJM and moved to Susco "27" State #1.

SOUTHERN UNION EXPLORATION COMPANY

R. 33 E.



SOUTHERN UNION SUPPLY COMPANY										WELL NO.		FARM		COUNTY		STATE												
1980' fields Sec 35, T10S, R23E										1		Susco State 35		Lea		New Mexico												
LOCATION										DESCRIBED BY		ELEVATION		PAGE														
1980' fields Sec 35, T10S, R23E										M.L. Davis		9210.5 KB		3														
DEPTH	DOLOMITE			LIMESTONE			ANHY & GYP			SHALES			SANDSTONE			CHERT			POROSITY			STAIN			FLUOR			REMARKS
	%	Color	Texture & Acc. Mat.	%	Color	Texture & Acc. Mat.	%	Col.	Salt Pld. A.	blk	g	r	gr	%	Col.	Texture & Acc. Mat.	%	Col.	%	GR. Type	Rock	%	GR.	%	Col.			
9220-30	30	dk gray	AA		60	AA	AA					x	x			AA			50	Int-dol						LS dolomitic		
30-40	30	AA	AA		60	AA	AA					x	x			AA			<11	Int-dol						LS dolomitic		
40-50				70	gray-wh	shale, some, dus, tile						x	x			AA										AA		
50-60				40	AA	AA						x	x			AA										AA		
60-70	10	gray-buff	(shale, some, dus, tile)		80	wht.	some, some, dus, tile					x	x			AA										AA		
70-80	20	AA	AA		30	AA	AA					x	x			AA			<10	Int-dol						LS dolomitic		
80-90				50	wht-gray	shale, dus,						x	x			AA			40	Int-LS						LS dolomitic		
90-9300				20	AA	AA, tile						x	x			AA										LS dolomitic		
1300-10				10	wht.	mat. shale, some, dus, tile						x	x			AA										LS dolomitic		
10-20				20	AA	AA, some, dus, tile						x	x			AA										LS dolomitic		
20-30				40	whl	shale, some, dus, tile						x	x			AA										LS dolomitic		
30-40												x	x			AA										LS dolomitic		
40-50				70	wht.	shale, some, dus, tile						x	x			AA										LS dolomitic		
50-60				70	wht-gray	AA						x	x			AA										LS dolomitic		
60-70				20	AA	AA						x	x			AA										LS dolomitic		
70-80				80	wht-some buff, shale, some, dus, tile							x	x			AA										LS dolomitic		
80-90				50	AA	AA						x	x			AA										LS dolomitic		

LOCATION										SOUTHERN UNION SUPPLY COMPANY										WELL NO.		FARM		COUNTY		STATE	
1980' S&S Sec 35 T10S-R33E										Susco State 35										1		Susco State 35		Lea		New Mexico	
DEPTH	DOLOMITE		LIMESTONE		ANHY & GYP		SHALES		SANDSTONE		CHERT		POROSITY		Rock	STAIN	FLUOR		REMARKS								
	%	Color	Texture & Acc. Mat.	%	Color	Texture & Acc. Mat.	%	Col.	A.	blk	g	r	gn	%			Col.	%		GR	%	Col.					
0-9400				50	whitg	f. m. l. m. s. m. d. s.																					
9400-10																											
10-20				10	whit-gry	AA																					
20-30				20	AA	AA																					
30-40				10	AA	AA																					
40-50				10	AA	AA																					
50-60				10	AA	AA																					
60-70																											
70-80																											
80-90																											
90-9500																											
9500-10				80	whit-lar	f. m. l. m. s. m. d. s. t. s.														acc fossil frags crinoids?							
10-20				90	whit-lar	f. m. l. m. s. m. d. s. t. s.																					
20-30				70	whit-gry	f. m. l. m. s. m. d. s.																					
30-40				30	AA	AA																					
40-50				60	gry	m. f. m. l. m. s. m. d. s. t. s.																					
50-60				70	whit-gry	AA, some f. m. l. m. s. m. d. s.																					

see fossil frags
crinoids?

LOCATION

1980 ss & sl Sec 35, T10S-R33E

WELL NO.

#1

FARM

Susco State 35

COUNTY

Lea

STATE

New Mexico

SOUTHERN UNION SUPPLY COMPANY

DEPTH

DOLOMITE

LIMESTONE

ANHY & GYP

Salt

SHALES

SANDSTONE

CHERT

POROSITY

Rock

STAIN

ELEVATION

PAGE

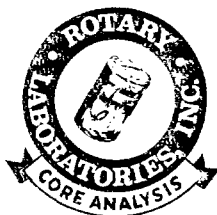
REMARKS

SOUTHERN UNION SUPPLY COMPANY										WELL NO.		FARM		COUNTY		STATE			
1980's sites sec 35, T10S-R33E										1		Susco State #35		Lea		New Mexico			
DEPTH	DOLOMITE			LIMESTONE			SHALES			KIND OF SAMPLES		DESCRIBED BY		DATE	ELEVATION	REMARKS			
	Texture & Acc. Mat.			Texture & Acc. Mat.			blk r gn			10' Rotary		M.C. Davis		7-11-81	421051' KB				
	%	Color	%	%	Col.	A.	%	%	%	%	Col.	%	GR.	Type	%		GR.	%	Col.
250-60			60	wh-bell	very-fine, firm, dr. + fine			x											
			10	brn	fine, hard, sl dolomitic														NS
0-70			70	wh-bm	AA			x											NS
50-70 1/2 hr			70	AA	AA			x											NS
50-70 1 hr			80	wh-bm	very-fine, firm - hard, sl dolomitic			x											NS
50-70 1 1/2 hr			80	AA	AA			x											NS
Pipe today correction all data from, 9770 up, 75' to shallower.																			
850-60			80	AA	AA			x											Occ grain with good pebbles and inclusions of ss for, NS
60-70			70	wh-bm	fine-hard, sl dolomitic, drs			x											
70-80			50	AA	AA			x											
								x											
80-90			30	AA	AA			x											
0-9900			50	AA	AA			x											
900-10			10	AA	AA			x											

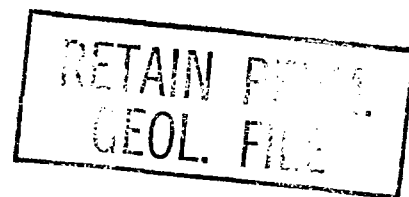
One grain with good pyrite and inclusions of cor. N-5

fine
very hard
calc.

SOUTHERN UNION SUPPLY COMPANY										WELL NO. #1		FARM Susco State 38		COUNTY Lea		STATE New Mexico											
LOCATION 1980's ss & ls, sec 35, T4DS-1233E										KIND OF SAMPLES 10' core		DESCRIBED BY M.L. Davis		DATE 7-11-81		ELEVATION 4210.51' KE		PAGE 8									
DEPTH	DOLOMITE			LIMESTONE			ANHY & GYP			SHALES			SANDSTONE			CHERT		POROSITY			STAIN		FLUOR		REMARKS		
	%	Color	Texture & Acc. Mat.	%	Color	Texture & Acc. Mat.	%	Col.	A.	Salt Pld.	blk	g	r	gn	%	Col.	Texture & Acc. Mat.	%	Col.	%	GR	Type	%	GR		%	Col.
10-20				10	AA	AA					X	X	X							51		wt Ls.					
20-30				20	AA	AA, fite					X	X	X														
30-40				40	buffy, f. ls. some carb. sl	some carb. sl dolomitic					X	X	X							51		wt Ls.					
40-50				40	AA	AA					X	X	X							51		wt Ls.					



MIDLAND, TEXAS 79701
September 17, 1981



Southern Union Exploration of Texas
1217 Main, Suite 400
Dallas, Texas 75202

Gentlemen:

SXT

The core from your Susco State "27" #1 well in Lea County, New Mexico has been analyzed for porosity, permeability and water and oil saturation as percent pore space occupied. Also, the calculated grain density has been reported. The results are herewith submitted in both tabular and graphic form. The graph is plotted on a scale of 5" to 100' to correlate with electric logs of the same scale.

We appreciate your business and hope the results are satisfactory.

Very truly yours,

L. C. Locke

L. C. Locke

2 copies to:

Southern Union Exploration of Texas - Dallas

1 copy to:

SEECO - Fayetteville, Ark.

1 copy to:

Southern Union Exploration of Texas - Carlsbad, N.M.

Rotary Engineers Laboratory, Inc.

CORE ANALYSIS

MIDLAND, TEXAS

CORE ANALYSIS

WY Southern Union Exploration of Texas
Susco State "27" #1
Inbe (Permo Penn.) **SXT**
Lea
New Mexico

FROM 9615 TO 9646
 DEPTH 9-14-81 ANALYST AMM
 ELEVATION 4194.1' G.L.; 4207.1' D.F.; 4208.1' K.B.
 LOCATION _____

GAMMA RAY LOG OF CORE

☐ SANDSTONE
☐ LIMESTONE
☐ DOLOMITE
☐ COAL

☐ SHALE
☐ CHERT
☒ ANHYDRITE
☐ LOST CORE

**RETAIN PERM.
GEOLOG. FILE**

TOTAL WATER SATURATION
 80 60 40 20

OIL SATURATION % P.V.
 80 60 40 20

PERMEABILITY

POROSITY

20 30 (MIN. CORING TIME)

8 6 4 2 0

30 20 10 0

9600

9610

9620

9630

9640

9650

9660

9670

9680

9690

9700

9710

9720

9730

9740

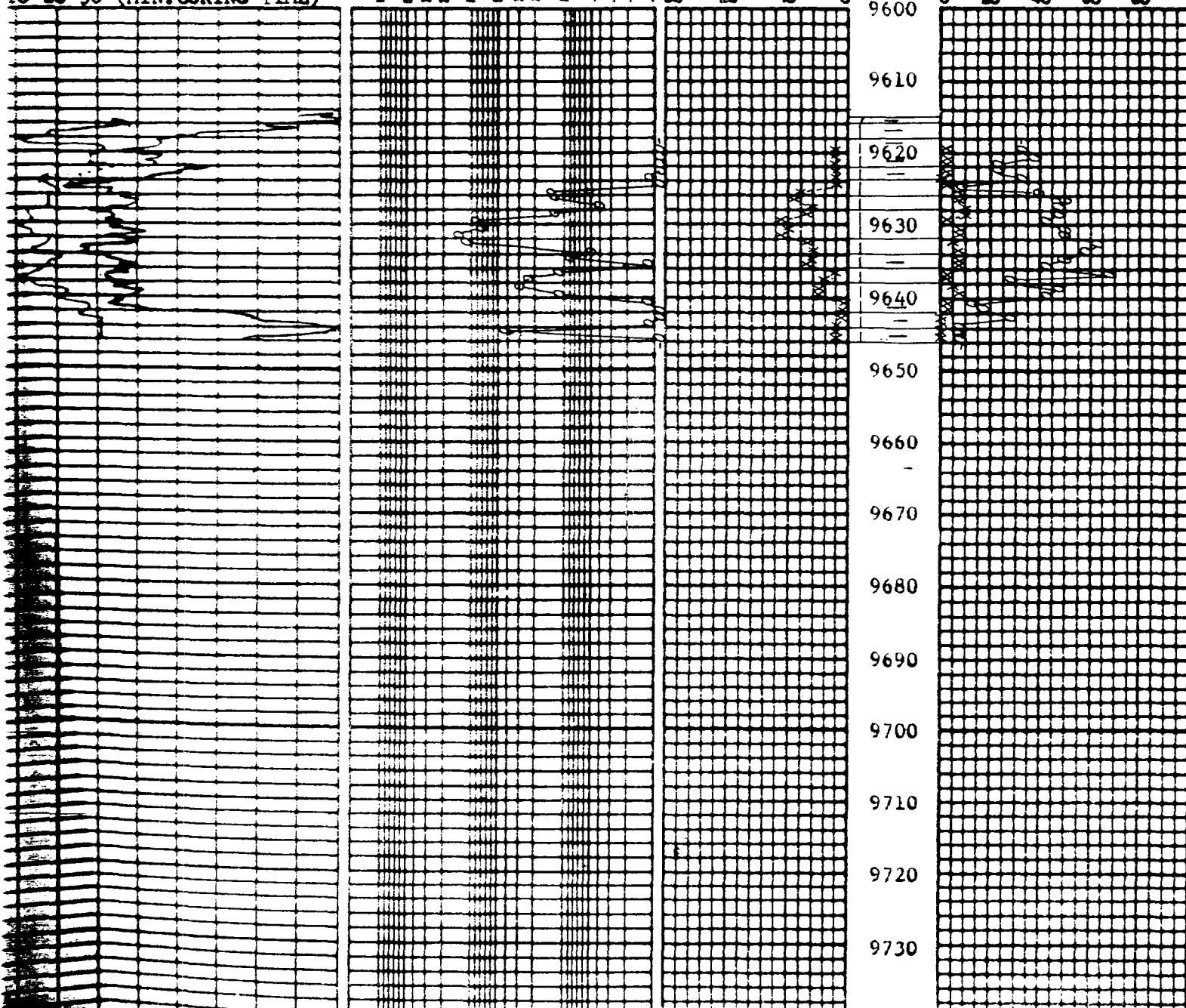
FROM _____ TO _____

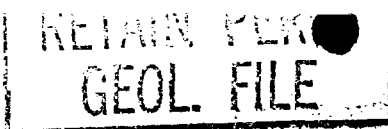
CORE ANALYSIS

FROM		TO	
9615		9646	
DEPTH			
DATE	9-14-81	ANALYST	AMM
ELEVATION 4194.1' G.L.; 4207.1' D.F.; 4208.1' K.B.			
LOCATION			

-

100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1





ROTARY ENGINEERS LABORATORIES
WHOLE CORE ANALYSIS TABULAR DATA

COMPANY Southern Union Expl. of Texas	WELL Susco State #27" #1	FIELD Inbe (Permo Penn.)
COUNTY Lea	STATE New Mexico	DATE 9-14-81
FORMATION Penn	TYPE ANALYSIS Whole Core	ANALYST AMM
		JOB NO. R-6281

REMARKS ELEVATION

SAMPLE NUMBER	DEPTH	RAT- ING	GRAIN DENS- ITY	PORO- SITY	WHOLE CORE PERMEABILITY MAX. 90°		FLUIDS Sw	FLUIDS So	FLO.	REMARKS
				Core #1 9615 - 9646 , Recovered 31'						
	9615-9619		No Analysis (Shale, Black, Sli. Limey, Sc. Fssl, No Show)							
1	9619-9620	VP	2.75	2.3	<.1	<.1	67.5	Tr	Tr	L.S., Shly, Sc. Fssl
2	-21	VP	2.74	2.1	<.1	<.1	61.5	Tr	Tr	L.S., Shly, Sc. Fssl
3	-22	VP	2.75	2.3	<.1	Plug	78.8	Tr	Tr	L.S., Shly, Sc. Fssl
4	-23	VP	2.73	2.2	<.1	<.1	78.3	Tr	0	L.S., Frc, Sc. S/P, Sc. Fssl
5	-24	VP	2.75	2.6	0.1	<.1	69.7	0.0	0	L.S., Frc, Sc. S/P, Sc. Fssl
6	9624-9625	VP	2.70	2.1	<.1	<.1	91.8	Tr	Tr	L.S., Frc, Sc. Fssl
7	-26	F	2.76	8.0	1.5	Plug	60.2	8.4	Spt	L.S., Frc, Vuggy, Stylo. Sc. F
8	-27	F	2.74	9.2	1.4	1.3	50.0	8.8	100	L.S., Frc, Sc. Vugs, Sc. Fssl
9	-28	F	2.74	6.3	0.4	0.3	53.4	10.1	100	L.S., Frc, Sc. Vugs, Sc. Fssl
10	-29	F	2.74	7.0	1.4	1.4	52.0	10.8	100	L.S., Frc, Vuggy, Sc. Fssl
11	9629-9630	F	2.72	11.3	9.7	5.8	58.2	3.7	100	L.S., Frc, Vuggy, Sc. Fssl
12	-31	F	2.72	10.2	8.8	Plug	50.6	9.4	100	L.S., Frc, Vuggy, Sc. Fssl
13	-32	F	2.72	11.4	16.3	Frc	50.9	9.4	100	L.S., Frc, Vuggy, Sc. Fssl
14	-33	F	2.74	7.3	12.4	10.8	37.6	5.3	100	L.S., Frc, Vuggy, Sc. Fssl
15	-34	F	2.78	6.8	0.5	0.4	43.9	7.5	100	L.S., Frc, Sc. Vugs, Sc. Fssl
16	9634-9635	P	2.68	6.1	0.9	0.8	50.8	6.1	Spt	L.S., Frc, Sc. Vugs, S/P, Sc. F
17	-36	VP	2.86	7.8	0.1	0.1	59.1	9.3	Spt	L.S., Frc, Sc. Vugs, S/P, Sc. F
18	-37	P	2.67	2.1	1.2	0.9	24.7	3.6	Spt	L.S., Frc, Sc. Vugs, Stylo, Sc
19	-38	P	2.71	4.9	2.4	0.1	71.1	3.1	Spt	L.S., Frc, Vuggy, Stylo, Sc. F
20	-39	P	2.69	5.9	3.0	2.9	53.6	10.1	100	L.S., Frc, Vuggy, Sc. Fssl
21	9639-9640	VP	2.70	5.1	1.1	0.3	59.4	11.3	Spt	L.S., Frc, Vuggy, Sc. Fssl
22	-41	VP	2.71	1.6	0.1	0.1	88.6	Tr	Spt	L.S., Frc, Sc. Vugs, S/P, Sc. F
23	-42	VP	2.73	1.5	<.1	<.1	81.7	Tr	0	L.S., S/P, Sc. Fssl
24	-43	VP	2.72	1.1	<.1	<.1	72.2	0.0	0	L.S., Sc. S/P, Sc. Fssl
25	-44	VP	2.61	2.3	0.1	Plug	94.0	0.0	0	L.S., Shly, Sc. Fssl
26	9644-9645	VP	2.72	2.6	4.1	1.8	94.8	0.0	0	L.S., Shly, Frc, Sc. Fssl
27	-46	VP	2.73	2.2	<.1	Plug	93.5	0.0	0	L.S., Shly, Sc. Fssl

Lithological Abbreviations

Frc	-----	Fracture
Fssl	-----	Fossiliferous
L.S.	-----	Limestone
Sc	-----	Scattered
Shly	-----	Shaly
Sli	-----	Slightly
S/P	-----	Shale Partings
Stylo	-----	Stylolites

One of the steps in analyzing "Full Diameter Cores" is to saturate the core to 100% saturation, then extract the fluids to determine the porosity.

Rotary Engineers Laboratory's procedure is to saturate each sample separately to 1000# PSI with water. The saturation characteristics of each sample can be observed as to volume of water injected, time and pressure required to inject each sample. The characteristics indicate the relative injectability of water as to the formation and we have rated each sample as:

- E - Excellent
- G - Good
- F - Fair
- P - Poor
- VP - Very Poor

STATE "D" #1

10 sk plug @ Surface

TOC @ 320'

BOC @ 420'

TOC @ 1770'

BOC @ 1870'

TOC @ 3825'

BOC @ 3925'

TOC @ 5150'

BOC @ 5250'

TOC @ 6940'

BOC @ 7040'

TOC @ 8650'

BOC @ 8750'

TOC @ 9515'

BOC @ 9550'

Perforations
9592-9606

15" hole

12 3/4" casing

12 3/4" @ 370'

8 5/8" stub @ 1820'

11" hole

8 5/8" casing

8 5/8" @ 3875'

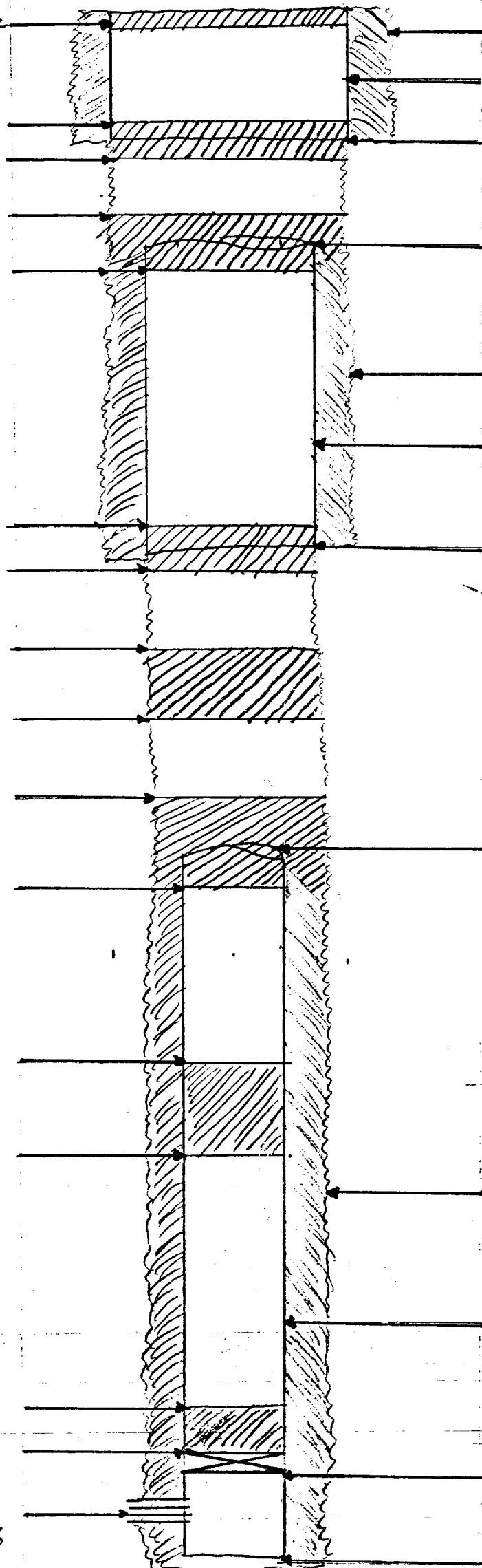
5 1/2" stub @ 7000

7 7/8" hole

5 1/2" casing

CIBP @ 9550'

5 1/2" @ 9666'



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

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

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.
-

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT-" (FORM C-1011 FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER <input type="checkbox"/>
2. Name of Operator Read & Stevens, Inc.		
3. Address of Operator P.O. Box 1518, Roswell, NM 88201		
4. Location of Well SANTA FE		

UNIT LETTER A . 660 FEET FROM THE North LINE AND 510 FEET FROM
THE East LINE. SECTION 28 TOWNSHIP 10S RANGE 33E NMPM

5. Elevation (Show whether DF, RT, GR, etc.)
4196.6' GL

7. Unit Agreement Name -
8. Farm or Lease Name State "D"
9. Well No. 1
10. Field and Pool, or Wildcat Inbe Permo Penn

12. County
Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER ☐

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1) Set CIBP @ 9550' w/30' cmt on top of plug.

2) Circulate hole with mud.

3) Spot 100' plug, 25sx, 8750'-8650'.

4) Cut casing off at \pm 7000'. Pull casing. TOC @ 7800'.

5) Spot 100' plug, 35sx, half in and half out of casing stub.

6) Spot 100' plug, 35sx, 5250'-5150'.

7) Spot 100' plug, 35sx, half in and half out of 8 5/8" casing shoe @ 3875', 3825'-3825'.

8) Cut 8 5/8" casing off @ \pm 1820'.

9) Spot 100' plug, 50sx, 1870'-1770', half in and half out of 8 5/8" casing stub.

10) Spot 100' plug, 65sx, 420'-320', across 13 3/8" casing shoe @ 370'.

11) Spot surface plug, 10sx, w/dry hole marker, 4"X10', with well description.

12) Clean off location and prepare for inspection.

Tag all Stub plugs
& Shoe plugs

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED

B. Stubby

TITLE Drilling & Production Manager

DATE 9-30-82

APPROVED BY *Eddie W. Dean*
CONDITIONS OF APPROVAL, IF ANY:

TITLE OIL & GAS INSPECTOR

DATE OCT 4 1982

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**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

MAY 27 10 31 AM '69

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
K-6978	

1a. TYPE OF WELL	
OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>
b. TYPE OF COMPLETION	
NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>
DEEPEN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>
DIFF. RESVR. <input type="checkbox"/>	OTHER <input type="checkbox"/>
2. Name of Operator	
Charles B. Read	
3. Address of Operator	
P. O. Box 2126 Roswell, New Mexico 88201	
4. Location of Well	

7. Unit Agreement Name
8. Farm or Lease Name
State "D"
9. Well No.
1
10. Field and Pool, or Wildcat
INBE (undesignated)

UNIT LETTER	A	LOCATED	660	FEET FROM THE	North	LINE AND	510	FEET FROM
THE East	LINE OF SEC.	28	TWP.	10S	RGE.	33E	NMPM	
15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)			19. Elev. Casinghead		
4/13/69	5/12/69	5/25/69	4196.6' GL					
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools			
9666'	9625'	No	0-TD					

12. County
Lea

24. Producing Interval(s), of this completion - Top, Bottom, Name	
9588' to 9606' Bough "C"	
25. Was Directional Survey Made	
No	
26. Type Electric and Other Logs Run	
Welex - Acoustic Velocity	
27. Was Well Cored	
No	

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12 3/4"	34#	370 RKB	15"	350 sx	None
8 5/8"	24# & 28# & 32#	3875 RKB	11"	300 sx	None
5 1/2"	15.5# & 17#	9666 RKB	7 7/8"	400 sx	None

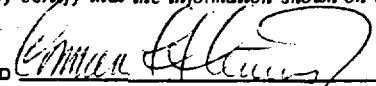
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SIZE	DEPTH SET	PACKER SET	
-				2 3/8"	9545.84	9483.21	

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
2 JS/F @ 9588', 9592', 9593', 9594', 9595', 9596', 9597', 9598', 9599', 9600', 9601, 9602 9603', 9604', 9605' & 9606'.		<table border="1"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>9592'-9606'</td> <td>1000 gals 15% NE acid</td> </tr> </table>		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	9592'-9606'	1000 gals 15% NE acid
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED						
9592'-9606'	1000 gals 15% NE acid						

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
5/25/69		Flowing				Producing	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
5/25/69	24	32/64		240	533	120	2220
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
155#	Pkr		240	533	120	47°	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
Vented	G. A. Snow

35. List of Attachments
Welex Acoustic Velocity Log & Deviation Survey

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.		
SIGNED 	TITLE Agent	DATE 5/26/69

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in triplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	1810	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	1870	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt		T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	2540	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers		T. Devonian	T. Menefee	T. Madison
T. Queen		T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg		T. Montoya	T. Mancos	T. McCracken
T. San Andres	3830	T. Simpson	T. Gallup	T. Ignacio Qtzite
T. Glorieta	5242	T. McKee	Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	T.
T. Blaine		T. Gr. Wash	T. Morrison	T.
T. Tubb	6715	T. Granite	T. Todilto	T.
T. Drinkard		T. Delaware Sand	T. Entrada	T.
T. Abo	7500	T. Bone Springs	T. Wingate	T.
T. Wolfcamp	8750	T.	T. Chinle	T.
T. Penn.		T.	T. Permian	T.
T. Cisco (Bough C)	9585	T.	T. Penn. "A"	T.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation
0	470		Surface Beds
470	1810		Red Sand & Shale
1810	1870		Anhy
1870	2540		Anhy & Salt
2540	2650		Sand & Shale
2650	3830		Dol & Anhy
3830	5242		Dol, Shale & Anhy
5242	5320		Sand & Shale
5320	6715		Dol, Salt, Anhy & Shale
6715	6850		Sand & Shale
6850	7040		Sand, Shale & Anhy
7040	7500		Anhy, Dol & Shale
7500	8750		Red & Green Shale & Dol
8750	9666		Lime & Shale

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	K-6978

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO ANOTHER WELL. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PURPOSES.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Charles B. Read	8. Farm or Lease Name State "D"
3. Address of Operator P. O. Box 2126 Roswell, New Mexico 88201	9. Well No. 1
4. Location of Well UNIT LETTER <u>A</u> , <u>660'</u> FEET FROM THE <u>North</u> LINE AND <u>510'</u> FEET FROM THE <u>East</u> LINE, SECTION <u>28</u> TOWNSHIP <u>10S</u> RANGE <u>33E</u> NMPM.	10. Field and Pool, or Wildcat INBE (undesignated)
15. Elevation (Show whether DF, RT, GR, etc.)	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

5-15-69: Ran 301 jts of 5 $\frac{1}{2}$ ", 15.5# & 17#, K-55 & N-80, csg - 9685.65' set @ 9666' RKB. Cmt w/400 sx 50/50 Incor Poz, 2% Gel & 8# salt/sx, 3/4 of 1% CFR-2 in last 200 sx. Plug down @ 12:40 PM on 5-15-69. WOC 18 hrs. Press test to 1500# for 30 min. Test OK.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE Agent DATE 5-19-69

APPROVED BY [Signature] TITLE _____ DATE _____

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Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	K-6978

<p>SUNDRY NOTICES AND REPORTS ON WELL OPERATIONS</p> <p>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK OR TO CHANGE THE WELL OR TO USE FOR OTHER PURPOSES. USE APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.)</p>		<p>7. Unit Agreement Name</p> <p>8. Farm or Lease Name</p> <p>State "D"</p> <p>9. Well No.</p> <p>10. Field and Pool, or Wildcat</p> <p>INBE (Undesignated)</p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. Name of Operator</p> <p>Charles B. Read</p> <p>3. Address of Operator</p> <p>P. O. Box 2126 Roswell, New Mexico 88201</p> <p>4. Location of Well</p> <p>UNIT LETTER <u>A</u> : <u>660'</u> FEET FROM THE <u>North</u> LINE AND <u>510'</u> FEET FROM THE <u>East</u> LINE, SECTION <u>28</u> TOWNSHIP <u>40S</u> RANGE <u>33E</u> NMPM.</p> <p>15. Elevation (Show whether DF, RT, GR, etc.)</p> <p>Unknown</p>	<p>12. County</p> <p>Lea</p>	

<p>16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data</p> <p>NOTICE OF INTENTION TO:</p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/> OTHER <input type="checkbox"/> CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>SUBSEQUENT REPORT OF:</p>
---	--	------------------------------

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

4-19-69: Ran 101 jts 8 5/8", 24#, 28#, 32# FWPS csg, 3880.44' set @ 3875' RKB. Cmt w/200 sx 50/50 Incor Poz, 2% gel, 8# salt per sx & 100 sx 50/50 Incor Poz, 2% cacl, 8# salt. Plug down @ 4:30 PM. WOC 18 hrs. Press test to 1500# for 30 min. Test OK.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE Agent DATE 4-22-69

APPROVED BY [Signature] TITLE _____ DATE _____

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. K-6978	

SUNDRY NOTICES AND REPORTS ON WELLS <small>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG A WELL. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PURPOSES.)</small>	
1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- 2. Name of Operator Charles B. Read 3. Address of Operator P. O. Box 2126 Roswell, New Mexico 88201 4. Location of Well UNIT LETTER <u>A</u> , <u>660'</u> FEET FROM THE <u>North</u> LINE AND <u>510'</u> FEET FROM THE <u>East</u> LINE, SECTION <u>28</u> TOWNSHIP <u>10S</u> RANGE <u>33E</u> NMPM. 15. Elevation (Show whether DF, RT, GR, etc.) Unknown	7. Unit Agreement Name - 8. Farm or Lease Name State "D" 9. Well No. 1 10. Field and Pool, or Wildcat INBE (undesignated) 12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/> CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>
---	--	--

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

4-13-69: Spudded @ 10:30 AM.

Ran 9 jts 12 3/4", 8 rd, 34#, csg, 371' set @ 370' RKB. Cmt w/350 sx class H, 2% cacl. Plug down @ 5 PM. Cmt circ. WOC 18 hrs. Press test to 1500# for 30 min. Test OK.

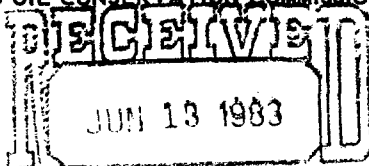
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>James H. [Signature]</u>	TITLE <u>Agent</u>	DATE <u>4-15-69</u>
APPROVED BY <u>[Signature]</u>	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

30-025-23034

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NEW MEXICO OIL CONSERVATION COMMISSION



OIL CONSERVATION DIVISION

Form C-101
Revised 1-4-65

5A. Indicate Type of Lease

STATE ☒ FEE ☐

5. State Oil & Gas Lease No.

K-6978

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. Farm or Lease Name	
DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		State "D"	
2. Name of Operator		9. Well No.	
Charles B. Read		1	
3. Address of Operator		10. Field and Pool, or Wildcat	
P. O. Box 2126, Roswell, New Mexico 88201		INBE (Undesignated)	
4. Location of Well		12. County	
UNIT LETTER <u>A</u> LOCATED <u>660'</u> FEET FROM THE <u>North</u> LINE		Lea	
AND <u>510'</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>28</u> TWP. <u>10S</u> RGE. <u>33E</u> NMPM			
19. Proposed Depth		19A. Formation	
9750'		Bough "C"	
20. Rotary or C.T.		Rotary	
21. Elevations (Show whether DF, RT, etc.)		22. Approx. Date Work will start	
Unknown		March 15, 1969	
21A. Kind & Status Plug. Bond		21B. Drilling Contractor	
Statewide		Cactus Drilling Corp.	

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15"	12 3/4"	33#	350'	350 sx	Cir. to surface
11"	8 5/8"	24# & 32#	3880'	350 sx	2700'
7 7/8"	5 1/2"	14#, 15.5# & 17.5#	9750'	250 sx	7900'

THE COMMISSION HAS REVIEWED
24,100' DEEP TO RUNNING 123/4
CASING.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED.

EXPIRES 5-26-69

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed [Signature] Title Agent Date Feb. 24, 1969

(This space for State Use)

APPROVED BY [Signature] TITLE Agent DATE Feb. 24, 1969

CONDITIONS OF APPROVAL, IF ANY

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

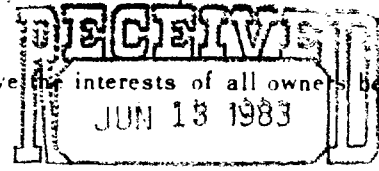
Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator CHARLES B. READ			Lease STATE D		Well No. 1
Plat Letter A	Section 28	Township 10 SOUTH	Range 33 EAST	County LEA	
Actual Footage Location of Well:					
660	feet from the	NORTH	line and	510	feet from the EAST line
Ground Level Elev. 4196.6	Producing Formation Bough "C"		Pool Inbe (Undesignated)		Dedicated Acreage: N/2NE/4 80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____



If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Norman L. Stevens, Jr.

Name
Norman L. Stevens, Jr.

Position
Agent

Company
Charles B. Read

Date
February 18, 1969

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
FEB. 13, 1969

Registered Professional Engineer and/or Land Surveyor

John W. White

Certificate No. **676**

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	GAS	
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PRODUCTION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE O. C. C.
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

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JUN 13 1969
OIL CONSERVATION DIVISION
SANTA FE

Operator Charles B. Read	
Address P. O. Box 2126 Roswell, New Mexico 88201	
Reason(s) for filing (Check proper box)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input checked="" type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name State "D"	Well No. 1	Pool Name, Including Formation INBE (undesignated)	Kind of Lease State, Federal, or Other	Lease No. K-6978
Location Unit Letter 'A' ; 660 Feet From The North Line and 510 Feet From The East				
Line of Section 28 Township 10S Range 33E, NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Pan American Petroleum Corp. (trucks)	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1725, Midland, Texas 79701					
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Warren Petroleum Corp.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1589, Tulsa, Oklahoma 74102					
If well produces oil or liquids, give location of tanks.	Unit A	Sec. 28	Twp. 10S	Rge. 33E	Is gas actually connected? No	When 30 days

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well	New Well <input checked="" type="checkbox"/>	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded 4/13/69	Date Compl. Ready to Prod. 5/25/69	Total Depth 9666'	P.B.T.D. 9625'					
Elevations (DF, RKB, RT, GR, etc.) 4196.6' GL	Name of Producing Formation Bough "C"	Top Oil/Gas Pay 9586'	Tubing Depth 9545.84'					
Perforations 9588' to 9606'			Depth Casing Shoe 9666'					
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
15"	12 3/4"	370 RKB	350 sx					
11"	8 5/8"	3875 RKB	300 sx					
7 7/8"	5 1/2"	9666 RKB	400 sx					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)


Date First New Oil Run To Tanks 5/25/69	Date of Test 5/25/69	Producing Method (Flow, pump, gas lift, etc.) Flowing	
Length of Test 24 hrs	Tubing Pressure 155#	Casing Pressure Pkr	Choke Size 32/64
Actual Prod. During Test 360	Oil - Bbls. 240	Water - Bbls. 120	Gas - MCF 533

GAS WELL

Actual Prod. Test - MCF/D -	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


(Signature)

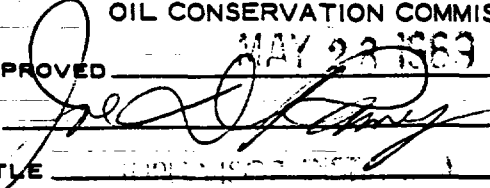
Agent

5/26/69

(Title)

(Date)

OIL CONSERVATION COMMISSION

APPROVED  , 19
BY
TITLE

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I. Operator Charles B. Read
Address P.O. Box 2126, Roswell, New Mexico 88201
Reason(s) for filing (Check proper box)
New Well ☐ Change in Transporter of: ☒ Oil ☐ Dry Gas ☐
Recompletion ☐ Casinghead Gas ☐ Condensate ☐
Change in Ownership ☐
Other (Please explain) **CHANGE**
OK 4-70
RECEIVED
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OIL CONSERVATION DIVISION
SANTA FE

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>State "D"</u>	Well No. <u>1</u>	Pool Name, including Formation <u>Inbe Undesignated</u>	Kind of Lease <u>State, K-6978</u>	Lease No. <u>K-6978</u>
Location Unit Letter <u>A</u> : <u>660</u> Feet From The <u>North</u> Line and <u>510</u> Feet From The <u>East</u> Line of Section <u>28</u> Township <u>10S</u> Range <u>33E</u> , NMPM, <u>Lea</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> <u>Service Pipeline Company</u>	Address (Give address to which approved copy of this form is to be sent) <u>3411 Knoxville Ave., Lubbock, Texas 79413</u>	
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> <u>Warren Petroleum Corporation</u>	Address (Give address to which approved copy of this form is to be sent) <u>P.O. Box 1589, Tulsa, Oklahoma 74102</u>	
If well produces oil or liquids, give location of tanks. Unit <u>A</u> Sec. <u>28</u> Twp. <u>10S</u> Rge. <u>33E</u>	Is gas actually connected?	When

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'tv.	Diff. Res'tv.
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GP, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Dr. Tucker
(Signature)

Production Clerk

(Title)

July 30, 1969

(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19____
BY John W. Runyan
Geologist
TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

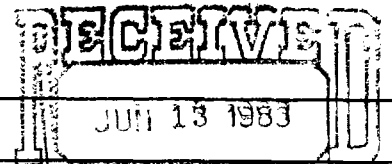
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65



I. Operator
Read & Stevens, Inc.
Address
P.O. Box 2126, Roswell, New Mexico 88201
Reason(s) for filing (Check proper box)
New Well ☐ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☒ Casinghead Gas ☐ Condensate ☐
Other (Please explain)
Effective January 1, 1971

If change of ownership give name and address of previous owner **Charles B. Read, P.O. Box 2126, Roswell, New Mexico 88201**

II. DESCRIPTION OF WELL AND LEASE

Lease Name State "D"	Well No. 1	Pool Name, including Formation Inbe Permo Penn	Kind of Lease State, K-M-P-K	Lease No. K-6978
Location Unit Letter A ; 660 Feet From The North Line and 510 Feet From The East Line of Section 28 Township 10S Range 33E , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Amoco Pipeline Company	Address (Give address to which approved copy of this form is to be sent) 3411 Knoxville Ave., Lubbock, Texas 79413			
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Warren Petroleum Corp.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1589, Tulsa, Oklahoma 74102			
If well produces oil or liquids, give location of tanks.	Unit A	Sec. 28	Twp. 10S	Rge. 33E
Is gas actually connected?		When		

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, FKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Production Clerk
(Title)
January 27, 1971
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19____
BY
TITLE _____

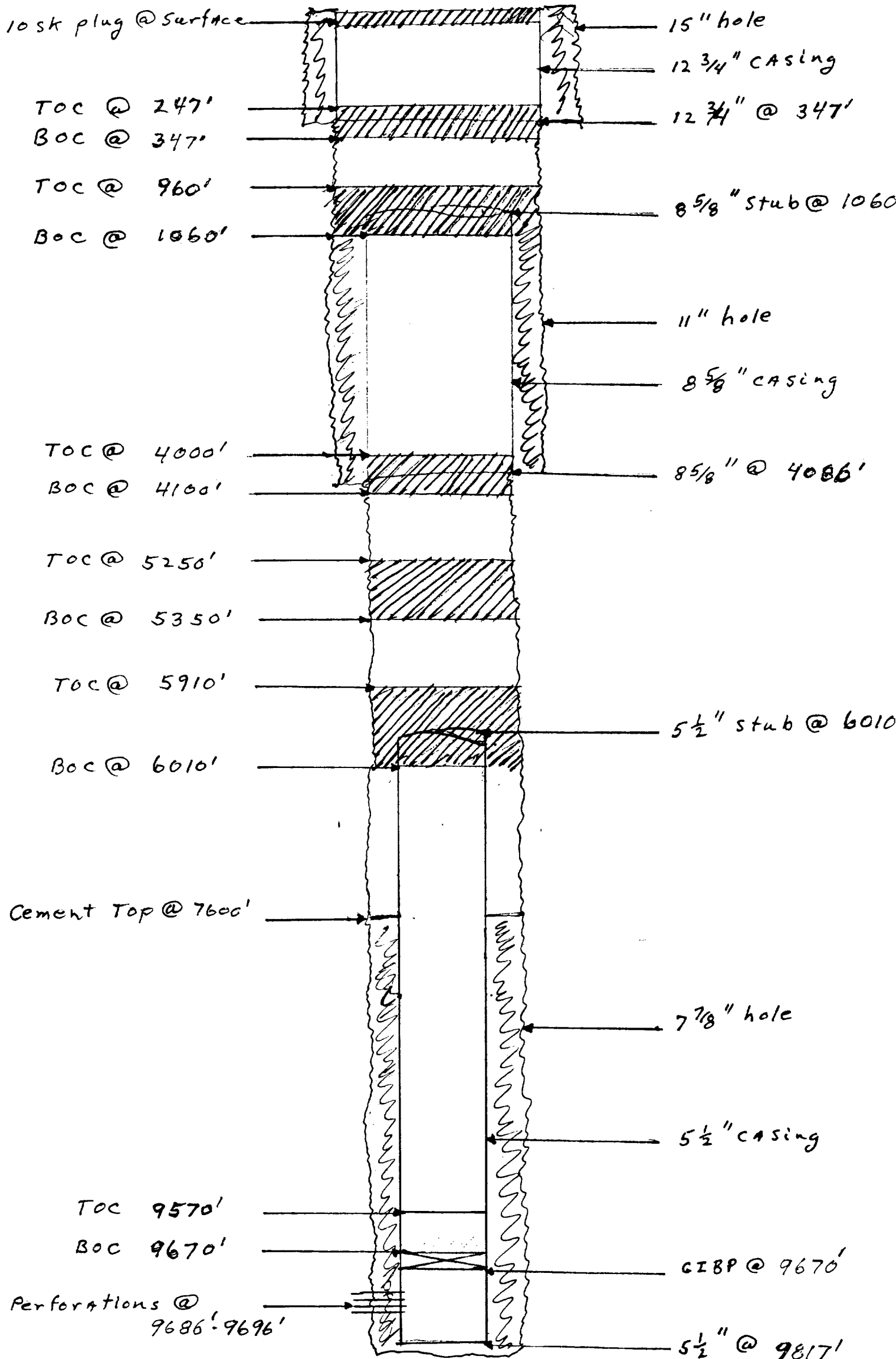
This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.



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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. E9669
7. Unit Agreement Name
8. Farm or Lease Name N.M. "CC" St.
9. Well No. 4
10. Field and Pool, or Wildcat Inbe Penn
12. County Lea

SUNDY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	2. Name of Operator KKA Corporation	3. Address of Operator 405 Wall Towers East - Midland, Texas 79701	4. Location of Well UNIT LETTER F 1980 FEET FROM THE West LINE AND SANTA FE 2586 FEET FROM THE North LINE, SECTION 27 TOWNSHIP 10-S RANGE 33-E NMPM.	15. Elevation (Show whether DF, RT, GR, etc.) 4208 DF
--	--	---	---	--

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>
OTHER <input type="checkbox"/>	OTHER <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11-6-72 Moved in csg. pulling unit.

11-8-72 Spotted 30 sk plug 9670'-9570' on bridge plug. Loaded csg. w/gel-brine laden fluid.

11-10-72 Shot Csg. 6010'. Pulled 109 jts. 5 1/2" csg.

11-11-72 Spotted 30 sk plug @6010'-5910' & 30 sk plug @5350'-5250'.

11-13-72 Shot 8-5/8" csg. @1060'; pulled 1060' of 8-5/8" csg.; spotted 30 sk plug @4100'-4000' & 55 sk plug @1060'-960' & 55 sk plug @347'-247'.

11-14-72 Set 10 sk surface plug. Installed marker & cleaned location.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Sprix TITLE Agent DATE 12-14-72

APPROVED BY John W. Runyan TITLE Geologist DATE OCT 2 1974

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

<p align="center">SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)</p>		<p>5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/></p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>5. State Oil & Gas Lease No. E9669</p>
<p>2. Name of Operator KKA Corporation</p>		<p>7. Unit Agreement Name</p>
<p>3. Address of Operator 405 Wall Towers East - Midland, Texas 79701</p>		<p>8. Farm or Lease Name New Mexico "CC" St.</p>
<p>4. Location of Well UNIT LETTER <u>F</u> <u>1980</u> FEET FROM THE <u>West</u> LINE AND <u>2086</u> FEET FROM THE <u>North</u> LINE, SECTION <u>27</u> TOWNSHIP <u>10-S</u> RANGE <u>33-E</u> NMPM.</p>		<p>9. Well No. 4</p>
<p>15. Elevation (Show whether DF, RT, GR, etc.) 4208' DF</p>		<p>10. Field and Pool, or Wildcat Inbe Penn</p>
<p>12. County Lea</p>		

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

PLUGGING PROCEDURE:

- 30 sk cement plug @9600' - Perf. 9686-9696; fill hole w/9.5 laden fluid. 25 sk x 3/100 bbls
- Top of cement behind 5 1/2" csg. @7600'.
- Pull 5 1/2" csg. from approx. 7200'.
- 20 sk cement plug on top of 5 1/2" csg. stub.
- 20 sk cement plug @5350' - top of Glorieta.
- 20 sk cement plug @4100' - bottom of 8-5/8" csg.
- Pull 8-5/8" csg. from approx. 1000' - 20 sks. cement @ stub.
- 20 sk plug @base of surface csg. @347'.
- 10 sk plug top of 11-3/4" csg.; set marker; & clean up location.

24 hr. notice prior to setting plugs

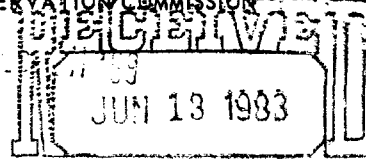
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>[Signature]</u>	TITLE <u>Agent</u>	DATE <u>10-17-72</u>
APPROVED BY <u>[Signature]</u>	TITLE <u></u>	DATE <u>10-17-72</u>
CONDITIONS OF APPROVAL, IF ANY:		

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65



5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
E-9669

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Humble Oil & Refg Co.	8. Farm or Lease Name New Mexico CC State
3. Address of Operator Box 1600 - Midland, Texas 79701	9. Well No. 4
4. Location of Well UNIT LETTER F 1980 FEET FROM THE W LINE AND 2086 FEET FROM THE N LINE, SECTION 27 TOWNSHIP 10-S RANGE 33-E NMPM.	10. Field and Pool, or Wildcat Inbe Penn
15. Elevation (Show whether DF, RT, GR, etc.) 4208 OF	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

MIRU, pulled rods & tbq. Set RTTS pkr @ 9581 and treated w/ 10,000 gal NE acid from 9686 to 9696' as follows:
2500gal - 20% NE acid @ 0 psi and 7BPM then 200# Unibeads;
2500gal - 20% NE acid @ 0 psi and 7BPM then 200# Unibeads;
2500gal - 20% NE acid @ 0 psi and 8BPM then 400# Unibeads;
2500gal - 20% NE acid @ 0 psi and 8BPM
flushed formation w/ 1300# @ 8BPM. Pulled out treating equipment, reran production assembly and return Well to pumping Status.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED **A. L. Clemmer** TITLE **Unit Head** DATE **7/1/69**

APPROVED BY **[Signature]** TITLE _____ DATE _____

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NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
E 9669

1a. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ DRY ☐
b. TYPE OF COMPLETION
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐
2. Name of Operator
Humble Oil & Refg Co
3. Address of Operator
Box 1600- Midland, Texas 79701
4. Location of Well
UNIT LETTER **F** LOCATED **1980** FEET FROM THE **W** LINE AND **2086** FEET FROM
THE **N** LINE OF SEC. **27** TWP. **10-S** RGE. **33-E** NMPM

7. Unit Agreement Name
8. Farm or Lease Name
New Mexico CC State
9. Well No.
4
10. Field and Pool, or Wildcat
Inbe Penn
12. County
Lea

15. Date Spudded
10-6-68
16. Date T.D. Reached
10-30-68
17. Date Compl. (Ready to Prod.)
11-8-68
18. Elevations (DF, RKB, RT, GR, etc.)
4208 DF
19. Elev. Casinghead
-
20. Total Depth
9830
21. Plug Back T.D.
-
22. If Multiple Compl., How Many
-
23. Intervals Drilled By
Rotary Tools
9830
24. Producing Interval(s), of this completion - Top, Bottom, Name
9686-9696 Rough C
25. Was Directional Survey Made
No
26. Type Electric and Other Logs Run
27. Was Well Cored
No

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4"	42	347	15"	350 AX	None
8 5/8"	24	4086	11"	900 AX	None
5 1/2"	14-15.5-17	9817	7 7/8	325 AX	None

29. LINER RECORD
SIZE TOP BOTTOM SACKS CEMENT SCREEN
30. TUBING RECORD
SIZE DEPTH SET PACKER SET
2" EA 9702 9650'
31. Perforation Record (Interval, size and number)
9686-9696 - w/ 2 shots/ft.
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED
9686-9696 1000 gal 15% NE Acid

33. PRODUCTION
Date First Production
11-8-68
Production Method (Flowing, gas lift, pumping - Size and type pump)
Flowing
Well Status (Prod. or Shut-in)
Prod.
Date of Test
11-13-68
Hours Tested
24
Choke Size
20/64
Prod'n. For Test Period
248
Oil - Bbl.
248
Gas - MCF
263
Water - Bbl.
2
Gas-Oil Ratio
1060
Flow Tubing Press.
250
Casing Pressure
-
Calculated 24-Hour Rate
248
Oil - Bbl.
248
Gas - MCF
263
Water - Bbl.
2
Oil Gravity - API (Corr.)
41.2
34. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold - Warren
Test Witnessed By
H.F. Roberson
35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.
SIGNED **R. L. Berry** TITLE **Unit Head** DATE **11-18-68**

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1875</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt <u>1963</u>	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2568</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>3860</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta <u>5289</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb <u>6750</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo <u>7605</u>	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp <u>8800</u>	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) <u>9682</u>	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	364		Surface				
364	940		Red beds				
940	1843		Red beds & Salt				
1843	3471		Anhy & Salt				
3471	3760		Anhydrite				
3760	3880		Shale & Lime				
3880	4068		anhy & Lime				
4068	7350		Lime				
7350	7502		Lime & shale				
7502	7661		Lime				
7661	7820		Lime & shale				
7820	7863		Lime				
7863	8397		Lime & Shale				
8397	9830	TO	Lime.				

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. E-9669
7. Unit Agreement Name
8. Farm or Lease Name New Mexico CC State
9. Well No. 4
10. Field and Pool, or Wildcat Inbe Penn
12. County Lea

SUNDRY NOTICES AND REPORTS ON OIL AND GAS OPERATIONS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG A WELL OR TO OBTAIN A REVERSE OIL OR GAS WELL PERMIT - USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS)

1. OIL WELL ☒ GAS WELL ☐ OTHER- **Drilling**

2. Name of Operator
Humble Oil & Refg Co.

3. Address of Operator
Box 1600 - Midland, Texas 79701

4. Location of Well
UNIT LETTER **F**, **1980** FEET FROM THE **W** LINE AND **2086** FEET FROM
THE **N** LINE, SECTION **27**, TOWNSHIP **10-S**, RANGE **33-E**, NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
Later

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/> Completion

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Drld to 9830' TO. Ran 9818' - 5 1/2" OD 14 - 15.5 and 17#
Csg set at 9830'. Cemented w/ 125 SX reg cmt w/
12# gel and 35# BJR-5 followed by 200 SX incor
Cement. WOC 18 hrs and test csg w/ 2000 PSI
for 30 min and held OK. Temp survey indicates
top cmt @ 7600'. Released rig and move in pulling
unit. Swab well. Perf 5 1/2" csg from 9686 to 9696'.
w/ 2 shots/ft. Acidized perfs w/ 1000 gal 15% HCl acid.
Max. 1450, min 200, AIR 2 BPM. ISIP 300 PSI. Swabbed
well in and began potential test, made 24.8 BO,
GOR 1060 on 24 hr test flowing.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED R. T. Berry	TITLE Unit Head	DATE 11-18-68
APPROVED BY [Signature]	TITLE DISTRICT	DATE 11-18-68
CONDITIONS OF APPROVAL, IF ANY:		

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>

5. State Oil & Gas Lease No.
E-9669

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Drilling</u>	7. Unit Agreement Name
2. Name of Operator	8. Farm or Lease Name
<u>Humble Oil & Refg. Co.</u>	<u>New Mexico CC State</u>
3. Address of Operator	9. Well No.
<u>Box 1600 - Midland, Texas 79701</u>	<u>4</u>
4. Location of Well	10. Field and Pool, or Wildcat
UNIT LETTER <u>F</u> <u>1980</u> FEET FROM THE <u>W</u> LINE AND <u>2086</u> FEET FROM	<u>Inbe Penn</u>
THE <u>N</u> LINE, SECTION <u>27</u> TOWNSHIP <u>10-5</u> RANGE <u>33E</u> NMPM.	
15. Elevation (Show whether DF, RT, GR, etc.)	12. County
<u>Later</u>	<u>Lea</u>

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK	<input type="checkbox"/>
TEMPORARILY ABANDON	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>
OTHER	<input type="checkbox"/>

PLUG AND ABANDON	<input type="checkbox"/>
CHANGE PLANS	<input type="checkbox"/>
OTHER	<input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
COMMENCE DRILLING OPNS.	<input checked="" type="checkbox"/>	PLUG AND ABANDONMENT	<input type="checkbox"/>
CASING TEST AND CEMENT JOBS	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

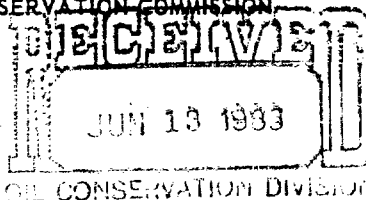
MIRU - Spud well in @ 9:00 AM on 10-6-68. Drld. to 364' and ran and set 347' of 11 3/4" 0042# csq @ 364'. Cemented w/ 350 sax req. Cmt w/ 4% gel and 7 sax Cachi. Cmt circulated. WOC. 18 3/4 hrs and tested 11 3/4" csq w/ 800 psi and held OK. Resumed drlg operations and drilled to 4100'. Ran and set 4086' of 8 7/8" 0024# and 32# csq @ 4100'. Cemented w/ 550 sax incor Cmt w/ 4% Cachi and 8% gel in 350 sax. WOC 18 hrs. Test 8 7/8" 00 csq w/ 1000 psi and held OK. Resume drlg operations.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>[Signature]</u>	TITLE <u>Unit Head</u>	DATE <u>10-25-68</u>
APPROVED BY <u>[Signature]</u>	TITLE <u>SUPERVISOR DISTRICT 1</u>	DATE
CONDITIONS OF APPROVAL, IF ANY:		

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NEW MEXICO OIL CONSERVATION COMMISSION



Form C-101
Revised 1-4-65

5A. Indicate Type of Lease

STATE ☒ FEE ☐

5. State Oil & Gas Lease No.

E-9669

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. Farm or Lease Name New Mexico "CC" State	
2. Name of Operator HUMBLE OIL & REFINING COMPANY		9. Well No. 4	
3. Address of Operator BOX 1600, MIDLAND, TEXAS		10. Field and Pool, or Wildcat Inbe Penn.	
4. Location of Well UNIT LETTER F LOCATED 1,980 FEET FROM THE West LINE AND 2,086 FEET FROM THE North LINE OF SEC. 27 TWP. 10-S RGE. 33-E NMPM		12. County Lea	
19. Proposed Depth 9,800'		19A. Formation Penn.	
21. Elevations (Show whether DF, RT, etc.) To be filed later		20. Rotary or C.T. Rotary	
21A. Kind & Status Plug. Bond Blanket on file		22. Approx. Date Work will start October 1, 1968	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15"	11 3/4"	42#	350'	350 Sacks	Circ. to Surface
11"	8 5/8"	24# & 32#	4,100'	450 Sacks	*
7 7/8"	5 1/2"	17#, 15.5# & 14#	9,800	325 Sacks	**

*Circ. back to approximately 2,500 feet w/8% Gel cement and use 200 sacks neat around shoe.

**Circ. back at least 600 feet above top of the uppermost pay zone, estimated to be 8,000 feet w/12% Gel and use 200 sacks neat around shoe.

Minimum mud program for samples.

Howco method of cementing to be used.

THE COMMISSION MUST BE NOTIFIED
24 HOURS PRIOR TO RUNNING 11 3/4"
CASING.

FOR THE COMMISSION
CALLING FOR WORKING

12-23-68

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Joe Pinkerton Title Proration Supervisor Date 9-19-68

(This space for State Use)

APPROVED BY Joe J. Stoney TITLE SEAL REPORT & SUBJECT DATE 9-20-68

CONDITIONS OF APPROVAL, IF ANY:

Humble Les. No. 220234

State Les. No. E-9669

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

Federal Les. No. _____

All distances must be from the outer boundaries of the Section.

JUN 13 1968

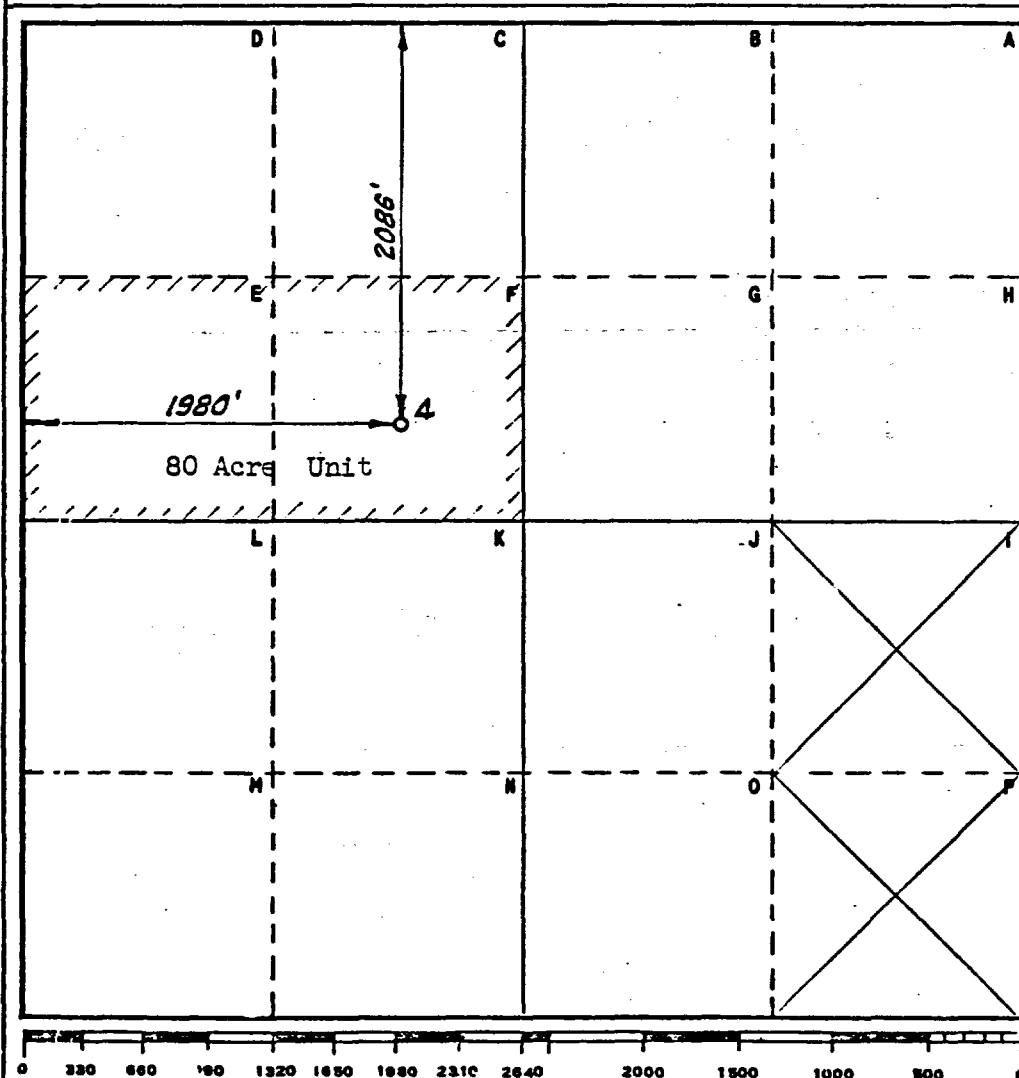
Operator Humble Oil & Refining Co.		Lease New Mexico "C" State		Well No.
Unit Letter F	Section 27	Township 10 South	Range 33 East	County Lea SANTA FE
Actual Footage Location of Well: 2086 feet from the North line and 1980 feet from the West line				
Ground Level Elev. Later	Producing Formation Penn Bough "C"	Pool Inbe-Penn	Dedicated Acreage 80 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *J. E. Pinkerton*
Position *Protraction Supervisor*
Company Humble Oil & Refining Co.
Box 1600 Midland, Texas

Date *Sept. 18, 1968*

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed *Sept. 16, 1968*

Registered Professional Engineer and/or Land Surveyor

W. S. Hesterfield

Certificate No. 1382

10 Miles East of Caprock

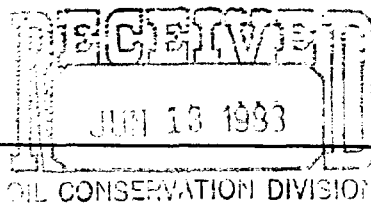
New Mexico

C.E. Sec. File No. A-3860

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	GAS	
OPERATOR		
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65



I. Operator
Amini Oil Corporation

Address
400 Wall Towers West, Midland, Texas 79701

Reason(s) for filing (Check proper box)
New Well ☐ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☒ Casinghead Gas ☐ Condensate ☐

Other (Please explain)

If change of ownership give name and address of previous owner
Humble Oil & Refining, Co. P.O. Box 1600, Midland, Texas 79701

II. DESCRIPTION OF WELL AND LEASE

Lease Name New Mexico "CC" State	Well No. 4	Pool Name, Including Formation Inbe-Pennsylvanian	Kind of Lease State, Federal or Fee State	Lease No. E9669
Location Unit Letter <u>F</u> ; <u>1980</u> Feet From The <u>West</u> Line and <u>2086</u> Feet From The <u>North</u> Line of Section <u>27</u> Township <u>10-S</u> Range <u>33-E</u> , NMPM, <u>Lea</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Service Pipeline Company <u>Amini</u>	Address (Give address to which approved copy of this form is to be sent) 3411 Knoxville, Lubbock, Texas 79408					
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Warren Petroleum Corp.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1589, Tulsa, Oklahoma 74102					
If well produces oil or liquids, give location of tanks.	Unit J	Sec. 27	Twp. 10-S	Rge. 33-E	Is gas actually connected? Yes	When 11-12-68

If this production is commingled with that from any other lease or pool, give commingling order number: CTB172

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, CR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

C. K. Dilla
(Signature)

Controller

(Title)

June 21, 1971

(Date)

OIL CONSERVATION COMMISSION

APPROVED

BY

TITLE

SUPERVISOR DISTRICT

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

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TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

Operator <i>Humble Oil & Ref Co</i>	
Address <i>Box 1600 - Midland, Texas 79701</i>	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well <input checked="" type="checkbox"/>	Change in Transporter <input checked="" type="checkbox"/>
Recompletion <input type="checkbox"/>	Oil <input checked="" type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

4-70

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name <i>New Mexico CC State</i>	Well No. <i>4</i>	Pool Name, Including Formation <i>Inbe Penn</i>	Kind of Lease <input checked="" type="radio"/> State <input type="radio"/> Federal or Fee
Location Unit Letter <i>F</i> ; <i>1980</i> Feet From The <i>W</i> Line and <i>2086</i> Feet From The <i>N</i> Line of Section <i>27</i> , Township <i>10-S</i> Range <i>33-E</i> , NMPM, <i>Lea</i> County			

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> <i>Amador Pipe Line Co</i>	Address (Give address to which approved copy of this form is to be sent) <i>3411 Knoxville - Lubbock Tex</i>
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> <i>Warren Pet Co</i>	Address (Give address to which approved copy of this form is to be sent) <i>Box 1589 - Tulsa, Okla</i>
If well produces oil or liquids, give location of tanks.	Unit <i>J</i> Sec. <i>27</i> Twp. <i>10-S</i> Rge. <i>33-E</i> Is gas actually connected? <i>Yes</i> When <i>11-12-68</i>

If this production is commingled with that from any other lease or pool, give commingling order number: *CTB 172*

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well <input type="checkbox"/>	New Well <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Res'v. <input type="checkbox"/>	Diff. Res'v. <input type="checkbox"/>
Date Spudded <i>10-6-68</i>	Date Compl. Ready to Prod. <i>11-8-68</i>	Total Depth <i>9830'</i>	P.B.T.D. <i>-</i>					
Pool <i>Inbe Penn</i>	Name of Producing Formation <i>Pennsylvanian</i>	Top Oil/Gas Pay <i>9686'</i>	Tubing Depth <i>9702'</i>					
Perforations <i>9686-9696 - w/ 2 shots / ft.</i>	Depth Casing Shoe <i>9830'</i>							
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
<i>15"</i>	<i>11 3/4"</i>	<i>347</i>	<i>350</i>					
<i>11"</i>	<i>8 7/8"</i>	<i>4086</i>	<i>900</i>					
<i>7 7/8"</i>	<i>5 1/2"</i>	<i>9818</i>	<i>325</i>					
<i>5 1/2"</i>	<i>2 3/8"</i>	<i>9702</i>						

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks <i>11-8-68</i>	Date of Test <i>11-13-68</i>	Producing Method (Flow, pump, gas lift, etc.) <i>Flow</i>	
Length of Test <i>24 hrs</i>	Tubing Pressure <i>250</i>	Casing Pressure <i>-</i>	Choke Size <i>20/64</i>
Actual Prod. During Test <i>250</i>	Oil - Bbls. <i>248</i>	Water - Bbls. <i>2</i>	Gas - MCF <i>263</i>

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

R. J. Perry
(Signature)
Unit Head
(Title)
11-18-68
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19____
BY *[Signature]*
TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

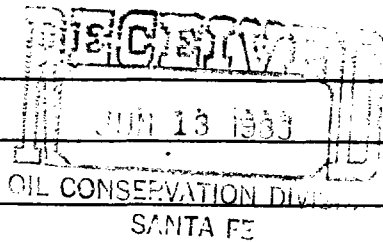
Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65



I. Operator
KKA Corporation
Address
400 Wall Towers West - Midland, Texas 79701
Reason(s) for filing (Check proper box)
New Well ☐ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☒ Casinghead Gas ☐ Condensate ☐
Other (Please explain) SANTA FE

If change of ownership give name and address of previous owner Amini Oil Corporation; 400 Wall Towers West; Midland, Texas 79701

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name including Formation	Kind of Lease	Lease No.
New Mexico "CC" State	4	Inber Pennsylvanian	State, Federal or Fee State	E9669
Location Unit Letter F ; 1980 Feet From The West Line and 2086 Feet From The North Line of Section 27 Township 10-S Range 33-E , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Pipeline Company	P.O. Box 3119; Midland, Texas 79701
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Warren Petroleum Corp.	P.O. Box 1589; Tulsa, Okla. 74102
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
J 27 10-S 33-E	Yes 11-12-68

If this production is commingled with that from any other lease or pool, give commingling order number: CTB172

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
Perforations	Depth Casing Shoe							
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

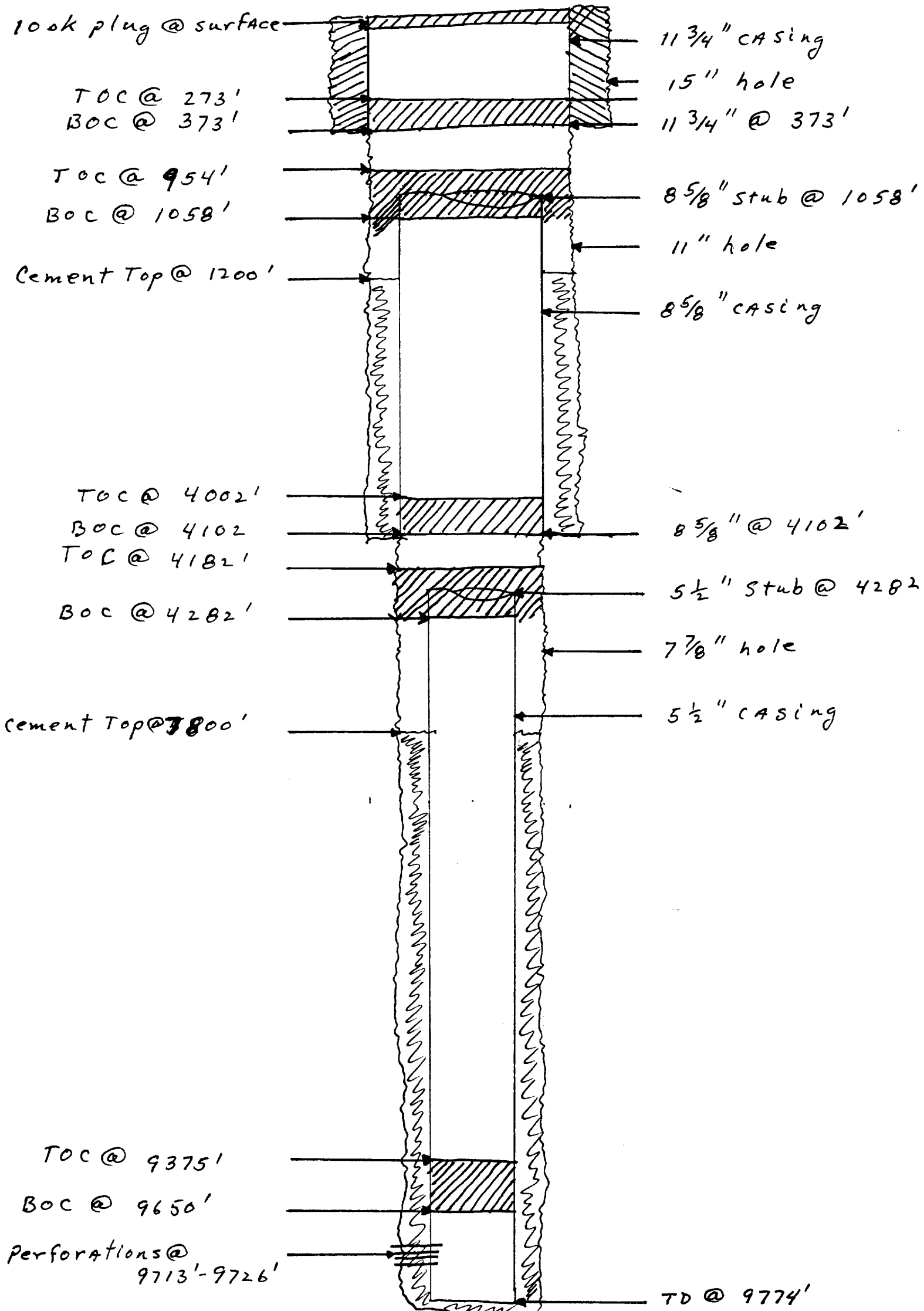
I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Agent
February 23, 1972
(Signature)
(Title)
(Date)

OIL CONSERVATION COMMISSION

APPROVED
BY
TITLE

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.



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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
E9669

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator KKA Corporation	8. Farm or Lease Name N. M. "CC" State
3. Address of Operator 405 Wall Towers East - Midland, Texas 79701	9. Well No. 3
4. Location of Well UNIT LETTER C, 2065 FEET FROM THE West LINE AND 660 FEET FROM THE North LINE, SECTION 27 TOWNSHIP 10-S RANGE 33-E NMPM.	10. Field and Pool, or Wildcat Inbe Penn
15. Elevation (Show whether DF, RT, GR, etc.) 4214 DF	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOBS ☐
OTHER ☐

ALTERING CASING ☐
PLUG AND ABANDONMENT ☒

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11-14-72 Moved in csg. pulling unit.
11-15-72 Spotted 30 sk plug @9650'-9375'.
11-16-72 Loaded hole w/220 bbls. mud.
11-18-72 Shot csg. off @4282'. Pulled 21 jts. 5 1/2" csg.
11-21-72 Spotted 30 sk plug @4282'-4182'.
11-22-72 Shot 8-5/8" csg. @1058'. Pulled 1054' of 8-5/8" csg. Spotted 30 sk plug @4102'-4002' & 55 sk plug 1054'-954'.
11-24-72 Spotted 55 sk plug @373'-273' & 10 sk surface plug. Installed marker & cleaned location.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Karin Bodwin TITLE Agent DATE 12-14 -72
APPROVED BY John W. Remyer TITLE Geologist DATE OCT 8 1974
CONDITIONS OF APPROVAL, IF ANY:

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OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

<p>SUNDRY NOTICES AND REPORTS ON WELL OPERATIONS</p> <p>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A NEW DEPTH. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)</p>		<p>5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/></p>
<p>5. State Oil & Gas Lease No. E9669</p>		<p>7. Unit Agreement Name</p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- 2. Name of Operator KKA Corporation</p>		<p>8. Farm or Lease Name New Mexico "CC" St.</p>
<p>3. Address of Operator 405 Wall Towers East - Midland, Texas 79701</p>		<p>9. Well No. 3</p>
<p>4. Location of Well UNIT LETTER C, 2065 FEET FROM THE West LINE AND 660 FEET FROM THE North LINE, SECTION 27 TOWNSHIP 10-S RANGE 33-E NMPM.</p>		<p>10. Field and Pool, or Wildcat Inbe Penn</p>
<p>15. Elevation (Show whether DF, RT, GR, etc.) 4214 DF</p>		<p>12. County Lea</p>

<p>16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data</p>			
<p>NOTICE OF INTENTION TO:</p>		<p>SUBSEQUENT REPORT OF:</p>	
<p>PERFORM REMEDIAL WORK <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>	<p>PLUG AND ABANDON <input checked="" type="checkbox"/></p> <p>CHANGE PLANS <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>	<p>REMEDIAL WORK <input type="checkbox"/></p> <p>COMMENCE DRILLING OPNS. <input type="checkbox"/></p> <p>CASING TEST AND CEMENT JOB <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>	<p>ALTERING CASING <input type="checkbox"/></p> <p>PLUG AND ABANDONMENT <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

PLUGGING PROCEDURE:

- 30 sk cement plug @9650' perf. 9709-9721. Fill hole w/9.5 laden fluid. 25000 Gall/100661/s
- Top of Cement behind 5 1/2" csg. @7800'.
- Pull 5 1/2" csg. form approx. 7700'.
- 20 sk cement plug on top of 5 1/2" stub.
- 20 sk cement plug @5350' - Top of Glorieta.
- 20 sk cement plug @4102' - Bottom of 8-5/8" csg.
- Pull 8-5/8" csg. form approx. 1000' - 20 sk plug @stub.
- 20 sk plug @base of 11-3/4 csg. 373'.
- 10 sk plug top of 11-3/4" csg; set marker; clean up location.

All plugs 100' length

24 hr. notice prior to setting plugs

<p>18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p>		
<p>SIGNED <i>[Signature]</i></p>	<p>TITLE Agent</p>	<p>DATE Oct. 17, 1972</p>
<p>APPROVED BY <i>[Signature]</i></p>	<p>TITLE</p>	<p>DATE OCT 17 1972</p>
<p>CONDITIONS OF APPROVAL, IF ANY:</p>		

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/>				7. Unit Agreement Name --							
2. TYPE OF COMPLETION NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/>				8. Farm or Lease Name N. M. CC State							
3. Name of Operator Humble Oil & Refining Company				9. Well No. 3							
4. Address of Operator P. O. Box 1600, Midland, Texas 79701				10. Field and Pool, or Wildcat Inbe Permo Penn							
5. Location of Well UNIT LETTER C LOCATED 2065 FEET FROM THE West LINE AND 660 FEET FROM THE North LINE OF SEC. 27 TWP. 10-S RGE. 33-E NMPM				12. County Lea							
13. Date Spudded 4-6-68		16. Date T.D. Reached 5-8-68		17. Date Compl. (Ready to Prod.) 5-17-68		18. Elevations (DF, RKB, RT, GR, etc.) 4214		19. Elev. Casinghead 4199			
20. Total Depth 9791'		21. Plug Back T.D. 9761'		22. If Multiple Compl., How Many -		23. Intervals Drilled By Rotary Tools 0-9791 Cable Tools 0		24. Producing Interval(s), of this completion - Top, Bottom, Name 9713-9726 Pennsylvanian (Bough C)			
25. Type Electric and Other Logs Run Acoustic Gamma Ray								27. Was Well Cored No			
28. CASING RECORD (Report all strings set in well)											
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
11 3/4"		42#		373		15"		350 sx.		None	
8-5/8"		24#		4102		11"		550 sx.		None	
5-1/2"		14, 15.5 & 17		9790		7-7/8"		325 sx.		None	
29. LINER RECORD										30. TUBING RECORD	
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN		SIZE	
										2" EUE	
										9722	
										9659	
31. Perforation Record (Interval, size and number) 9713-9726, 26 shots, 2 shots per foot						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
						9713-9726		1000 Gallons, 15% acid			
33. PRODUCTION											
Date First Production 5-17-68		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing 20/64" Choke						Well Status (Prod. or Shut-in) Prod.			
Date of Test 5-30-68		Hours Tested 15		Choke Size 20/64		Prod'n. For Test Period 420		Gas - MCF 558		Water - Bbl. 90	
Flow Tubing Press. 600		Casing Pressure Packer		Calculated 24-Hour Rate 672		Oil - Bbl. 893		Gas - MCF 144		Water - Bbl. 44.7	
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold - Warren Petroleum Corp.										Test Witnessed By C. V. Stanford	
35. List of Attachments											
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief. DE/mcb											
SIGNED				TITLE District Chief Engineer				DATE May 31, 1968			

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Rustler Anhy 1897 Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2578</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>3864</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzt _____
T. Glorieta <u>5303</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb <u>6772</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo Shale <u>7630</u>	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp <u>8820</u>	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. X (Bough C) <u>9704</u>	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	519	519	Surface				
519	1770	1251	Red Bed and Sand				
1770	1975	205	Rustler and Anhydrite				
1975	2568	593	Salt				
2568	2707	139	Anhydrite				
2707	3287	580	Anhydrite and Salt				
3287	3860	573	Anhydrite				
3860	3930	70	Dolomite				
3930	4032	102	Anhydrite				
4032	4102	70	Dolomite				
4102	7600	3498	Lime				
7600	7665	65	Sahle and Lime				
7665	7873	208	Shale				
7873	7973	100	Lime and Shale				
7973	8004	31	Shale				
8004	8277	273	Sahle and Lime				
8277	8567	290	Lime				
8567	8617	53	Lime and Dolomite				
8617	8735	118	Lime				
8735	8769	34	Dolomite				
8769	8853	84	Lime				
8853	8871	18	Dolomite and Chert				
8871	8928	57	Lime and Chert				
8928	9046	118	Lime				
9046	9097	51	Lime and Sand				
9097	9165	68	Lime				
9165	9224	59	Lime, Sand, and Chert				
9224	9791	567	Lime and Sand				

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

MAY 29 11 20 AM '68

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. B-7016
7. Unit Agreement Name --
8. Farm or Lease Name New Mexico "CC" State
9. Well No. 3
10. Field and Pool, or Wildcat Undesignated
12. County Lea

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <input type="checkbox"/>	2. Name of Operator Humble Oil & Refining Company
3. Address of Operator Box 1600, Midland, Texas 79701	4. Location of Well UNIT LETTER <u>C</u> , <u>2065</u> FEET FROM THE <u>west</u> LINE AND <u>660</u> FEET FROM THE <u>north</u> LINE, SECTION <u>27</u> TOWNSHIP <u>10-S</u> RANGE <u>33-E</u> NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) 4,214'	16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☒
OTHER ☐

ALTERING CASING ☐
PLUG AND ABANDONMENT ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Set 8 5/8" casing (4,080'), 24#, J-55, at 4102, and cemented with 350 sx Incor 8% gel and 200 sx Incor Neat cement 2% Calcium Chloride. Tested casing w/1000# for 30 min. Job complete 4-13-68.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED R. A. Berry

TITLE Unit Head

DATE 5-24-68

APPROVED BY [Signature]

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

JUN 23 11 54 AM '68

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. B-7016	
7. Unit Agreement Name	
8. Farm or Lease Name New Mexico "CC" State	
9. Well No. 3	
10. Field and Pool, or Wildcat Undesignated	
12. County Lea	

SUNDRY NOTICES AND REPORTS ON WELLS <small>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)</small>	
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	
2. Name of Operator Humble Oil & Refining Company	
3. Address of Operator Box 1600, Midland, Texas 79701	
4. Location of Well UNIT LETTER <u>C</u> <u>2065</u> FEET FROM THE <u>west</u> LINE AND <u>660</u> FEET FROM THE <u>north</u> LINE, SECTION <u>27</u> TOWNSHIP <u>10-S</u> RANGE <u>33-E</u> NMPM.	
15. Elevation (Show whether DF, RT, GR, etc.) 4,214' DF	

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Set 9774' of 5 1/2" casing, N-80 and J-55, 14#, 15.5# and 17#, at 9790' and cemented with 125 sx Reg. 12% w/.3% HR-7 and 200 sx Incor. Tested casing to 1000# for 30 min. Job complete 5-9-68.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.		
SIGNED <u>R. L. Berry</u>	TITLE <u>Unit Head</u>	DATE <u>5-21-68</u>
APPROVED BY <u>Johan. Runyan</u>	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

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OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. B-7016

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH CASES.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Humble Oil & Refining Company	8. Farm or Lease Name New Mexico "CC" State
3. Address of Operator Box 1600, Midland, Texas 79701	9. Well No. 3
4. Location of Well UNIT LETTER <u>C</u> , <u>2065</u> FEET FROM THE <u>west</u> LINE AND <u>660</u> FEET FROM THE <u>north</u> LINE, SECTION <u>27</u> TOWNSHIP <u>10-S</u> RANGE <u>33-E</u> NMPM.	10. Field and Pool, or Wildcat Undesignated
15. Elevation (Show whether DF, RT, GR, etc.) To be filed later	12. County Lea

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Set 351' of 11 3/4" casing, H-40, at 373 and cemented with 350 sacks 4% gel 2% Calcium Chloride. POB 3:45 AM 4-7-68. Cir. out 50 sx. WOC 18 hrs. Pressured up w/500# Pr. for 30 min, OK.

68 APR 19 1968

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>D. L. Clemmer</u>	TITLE <u>Unit Head</u>	DATE <u>4-11-68</u>
APPROVED BY <u>[Signature]</u>	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

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OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-4-65

RECEIVED
JUN 15 1968

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.	
B-7016	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		OIL CONSERVATION		SANTA FE	
b. Type of Well		DRILL <input type="checkbox"/>		DEEPEN <input type="checkbox"/>	
OIL WELL <input checked="" type="checkbox"/>		GAS WELL <input type="checkbox"/>		OTHER <input type="checkbox"/>	
2. Name of Operator		HUMBLE OIL & REFINING COMPANY		7. Unit Agreement Name	
3. Address of Operator		BOX 1600, MIDLAND, TEXAS		8. Farm or Lease Name	
4. Location of Well		UNIT LETTER C LOCATED 2065 FEET FROM THE West LINE		9. Well No.	
AND 660 FEET FROM THE North LINE OF SEC. 27 TWP. 10-S RGE. 33-E NMPM				10. Field and Pool, or Wildcat	
				Inbe-Penn.	
				12. County	
				Lea	
		19. Proposed Depth		19A. Formation	
		9800		Penn. Bough "C" Rotary	
21. Elevations (Show whether DF, RT, etc.)		21A. Kind & Status Plug. Bond		22. Approx. Date Work will start	
To be filed later		Blanket on file		3-30-68	
		21B. Drilling Contractor			
		McVay Drlg. Co.			

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15"	11-3/4"	42#	350'	300sks.	circ. to surface
11"	8-5/8"	24#	4100'	450sks.	*
7 5/8"	5-1/2"	17#, 15.5# & 14#	9800'	300 sks.	**

* Circulate to approximately 2500' w/8% Gel and 200 sks. neat cement on bottom.

** Circulate to approximately 8000' w/12% Gel and 200 sks. neat cement on bottom.

Minimum mud for samples
HOWCO method of cementing to be used.

APPROVAL FOR 90 DAYS USE
FOR TESTING (CONCEIVED)

THE COMMISSION WILL NOT
24 HOURS PRIOR TO RUNNING
CASING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed JE Pinkerton Title Proration Supervisor Date March 28, 1968

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Humble Lse. No. 220234State Lse. No. E-9669

Federal Lse. No. _____

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLATAMENDEDForm C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

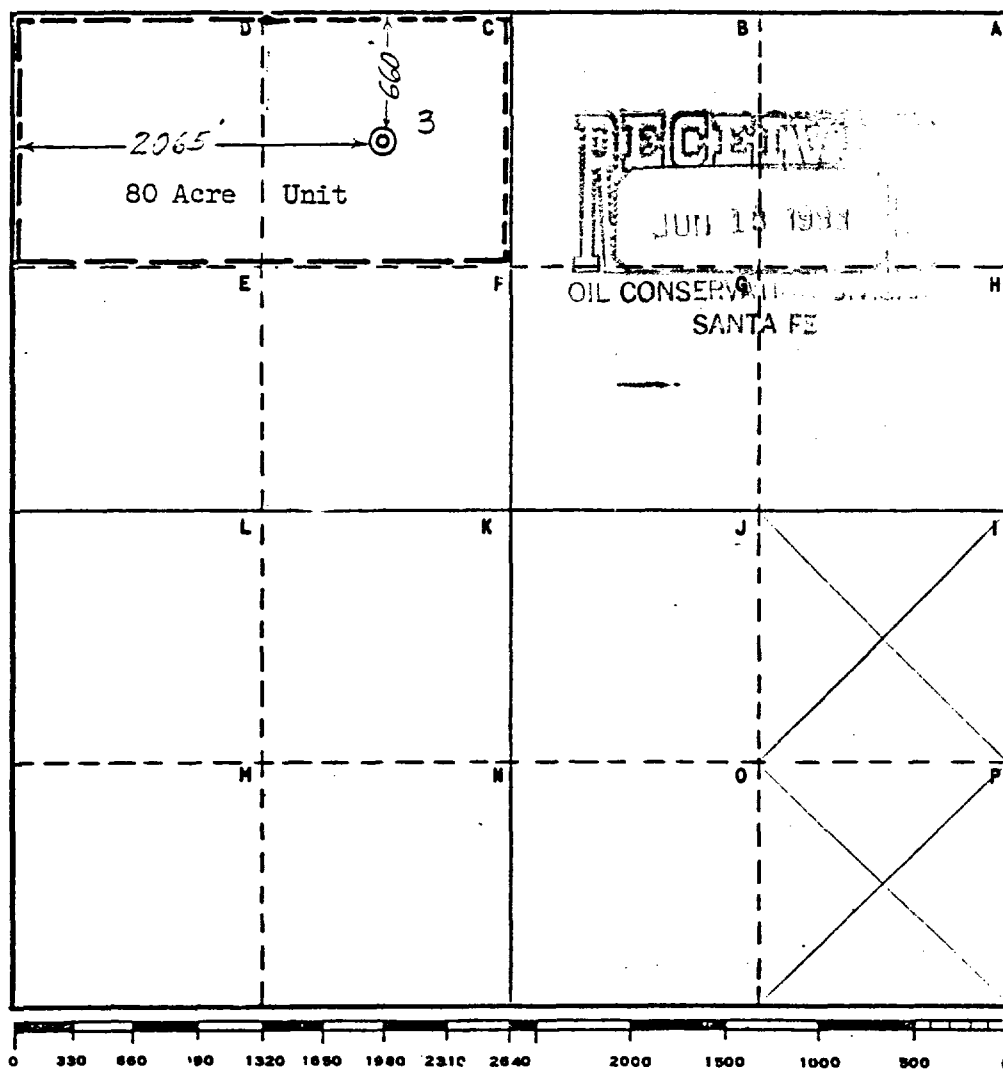
Operator Humble Oil & Refining Co.			Lease New Mexico "CC" State		Well No. 3
Unit Letter C	Section 27	Township 10 South	Range 33 East	County Lea	
Actual Footage Location of Well: 660 feet from the North line and 2065 feet from the West line					
Ground Level Elev. Later	Producing Formation Penn. Bough "C"		Pool Inbe-Penn	Dedicated Acreage: 80 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name SE Pinkerton
Position Pro. Surveyor
Company Humble Oil & Refining Co.
Box 1600 Midland, Texas
Date March 26, 1968

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
March 25, 1968Registered Professional Engineer
and/or Land Surveyor

W. L. Westfield
Certificate No. 1382

10 Miles East of Caprock, New MexicoC.E. Sec. File No. WA - 3860 13

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	GAS	
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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I.

Operator KKA Corporation		RECEIVED JUN 13 1983 OIL CONSERVATION DIVISION SANTA FE
Address 400 Wall Towers West; Midland, Texas 79701		
Reason(s) for filing (Check proper box)		
New Well <input type="checkbox"/>	Change in Transporter of: Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	
Recompletion <input type="checkbox"/>		
Change in Ownership <input checked="" type="checkbox"/>		

If change of ownership give name and address of previous owner Amini Oil Corporation; 400 Wall Towers West; Midland, Texas 79701

II. DESCRIPTION OF WELL AND LEASE

Lease Name New Mexico "CC" State	Well No. 3	Pool Name including Formation Inbepennsylvanian	Kind of Lease State, Federal or Fee State	Lease No. E9669
Location Unit Letter <u>C</u> : <u>2065</u> Feet From The <u>West</u> Line and <u>660</u> Feet From The <u>North</u> Line of Section <u>27</u> Township <u>10-S</u> Range <u>33-E</u> , NMPM, <u>Lea</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Amoco Pipeline Company	Address (Give address to which approved copy of this form is to be sent) P.O. Box 3119; Midland, Texas 79701			
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Warren Petroleum Corp.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1589; Tulsa, Okla. 74102			
If well produces oil or liquids, give location of tanks.	Unit J	Sec. 27	Twp. 10-S	Pge. 33-E
	Is gas actually connected? Yes		When 5-21-68	

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.	Total Depth		P.B.T.D.					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay		Tubing Depth					
Perforations		Depth Casing Shoe							
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT				

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

[Signature]
Agent
(Title)
February 23, 1972
(Date)

OIL CONSERVATION COMMISSION

APPROVED 142V 27 1972, 19_____
BY [Signature]
TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

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	GAS	
OPERATOR		
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I.

Operator Amini Oil Corporation		RECEIVED JUN 13 1983 OIL CONSERVATION DIVISION SANTA FE
Address 400 Wall Towers West, Midland, Texas 79701		
Reason(s) for filing (Check proper box)	Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Change in Ownership <input checked="" type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>

If change of ownership give name and address of previous owner **Humble Oil & Refining Co. P.O. Box 1600, Midland, Texas 79701**

II. DESCRIPTION OF WELL AND LEASE

Lease Name New Mexico "CC" State	Well No. 3	Pool Name, including Formation Inbe-Pennsylvanian	Kind of Lease State, Federal or Fee State	Lease No. E9669
Location				
Unit Letter C ; 2065 Feet From The West Line and 660 Feet From The North				
Line of Section 27 Township 10-S Range 33-E , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Service Pipeline Company	Address (Give address to which approved copy of this form is to be sent) 3411 Knoxville, Lubbock., Texas 79408					
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Warren Petroleum Corp.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1589, Tulsa, Oklahoma 74102					
If well produces oil or liquids, give location of tanks.	Unit I	Sec. 27	Twp. 10-S	Rge. 33-E	Is gas actually connected? Yes	When 5-21-68

If this production is commingled with that from any other lease or pool, give commingling order number: **-**

IV. COMPLETION DATA

Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.	Total Depth		P.B.T.D.					
Elevations (DF, RKB, RT, GR, etc.,)	Name of Producing Formation	Top Oil/Gas Pay		Tubing Depth					
Perforations		Depth Casing Shoe							
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT				

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

C. K. Dill
(Signature)
Controller
(Title)
June 21, 1971
(Date)

OIL CONSERVATION COMMISSION

APPROVED **JUN 25 1971**, 19_____
BY **[Signature]**
TITLE **STAFF ASSISTANT**

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE POOL D.C.C.
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

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	GAS
OPERATOR	
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I.

Operator	Humble Oil and Refining Company		
Address	Box 1600, Midland, Texas 79701		
Reason(s) for filing (Check proper box)	Other (Please explain)		RECEIVED JUN 13 1968 OIL CONSERVATION DIVISION SANTA FE
New Well <input checked="" type="checkbox"/>	Change in Transporter of <input checked="" type="checkbox"/>		
Recompletion <input type="checkbox"/>	Oil <input checked="" type="checkbox"/> Dry Gas <input type="checkbox"/>		
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>		

If change of ownership give name
and address of previous owner

4-70

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
N. M. CC State	3	Inbe Permo Penn	State, Federal or Fee State	B-7016
Location				
Unit Letter	C	2065 Feet From The West Line and 660 Feet From The North		
Line of Section	27	Township 10-S	Range 33-E	County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
Service Pipe Line Company	3411 Knoxville Ave., Lubbock, Texas					
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
Warren Petroleum Corporation	Box 1589, Tulsa, Oklahoma					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
	J	27	10-S	33-E	Yes	5-21-68

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well	New Well <input checked="" type="checkbox"/>	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
4-6-68	5-17-68	9791	9761					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
4,214' DF	Pennsylvanian	9704	9722					
Perforations	Depth Casing Shoe							
9713-9726	9791							
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
15	11-3/4"		373		350 sx.			
11	8-5/8"		4102		550 sx.			
7-7/8	5-1/2"		9790		325 sx.			
	2" EUE		9722					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
5-17-68	5-30-68	Flow	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
15	600	Packer	20/64
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF
510	420	90	558

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

DE/mcb

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION COMMISSION

APPROVED _____, 19
BY _____
TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

District Chief Engineer

May 31, 1968

(Date)

ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM

Author: John Scott Alcorn
Affiliation: BTA Oil Producers
Date: August 1976

Field Name: Bagley (Pennsylvanian), North
Location: T-11, 12-S, R-33-E
County & State: Lea County, New Mexico

Discovery Well: Texas Pacific #1 Collier (10-11-33) Bagley (Lower Penn) North; July 1957 Cabot Corp.
#1 Dallas (15-11-33) Bagley (Upper Penn) North; June 1962. On July 15, 1970, the Bagley (Penn), North Field was created by consolidating the above mentioned fields.

Exploration Method Leading to Discovery:

Subsurface, and oil shows encountered while drilling for Siluro-Devonian objective in area.

Pay Zone:

Formation Name: Pennsylvanian

Depth & Datum Discovery Well: 10,000 (-6000) Lower Penn

Lithology Description:

9,400 (-5400) Upper Penn

Limestone, white to tan chalky to fossiliferous, finely crystalline.

Approximate gverage pay: 1200 gross 200 net Productive Area 15000 acres

Type Trap: Porosity pinch-outs in a series of reefy limestone beds; developed in zones from the Cisco through the Strawn series. These beds are associated with a large anticlinal feature with gentle westward dip and steep eastward dip.

Reservoir Data:

6-10 % Porosity, Varies Md Permeability, 40 % Sw, _____ % So

Oil: 45° Gravity, sweet, amber-green color

Gas: Sweet - average GOR is 1500-1

Water: 37.160 Na+K, 6880 Ca, 462 Mg, 70,110 Cl, 850 SO₄, 195 CO₂, or HCO₃, 35.9 Fe

Specific Gravity 1.0797 Resistivity 0.087 ohms @ 77 °F

Initial Field Pressure: 3775 psi @ -6000 datum Reservoir Temp. 162 °F

Type of Drive:

Gas solution associated with connate water.

Normal Completion Practices:

Drill through Strawn series; run porosity and water saturation logs before setting casing on bottom. Pay zones are selectively perforated and acidized in two or three stages with up to 25,000 gallons.

Type completion:

Kobe or Beam Pump

Normal Well Spacing 80 Acres

Deepest Horizon Penetrated & Depth:

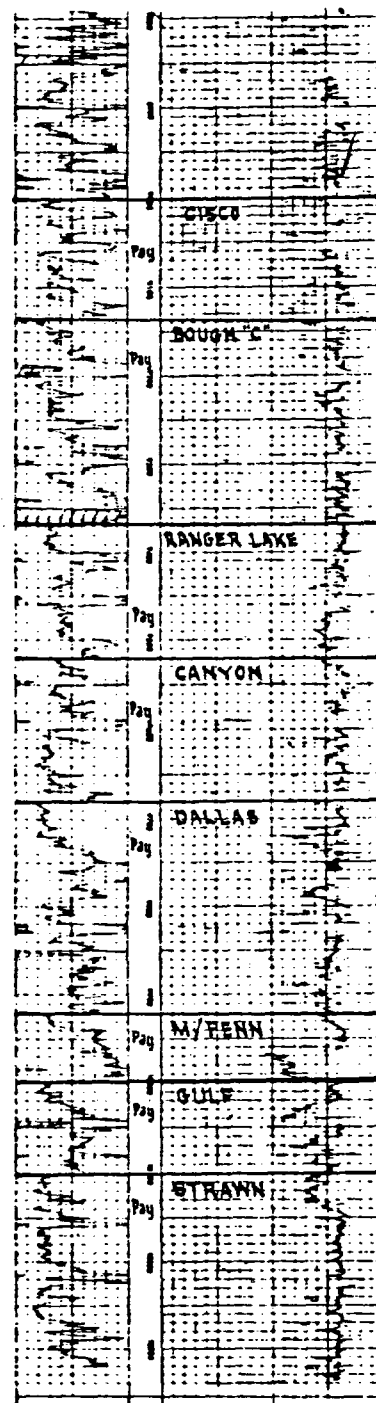
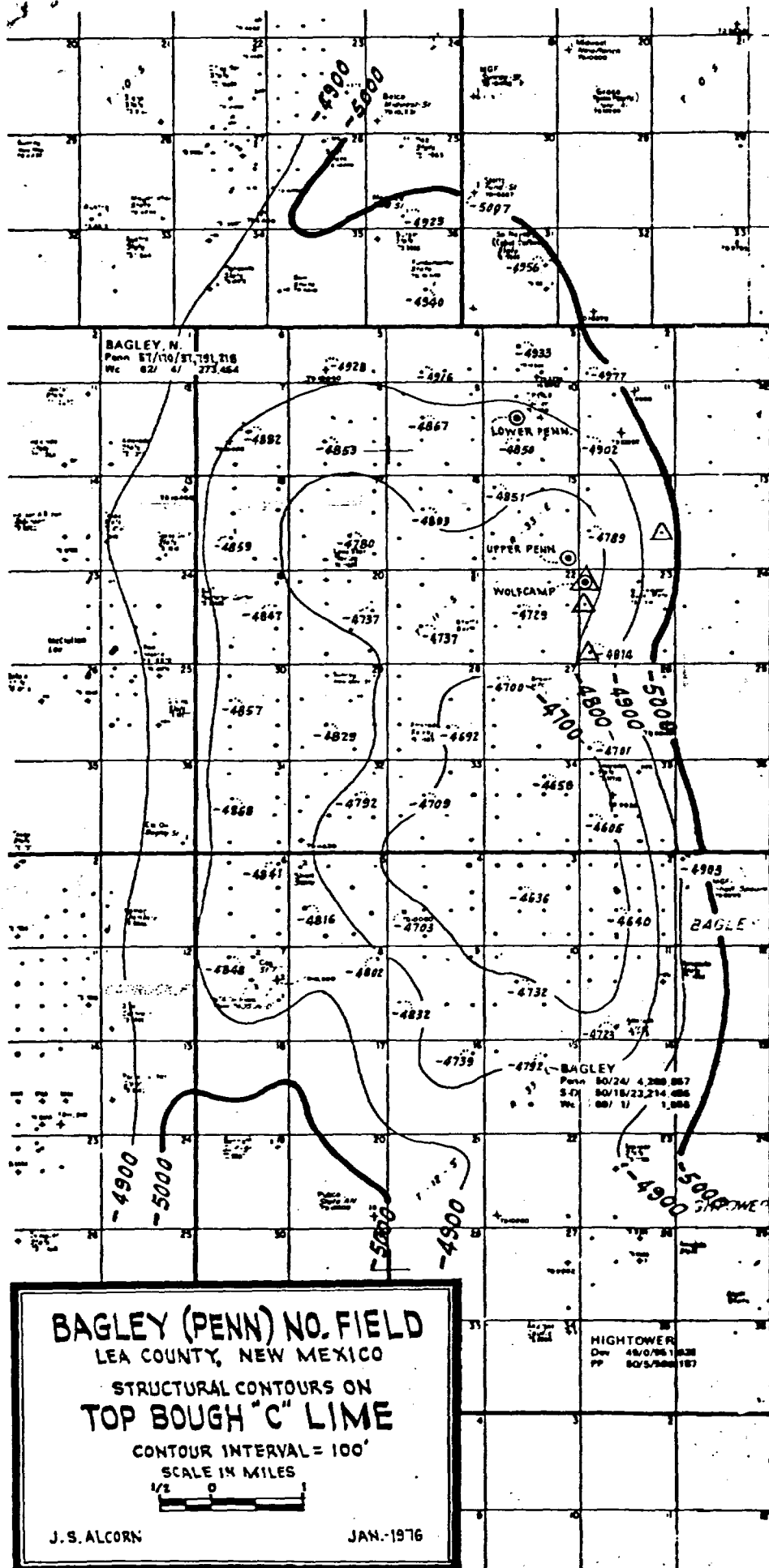
Siluro-Devonian by Lone Star #1 Marley - TD 11686 (17-11-33)

Other Producing Formations in Field:

Wolfcamp

Production Data:

YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF	
		Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE			Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE
68	OIL	109	5	4,880,925	9,673,717	72	OIL	173	7	3,687,801	31,247,343
	GAS						GAS				
69	OIL	140	2	6,721,007	16,424,724	73	OIL	171	10	2,702,767	33,950,110
	GAS						GAS				
70	OIL	156	3	6,229,261	22,653,985	74	OIL	174	12	2,285,694	36,235,804
	GAS						GAS				
71	OIL	166	4	4,905,557	27,559,542	75	OIL	170	22	2,174,303	38,410,107
	GAS						GAS				



LEGEND
 ○ DISCOVERY WELLS
 △ PENN WELLS
 □ WOLFCAMP WELLS

ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM

Author: William J. Lemay
Affiliation:
Date: May 1966

Field Name: Inbe Pennsylvanian
Location: T-10 & 11-S, R-33 & 34-E
County & State: Lea County, New Mexico

Discovery Well: T. F. Hodge #1 Humble State (originally called South Lane Field, but now combined). L. R. French, Jr. #1 Gulf State (Inbe). Hodge Humble State, SE/4 SW/4 Section 26, T-10-S, R-33-E, IPF 468 BOPD, 12/64" ck, GOR 1250, 3/29/62

Exploration Method Leading to Discovery:

100% Subsurface

Pay Zone:

Formation Name: Bough "C" Depth & Datum Discovery Well: 9658 (-5456)
Lithology Description: Tan to gray finely crystalline limestone with vugs and intercrystalline porosity. Vertical fracturing is common.

Approximate average pay: 27 gross 11 net Productive Area 4,000 acres

Type Trap: Structural & stratigraphic: updip pinchout of Bough "C" porosity westward with structural nosing and closure along a north-south trend.

Reservoir Data:

6 % Porosity, 104 Md Permeability, 38 % Sw, % So

Oil: 47° green, sweet

Gas: GOR 1170, sweet

Water: Na+K, Ca, Mg, Cl, SO₄, CO₂, or HCO₃, Fe

Specific Gravity Resistivity ohms @ °F

Initial Field Pressure: 3473 psi @ 9,700 datum Reservoir Temp. 143°F

Type of Drive: water drive ??

Normal Completion Practices: DST and/or core pay. Set 4 1/2" or 5 1/2" casing through pay and perforate net pay with 4 SPF. Acidize with 500-1,000 gals. A typical well will flow 200 to 300 BOPD but within a month structurally low wells will be on the pump and production will drop below top allowable.

Type completion: Normal Well Spacing 80 Acres

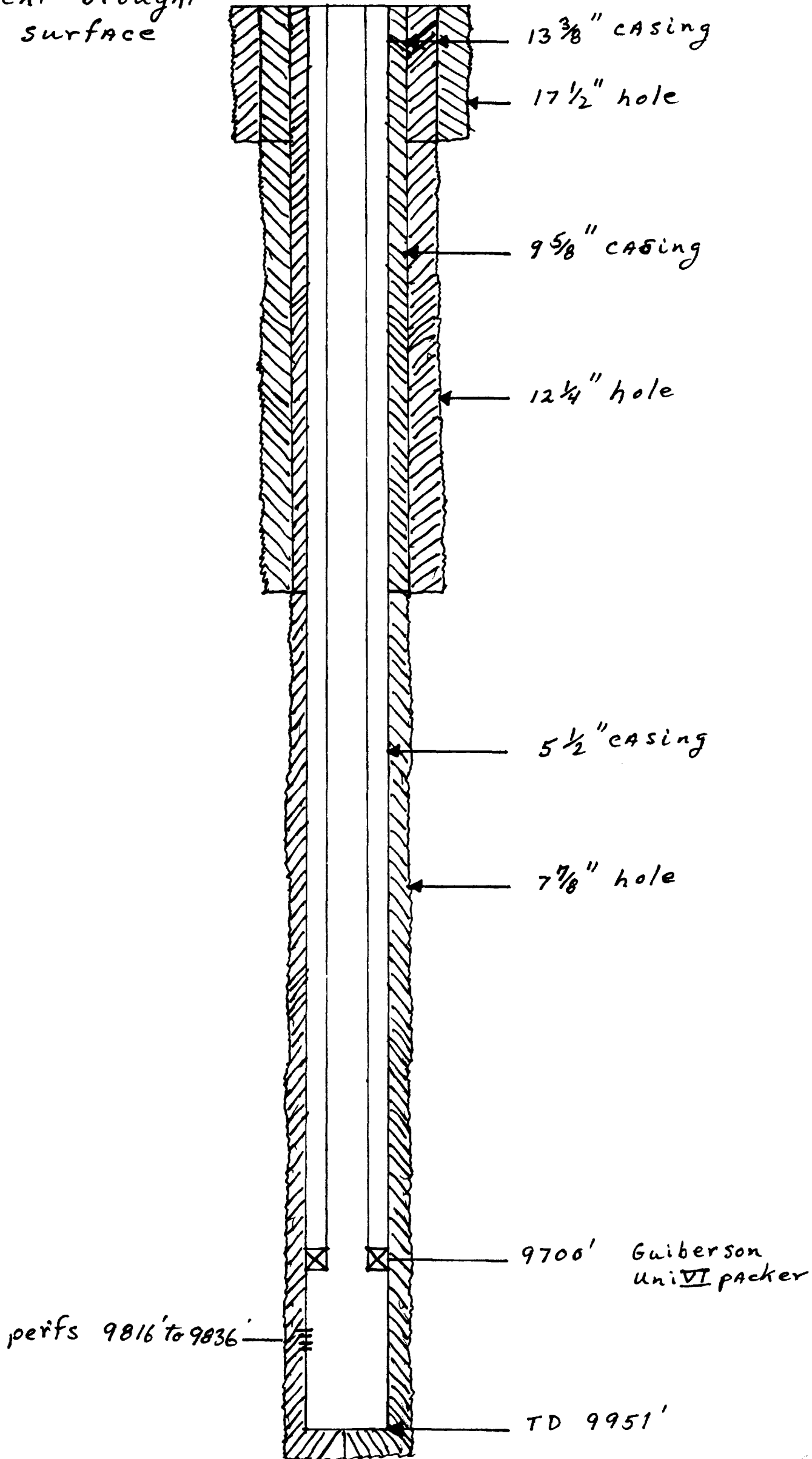
Deepest Horizon Penetrated & Depth: Devonian 12,819'

Other Producing Formations in Field: Wolfcamp 9,310'

Production Data:

YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF	
		Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE			Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE
1962	OIL	5	2	136,726	136,726		OIL				
	GAS			168,010	168,010		GAS				
1963	OIL	19	4	583,949	720,675		OIL				
	GAS			642,210	810,220		GAS				
1964	OIL	25	7	925,542	1,646,217		OIL				
	GAS			970,507	1,780,727		GAS				
1965	OIL	34	9	1,273,978	2,920,195		OIL				
	GAS			1,191,007	2,971,734		GAS				

All cement brought
back to surface



MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

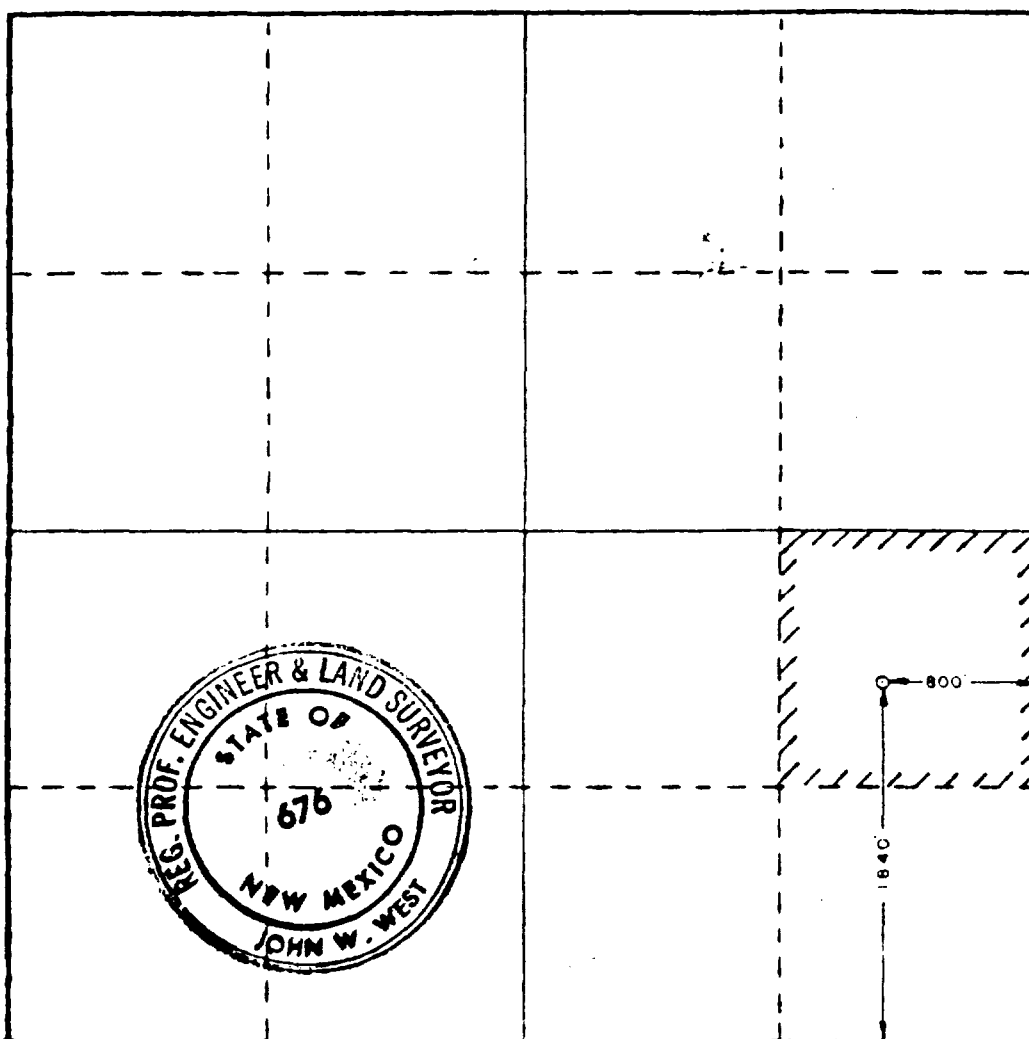
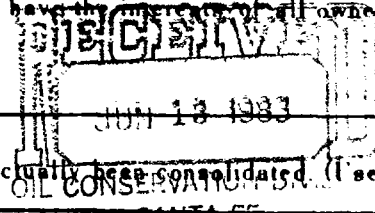
Lessee Southern Union Exploration Co.			Lease Susco State		Well No. 5
Section 19	Township 9 South	Range 33 East	County Lea		
Actual Footage Location of Well: 1840 feet from the South line and 800 feet from the East line					
Ground Level Elev. 4372.2	Producing Formation San Andres	Pool Flying M	Dedicated Acreage 40		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name John W. West
Position Agent
Company Southern Union Exploration Co.

Date August 18, 1978

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed August 16, 1978
Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. John W. West **676**
Ronald J. Eidson **3239**

0 800 1000 1500 2000 2500 2840 2880 2920 2960 3000

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

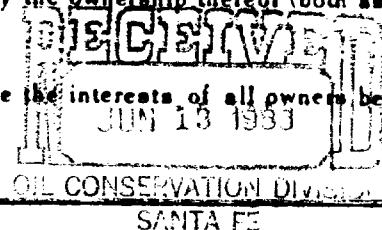
Form C-128
 Supersedes C-128
 Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator Southern Union Exploration Co.			Lease Susco State		Well No. 5
Unit Letter 1	Section 19	Township 9 South	Range 33 East	County Lea	
Actual Footage Location of Well: 1840 feet from the South line and 800 feet from the East line					
Ground Level Elev. 4372.2	Producing Formation San Andres		Pool Flying M	Dedicated Acreage: 40 Acres	

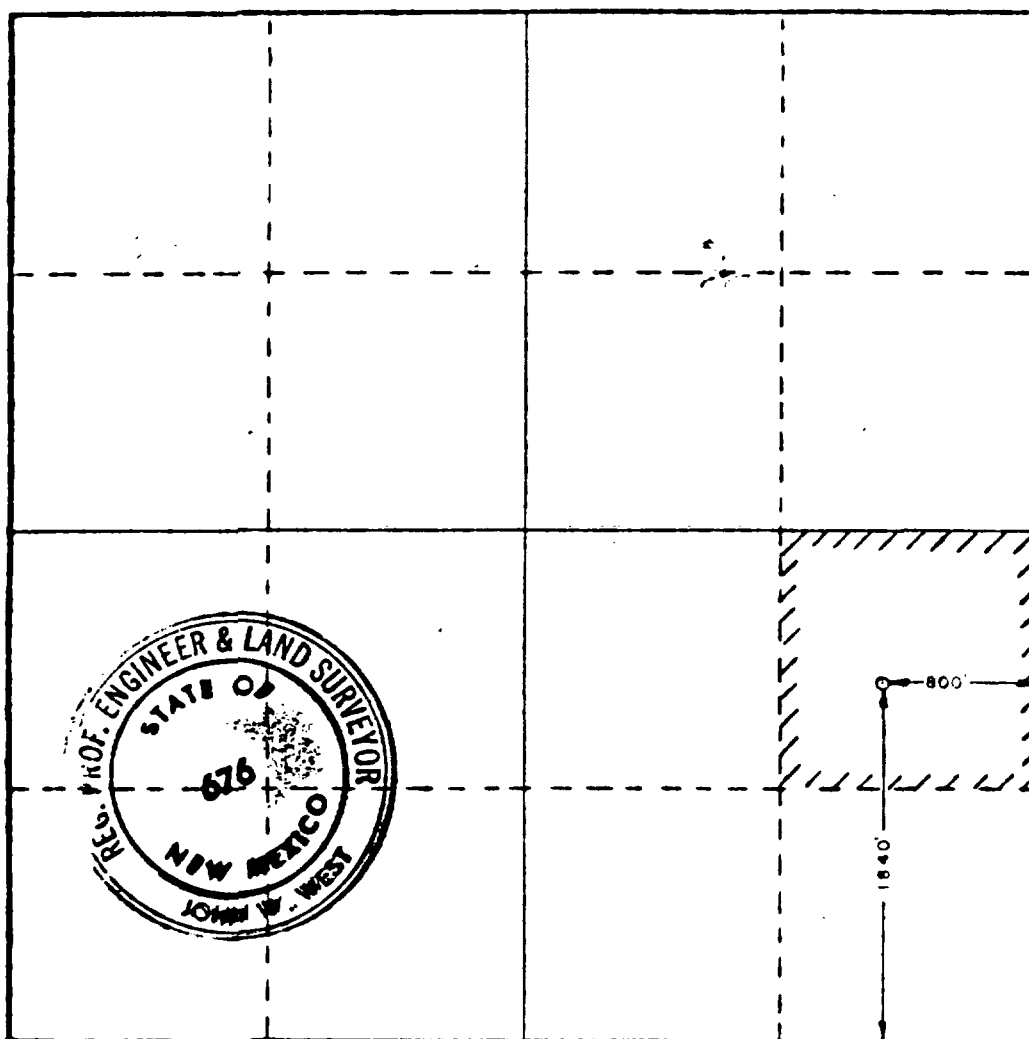
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☐ Yes ☐ No If answer is "yes," type of consolidation _____



If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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CERTIFICATION

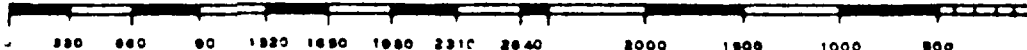
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 Position Agent
 Company Southern Union Exploration Co.
 Date August 18, 1978

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Date Surveyed August 16, 1978
 Registered Professional Engineer and/or Land Surveyor

John W. West
 Certificate No. John W. West 676
Ronald J. Eidson 3239



**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

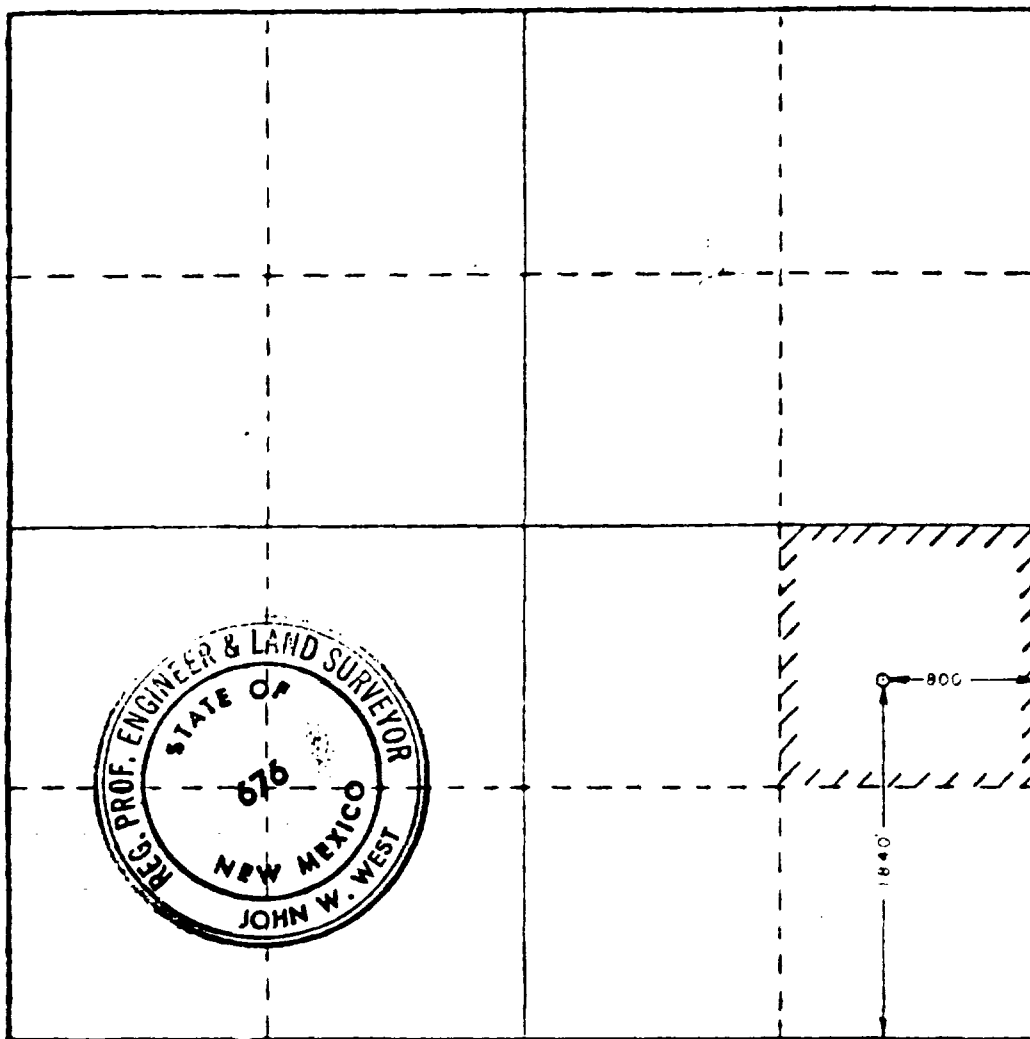
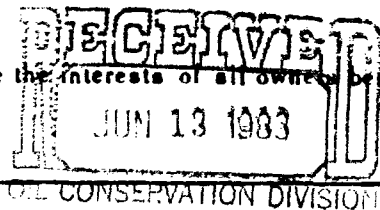
Operator Southern Union Exploration Co.			Lease Susco State		Well No. 5
Well Letter 1	Section 19	Township 9 South	Range 33 East	County Lea	
Actual Footage Location of Well: 1840 feet from the South line and 800 feet from the East line					
Ground Level Elev. 4372.2	Producing Formation San Andres		Pool Flying M	Dedicated Acreage: 40 Acres	

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CERTIFICATION

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Name John W. West
Position Agent
Company Southern Union Exploration Co.

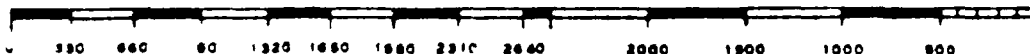
Date August 18, 1978

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Date Surveyed August 16, 1978

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. John W. West 676
Ronald J. Eidson 3239



**MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-11
Effective 1-1-65

All distances must be from the outer boundaries of the Section

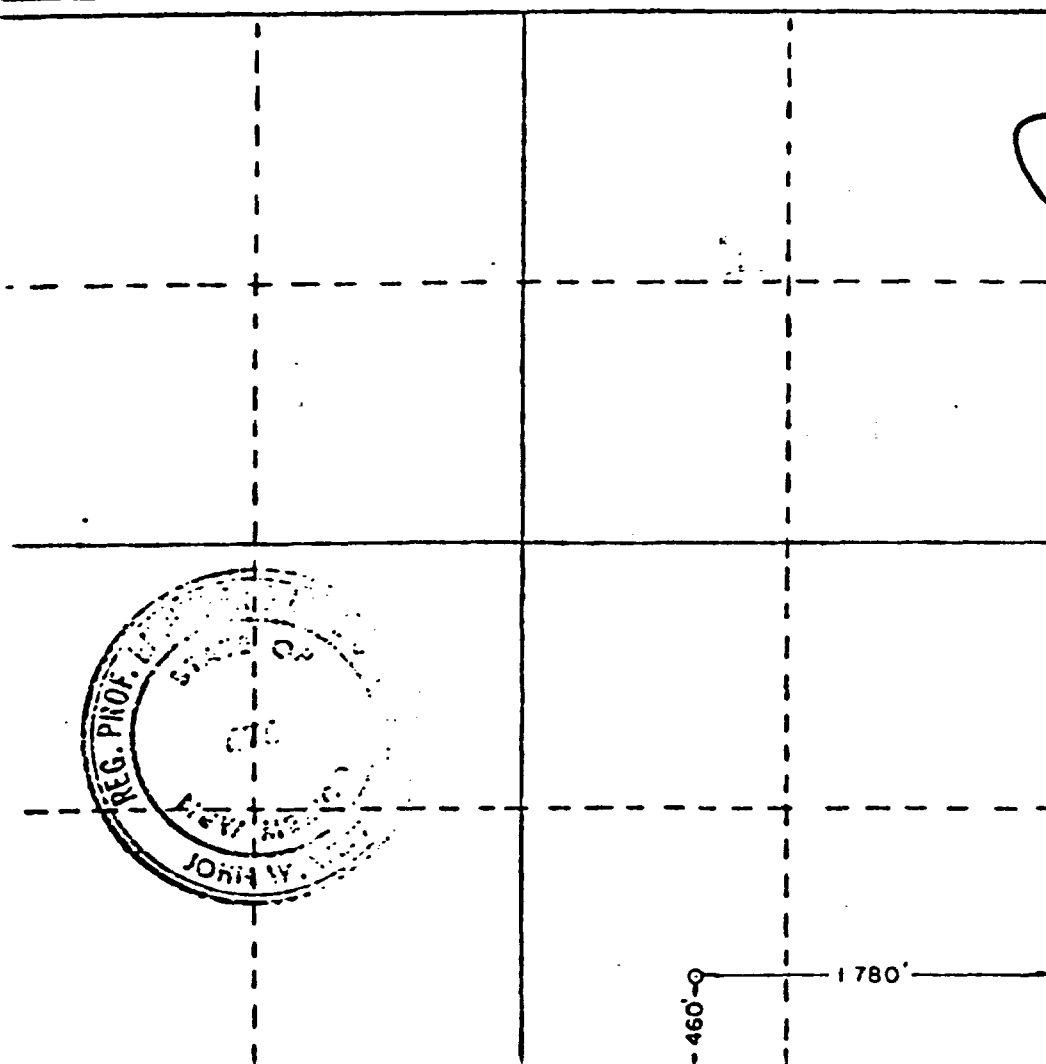
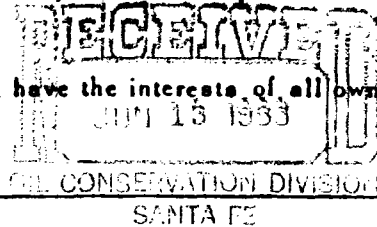
Lessee Southern Union Exploration Co.			Lease Susco State		Well No. 4
Unit Letter O	Section 19	Township 9 South	Range 33 East	County Lea	
Actual Footage Location of Well:					
460	feet from the	South	line and	1780	feet from the East line
Ground Level Elev. 4367.8	Producing Formation San Andres		Pool Flying "M"		Dedicated Acreage: 80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

John W. Mulloy
John W. Mulloy
Position
Agent

Company
Southern Union Exploration Co.

Date
5-31-78

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
4/22/78

Registered Professional Engineer
and/or Land Surveyor

John W. West
Certificate No. John W. West 676
Ronald J. Fiden 3230

330 000 100 1200 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-4-65

All distances must be from the outer boundaries of the Section

SOUTHERN UNION EXPLORATION COMPANY			Lease Susco-State		Well No. 4
Section 0	Section 19	Township 9 South	Range 33 East	County Lea	

Well Location of Well

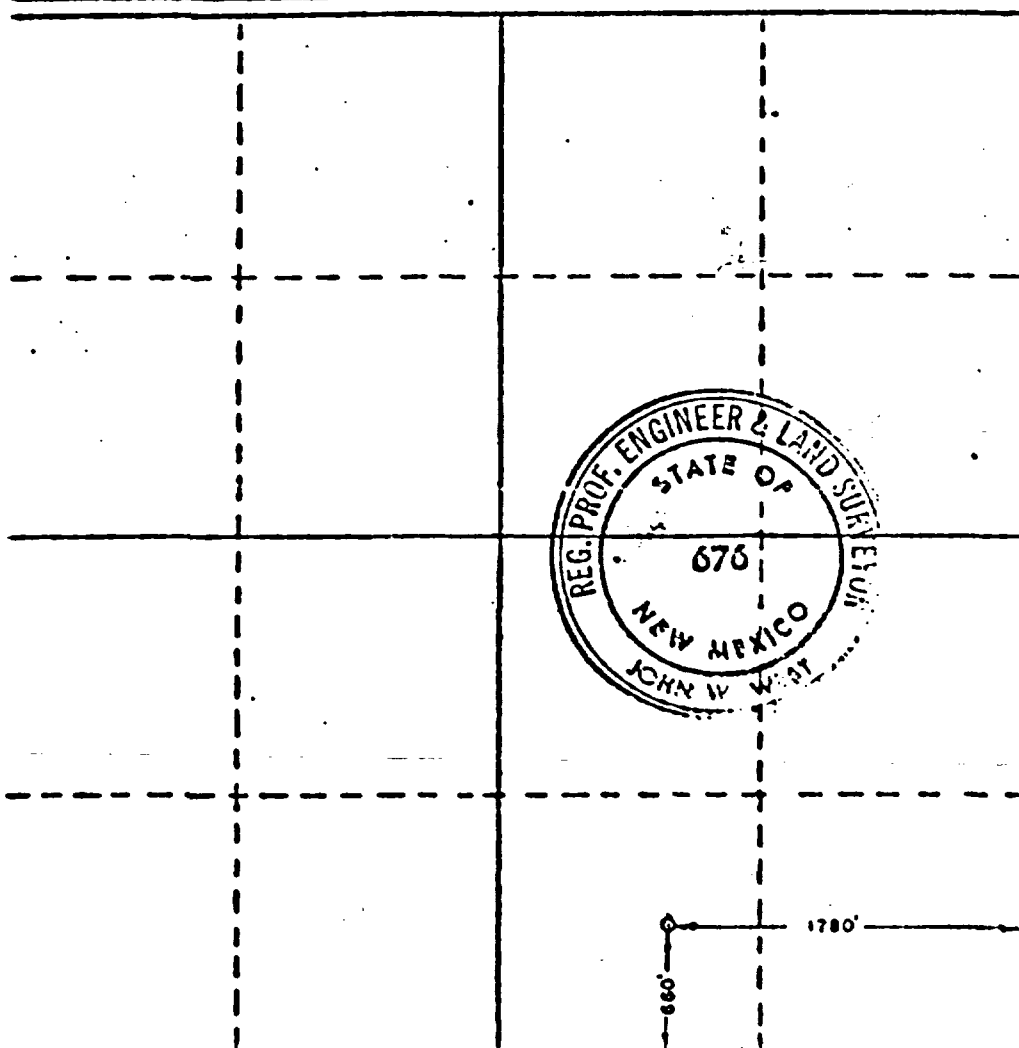
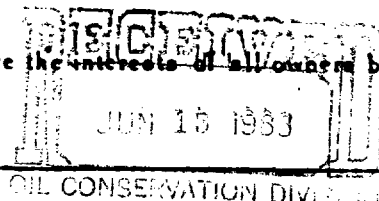
1780	feet from the	East	line and	660	feet from the	South	line
ad Level Elev. 4367.8	Producing Formation San Andres		Pool Flying "M"		Dedicated Acreage: 80		

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CERTIFICATION

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J. W. Mulloy

Name
J. W. Mulloy

Position
Agent

Company
Southern Union Exploration Co.

Date
6-21-78

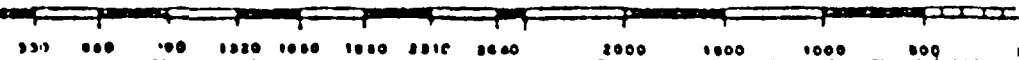
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
June 14, 1978

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. John W. West 676
Ronald J. Eiden 3239



NL MEXICO OIL CONSERVATION COMMISS.
WELL LOCATION AND ACREAGE DEDICATION PLAT

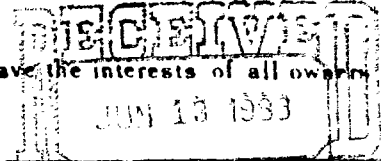
Form C-102
Superseded C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Lessor Southern Union Exploration Co.			Lease SUSCO State		Well No. 4
Unit Letter 0	Section 19	Township 9 South	Range 33 East	County Lea	
Actual Footage Location of Well: 660 feet from the South line and 1780 feet from the East line.					
Ground Level Elev. 4367.8	Producing Formation San Andres		Pool Flying M	Dedicated Acreage: 80 Acres	

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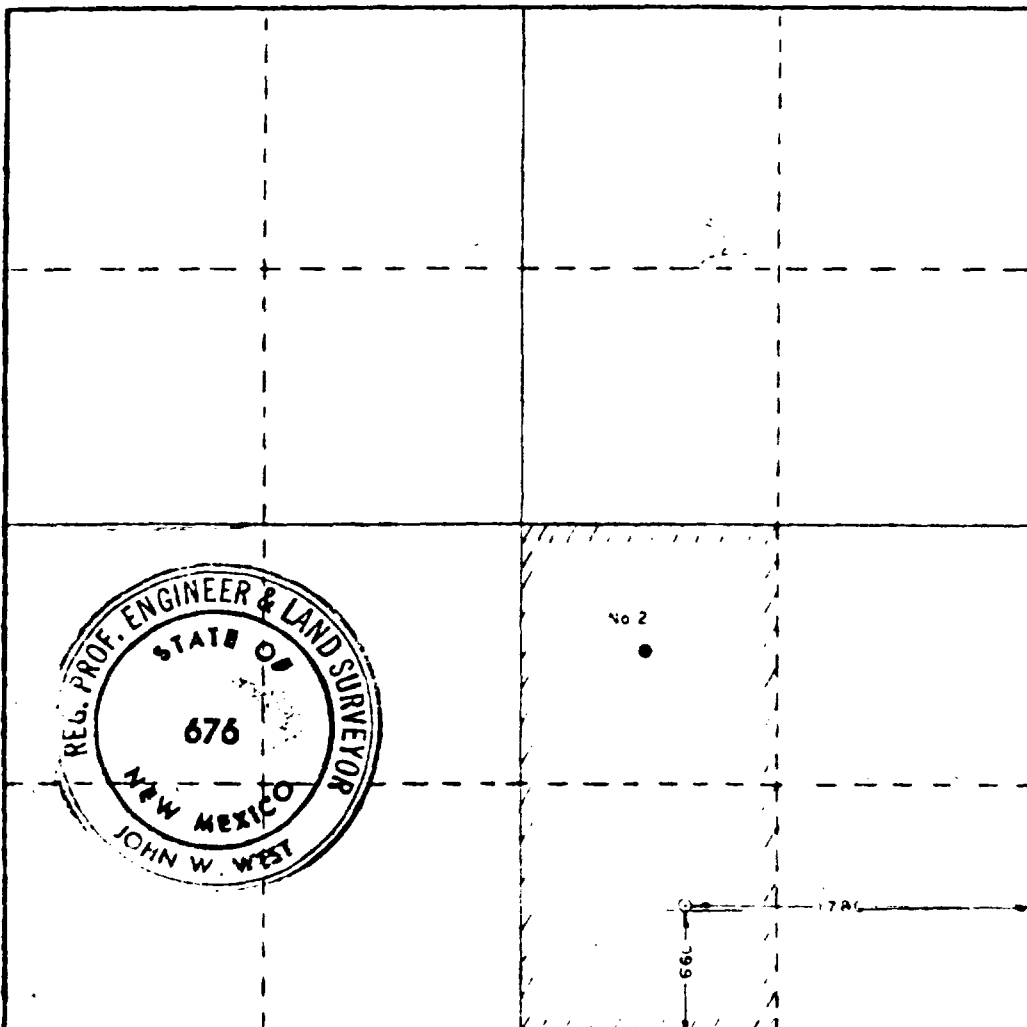
☒ Yes ☐ No If answer is "yes," type of consolidation



OIL CONSERVATION DIVISION

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CERTIFICATION

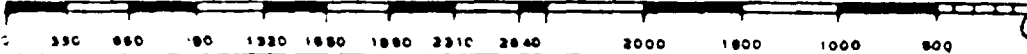
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name John W. West
Position Agent
Company Southern Union Exploration Co.
Date August 28, 1978

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed June 14, 1978
Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. John W. West 676
Ronald J. Eidson 3239



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

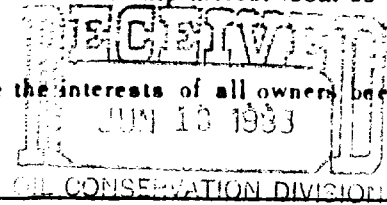
Form C-192
 Supersedes C-128
 Effective 1-1-65

All distances must be from the outer boundaries of the Section

Lessee Southern Union Exploration Co.			Lease SUSCO State		Well No. 4
Lot Letter 0	Section 19	Township 9 South	Range 33 East	County Lea	
Actual Footage Location of Well: 660 feet from the South line and 1780 feet from the East line					
Ground Level Elev. 4367.8	Producing Formation San Andres		Pool Flying M	Dedicated Acreage: 80 Acres	

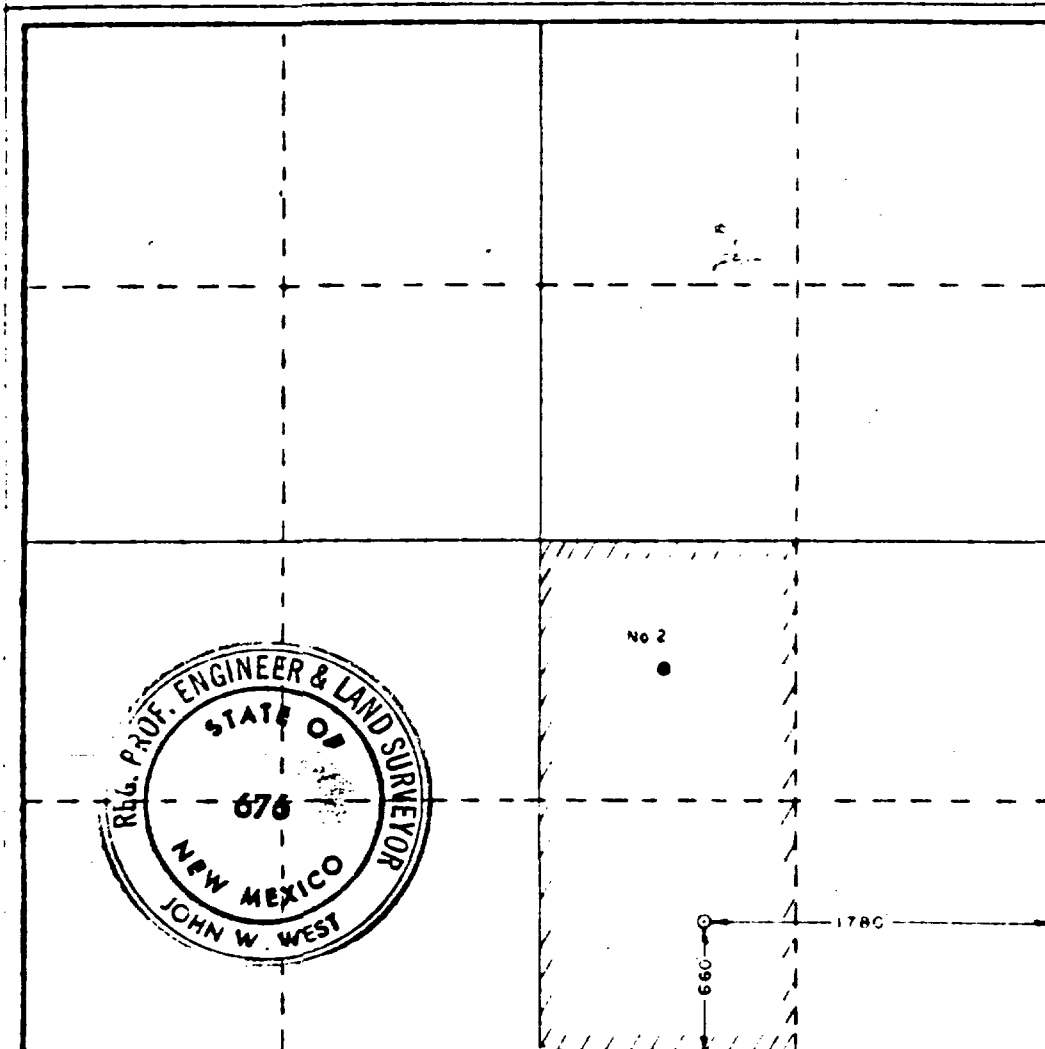
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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Name John W. West

Position Agent

Company Southern Union Exploration Co.

Date August 28, 1978

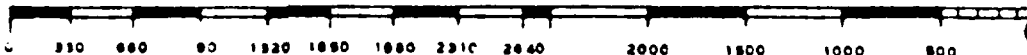
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Date Surveyed June 14, 1978

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. John W. West 676
Ronald J. Fiddan 3239



NE MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

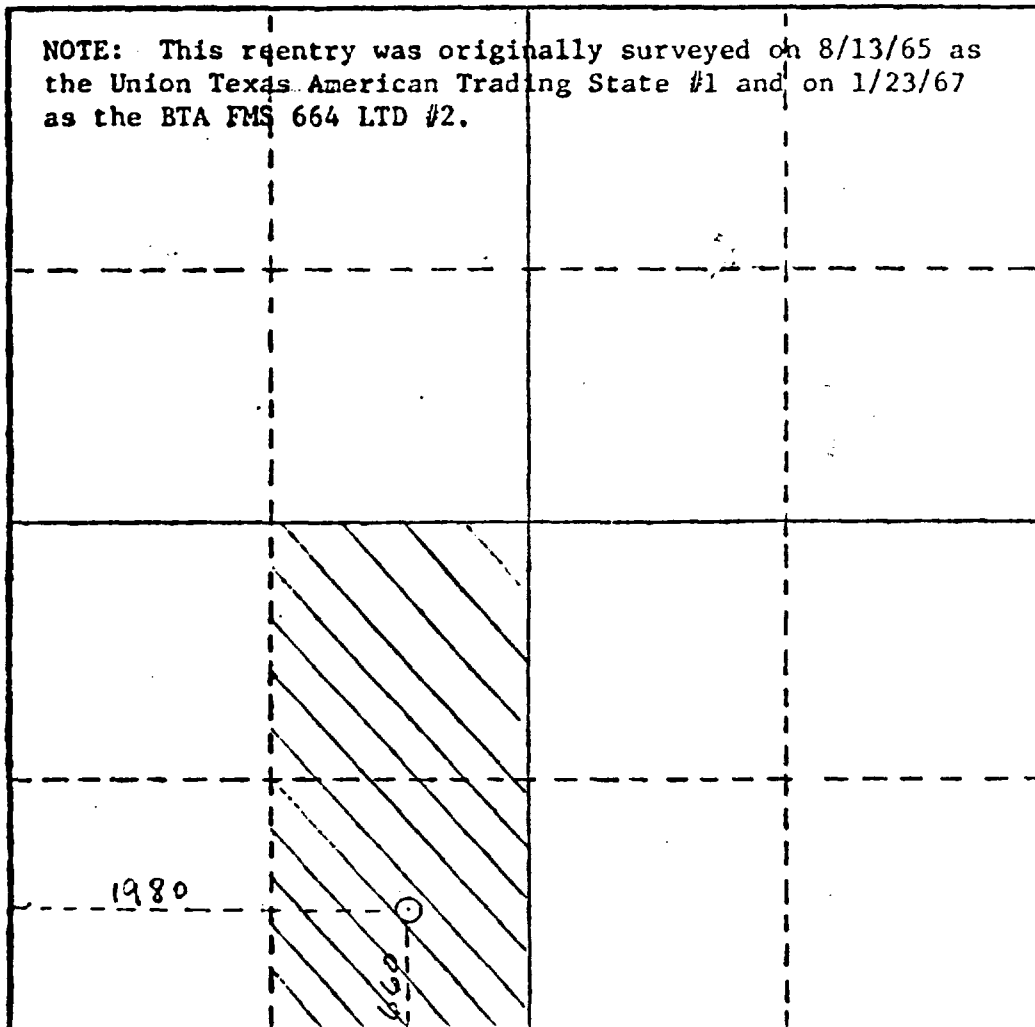
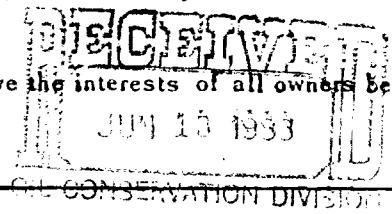
Operator Southern Union Supply Company			Lease Susco State		Well No. 3
Unit Letter N	Section 19	Township 9-S	Range 33-E	County Lea	
Actual Footage Location of Well: 660 feet from the South line and 1980 feet from the West line					
Ground Level Elev. 4373	Producing Formation San Andres		Pool Flying "M"		Dedicated Acreage: 80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

James L. Ellis
Name

Chief Petroleum Engineer

Position
Southern Union Company

Company
November 2, 1977

Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

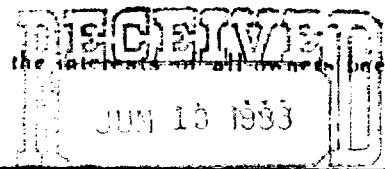
Operator SOUTHERN UNION EXPLORATION CO.		Lease SUSCO STATE		Well No. 6	
Unit Letter H	Section 19	Township 9 SOUTH	Range 33 EAST	County LEA	
Actual Footage Location of Well:					
2120		feet from the NORTH		800	
		feet to the EAST			
Ground Level Elev. 4375.7	Producing Formation San Andres	Pool Flying H San Andres	Well Interest Acquired 87%		

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OIL CONSERVATION DIVISION

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Ronald M. Sentz
Name
Ronald M. Sentz
Position
Drilling & Production E
Company
Southern Union Exp. Co.
Date
8-9-79

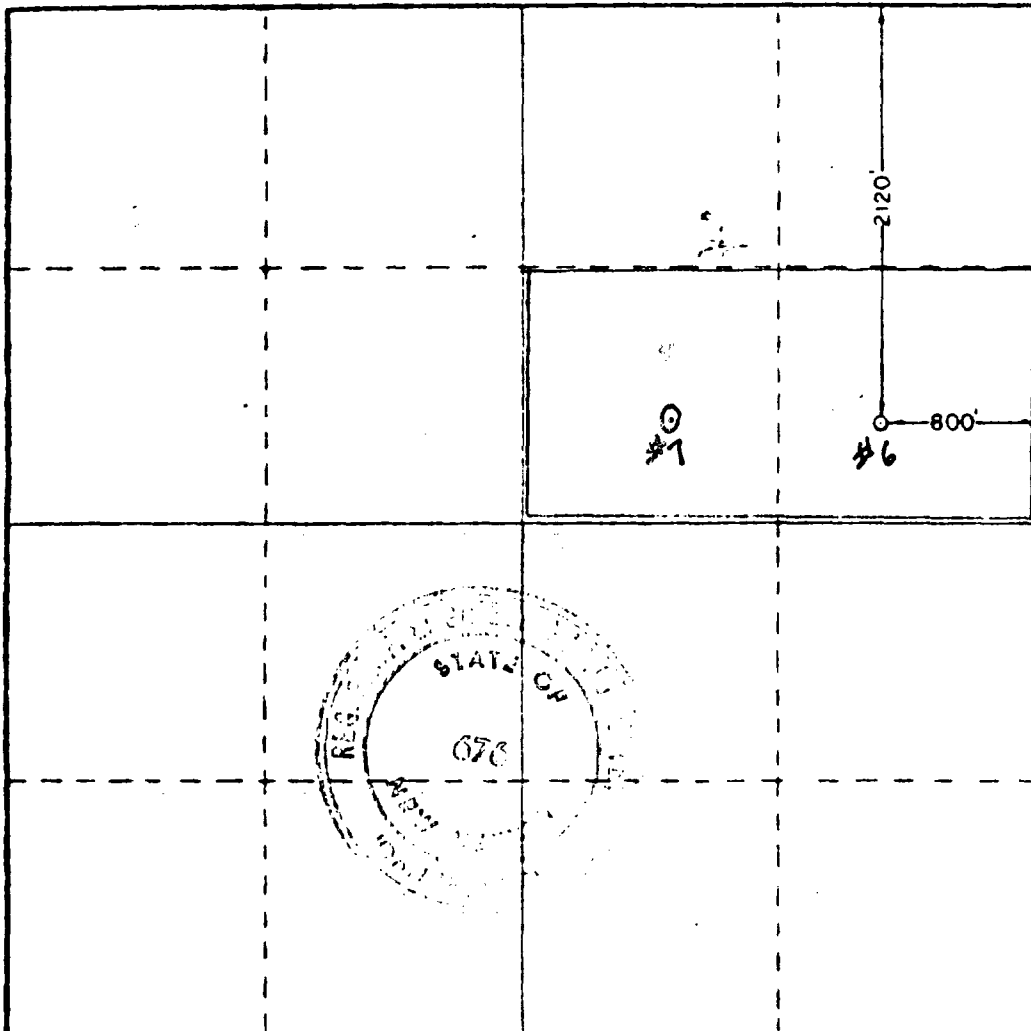
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JULY 28TH, 1979

Registered Professional Engineer
and Oil and Gas Surveyor

John W. West

Certificate No. **John W. West 676**
Ronald J. Eideen 3239



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-119
Superseded by 28
Effective 10-65

All distances must be from the outer boundaries of the Section

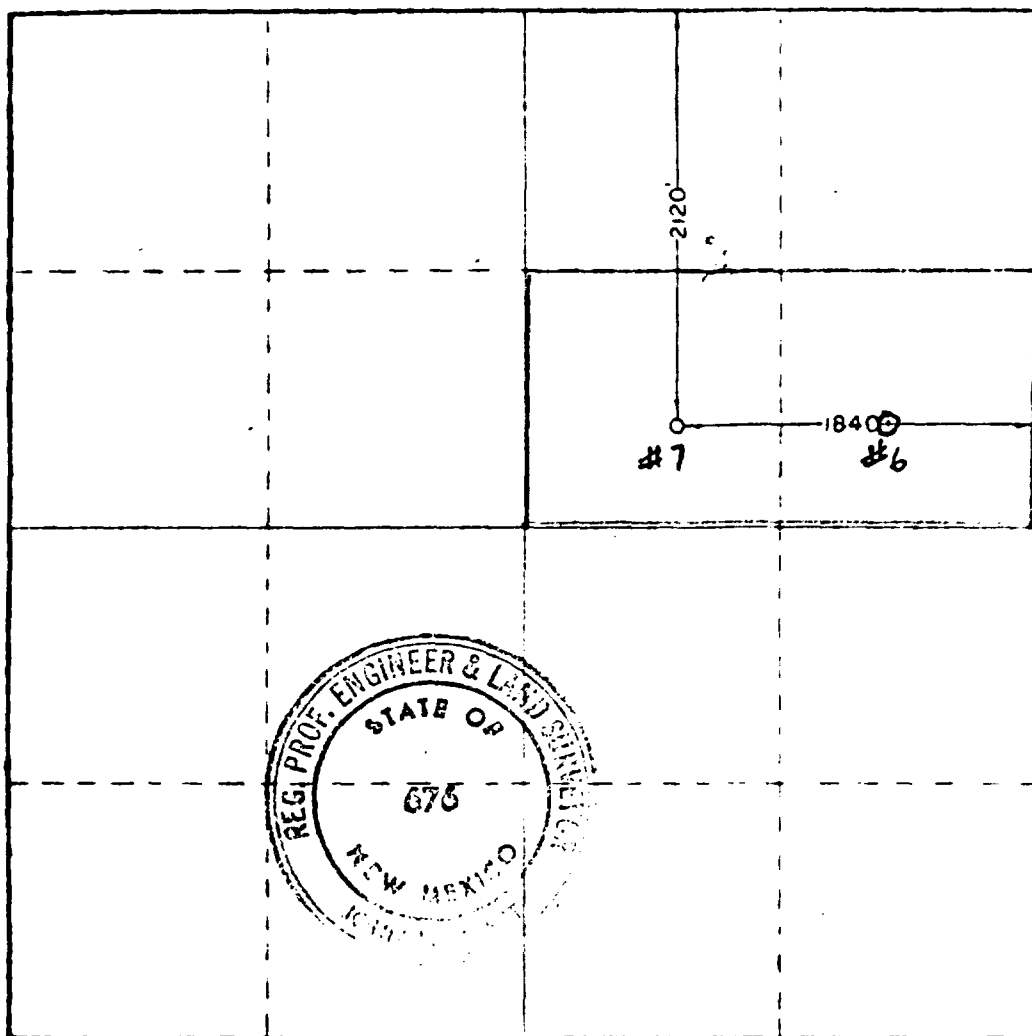
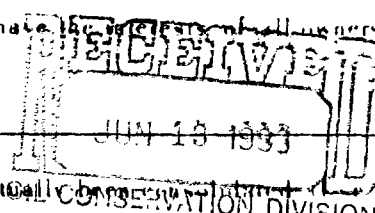
SOUTHERN UNION EXPLORATION CO.			SUSCO STATE		7
Grid Letter G	Section 19	Township 9 SOUTH	Range 33 EAST	LEA	
Actual Footage Location of Well: 2120 NORTH 1840 EAST					
Ground Level Elev. 4378.3	Producing Formation San Andres		Rock M San Andres		80°

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
***To be Shared with #5**
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actual bearing on the reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Ronald M. Seitz
State
Crlg. & Prod. Engineer

Location
Southern Union Expl. Co.

Company

Date
8-9-79

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date
JULY 28TH, 1979

Registered title to the property and to the well

John W. West

Certificate No. John W. West 676
Ronald J. Eidson 3239

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960

N. MEXICO OIL CONSERVATION COMMISS
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-128
 Effective 1-1-65

All distances must be from the outer boundaries of the Section

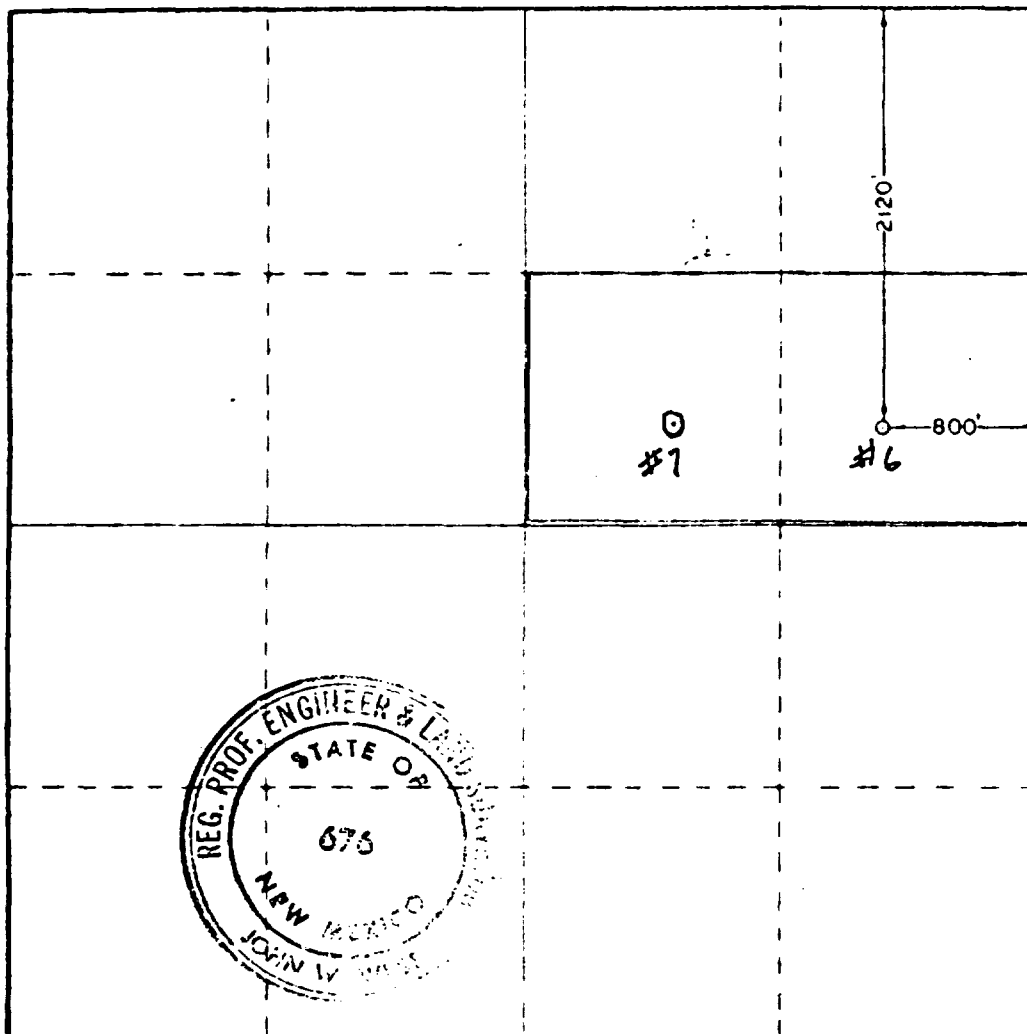
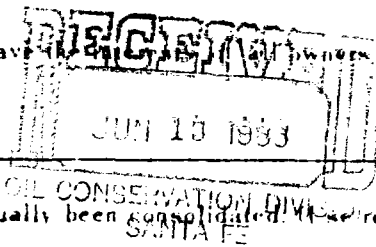
Grantor SOUTHERN UNION EXPLORATION CO.			Lease SUSCO STATE			Well No. 6		
Plat Letter H	Section 19	Township 9 SOUTH	Range 33 EAST	County LEA				
Actual Surface Location of Well: 2120 feet from the NORTH line and 800 feet from the EAST line								
Ground Level Elev. 4375.7	Producing Formation San Andres			Pool Flying M San Andres			Estimated Acreage 80*	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof both as to working interest and royalty). ***To Be Shared With #7**
3. If more than one lease of different ownership is dedicated to the well, have the owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Ronald M. Sentz
 Name
Ronald M. Sentz
 Position
Drilling & Production E
 Company
Southern Union Exp. Co.
 Date
8-9-79

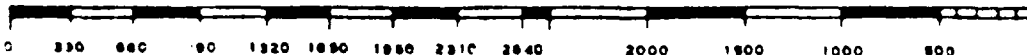
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JULY 28TH, 1979

Registered Professional Engineer and Land Surveyor

John W. West

Certificate No. **John W. West 676**
Ronald J. Eidson 3235



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-104
Supersedes C-12H
Effective 1-1-65

All distances must be from the outer boundaries of the Section

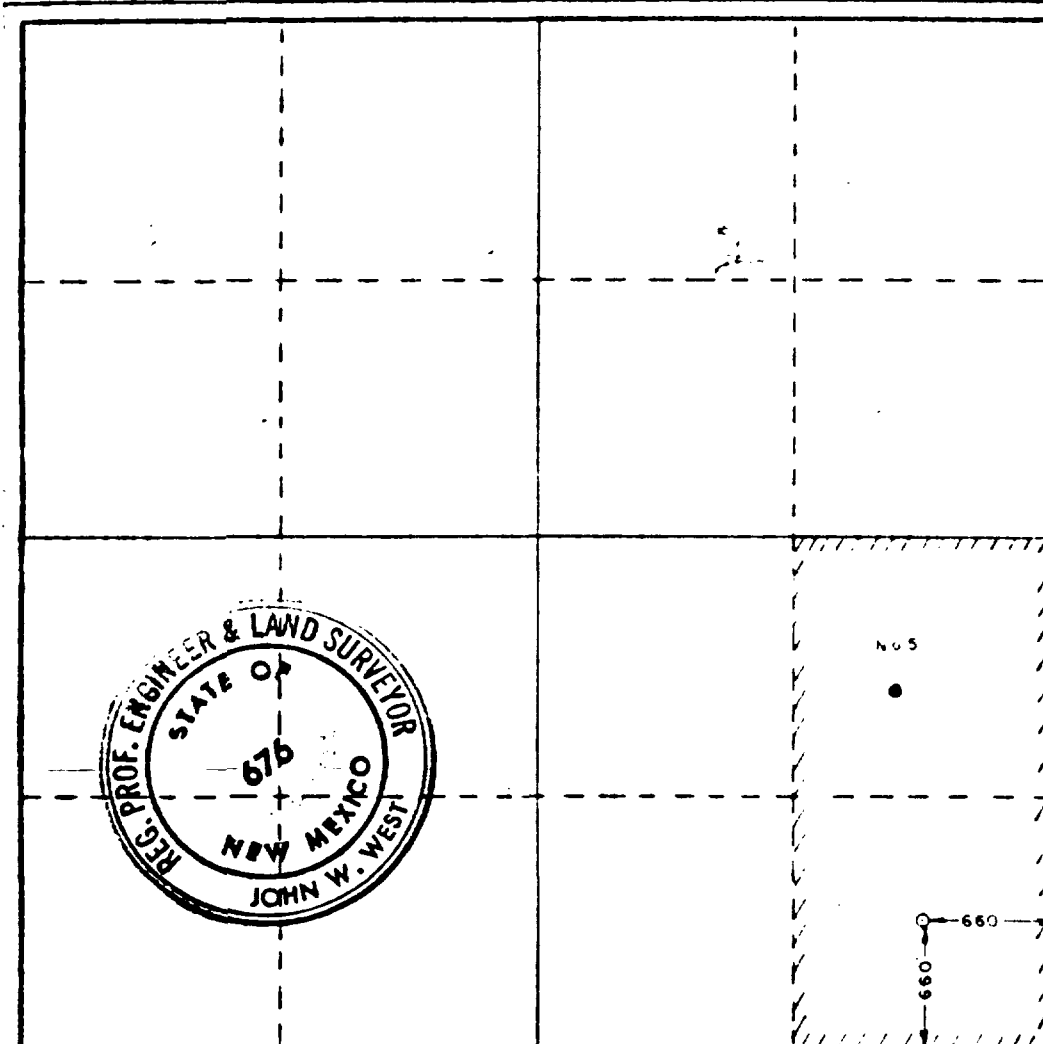
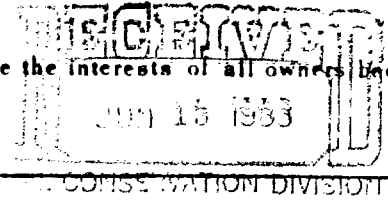
Operator Southern Union Exploration Co.			Lease SUSCO State		Well No. 1
Grid Letter P	Section 19	Township 9 South	Range 33 East	County Lea	
Actual Footage Location of Well: 660 feet from the South line and 660 feet from the East line					
Ground Level Elev.	Producing Formation San Andres		Pool Flying M		Dedicated Acreage: 80 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name John W. West
Position Agent

Company
Southern Union Exploration Co.

Date
August 28, 1978

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed _____

Registered Professional Engineer and/or Land Surveyor

Certificate No. **John W. West 676**
Ronald J. Eldson 3239



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

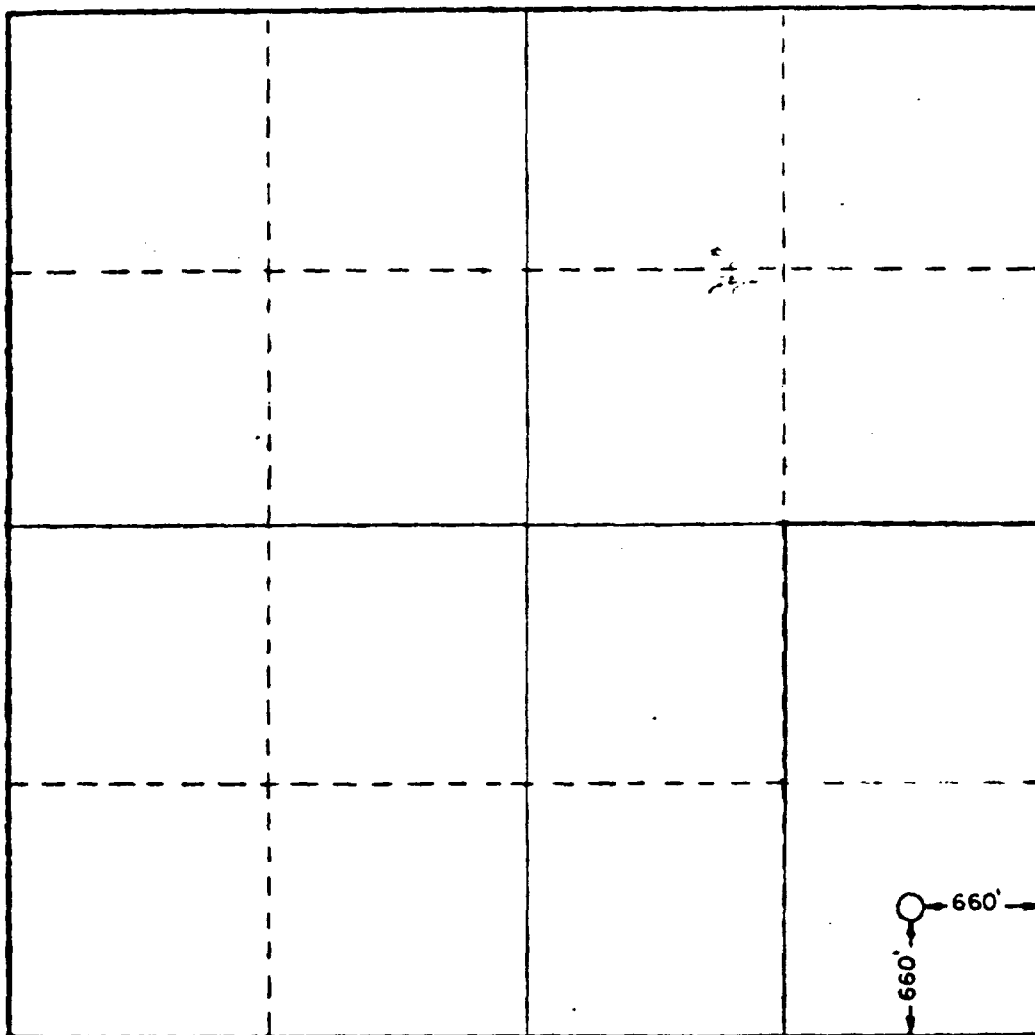
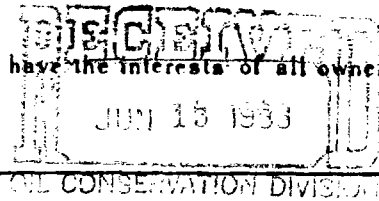
Operator SOUTHERN UNION SUPPLY COMPANY		Lease SUSCO State		Well No. 1
Unit Letter SP	Section 19	Township 9 South	Range 33 East	County Lea
Actual Footage Location of Well: 660 feet from the South line and 660 feet from the East line				
Ground Level Elev. 4368.7	Producing Formation San Andres		Pool Flying M	Dedicated Acreage: 80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



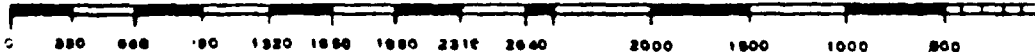
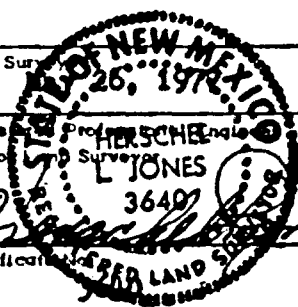
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Thomas Walker
Position
Agent
Company
Southern Union Supply Co.
Date
May 27, 1977

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
May 26, 1977
Registered Professional Surveyor
L. JONES
3640
Certificate No. **3640**



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Superseded C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

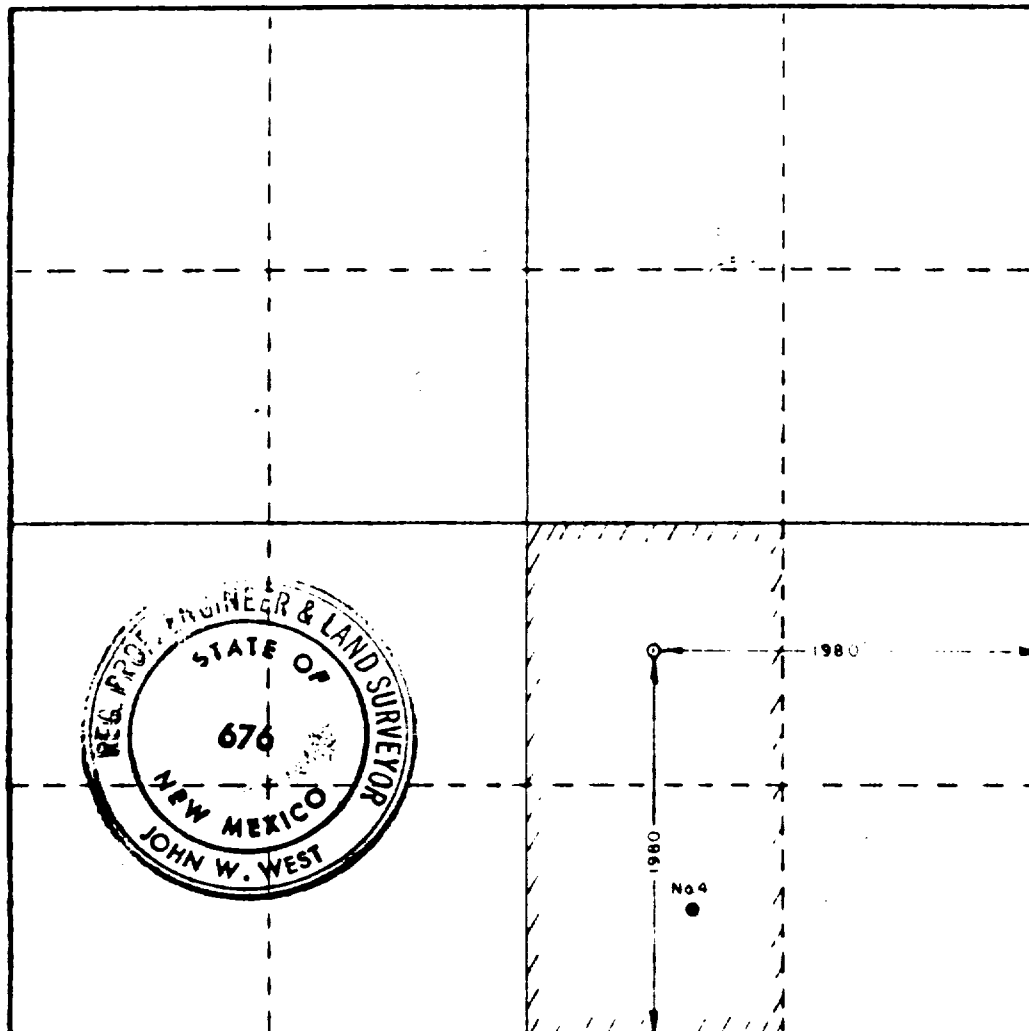
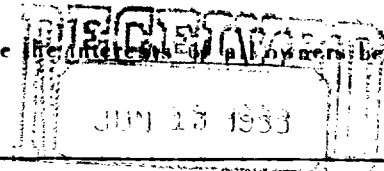
Operator Southern Union Exploration Co.		Lease SUSCO State		Well No. 2
Tract Letter J	Section 19	Township 9 South	Range 33 East	County Lea
Actual Footage Location of Well:				
1980 feet from the South line and		1980 feet from the East line		
Ground Level Elev. 4374.5	Producing Formation	Pool	Dedicated Acreage: Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes;" type of consolidation _____

If answer is "no;" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Name John W. West
Position Agent
Company Southern Union Exploration Co.
Date August 28, 1978

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed August 2, 1977
Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. John W. West 676
Ronald J. Eidson 3239



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAN

Form 10-1
Supersedes 10-1-24
Effective 1-1-75

All distances must be from the meter boundaries of the Section

Southern Union Supply Co.		SUSCO State		2
19	9 South	33 East	Lea	
1980	South	1980	East	
374.5	San Andres	Flying "M"	80	

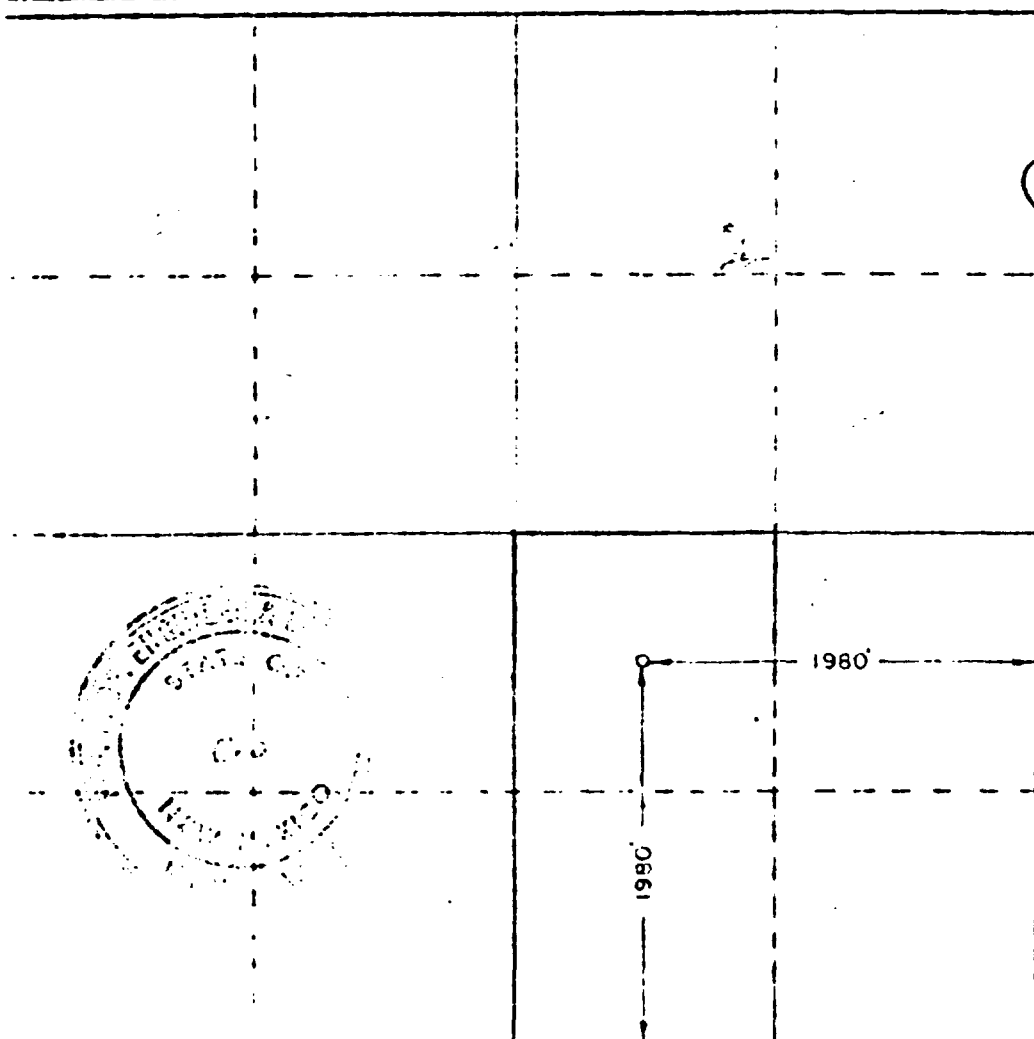
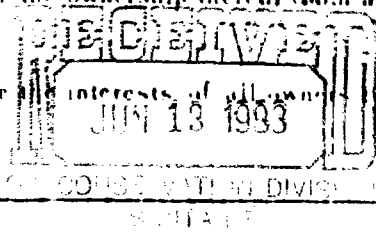
Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below

- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty)
- If more than one lease of different ownership is dedicated to the well, have all interests of all owners consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

J. W. Mulloy
J. W. Mulloy

Agent

Southern Union Supply Co.

August 5, 1977

I hereby certify that the well to be shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief

August 2, 1977

John W. White
John W. White

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 17-104
Supersedes 6-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

SOUTHERN UNION EXPLORATION COMPANY		Shell-Groebble, et al		1
Section B	30	Township 9 South	Range 33 East	County Lea

1840	feet from the	east	line and	520	feet from the	north	line
4367.2	Producing Formation San Andres		Pool Flying 'M'		Estimated Acreage 80		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation

Pooling Provisions in LEASE

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

LEASE	ROYALTY	
Cash	1/8	
Edwards	1/8	
Heaton	1/8	
Shell	30%	
Cash	1/8	
Mayer	3/16	
Cash	1/8	
Anderson	1/8	
Hyde, et ux	1/8	
Murphy, et ux	3/16	
Fralberg	1/8	
Cross	1/8	
Mitchell A & B	1/8	
Cash	1/8	
Groebli	3/16	
Dunne	1/8	

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Ronald M. Sentz
Position
D & P Eng
Company
Southern Union Exp
Date
11/12/79

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
June 14, 1978
Registered Professional Engineer
and or Land Surveyor

John W. West
Certificate No. John W. West 676
Ronald J. Edison 3272

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-124
Effective 1-1-73

All distances must be from the outer boundary line of the Section

Owner SOUTHERN UNION SUPPLY COMPANY			Lease SUSCO State		Well No. 1
Section 19	Township 9 South	Range 33 East	County Lea		

Section Footage Location of Well:

660 feet from the	South	660 feet from the	East
Line and		Line	

Acres 4368.7	Producing Formation San Andres	Pool Flying M	Dedicated Acreage: 80 Acres
---------------------	---------------------------------------	----------------------	------------------------------------

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

RECEIVED

JUN 13 1983

OIL CONSERVATION DIVISION

SANTA FE

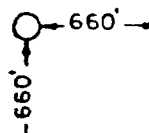
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *Norm Walker*
 Position **Agent**
 Company **Southern Union Supply Co.**
 Date **May 27, 1977**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Sub **26, 1977**
 Regis and/c **HERSCHEL L JONES 36407**
 Certified *[Signature]*
 REGISTERED LAND SURVEYOR



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102
Superseded O-12H
Effective 10/1/77

All distances must be from the outer boundaries of the Section

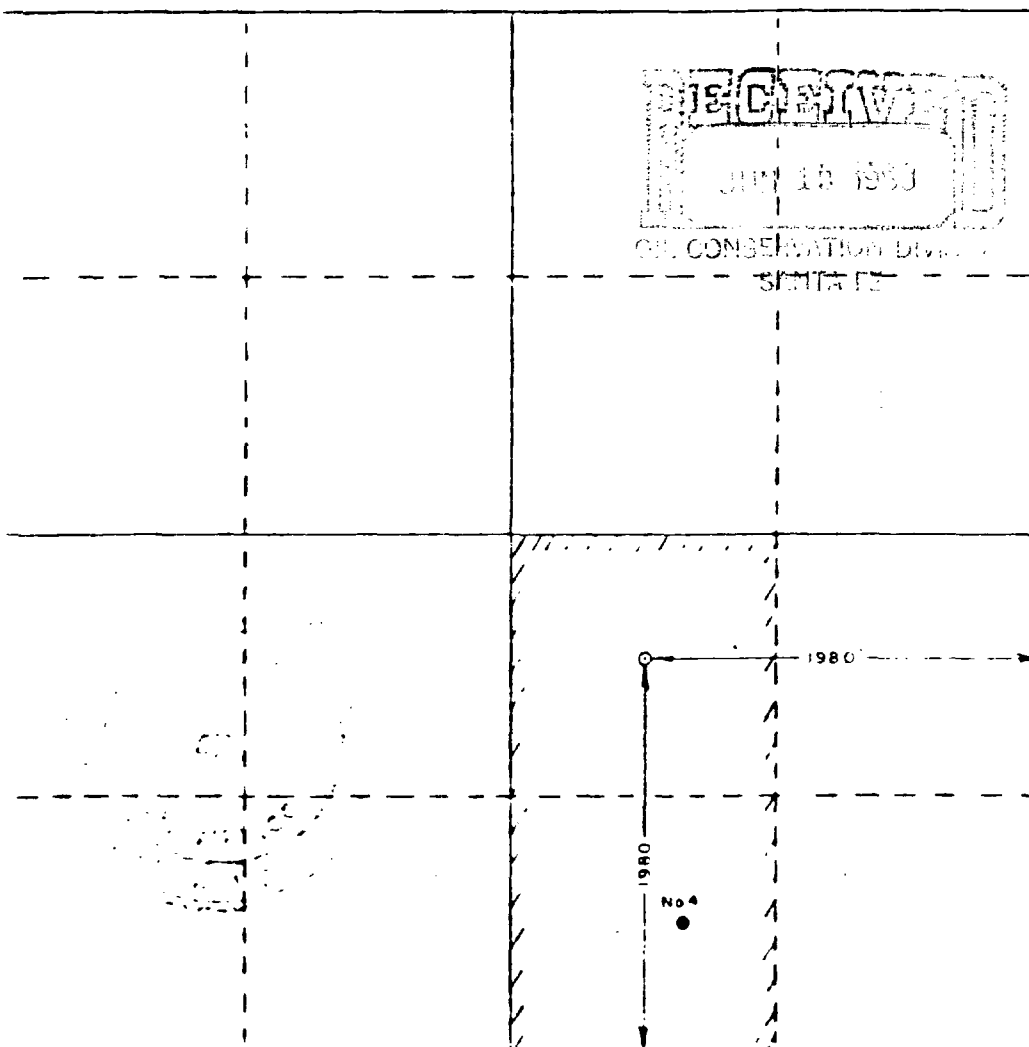
Owner Southern Union Exploration Co.			Lease SUSCO State			Acreage 2		
Section J	Section 19	Township 9 South	Range 33 East	County Lea				
Well Location of Well:								
1980 feet from the South line and			1980 feet from the East line					
Well Level Elev. 4374.5	Producing Formation		Pool		Dedicated Acreage: Acres			

- 1 Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- 2 If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 3 If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Name John W. West
Position Agent

Company Southern Union Exploration Co.

Date August 28, 1978

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed August 2, 1977

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. John W. West / 116

**N. MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form O-122
Supersedes O-121
1-1-78

All distances must be from the outer boundaries of the Section

Lessee Southern Union Exploration Co.			Lease Susco State		Well No. 5
Section 1	Township 19	Range 9 South	County 33 East	Lea	

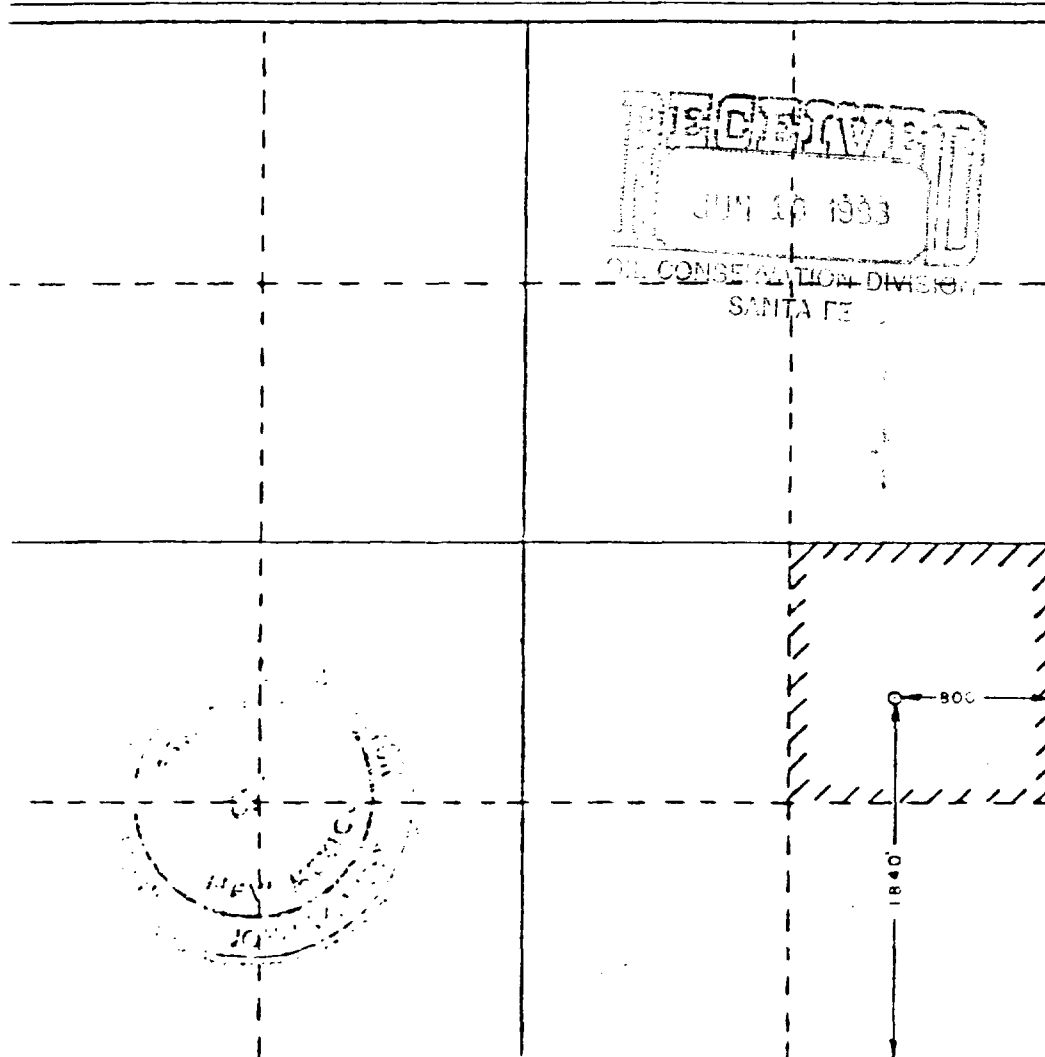
Actual Location of well:
1840 feet from the **South** line and **800** feet from the **East** line
 Surface Elev. **4372.2** Producing Formation **San Andres** Pool **Flying M** Dedicated Acreage **40** Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Name John W. West
 Position Agent
 Company Southern Union Exploration Co.
 Date August 18, 1978

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed August 16, 1978
 Registered Professional Engineer and or L and Surveyor

John W. West
 Certificate No. John W. West 676
Ronald J. Eldon 3239

N() MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102
 Supersedes
 Form O-101

All distances must be from the outer boundaries of the Section.

SOUTHERN UNION EXPLORATION CO.		SUSCO STATE		6
H	19	9 SOUTH	33 EAST	LEA

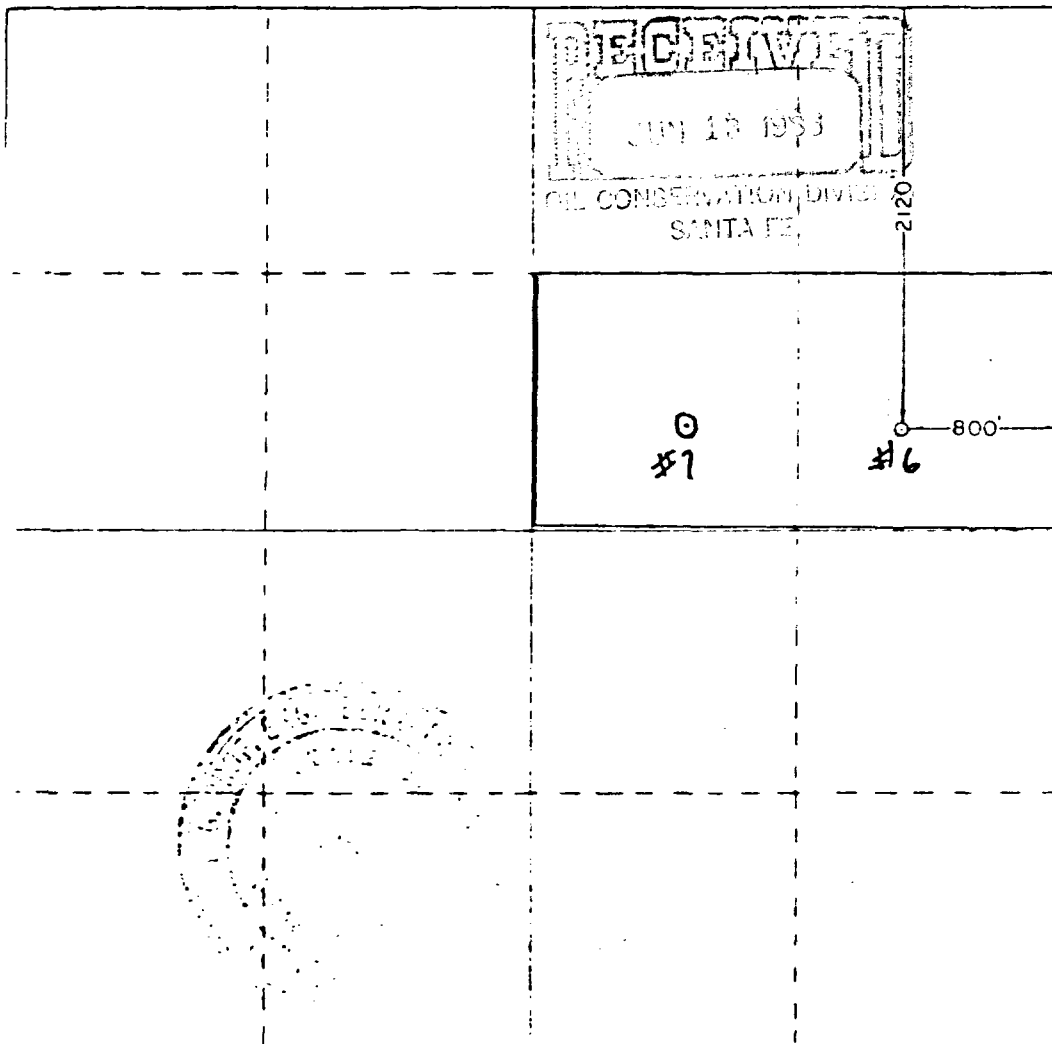
2120	feet from the	NORTH	and	800	feet from the	EAST	
4375.7	Producing Formation	San Andres			Pool	Flying H San Andres	
					Estimated Acreage	80*	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof both as to working interest and royalty). ***To Be Shared With #7**
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Ronald M. Sentz
 Ronald M. Sentz
 Drilling & Production Eng.
 Southern Union Exp. Co.

8-9-79

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

JULY 28TH, 1979

Registered Professional Engineer
 and Land Surveyor

John W. West

Certification No. John W. West 576
 Ronald J. Eidson 3239

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 7-79
Supersedes 1-7-78
Effective 1-1-79

All distances must be from the outer boundaries of the Section

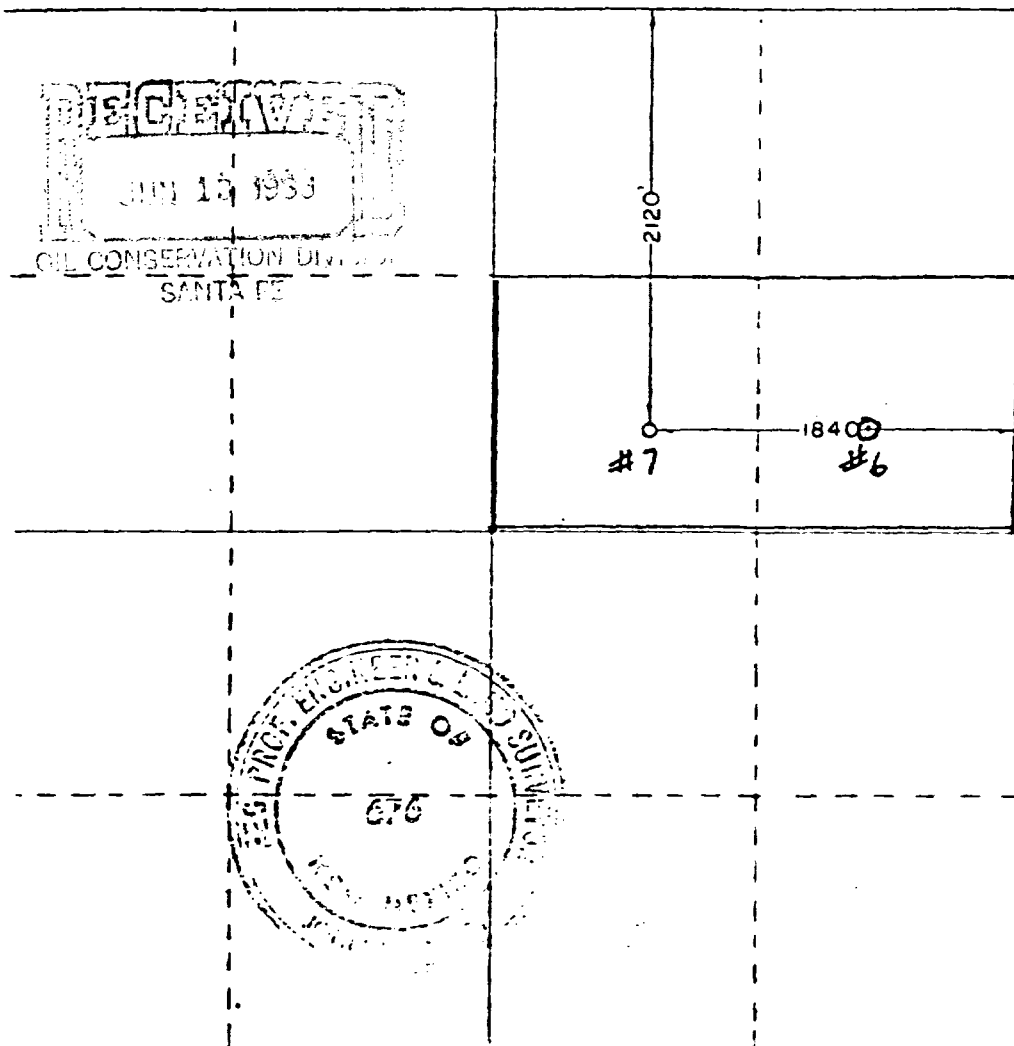
Owner SOUTHERN UNION EXPLORATION CO.			Lease SUSCO STATE			Acres 7		
Quarter G	Section 19	Tract 9 SOUTH	Range 33 EAST	County LTA				
Well Location of Well: <div style="display: flex; justify-content: space-between;"> 2120 NORTH 1840 EAST </div>								
Well Elev. 4378.3	Producing Formation San Andres		Pool 156 N San Andres			Dedicated Acreage 80*		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
***To Be Shared with #5**
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Ronald M. Seutz
Name
Dr. & Prod. Engineer

Position
Southern Union Expl. Co.

Company

Date
8-9-79

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JULY 28TH, 1979

Registered Professional Engineer
and or Land Surveyor

John W. West
Certificate No. **John W. West 676**

Ronald L. F. Jones 3230

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-100
Supersedes O-100
Effective 1-1-67

All distances must be from the outer boundaries of the Section

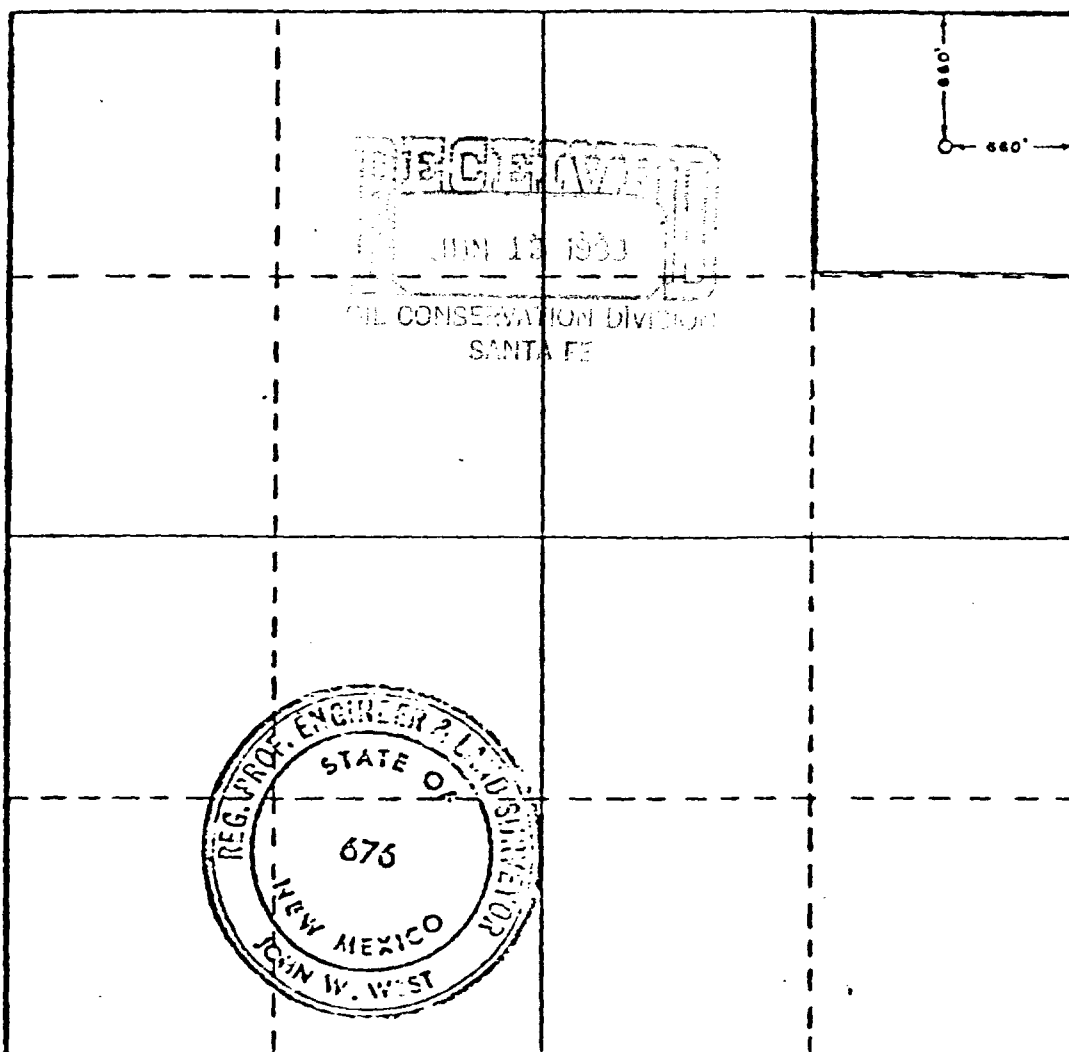
Operator Corinne GRACE		Lease T P STATE		Well No. 1	
Well Letter A	Section 17	Township 10 SOUTH	Range 33 EAST	County LEA	
Actual Footage Location of Well:					
660 feet from the NORTH line and		660 feet from the EAST line			
Ground Level Elev. 4190	Producing Formation San Andres	Pool Wildcat	Dedicated Acreage: 40 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Wanda Kelle
Position Agent
Company Corinne Grace
Date 12/23/68

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed DECEMBER 17, 1968

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. 676

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-1
Effective 1-4-65

All distances must be from the outer boundaries of the Section

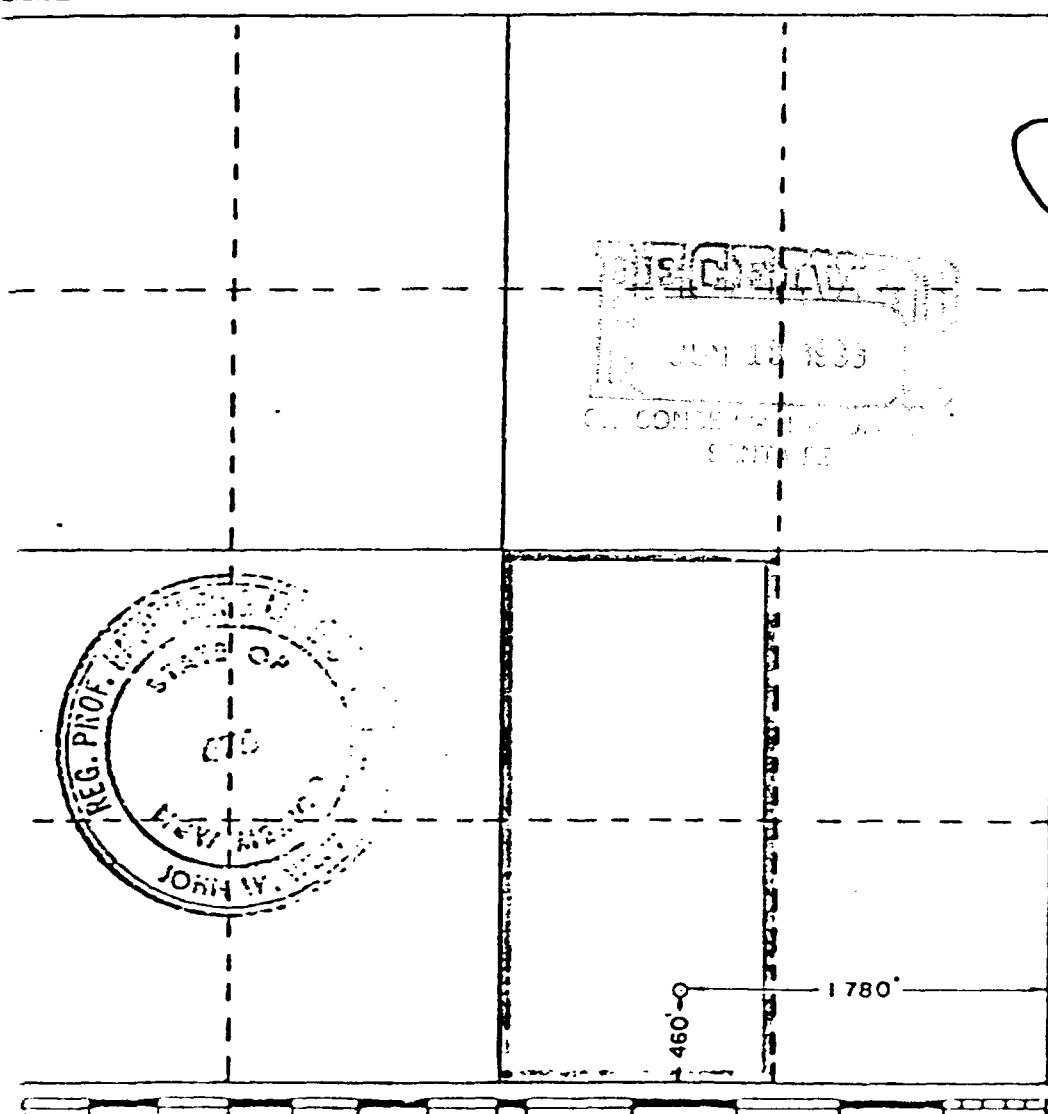
Owner Southern Union Exploration Co.			Lease Susco State		Well No. 4
Well Letter O	Section 19	Township 9 South	Range 33 East	County Lea	
Actual Footage Location of Well:					
460		South		1780	
feet from the		line and		feet from the	
				East	
Line		Line		Line	
Sound Level Elev. 4367.8	Producing Formation San Andres		Pool Flying "M"		Dedicated Acreage: 80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

John W. Mulloy
Name
John W. Mulloy

Position

Agent

Company

Southern Union Exploration Co.

Date

5-31-78

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

4/22/78

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **John W. West**

QUESTIONNAIRE TO BE COMPLETED IN CONNECTION
WITH SALT WATER DISPOSAL WELL EASEMENT

1. What is the oil and gas mineral ownership of the land from which the salt water will be produced? Private _____%, State 100%, Federal _____%.
- X 2. What is the approximate number of barrels of salt water that will be injected into the well per day? 500.
- X 3. What is the formation into which the salt water will be injected? Devonian
4. Have you enclosed consent of the oil and gas lessee for the use as a salt water disposal well? NO - SO-UNION IS LESSEE
- X 5. From which well (s) is the salt water being produced and to be injected? Give complete description of oil wells. (Attached plat showing oil wells, dry hole or well to be drilled in relation to injection well.
Suoco State #1, 2, 4, 5, 6, 7 ; TP State #1 ;
Shell Grobble #1
- X 6. What is your O.C.C. Order No. SWD-58
- X 7. What reaction have the adjacent wells reflected from the injected water? (Answer only if this is a renewal application)
None
- X 8. What is estimated reservoir of oil still to be recovered from wells which are the source of the salt water?
380,200 BBLs
- X 9. What is the estimated time that it will take to deplete the well or wells?
20 years

Signed by: _____

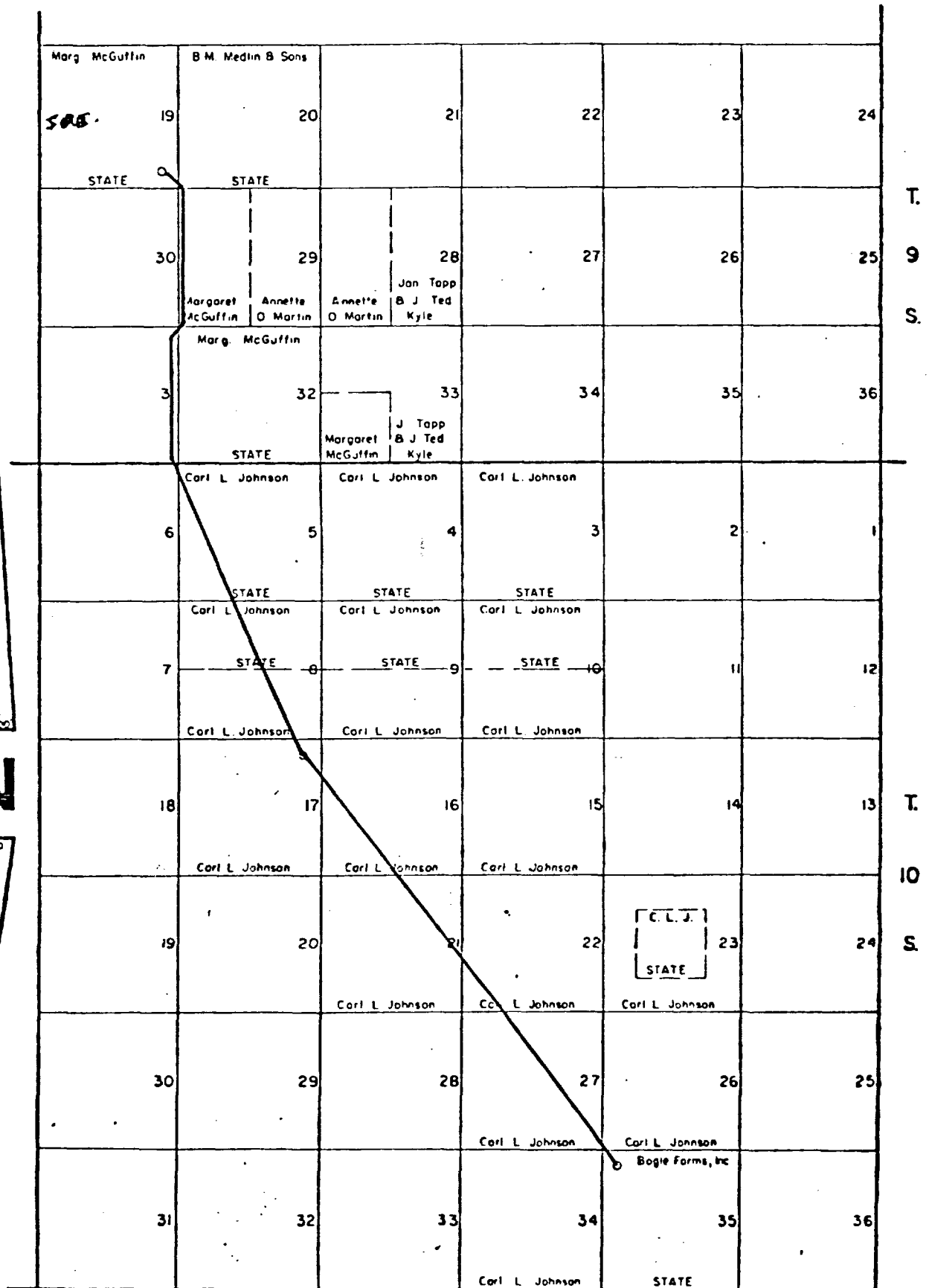
Address: _____

FOR OFFICE USE ONLY

Approved by O.C.C.: _____

SOUTHERN UNION EXPLORATION COMPANY

R. 33 E.



TO Southern Union

CO

W82-1245

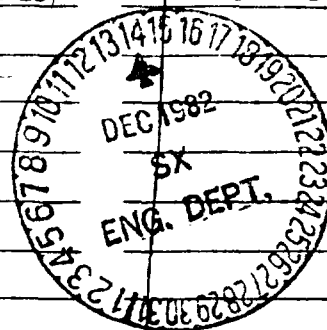
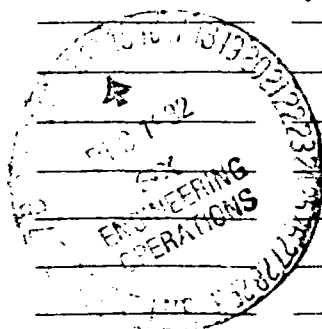
Hardness =

Submitted by _____ Date Received _____

Well No. _____ Depth _____ Formation _____

County _____ Field _____ Source _____

	Disp. Line		WINPMI //		Kenneth's Tank Car warfield 7 RTR 18 SEC 31, T 12 S, R 24 E SEC 29, T 12 S R			
Res.	Southern Union Exploration Co.							
S. G.	Mg/L	PPM	Mg/L	PPM	Mg/L	PPM	Mg/L	PPM
pH								
Ca	2.8	2800	1.2	120	6.6	6608	7.2	7200
Mg	2.0	1200	0.6	36	0.2	120	2.0	1800
Cl	(1) 28.3	141,500	(5) 0.4	400	B.O -	65,000	16.5	82,500
SO ₄	San Andres waters		Ogallala		Upper Penn		Upper Penn	
HCO ₃	4500 - 4700'		150'		10,000'		10,000'	
T Fe	Produced		Fresh		Produced		Produced	



HALLIBURTON DIVISION
HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 79301
LABORATORY WATER ANALYSIS

No. W80-1409

To Southern Union

Date 4/19/80

1st International Bldg.

Dallas, TX

1980 FUL + FNL Sec 17, T14S, R36E

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Submitted by Well Service & Hands

Date Rec. 4/16/80

Well No. State 17 #1 (?)

Depth

Formation

County

Field

Source

Mississippi @ 13,200'

Mississippian @ 13,200'

Resistivity

.093 @ 70°

Produced

Specific Gravity

1.062

pH

5.9

Calcium (Ca)

9700

ppm

*MPL

Magnesium (Mg)

nil

Chlorides (Cl)

52,500

ppm

Sulfates (SO₄)

nil

Bicarbonates (HCO₃)

245

ppm

Soluble Iron (Fe)

light

A.P.I. Gravity

39.4

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Jackson

HALLIBURTON COMPANY

By

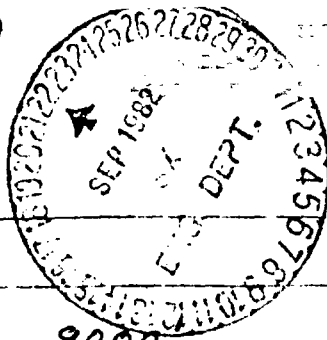
John Jackson

CHEMIST

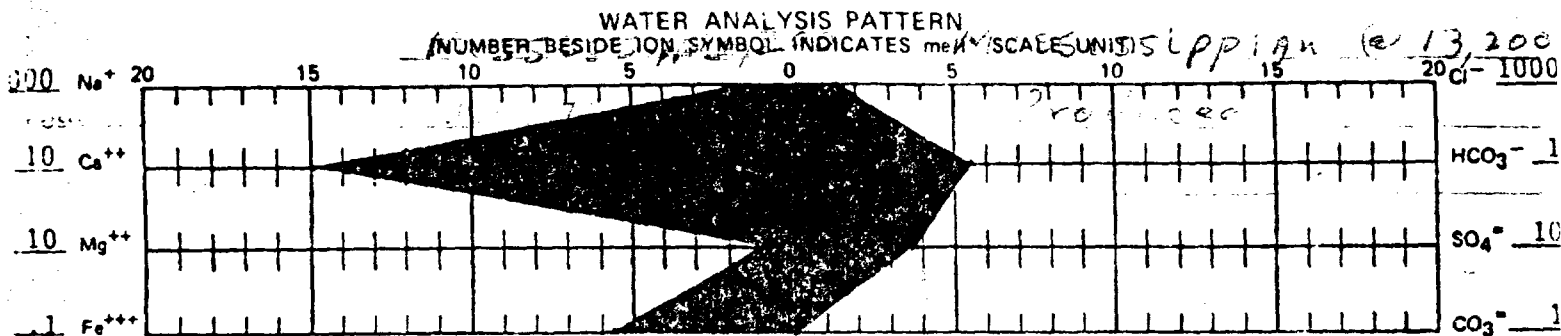
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future well work
file



COMPANY SOUTHERN UNION		ANALYSIS NUMBER #13/1	
COMPANY ADDRESS Bough "c" @ 9800		DATE 8/20/82	
FIELD Produced		STATE N.M.	
WELL (S) NAME OR NO. #2		WATER SOURCE (FORMATION) LEA	
DATE SAMPLED 8/18/82	TYPE OF WATER <input checked="" type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL		



DISSOLVED SOLIDS

IONS	me/l*	mg/l*
Total Hardness	160	---
Calcium, Ca ⁺⁺	150	3000
Magnesium, Mg ⁺⁺	10	122
Iron (Total) Fe ⁺⁺⁺	0.54	10
Barium, Ba ⁺⁺	---	---
Sodium, Na ⁺ (calc.)	1235.26	28410.98
ANIONS		
Chloride, Cl ⁻	1352	48000
Sulfate, SO ₄ ⁼	38.3	1840
Carbonate, CO ₃ ⁼	-0-	-0-
Bicarbonate, HCO ₃ ⁼	5.5	332.5
Hydroxyl, OH ⁻	-0-	-0-
Sulfide, S ⁼	---	---

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	30 mg/l*
Carbon Dioxide, CO ₂	166.32 mg/l*
Oxygen, O ₂	---

PHYSICAL PROPERTIES

pH	6.85
Specific Gravity	1.053
Total Dissolved Solids (calc.)	81708.48 mg/l*
Stability Index @ 23°C	+0.3
CaSO ₄ Solubility @ 23°C	56.6 me/l*
Max. CaSO ₄ Possible (calc.)	38.3 me/l*
Max. CaSO ₄ Possible (calc.)	me/l*
Residual Hydrocarbons	ppm (Vol/Vol)
Residual Hydrocarbons	ppm (Vol/Vol)

TOTAL SOLIDS (QUANTITATIVE) 81712.48

REMARKS AND RECOMMENDATIONS:

@23°C SLIGHT CARBONATE SCALING IS INDICATED, ALSO A SLIGHT CORROSIVE TENDENCY IS LIKELY.

@23°C CALCIUM SULFATE SCALING IS UNLIKELY.

*NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BAKER OIL TREATING REPRESENTATIVE W.H. FORT	ADDRESS	TELEPHONE OFF
ANALYZED BY R.D. HARDIN	DATE 8/20/82	DISTRIBUTION RES. well log

LABORATORY WATER ANALYSIS

No. _____

To SOUTHERN UNION SUPPLY

Date 12/9/77

FOY BOYD ASS.

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Produced

1306 Gihls Tower West-Midland, Texas

ATT: John Mulloy 660' FSL & 1980' FUL
Sec 19, T9-S, R33E

Submitted by Bob Munsell SAN ANDRES @ 4600' Date Rec _____

Well No. Susco State #3 Depth 4300 Formation San Andres

County Lea Field _____ Source Kwab

~~660' FUL & 460' FUL~~ ~~Sec 3, T10S, R37E~~

Resistivity _____ .041 @72° F

Specific Gravity _____ 1.160

pH _____ 5.6

Calcium (Ca) _____ 35,250 PPM *MPL

Magnesium (Mg) _____ 8,100 PPM

Chlorides (Cl) _____ 149,000 PPM

Sulfates (SO₄) _____ Med.

Bicarbonates (HCO₃) _____ 425 PPM

Soluble Iron (Fe) _____ Heavy

Remarks:

*Milligrams per liter

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DEC 12 1977

Respectfully submitted,

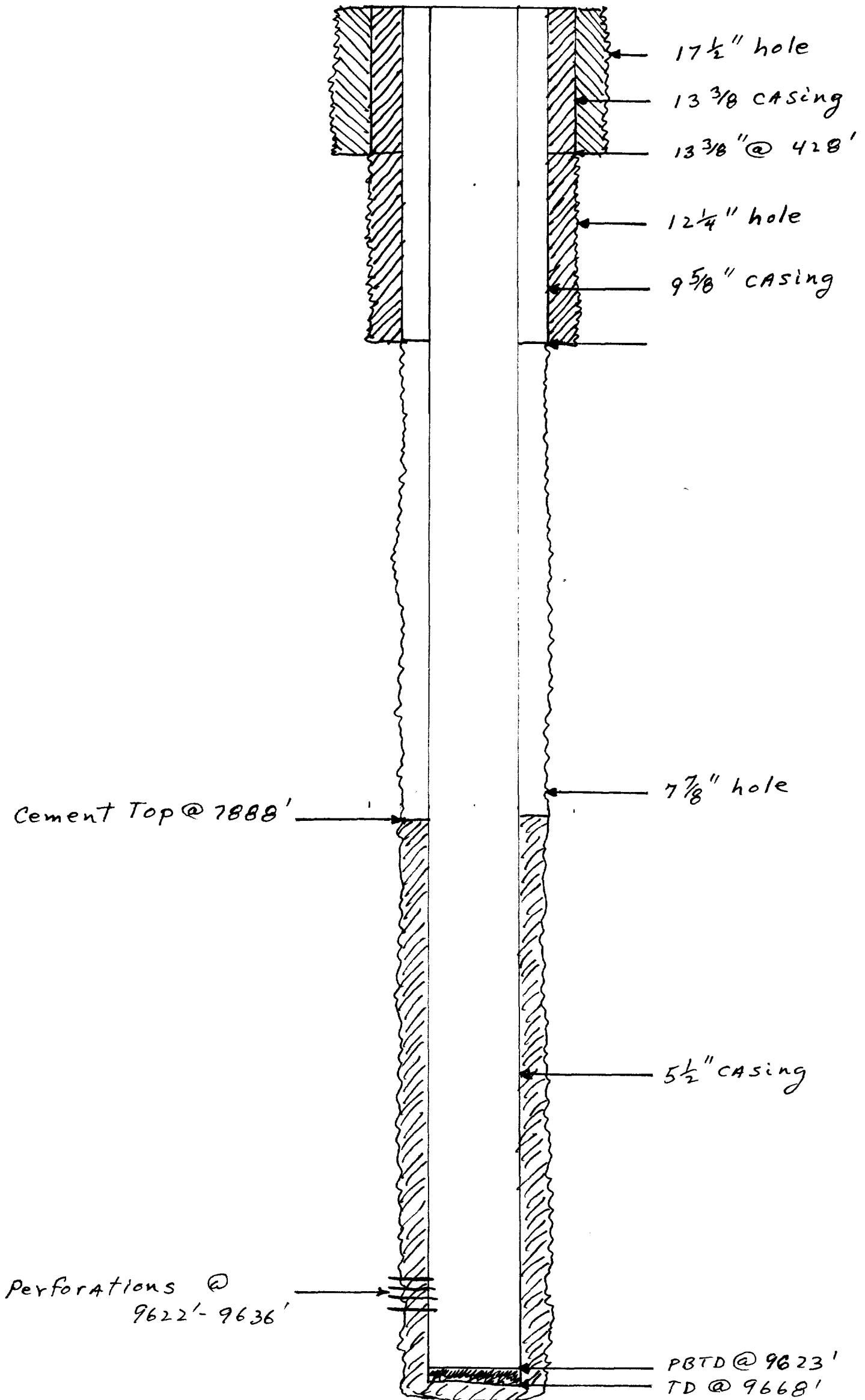
Analyst: [Signature]

FOY BOYD ASSOCIATES, INC.
HALLIBURTON COMPANY

By _____
CHEMIST

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Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
V-18

JAN 14 1983

1. TYPE OF WELL	OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>
2. TYPE OF COMPLETION	NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/>
3. Name of Operator	Southern Union Exploration Company of Texas
4. Address of Operator	1217 Main Street, Suite 400, Dallas, Texas 75202
5. Location of Well	Conservation Division Santa Fe

7. Unit Agreement Name
8. Farm or Lease Name
Susco Bough "C" Unit
9. Well No.
2
10. Field and Pool, or Wildcat
Inbe Penn

UNIT LETTER	E	LOCATED	660	FEET FROM THE	West	LINE AND	1980	FEET FROM
THE	North	LINE OF SEC.	27	TWP.	10S	RGE.	33E	NMPM

12. County
Lea

11. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead	
7/19/81	9/14/81	11/4/81	4194.1' GR	4196.1'	
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
9681'	9660'	---	XX		
24. Producing Interval(s), of this completion - Top, Bottom, Name					25. Was Directional Survey Made
Bough "C", Top - 9617', Bottom - 9640'					Yes
26. Type Electric and Other Logs Run					27. Was Well Cored
DLL/MLL/GR, CNL/CDL/GR, Prolog					Yes

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	61	428'	17 1/2"	420 sks Class C	
9 5/8"	36 & 40	3975'	12 1/4"	1750 sks Howco Lite	
5 1/2"	17	9668'	7 7/8"		

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

28. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
9622-9636'	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	9622-9636'	500 gals of Mod 101 Acid

29. PRODUCTION							
30. Date First Production		31. Production Method (Flowing, gas lift, pumping - Size and type pump)				33. Well Status (Prod. or Shut-in)	
11/6/81		Pumping (2" x 1 1/4" x 24' Axelson pump)				Prod.	
34. Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
11/16/81	24	Open	---	0.3	TSTM	6	---
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
0	0	---	0.3	TSTM	6	34.3°	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
Vented	Martin Boggs

35. List of Attachments
DLL/MLL/GR & Deviation Survey

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.		
SIGNED	Drilling & Production Engineer	DATE
Pat S. Hamell		1/4/83

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anny _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Balt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres 3765'	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta 5271'	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb 6711'	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo 7588'	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp 8761'	T. _____	T. Chinle _____	T. _____
T. Penn. 9470'	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) 9617'	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
3765'	5271'	1506	Sand				
5271'	6711'	1440	Sand				
6711'	7588'	877	Lime				
7588'	8761'	1173	Lime & Sand				
8761'	9470'	709	Lime & Sand				
9470'	9617'	147	Sand				
9617'	9681'	64	Sand				

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JUN 10 1963
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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-70

JUN 14 1983

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
V-18	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A WELL OR TO RE-ENTER A WELL)
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PURPOSES

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. Unit Agreement Name	
2. Name of Operator Southern Union Exploration Company of Texas		8. Farm or Lease Name Susco Bough "C" Unit	
3. Address of Operator 1217 Main Street, Suite 400, Dallas, Texas 75202		9. Well No. 2	
4. Location of Well UNIT LETTER <u>E</u> <u>660</u> FEET FROM THE <u>West</u> LINE AND <u>1980</u> FEET FROM <u>North</u> LINE, SECTION <u>27</u> TOWNSHIP <u>10S</u> RANGE <u>33E</u> NMPM.		10. Field and Pool, or Wildcat Inbe Penn	
15. Elevation (Show whether DF, RT, GR, etc.) 4194.1' GR		12. County Lea	

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <u>Well Status</u> <input checked="" type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

At present, the Bough "C" Unit #2 is pumping at a rate of 2 to 3 barrels of fluid per day with a trace of oil. The reservoir study for the area has been completed and is being utilized to assess the economic value of the Bough "C" and potential productive zones that are behind pipe. The well will continue pump testing until a decision is attained. At that time, a Sundry Notice will be filed to appraise you of the pending action.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>Pat S. Hamill</u>	TITLE <u>Drilling & Production Engineer</u>	DATE <u>1/4/83</u>
APPROVED BY <u>[Signature]</u>	TITLE <u>SUPERVISOR DISTRICT 1</u>	DATE <u>JUN 14 1983</u>
CONDITIONS OF APPROVAL, IF ANY:		

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ILE	
S.G.S.	
AND OFFICE	
PERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-85

SUNDRY NOTICES AND REPORTS ON WELL
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

RECEIVED
JUN 13 1983

OIL WELL ☒ **GAS WELL** ☐ **OTHER** ☐

Name of Operator
Southern Union Expl. Co. of TX

Address of Operator
1217 Main St., Suite 400, Texas Fed. Bldg., Dallas, Texas 75202

Location of Well
UNIT LETTER E 660 FEET FROM THE West LINE AND 1980 FEET FROM
THE North LINE, SECTION 27 TOWNSHIP 10S RANGE 33E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
4194.1' GR

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.
V-18

7. Unit Agreement Name

8. Farm or Lease Name
Susco Bough "C" Unit

9. Well No.
2

10. Field and Pool, or Wildcat
Inbe Penn

12. County
Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

ILL OR ALTER CASING ☐ OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOBS ☐

OTHER Perforation and pump testing ☒

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Perforated Bough "C" from 9622-9636' and acidized with 500 gals of Mod 101. Ran tubing and down hole pump. Set pumping unit and ran rods. Began pump testing well on 11/4/81.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

APPROVED BY Pat G. Hanell TITLE Drig. & Prod. Engineer DATE January 22, 1982

APPROVED BY Leslie A. Clements TITLE OIL & GAS INSPECTOR DATE JAN 23 1982

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

JUL 29 1982

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
V-18

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK OR TO RE-ENTER A WELL. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PURPOSES.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Southern Union Exploration Company of Texas	8. Farm or Lease Name Susco Bough "C" Unit
3. Address of Operator 1217 Main St., Suite 400, Dallas, Texas 75202	9. Well No. 2
4. Location of Well UNIT LETTER <u>E</u> <u>660</u> FEET FROM THE <u>West</u> LINE AND <u>1980</u> FEET FROM THE <u>North</u> LINE, SECTION <u>27</u> TOWNSHIP <u>10S</u> RANGE <u>33E</u> NMPM.	10. Field and Pool, or Wildcat Inbe Penn
15. Elevation (Show whether DF, RT, GR, etc.) 4194.1' GR	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> Well Status

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

As of July 22, 1982, the Bough "C" Unit #2 was pumping at a rate of 2 barrels of fluid per day with a trace of oil show. At present, an ongoing reservoir study of the area is under evaluation. A meeting with the partners in the well will be held in the near future to decide what final actions are to be undertaken. As soon as this decision is reached, a Sundry Notice will be filed to appraise you of the pending action to be taken.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>Pat G. Hamell</u>	TITLE <u>Drilling and Production Engineer</u>	DATE <u>July 23, 1982</u>
APPROVED BY <u>[Signature]</u>	TITLE <u>SUPERVISOR DISTRICT 1</u>	DATE <u>JUL 27 1982</u>
CONDITIONS OF APPROVAL, IF ANY:		

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. V-18
7. Unit Agreement Name
8. Farm or Lease Name Susco Bough "C" Unit
9. Well No. 2
10. Field and Pool, or Wildcat Inbe Penn
12. County Lea

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

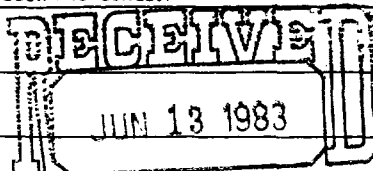
OIL WELL ☒ GAS WELL ☐ OTHER ☐

Name of Operator
Southern Union Exploration Company of Texas

Address of Operator
1217 Main Street, Dallas Texas 75202

Location of Well
UNIT LETTER E 660 FEET FROM THE West LINE AND 1980 FEET FROM
THE North LINE, SECTION 27 TOWNSHIP 10 S RANGE 33 E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
4194.1' GR

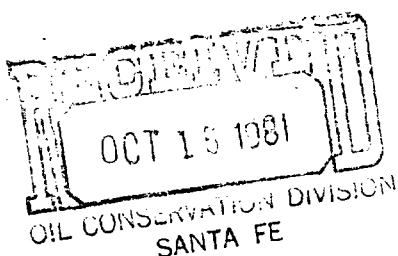


Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER <u>Complete and Test</u> <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> REMEDIAL WORK <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> CASING TEST AND CEMENT JOBS <input type="checkbox"/> OTHER <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>

7. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 1) Run GR/CCL/CBL from TD to surface casing
- 2) Perforate Bough "C" zone
- 3) Flow or swab test Bough "C" zone.
- 4) Acidize and/or stimulate the zone.
- 5) Flow or swab test zone to evaluate potential as a commercial well.



16. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Pat L. Hamell TITLE Drilling & Production Engineer DATE October 7, 1981

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT 1 DATE OCT 13 1981

CONDITIONS OF APPROVAL, IF ANY:

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OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
V -18

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Southern Union Exploration Company of Texas	8. Farm or Lease Name Susco Bough "C" Unit
3. Address of Operator 1217 Main Street, Dallas, Texas 75202	9. Well No. # 2
4. Location of Well UNIT LETTER <u>E</u> , <u>660</u> FEET FROM THE <u>West</u> LINE AND <u>1980</u> FEET FROM THE <u>North</u> LINE, SECTION <u>27</u> TOWNSHIP <u>10 S</u> RANGE <u>33 E</u> NMPM.	10. Field and Pool, or Wildcat Vada-Inbe Penn- Bough "C"
15. Elevation (Show whether DF, RT, GR, etc.) 4194.1' GR	12. County LEA

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Ran 9668' of 5½", 17#/ft., N-80, LT&C casing on 9-17-81.
Cemented with 500 sks Class "H" + 4000 # salt + 282# of 6% Halad 22-A on 9-18-81. Test casing to 1500 psi for 15 minutes. Held OK.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Pat G. Harrell 10/28/81 TITLE Drlg. & Prod. Engineer DATE September 28, 1981
APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT DATE OCT 8
CONDITIONS OF APPROVAL, IF ANY:

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. V - 18

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.)
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Southern Union Exploration Company of Texas	8. Farm or Lease Name Susco Bough "C" Unit
3. Address of Operator 1217 Main Street., Dallas, Texas 75202	9. Well No. # 2
4. Location of Well UNIT LETTER E 660 FEET FROM THE West LINE AND 1980 FEET FROM THE North LINE, SECTION 27 TOWNSHIP 10 S RANGE 33 E NMPM.	10. Field and Pool, or Wildcat Wade Inbe Penn-Bough "C"
15. Elevation (Show whether DF, RT, GR, etc.) 4194.1' GR	12. County LEA

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Ran 3975' of 9 5/8" casing consisting of : 21 jts of 40#/ft. J-55 ST&C and 77 jts of 36#/ft., J-55, SR&C on 8-5-81.
Cemented w/ 1750 sks Halliburton lite + 15 #/sk salt + 5#/sk gilsonite + 1/4#sk flocele + 2% CaCL. Circulated 50 sacks cement to surface during job. WOC for 8 hrs. Tested casing to 1500 psi for 20 minutes. Held OK. Drilled out 9 5/8" casing using a 7 7/8" bit and made 5' of formation. Test to 1000 psi for 15 minutes w/8.3#/gal. fluid in hole. Held OK.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Pat D. Harrell TITLE Drlg & Prod. Engineer DATE September 28, 1981

APPROVED BY _____ TITLE _____ DATE OCT 2 1981
CONDITIONS OF APPROVAL, IF ANY:

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. V - 18
7. Unit Agreement Name
8. Farm or Lease Name Susco Bough "C" Unit
9. Well No. # 2
10. Field and Pool, or Wildcat Vada Inbo Penn- Bough "C"
12. County LEA

SUNDY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

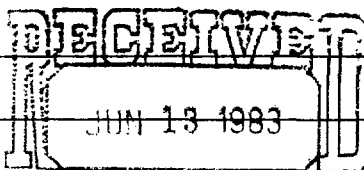
1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER-

2. Name of Operator
Southern Union Exploration Company of Texas

3. Address of Operator
1217 Main Street, Dallas, Texas 75202

4. Location of Well
UNIT LETTER E 660 FEET FROM THE West LINE AND 1980 FEET FROM THE North LINE, SECTION 27 TOWNSHIP 10 S RANGE 33 E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
4194.1' GR



16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Ran 428' of 13 3/8", 61#/ft., J-55, ST&C casing on 7-20-81. Cemented with 420 sacks of Class "C" cement with 2% caCL.
Circulated 40 sacks of cement to surface during job. WOC for 8 hrs. Tested casing to 500 psi for 15 minutes. Held OK. Drilled out 13 3/8" casing with a 12 1/4" bit. Made 5' of formation and tested to 1500 psi for 30 minutes. Held OK.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Pat M. Harrell TITLE Drig & Prod. Engineer DATE September 28, 1981

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT DATE OCT 2 1981

CONDITIONS OF APPROVAL, IF ANY:

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
V -18

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☐ OTHER- ☐

2. Name of Operator
Southern Union Exploration Company of Texas

3. Address of Operator
1217 Main Street, Dallas, Texas 75202

4. Location of Well
UNIT LETTER E 660 FEET FROM THE West LINE AND 1980 FEET FROM
THE North LINE, SECTION 27 TOWNSHIP 10 S RANGE 33 E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
4194.1' GR

7. Unit Agreement Name
8. Farm or Lease Name
Susco Bough "C" Unit
9. Well No.
#2
10. Field and Pool, or Wildcat
Vada Inbe Penn Bough "C"
12. County
LEA

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>
OTHER <input type="checkbox"/>	OTHER <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Well spudded at 10:30 PM on 7-19-81

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Pat N. Harrell TITLE Drlg & Prod. Engineer DATE September 28, 1981

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT DATE OCT 2 1981

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LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. V -18

<p>SUNDRY NOTICES AND REPORTS ON WELLS <small>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)</small></p>		
1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER-	<p>RECEIVED JUN 13 1983 OIL CONSERVATION DIVISION</p>	7. Unit Agreement Name
2. Name of Operator Southern Union Exploration Company of Texas		8. Farm or Lease Name Susco Bough "C" Unit
3. Address of Operator 1217 MAIN ST. , Dallas, Texas 75202		9. Well No. #2
4. Location of Well UNIT LETTER <u>E</u> , <u>660</u> FEET FROM THE <u>West</u> LINE AND <u>1980</u> FEET FROM THE <u>North</u> LINE, SECTION <u>27</u> TOWNSHIP <u>10 S</u> RANGE <u>33E</u> NMPM.		10. Field and Pool, or Wildcat Wada Inbe Penn-Bough "C"
15. Elevation (Show whether DF, RT, GR, etc.) 4194.1' GR		12. County LEA

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> Changing Well Name	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Old Name : Susco 27 State #1

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Pat M. Harrell, Jr. TITLE Drllg. & Prod. Engineer DATE September 28, 1981
 APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT DATE OCT 2 1981
 CONDITIONS OF APPROVAL, IF ANY:

30-025-27276

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE ☒ FEE ☐

5. State Oil & Gas Lease No.
V-18

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

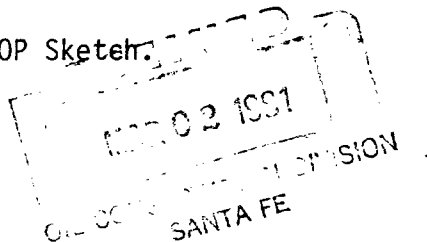
1a. Type of Work b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. Unit Agreement Name	
2. Name of Operator Southern Union Exploration Company of Texas		8. Farm or Lease Name Susco State 27 State	
3. Address of Operator 1217 Main Street, Dallas, Texas 75202		9. Well No. #1	
4. Location of Well UNIT LETTER E LOCATED 660' FEET FROM SANTA FE LINE AND 1980 FEET FROM THE North LINE OF SEC. 27 TWP. 10S RGE. 33E NMPM		10. Field and Pool, or Wildcat Bagley - Bough "C"	
12. County Lea		19. Proposed Depth 10,000'	
21. Elevations (Show whether DF, RT, etc.) 4194.1 GR		19A. Formation Bough "C"	
21A. Kind & Status Plug. Bond		20. Rotary or C.T. Rotary	
21B. Drilling Contractor Unknown		22. Approx. Date Work will start February 15, 1981	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	48#	400'	Circulate	-
12-1/4"	8-5/8"	24# & 32#	4000'	2100	Surface
7-7/8"	5-1/2"	15.5# & 17#	10,000'	1000	4000'

BOP equipment will be used in accordance with New Mexico state rules and will be adequate for the area.

See attached BOP Sketch.



APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 8/23/81
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Ronald M. Smith Title Drilling & Production Engineer Date February 10, 1981

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT DATE FEB 23 1981

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-128
Supersedes O-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Southern Un Expl Co of TX

~~Southern Union Exploration Co.~~

SUSCO

~~State~~

27 State

1

E

27

10

South

33

East

Lea

1980

north

660

west

4194.1

Bough "C"

Bagley

Julie Romero

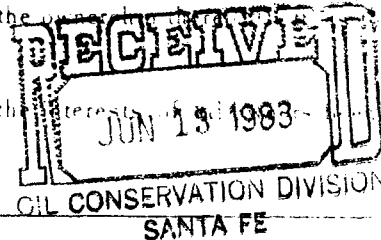
40 80

Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below

If more than one lease is dedicated to the well, outline each and identify the interest and royalty

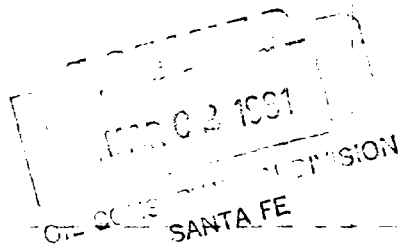
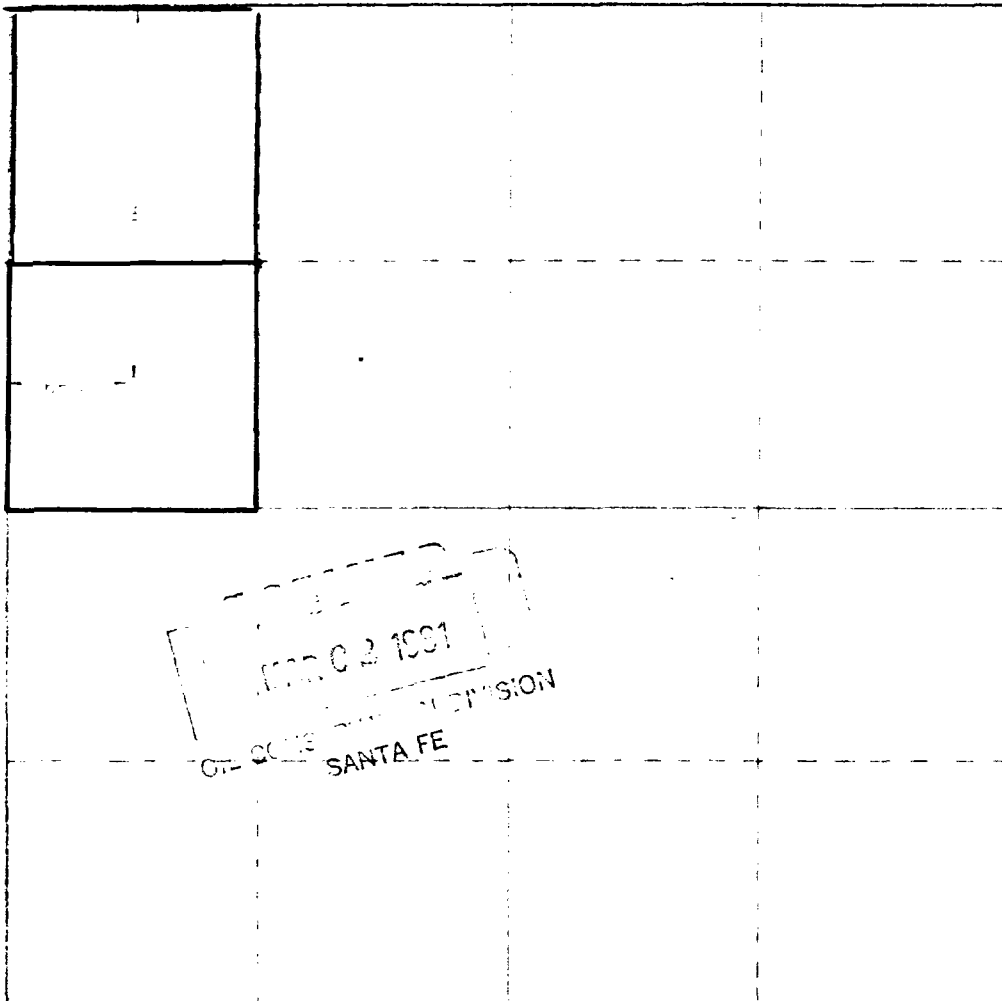
If more than one lease of different ownership is dedicated to the well, have the interest identified by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation



If answer is "no," list the owners and tract descriptions which have actually been consolidated. If so, reverse side of this form, if necessary

No interest will be assigned to the well until all interests have been consolidated by communitization, unitization, force-pooling, or otherwise or until a non-standard unit, eliminating such interests, has been approved by the Commission



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Ronald M. Sentz
Ronald M. Sentz

Drilling & Production Eng.

Southern Un Expl Co of TX

February 10, 1981

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief

I hereby certify

2-4-81

Plotted by

and checked by

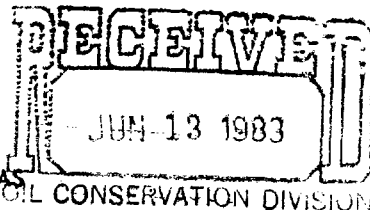
John W. West
Certificate No JOHN W. WEST 676
PATRICK A. ROMERO 6663
Ronald J. Edson 3239

100 500 900 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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FILE	
U.S.O.B.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

Operator
Southern Union Exploration Company of Texas

Address
1217 Main Street, Suite 400, Dallas, Texas 75202

Reason(s) for filing (Check proper box)

New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

Other CASINGHEAD GAS MUST NOT BE
FLARED AFTER 3/1/83
UNLESS AN EXCEPTION TO R-4070
IS OBTAINED.

If change of ownership give name
and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name Susco Bough "C" Unit	Well No. 2	Pool Name, Including Formation Inbe Penn	Kind of Lease State, Federal or Fee	Lease No. V-18
Location Unit Letter <u>E</u> : <u>660</u> Feet From The <u>West</u> Line and <u>1980</u> Feet From The <u>North</u> Line of Section <u>27</u> Township <u>10S</u> Range <u>33E</u> , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Southern Union Refining Company	Address (Give address to which approved copy of this form is to be sent) 1001 N. Turner, P.O. Box 980, Hobbs, NM 88240
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When <u>E</u> <u>27</u> <u>10S</u> <u>33E</u> <u>No</u>

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well <input type="checkbox"/>	New Well <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Res'v. <input type="checkbox"/>	Diff. Res'v. <input type="checkbox"/>
Date Spudded 7/19/81	Date Compl. Ready to Prod. 11/4/81		Total Depth 9681'		P.B.T.D. 9660'			
Elevations (DF, RKB, RT, GR, etc.) 4194.1' GR	Name of Producing Formation Bough "C"		Top Oil/Gas Pay 9617'		Tubing Depth 9640'			
Perforations 9622-9636'					Depth Casing Shoe 9668'			

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17 1/2"	13 3/8"	428'	420 sks Class "C"
12 1/4"	9 5/8"	3975'	1750sks Howcolite
9 7/8"	5 1/2"	9668'	500 sks Class "H"

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks 11/6/81	Date of Test 11/16/81	Producing Method (Flow, pump, gas lift, etc.) Pumping	
Length of Test 24 hrs.	Tubing Pressure 0	Casing Pressure 0	Choke Size Open
Actual Prod. During Test 0.3 bbls	Oil-Bble. 0.3	Water-Bble. 6	Gas-MCF TSTM

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bble. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Pat G. Harrell
Pat G. Harrell

(Signature)

Drilling & Production Engineer

(Title)

January 20, 1983

(Date)

OIL CONSERVATION DIVISION

APPROVED JAN 25 1983, 19BY Edna L. Sear
TITLE OIL & GAS INSPECTOR

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of conditions.

Separate Form C-104 must be filed for each pool in multiple-completed wells.

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501 OIL CONSERVATION

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

DEC 10 1982

JUN 13 1983

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U.S.G.B.	
LAND OFFICE	
TRANSPORTER	OIL
OPERATOR	GAS
PRODUCTION OFFICE	

Operator
Southern Union Exploration Company of Texas

Address
1217 Main Street, Dallas, Texas

Reason(s) for filing (Check proper box)
New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐
Other (Please explain)
Permit to sell 150 bbls of test oil.
(The well is uneconomical & is being evaluated)

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Susco Bough "C" Unit	Well No. 2	Pool Name, including Formation Inbe Penn	Kind of Lease State, Federal or Fee State	Lease No. V-18
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Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Restv.	Diff. Restv.
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
Perforations	Depth Casing Shoe							
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.



Drilling & Production Engineer

December 1, 1982

(Title)

(Date)

OIL CONSERVATION DIVISION

APPROVED DEC 6 1982

BY 

TITLE SUPERVISOR DISTRICT I

This form is to be filed in compliance with RULE 1104.

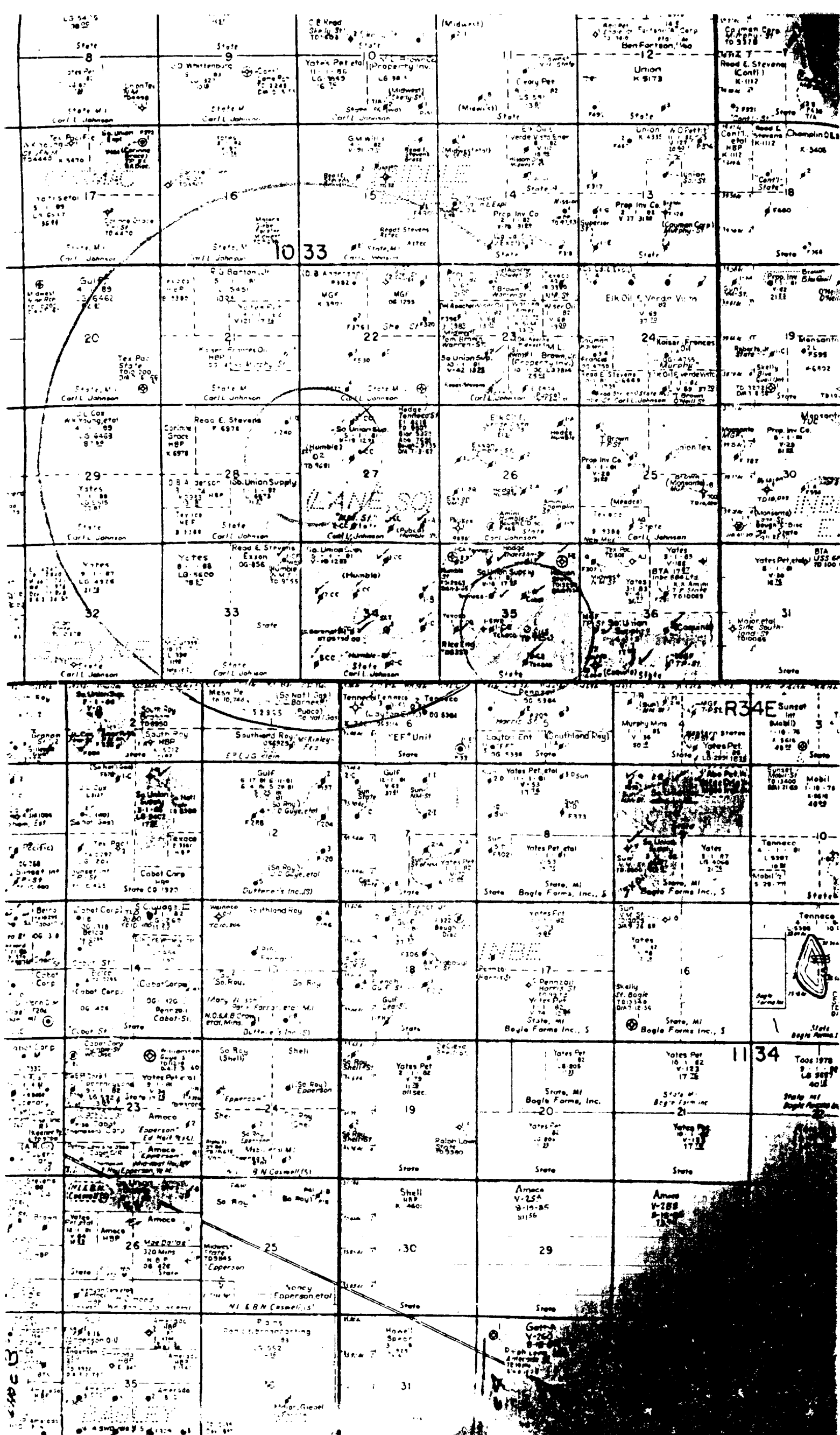
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Separate Form C-104 must be filed for each pool in multiple completed wells.

[illegible]



LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE