

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR H. L. Brown, Jr.		ADDRESS P. O. Box 2237, Midland, Texas 79702	
LEASE NAME Saunders A	WELL NO. 1	FIELD Bluitt (San Andres)	COUNTY Roosevelt
LOCATION UNIT LETTER F ; WELL IS LOCATED 1650 FEET FROM THE west LINE AND 1650 FEET FROM THE north LINE, SECTION 5 TOWNSHIP 8S RANGE 37E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 1/2"	281'	150 sx	surface	Circulated
INTERMEDIATE	4 1/2"	4547'	350 sx	3084'	Calculated
LONG STRING					
TUBING	2 3/8"	4385'±	NAME, MODEL AND DEPTH OF TUBING PACKER Model NA, 4385'		
NAME OF PROPOSED INJECTION FORMATION San Andres			TOP OF FORMATION 4030'		BOTTOM OF FORMATION 4546'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Perforations	PROPOSED INTERVAL(S) OF INJECTION 4030' - 4535'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Commercial gas - dry hole		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 4405' - 4531' - 10 sacks					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 310'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA none		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA ±8000' - Wolfcamp	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 150	MINIMUM 1000	MAXIMUM 1000	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 500
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - yes		WATER TO BE DISPOSED OF Produced water		NATURAL WATER IN DISPOSAL ZONE Produced	ARE WATER ANALYSES ATTACHED? No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Arlon Perkins, Rt. 9 - Box 323, Odessa, Texas 79765					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL H. A. Lacik, P. O. Box 46, Snyder, Texas 79549					
NRM Petroleum Corp., 2600 San Jacinto TWR, Dallas, Texas 75201					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER 9-13-85		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL 9-13-85	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA Yes		ELECTRICAL LOG Yes	
				THE NEW MEXICO STATE ENGINEER 9-13-85	
				DIAGRAMMATIC SKETCH OF WELL Yes	

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

Production Clerk

9-13-85

(Signature)

(Title)

(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT
SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

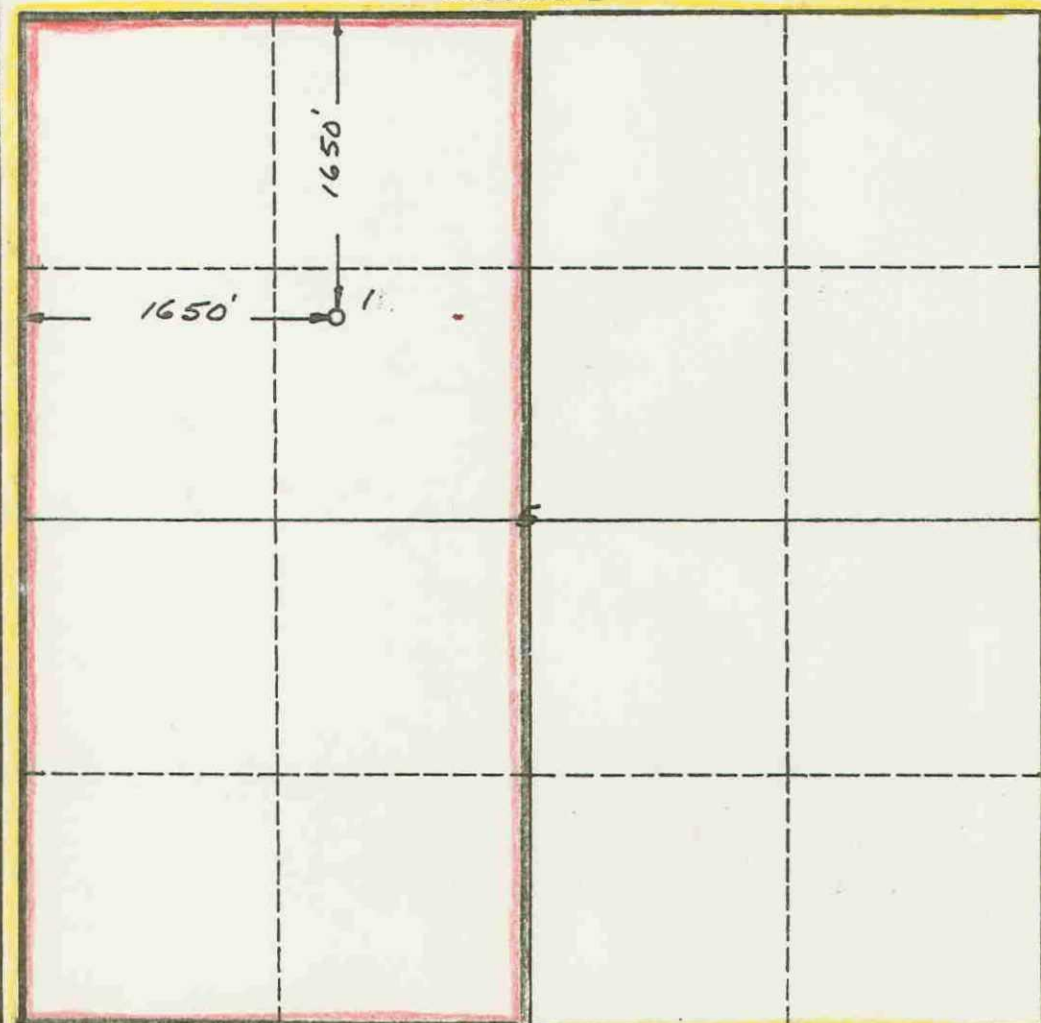
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LAND OFFICE	
TRANSPORTER	OIL GAS
PRODUCTION OFFICE	
OPERATOR	

SECTION A

Operator H. L. Brown, Jr. & Clem E. George		Lease Saunders "A"		Well No. 1
Unit Letter F	Section 5	Township 8-South	Range 37-East	County Roosevelt
Actual Footage Location of Well: 1650 feet from the North line and 1650 feet from the West line				
Ground Level Elev. 4074	Producing Formation San Andres	Pool Bluitt San Andres (Gas)	Dedicated Acreage: 320 Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X . ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO _____. If answer is "yes," Type of Consolidation **Acreage pooled for gas unit allocation.**
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B**CERTIFICATION**

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

Name R. Bersley
 Position Agent
 Company H.L. Brown Jr. & Clem E. George
 Date November 12, 1965

I hereby certify that the well location shown on the plat in SECTION B 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 Nov. 12, 1965
 Registered Professional Engineer and/or Land Surveyor

M. E. Showe
 Certificate No. 2189

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

H. L. BROWN, JR.

300 WEST LOUISIANA

POST OFFICE BOX 2237

MIDLAND, TEXAS 79702

915 683-5216

September 12, 1985

To: All Offset Operators
Bluitt Field
Roosevelt County, New Mexico

Notice is hereby given to all offset operators that H. L. Brown, Jr. has filed with the New Mexico Oil Conservation Division an Application to Dispose of Salt Water by injection into a porous formation productive of oil or gas.

Attached is a copy of N.M.O.C.C. Form C-108. If you have no objections to the subject Application, please sign and return one copy of the waiver to us as soon as possible.

Sincerely yours,

Jean Mills
Production Clerk

Approved _____

Company _____

Date _____

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised (12/1/55)

Santa Fe, New Mexico

ANNOUNCED

NOTICE OF INTENTION TO DRILL 54 AM '65

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in **QUINTUPLICATE**. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission. If State Land submit 6 Copies Attach Form C-128 in triplicate to first 3 copies of form C-101

Midland, Texas

November 12, 1965

(Place)

(Date)

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Gentlemen:

You are hereby notified that it is our intention to commence the Drilling of a well to be known as
H. L. Brown, Jr. & Clem E. George

(Company or Operator)

Saunders "A"

(Lease)

Well No. **1**, in **Unit F** The well islocated **1650** feet from the **West** line and **1650** feet from the**North**line of Section **5**, T. **8-S**, R. **37-E**, NMPM.(GIVE LOCATION FROM SECTION LINE) **Bluitt San Andres Gas** Pool, **Roosevelt** County

If State Land the Oil and Gas Lease is No.

If patented land the owner is **C. J. Saunders, et al**Address **717 Alexander Drive, Dallas, Texas**We propose to drill well with drilling equipment as follows: **Rotary from surface to total depth**The status of plugging bond is **Blanket bond**Drilling Contractor **Verna Drilling Company,**
Levelland, TexasWe intend to complete this well in the **San Andres** formation at an approximate depth of **4600** feet.

CASING PROGRAM

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
12-1/4"	6-5/8"	24 & 20#	Both	300	150 sacks
7-7/8"	4-1/2"	9.5 & 10.5#	Second Hand	4600	200 sacks

If changes in the above plans become advisable we will notify you immediately.

ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work)

CEMENT MUST BE CIRCULATED BEHIND

878

CASING.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES

Feb 14-66

Approved
Except as follows:

NOV 15 1965

RECEIVED

NOV 17 1965

OIL CONSERVATION COMMISSION

H. L. BROWN, JR.

MIDLAND, TEXAS

By

Sincerely yours,

H. L. Brown, Jr. & Clem E. George

(Company or Operator)

By

Agent

Position

Send Communications regarding well to

Name

R. Busby

Address

606 N. Colorado, Midland, Texas

NO. OF COPIES RECEIVED	
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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

RECEIVED

NEW MEXICO OIL CONSERVATION COMMISSION

JUN 19 1968

H. L. BROWN, JR.

MIDLAND, TEXAS

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.	
7. Unit Agreement Name	
Saunders "A"	
8. Farm or Lease Name	
1	
9. Well No.	
Bluff San Andres	
10. Field and Pool, or Wildcat	
12. County	
Roosevelt	

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 - 1" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL ☐ WELL ☐ GAS ☐ WELL ☐ OTHER ☐
2. Name of Operator H. L. Brown, Jr.
3. Address of Operator 704 Vaughn Building, Midland, Texas
4. Location of Well F 1550 West 1650
UNIT LETTER North 5 FEET FROM THE 8-S LINE AND 37-E FEET FROM THE LINE, SECTION TOWNSHIP RANGE NMPM.
15. Elevation 4050' on (whether DF, RT, GR, etc.)

16.

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

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

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

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.

This well was plugged and abandoned on February 5, 1968 as follows:

10 sacks cement at 4400'

Shot off 4-1/2" casing at 2196' and set 25 sacks cement at 2196'

25 sacks cement at 331'

10 sacks cement at the surface

Hole filled with 8.9# mix.

Erected steel marker.

Notification will be given when well site has been cleared and conditioned looking to final inspection and approval of abandonment.

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

SIGNED <u>R. Busby</u>	TITLE <u>Agent</u>	DATE <u>February 12, 1968</u>
APPROVED BY <u>John W. Runyan</u>	TITLE <u></u>	DATE <u></u>
CONDITIONS OF APPROVAL, IF ANY:		

[illegible]

9-12-85

H. L. BROWN, JR.
300 WEST LOUISIANA
POST OFFICE BOX 2237
MIDLAND, TEXAS 79702
915 683-5216

September 12, 1985

Portales News Tribune
P. O. Box 101
Portales, New Mexico 88130

Attention: Deborah Burrow, Classified Section

Please place the attached notice in the Public Notice section to run a total of one day only.

Send to my attention two copies of the notice as it appears in your newspaper, with an Affidavit of Publication signed by the publisher stating that notice of the application has been published in a newspaper of general circulation in the County in which the well is located (copy of affidavit is attached).

Billing should be made to H. L. Brown, Jr., P. O. Box 2237, Midland, Texas, 79702.

Yours truly,



Jean Mills
Production Clerk

JM/ed

Encs.

NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT

H. L. Brown, Jr. is making application to the New Mexico Oil Conservation Commission for a permit to inject fluid into a formation which is productive of oil and gas.

The Applicant proposes to inject fluid into its Saunders A Well No. 1. The proposed well was a dry hole located in Section 5, T8S, R37E. It originally tested the Bluit San Andres Gas Pool, Roosevelt County, New Mexico, at non-commercial rates. Fluid will be injected into strata in the subsurface depth interval from 4030'-4535'.

Legal Authority: Rule 701 of the State of New Mexico, Energy and Minerals Department and the Statewide Rule 701 of the Oil Conservation Division.

Requests for a Public Hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the Application should be submitted in writing within 15 days of this publication to the State of New Mexico, Oil Conservation Division, P. O. Box 1980, Hobbs, New Mexico, 88240.

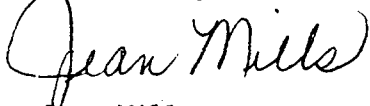
H. L. BROWN, JR.
300 WEST LOUISIANA
POST OFFICE BOX 2237
MIDLAND, TEXAS 79702
915 683-5216

September 13, 1985

State of New Mexico
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Copies of the NMOCC Form C-108 for the Saunders A Well No. 1,
Roosevelt County, New Mexico, and related correspondence was
mailed to the offset operators, the working interest owners,
and to the land owner on September 13, 1985.

Yours truly,

A handwritten signature in cursive script that reads "Jean Mills". The signature is written in dark ink and is positioned above the printed name and title.

Jean Mills
Production Clerk

JM/ed

State of New Mexico

County of _____

Before me, the undersigned authority, personally
appeared _____, the _____
(name) (title)
of the _____,
(name of newspaper)

a newspaper having general circulation in Roosevelt
County, New Mexico, who being duly sworn, deposes and
says that the foregoing notice was published in said
newspaper on the following date(s), to wit: _____
_____.

Subscribed and sworn to before me on the _____
day of _____, 1985, to certify which witness
my hand and seal of office.

Notary Public in and for

County, New Mexico

H.L. Brown, Jr.

BLUETT (SAN ANDRES ASSOC.)

WELL NAME SAUNDERS 'A' #

COMPANY REP Glen George		CASING	SIZE 8 5/8"	WEIGHT 20.24#	GRADE J-55	THREAD ST-C	TYPE COMPLETION FLUID IN CASING				
COUNTY ROOSEVELT	STATE N.M.	LINER	SIZE 4 1/2"	WEIGHT 10.50#	GRADE -	THREAD -	TUBING WT. ON	LOWER	MIDDLE	UPPER	
		TUBING	UPPER	SIZE NONE	WEIGHT	GRADE	THREAD	TYPE LATCH	LOWER	MIDDLE	UPPER
		MIDDLE	SIZE	WEIGHT	GRADE	THREAD	OPERATOR'S NAME H.L. Brown, Jr.			MSO	
		LOWER	SIZE	WEIGHT	GRADE	THREAD	OFFICE MIDLAND, TX			DATE 11-19-68	

ITEM	DEPTH	LENGTH	JTS	DESCRIPTION
				Loc: 1650' FN: WL's, Sec. 5, T-8.
				R-37-E, ROOSEVELT COUNTY, N.M.
				SPUD: 1600 HRS, 11-16-65
				COMPL: 5-11-66, 574 MCFD on 1hr
				PLUGGED: 2-4-67
1	281		10	8 5/8" 20.24# CSG, CMT'D w/ 75% INCOR + 4% GEL FOLLOWED BY 75% RE + 2% CaCl ₂ . PD 10:30pm 11-16-65, CIRC
2	4547		142	4 1/2" 10.50# J-55, ST-C, 3rd CSG, CMT'D w/ 350 SX INCOR 50-50 P ₀ + 2% GEL + 8#/SX SALT, BUMPED PLUG w. 1700psi (11-27-65)
				T/CMT BEHIND CSG: 3084' (CALC.)
				PERFORATIONS: 4405'-13', -15', -29', -59', -65', -69', -73', -85', 4527', -29' AND -3
				INITIAL STIM. SPOTTED ACID 4546'-10', BD @ 1400psi, ACIDIZED BELOW PSA 4488' w/ TOTAL of 2000gal 15% A
				ARO 1 1/2 BPM, ISDP = 1000#, 10" SIP (OVERNIGHT SITP = 700psi, SFL 2000' -
				SWE'D DOWN REC. ALL LOAD. SWE S-209 + 80-90% SW, RE/A w/ 5000gal REACTOR
				4.4 BPM @ 2000psi AVG. PRESS. FLOWED: SWI GOT BACK HVY OIL: WTR EMULSION. SWE
				CLEANED UP & FLOWED ARO 100 MCFD
				RE/A w/ 3000gal DS 30 ACID + 200 SEALERS ARO 4.4 BPM - BALLOD OUT A
				PRESS. 2000psi, ISDP 2100, 10" SIP = 1000
				FRAC/20000gal GELLED 22% + 1/4 #/gal 20/40 SN, ARO 358 BPM ISDP 1000#, 10" SIP
				SWEPT: FLOWED. FLOWED BACK - WELL
				TESTED 373 MCFD on 1SD & FTP

TD: 4547'
PSTD: 4546' (orig.)
ELEV: 4085' RKB
4084' DF
4074' G

H.L. Brown, Jr. - SAUNDERS 'A' #1 - Sec 5, T-8-S, R-37-E, Roosevelt Co., N.M.

INITIAL HOOKUP: CAPITAN, 8-3-66.

WORKOVER: (1-29-67) - PULLED PKR LOOSE, FOUND FILL
OVER 23' PERFS. 100 JTS TGA PLUGGED w/ SALT.
WASHED OUT SALT - COULD NOT RETURN WELL TO
PRODUCTION.

PXA: PTG

SET 10SX PLUG @ 4400'

SHOT OFF 4 1/2" @ 2196'

SET 25SX PLUG @ 2196'

" 25SX " @ 331'

" 10SX " @ SURFACE

ERECTED DRY HOLE MARKER - CLEANED UP LOC.

ORIGINAL 4-POINT TEST: 5/10/66

SIBHP = 1297 psig @ MPP

ADF = 820 MCFD.

LOGS AVAIL: SCHLUMBERGER, 11-26-65, Comp. FDC/GR/CAL
(4546'-SURF), WESTERN WIRELINE GR/CCL
LOG (4543'-4200') DATED 12-1-65.

Case 8743

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: H. L. Brown, Jr.

Address: P. O. Box 2237, Midland, Texas 79702

Contact party: Jean Mills Phone: 915/683-5216

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. Attached

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. 1985

IX. Describe the proposed stimulation program, if any. Attached

X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) Log filed previously: _____

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. Attached.

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. Attached.

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: Jean Mills

Title: Production Clerk

Signature: Jean Mills Date: October 3, 1985

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include: Included

- (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. Included

- (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. None

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. Attached

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: Attached

- (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.

NRM PETROLEUM CORPORATION



26th Floor,
San Jacinto Tower
2121 San Jacinto Street
Dallas, Texas 75201
(214) 880-0243

September 26, 1985

Ms. Jean Mills
H. L. Brown, Jr.
P.O. Box 2237
Midland, Texas 79702

Re: Application to Inject Salt Water
H. L. Brown - Saunders "A" # 1
Bluitt (San Andres) Field
Roosevelt Co., N. M.

Dear Mr. Mills:

I am returning the referenced application unexecuted
as we no longer have a lease on the offsetting property.

Yours very truly,


Herbert J. Bell, Jr., P.E.

HJBjr:jn
enclosure

001 1 1985

Land _____ Eng. _____
Geol. _____ Acctg. _____

OIL AND GAS
EXPLORATION

Midland, Texas
(915) 684-7871

Newport News, Va.
(804) 595-7401

Buckhannon, W. Va.
(304) 472-9113

Lafayette, La.
(318) 237-5849

Waterford, Pa.
(814) 796-6702

SAUNDERS A-1 INJECTION ZONE (4040'-4535')

Lithology: Tn-Gy dolomite, microcrystalline, interbedded with thin layers of anhydrite.

Geological Name: San Andres. Top: 3720'. TD (4547')

Thickness and Depth: 4030' - 4535' (505') Injection zone.

No known underground sources of drinking water in this area.

AFFIDAVIT

STATE OF TEXAS

COUNTY OF MIDLAND

Before me, the undersigned authority, personally appeared
Les Skinner, the Operations Manager
of H. L. Brown, Jr., independent oil operator, who, being
duly sworn, deposes and says that in regard to the applica-
tion to inject disposal fluids into the Saunders A Well No.
1, Section 5, T8S, R-37E, Roosevelt County, New Mexico,
available geologic and engineering data have been examined,
and no evidence was found of open faults or any other hydro-
logic connection between the disposal zone and any under-
ground source of drinking water.

Subscribed and sworn to before me on the 7th day of
October, 1985, to certify which witness my hand and
seal of office.

Erind W. Davis
Notary Public in and for
Midland
County, Texas

Commission expires 3-24-89

INJECTION WELL DATA SHEET -- SIDE 2

Tubing size 2 3/8" 4.7# lined with internally plastic coated TK 5 set in a
4 1/2" x 2 3/8" inj. packer, internally plastic coated Baker/ Model AD-1 (material) packer at 3950± feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres
2. Name of field or Pool (if applicable) Pitt (San Andres) Pool
3. Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Gas well - dry hole

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail. (sacks of cement or bridge plug(s) used) No. Please see NMOC.

Form C-103

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None

INJECTION WELL DATA SHEET

SIDE 1

H. L. Brown, Jr.

Saunders A

OPERATOR

LEASE

1

1650' N & 1650' W

5

8S

37E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SchematicTabular DataSurface Casing

Size 8 5/8"

"

Cemented with

150

sx.

TOC

Surface

Feet determined by circulation

Hole size 11"

Intermediate Casing

Size 4 1/2"

"

Cemented with

825

sx.

TOC 3084'

Feet determined by calculations

Hole size 7 7/8"

Log string

Size

"

Cemented with

sx.

TOC

Feet determined by

Hole size

Total depth

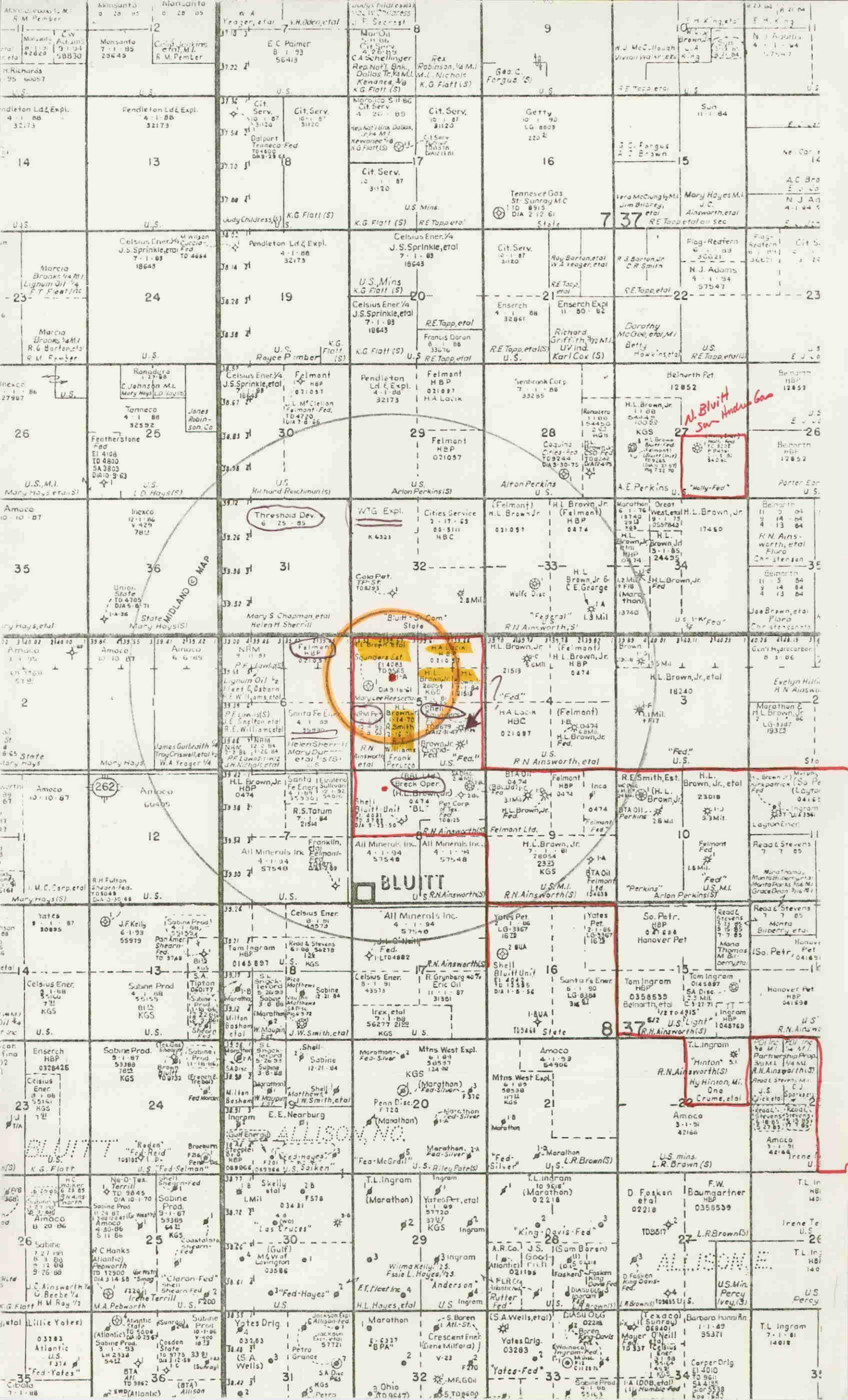
Injection Interval

4030'

Feet to 4535'

Feet

(performed on open-hole, indicate which)



Affidavit of Publication

LEGAL NOTICE NOTICE OF APPLICATION FOR FLUID INJECTION WELL PER- MIT

H.L. Brown, Jr. is making applica-
tion to the New Mexico Oil Conserva-
tion Commission for a permit to in-
ject fluid into a formation which is
productive of oil and gas.

The Applicant proposes to inject
fluid into its Saunders A Well No. 1.
The proposed well was a dry hole
located in Section 5, T8S, R37E. It
originally tested the Bluff San An-
dres Gas Pool, Roosevelt County,
New Mexico, at non-commercial
rates. Fluid will be injected into
strata in the subsurface depth inter-
val from 4030' - 4535'.

Legal Authority: Rule 701 of the
State of New Mexico, Energy and
Minerals Department and the
Statewide Rule 701 of the Oil Conser-
vation Division.

Requests for a Public Hearing
from persons who can show they are
adversely affected, or requests for
further information concerning any
aspect of the Application should be
submitted in writing within 15 days
of this publication to the State of
New Mexico, Oil Conservation Divi-
sion, P.O. Box 1980, Hobbs, New
Mexico, 88240.

Published in Portales News-
Tribune September 17, 1985 Legal
#9119.

I, Marshall Stinnett
Business Manager of

THE PORTALES NEWS-TRIBUNE

a newspaper of general paid circulation and entered under
second class postal privilege in Roosevelt County, published
daily, (except Saturday) at Portales, New Mexico, for the fifty-
two (52) consecutive weeks preceding this date, do solemnly
swear that a copy of the above notice, as per clipping attached,
was published weekly in the regular and entire issue of said

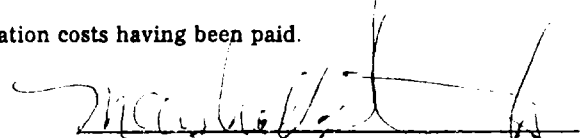
newspaper, and not in any supplement thereof for 1

consecutive weeks commencing with the issue dated _____

September 17 19 85

and ending with the issue dated September 17 19 85

All publication costs having been paid.



Subscribed and sworn to before me this 17th day of September 19 85

Lo Mori, Barnett
Notary Public

My commission expires 2-1-87 19 87

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR H. L. Brown, Jr.		ADDRESS P. O. Box 2237, Midland, Texas 79702	
LEASE NAME Saunders A	WELL NO. 1	FIELD Bluitt (San Andres)	COUNTY Roosevelt
LOCATION UNIT LETTER F ; WELL IS LOCATED 1650 FEET FROM THE west LINE AND 1650 FEET FROM THE north LINE, SECTION 5 TOWNSHIP 8S RANGE 37E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 1/2"	281'	150 sx	surface	Circulated
INTERMEDIATE	4 1/2"	4547'	350 sx	3084'	Calculated
LONG STRING					
TUBING	2 3/8"	4385'±	NAME, MODEL AND DEPTH OF TUBING PACKER Model NA, 4385'		
NAME OF PROPOSED INJECTION FORMATION San Andres			TOP OF FORMATION 4030'		BOTTOM OF FORMATION 4546'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Perforations		PROPOSED INTERVAL(S) OF INJECTION 4030' - 4535'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Commercial gas - dry hole				HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? yes
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 4405' - 4531' -- 10 sacks					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 310'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA none		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA ±8000' - Wolfcamp	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 150	MINIMUM 1000	MAXIMUM 1000	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 500
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - yes			WATER TO BE DISPOSED OF Produced water		
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Arlon Perkins, Rt. 9 - Box 323, Odessa, Texas 79765			NATURAL WATER IN DISPOSAL ZONE Produced		
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL H. A. Lacik, P. O. Box 46, Snyder, Texas 79549			ARE WATER ANALYSES ATTACHED? No		
NRM Petroleum Corp., 2600 San Jacinto TWR, Dallas, Texas 75201 - No interest					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? 9-13-85		SURFACE OWNER 9-13-85		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL 9-13-85	
THE NEW MEXICO STATE ENGINEER 9-13-85		ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes		PLAT OF AREA Yes	
		ELECTRICAL LOG Yes		DIAGRAMMATIC SKETCH OF WELL Yes	

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

(Signature)

Production Clerk

(Title)

9-13-85

(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

H. L. BROWN, JR.
300 WEST LOUISIANA
POST OFFICE BOX 2237
MIDLAND, TEXAS 79702
915 683-5216
September 12, 1985

To: All Offset Operators
Bluitt Field
Roosevelt County, New Mexico

Notice is hereby given to all offset operators that H. L. Brown, Jr. has filed with the New Mexico Oil Conservation Division an Application to Dispose of Salt Water by injection into a porous formation productive of oil or gas.

Attached is a copy of N.M.O.C.C. Form C-108. If you have no objections to the subject Application, please sign and return one copy of the waiver to us as soon as possible.

Sincerely yours,

Jean Mills
Production Clerk

Approved _____

Company _____

Date _____

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U.S.G.S.	
LAND OFFICE	
OPERATOR	

RECEIVED

NEW MEXICO OIL CONSERVATION COMMISSION

JUN 19 1968

H. L. BROWN, JR.
MIDLAND, TEXAS

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.

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 ☐ H. L. Brown, Jr.	7. Unit Agreement Name Saunders "A"
2. Name of Operator	8. Farm or Lease Name 1
3. Address of Operator 704 Vaughn Building, Midland, Texas	9. Well No. 1
4. Location of Well F 1550 West 1550	10. Field and Pool, or Wildcat Elvitt San Andres
UNIT LETTER North 5 FEET FROM THE 8-9 LINE AND 37-2 FEET FROM	
THE LINE, SECTION TOWNSHIP RANGE NMPM.	
15. Elevation 4050' (whether DF, RT, GR, etc.)	12. County Rockwall

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 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.

This well was plugged and abandoned on February 5, 1968 as follows:

10 sacks cement at 1400'

Shot off 4-1/2" casing at 2196' and set 25 sacks cement at 2196'

25 sacks cement at 331'

10 sacks cement at the surface

Hole filled with 8.9# mud.

Erected steel marker.

Notification will be given when well site has been cleared and conditioned looking to final inspection and approval of abandonment.

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

SIGNED **R. Busby** TITLE **Agent** DATE **February 12, 1968**

APPROVED BY **John W. Runyan** TITLE DATE
CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

AMENDED

Form C-101
Revised (12/1/55)

NOTICE OF INTENTION TO DRILL 54 AM '65

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in **QUINTUPPLICATE**. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission. If State Land submit 6 Copies Attach Form C-128 in triplicate to first 3 copies of form C-101

Midland, Texas

November 12, 1965

(Place)

(Date)

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Gentlemen:

You are hereby notified that it is our intention to commence the Drilling of a well to be known as
H. L. Brown, Jr. & Clem E. George

(Company or Operator)

Saunders "A"

(Lease)

Well No. **1**

in **Unit F**

The well is

located **1650** feet from the **West** line and **1650** feet from the

North

line of Section **5**, T. **8-S**, R. **37-E**, NMPM.

(GIVE LOCATION FROM SECTION LINE) **Bluitt San Andres Gas** Pool, **Roosevelt** County

If State Land the Oil and Gas Lease is No.

If patented land the owner is **C. J. Saunders, et al**

Address **717 Alexander Drive, Dallas, Texas**

We propose to drill well with drilling equipment as follows: **Rotary from surface to total depth**

The status of plugging bond is **Blanket bond**

Drilling Contractor **Verna Drilling Company, Levelland, Texas**

We intend to complete this well in the **San Andres** formation at an approximate depth of **4600** feet.

CASING PROGRAM

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
12-1/4"	6-5/8"	24 & 20#	Both	300	150 sacks
7-7/8"	4-1/2"	9.5 & 10.5#	Second Hand	4600	200 sacks

If changes in the above plans become advisable we will notify you immediately.

ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work)

CEMENT MUST BE CIRCULATED BEHIND

878

CASING.

APPROVAL VALID FOR 90 DAYS UNLESS DRILLING COMMENCED,
Feb 14-66
EXPIRES

NOV 15 1965

Approved
except as follows:

RECEIVED

NOV 17 1965

OIL CONSERVATION COMMISSION
H. L. BROWN, JR.
MIDLAND, TEXAS

Sincerely yours,

H. L. Brown, Jr. & Clem E. George

(Company or Operator)

By **R. Busby**

Agent

Position

Send Communications regarding well to

Name **R. Busby**

Address **606 N. Colorado, Midland, Texas**

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT
 SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

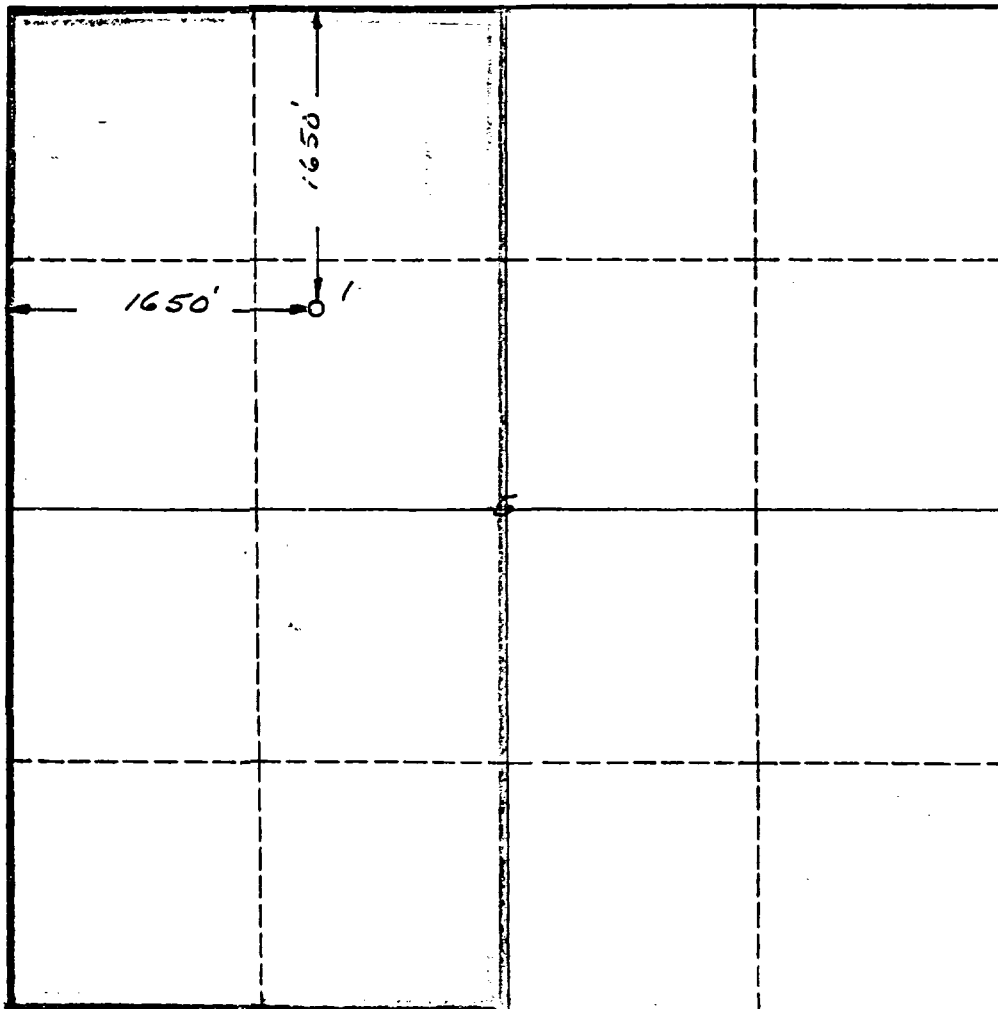
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TRANSPORTER	OIL
	GAS
PRODUCTION OFFICE	
OPERATOR	

SECTION A

Operator H. L. Brown, Jr. & Clem E. George		Lease Saunders "A"		Well No. 1
Unit Letter F	Section 5	Township 8-South	Range 37-East	County Roosevelt
Actual Footage Location of Well: 1650 feet from the North line and 1650 feet from the West line				
Ground Level Elev. 4074	Producing Formation San Andres	Pool Bluitt San Andres (Gas)	Dedicated Acreage: 320 Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X. ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO _____. If answer is "yes," Type of Consolidation Acreage pooled for gas unit allocation.
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B**CERTIFICATION**

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

Name R. Bersky
 Position Agent
 Company H.L. Brown Jr. & Clem E. George
 Date November 12, 1965

I hereby certify that the well location shown on the plat in SECTION B 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 Nov. 12, 1965
 Registered Professional Engineer and/or Land Surveyor
M. E. Shover
 Certificate No. 2189

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

[illegible]

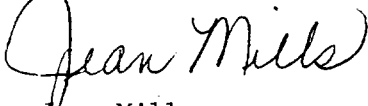
H. L. BROWN, JR.
300 WEST LOUISIANA
POST OFFICE BOX 2237
MIDLAND, TEXAS 79702
915 683-5216

September 13, 1985

State of New Mexico
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Copies of the NMOCC Form C-108 for the Saunders A Well No. 1,
Roosevelt County, New Mexico, and related correspondence was
mailed to the offset operators, the working interest owners,
and to the land owner on September 13, 1985.

Yours truly,

A handwritten signature in cursive script that reads "Jean Mills". The signature is written in dark ink and is positioned above the printed name and title.

Jean Mills
Production Clerk

JM/ed

WRITE IT - DON'T SAY IT

To FIELD FOREMAN
From LES SKINNER

Date 4-24-85
Answer
Expected No

PROSPECT - LEASE - WELL

BLUETT FACILITY (441) - BLUETT SWD #1 - ROOSEVELT CO., NM

PURPOSE: To RE-ENTER THE OLD SAUNDERS "A" #1 WELL, CONVERT AND EQUIP FOR SWD SERVICE.

COMMENCEMENT: UPON WIO APPROVAL

PROCEDURE (SEE ATTACHED WELLBORE SKETCH):

1. LOCATE "DRY HOLE" MARKER, MOVE-IN DIRT CONTRACTOR AND PREPARE ROAD: LOCATION FOR RIG, RE-SET ANCHORS AND DIG SMALL PIT.
2. WITH BACKHOE, DIG OUT CELLAR AND EXPOSE $8\frac{5}{8}$ " CASING STUB. CUT OFF C/P AND WELD ON $8\frac{5}{8}$ " COMBINATION COLLAR (SIT CONNECTIONS ON TOP, SLICK SLIP-OVER ON BOTTOM). INSTALL 3-4' X $8\frac{5}{8}$ " NEPPLE THEN WELD-ON $8\frac{5}{8}$ " LARKIN SLIP-ON HEAD (SCREWED).
3. MIREU CONNECTION UNIT X INSTALL 2000 psi MANUAL BOP ON TOP OF $8\frac{5}{8}$ " HEAD. RU REVERSE CIRCULATING PUMP AND POWER SWIVEL.
4. PU $7\frac{7}{8}$ " MILL TOOTH BIT BORED FOR REVERSE CIRCULATING AND RUN ON $4\frac{1}{4}$ " COLLAR. DRILL OUT SURFACE PLUG PICKING UP A TOTAL OF 4 ea. $4\frac{1}{4}$ " COLLARS AND 4 ea. $3\frac{1}{8}$ " COLLARS AND RUNNING IN HOLE TO DRILL OUT PLUGS #3 AND #2. DRILL OUT USING FRESH WATER TO TOP OF $4\frac{1}{2}$ " CASING STUB AT 2196' (RKB) AND CIRC CLEAN (USE JU STRIPPER).
5. TOOH X STAND BACK $2\frac{3}{8}$ " TUBING WORKSTRING AND $3\frac{1}{8}$ " DC's. LAY DOWN $4\frac{1}{4}$ " DC's. PU $7\frac{7}{8}$ " X $4\frac{1}{2}$ " DRESSING TOOL X TIH ON $3\frac{1}{8}$ " DC's AND $2\frac{3}{8}$ " TUBING. DRESS OFF TOP OF $4\frac{1}{2}$ " CASING STUB AT 2196' TOOH X LD DRESSING TOOL.
6. PU $4\frac{1}{2}$ " BOWEN CASING PATCH w/ LEAD SEAL PACKOFF + $4\frac{1}{2}$ " REGULAR DV TOOL AND TIH ON STRING OF $4\frac{1}{2}$ " 10.50#, JORK-SS,

WRITE IT - DON'T SAY IT

To FIELD FOREMAN
From LES SKINNER

Date 4-24-85
Answer
Expected No

PROSPECT - LEASE - WELL

BLUETT SWD #1

PROCEDURE (CONT'D):

STIC, 8ft CASING. LATCH ONTO 4 1/2" STUB, CHECK SEAL, THEN PUMP BULLET DOWN TO OPEN DV TOOL. CIRC TO CLEAN UP.

7. CEMENT 4 1/2" CASING THROUGH DV TOOL WITH 4755x C.C. + 2% CaCl₂. DISPLACE TOP RUBBER PLUG TO DV TOOL ABOVE CASING BOWL. BUMP PLUG TO CLOSE DV TOOL, THEN PRESSURE CHECK DV TOOL TO SEE THAT IT IS CLOSED. STION FOR CEMENT TO HARDEN.

8. PULL 10,000 # ON 4 1/2" CASING AND SET SLIPS IN 3 5/8" HEAD. CUT OFF 4 1/2" CASING, NO BOP, INSTALL SEAL IN 3 5/8" HEAD, WELD ON 4 1/2" BELL NIPPLE, THEN NU BOP ON 4 1/2" CSG.

9. RU 3 7/8" MILL TOOTH BIT BORED FOR REVERSE CIRCULATION, PLUS 4 ADDITIONAL 3/8" DC'S (8 TOTAL) AND TIH ON 2 3/8" TBG. DO RUBBER PLUG AND CEMENT ABOVE CASING PATCH, THEN DRILL OUT AND RUN TUBING THRU JU STRIPPER TO 4546' ±.
DO NOT DRILL OUT OLD 4 1/2" SHOE. CIRC HOLE CLEAN.

10. WITH BIT ON BOTTOM, SPOT 500 gal 7 1/2% DOUBLE-INHIBITED HCl NE-FE ACID, THEN TOOH x LD 2 3/8" WORKSTRING, 3/8" COLLARS AND BIT.

11. RU WIRELINE UNIT AND PERFORATE 4 1/2" CASING WITH 3/8" CASING GUN USING LARGEST CHARGES AVAILABLE WITH 2 JSF IN THE FOLLOWING INTERVALS: 4030'-35' (11 SHOTS), 4130'-32' (5 SHOTS), 4137'-42' (11 SHOTS), 4144'-47' (7 SHOTS), 4149' (2 SHOTS), 4159'-63' (9 SHOTS), 4204' (2 SHOTS), 4331'-34' (7 SHOTS), 4400'-19' (39 SHOTS), 4425'-30' (11 SHOTS), 4454'-61' (15 SHOTS), 4464'-75' (23 SHOTS)

WRITE IT - DON'T SAY IT

To FIELD FOREMAN
From LES SKINNER

Date 4-24-95
Answer Expected No

PROSPECT - LEASE - WELL BLUITT SWD #1

PROCEDURE (CONT'D):

- 4483'-89' (13 SHOTS) AND 4525'-35' (21 SHOTS) - TOTAL 176 SHOTS.
(LINE UP OFF OF WESTERN WIRELINE GR/CCL LOG DATED 12-1-65).
12. PICK UP INJECTION PACKER AND 2^{3/8}" INJECTION TUBING. TIH AND SET PACKER NEAR 3950' (LAND SO TUBING COLLAR IS NEAR TOP OF 4^{1/2}" CASING AT SURFACE - CASING COLLARS ARE AT 4368' AND 4402'). ND BOP, INSTALL SCREW-ON LARKIN HEAD AND SET SLIPS WITH TUBING AT NEUTRAL POSITION (NO TENSION ABOVE WEIGHT OF TUBING STRING). PRESSURE UP TO 500psi ONLY ON BACKSIDE (4^{1/2}" X 2^{3/8}" ANNULUS) TO SEE THAT PACKER IS HOLDING, MONITOR BACKSIDE PRESSURE (DO NOT RELEASE).
13. ACIDIZE WELL DOWN TUBING WITH 4100 gal 15% NE-FE ACID (EXCLUDING SPOTTED ACID) AT MAXIMUM RATE DOWN 2^{3/8}" TUBING (PROBABLY 8-9 BPM) DROPPING 2 BALL SEALERS PER BARREL OF ACID. FLUSH WITH FRESH WATER TO TOP PERFORATION ONLY. SI 2 hrs FOR ACID TO SPEND. RELEASE BACKSIDE.
14. SWAB WELL TO CLEAN UP ACID RESIDUE - WHEN WATER GETS CLEAR, INSTALL INJECTION VALVE (FULL-OPENING 2^{3/8}" PLUS 2^{3/8}" "T" WITH TOP CAPPED WITH TAPPED PLUG (FOR 1/4" VALVE AND PRESSURE GAUGE). INSTALL 2" 1000psi BALL VALVE ON SIDE-OPENING OF "T" AND CHECK VALVE, THEN CONNECT FLOWLINE.

WRITE IT - DON'T SAY IT

To FIELD FOREMAN
From LES SKINNER

Date 4-24-85
Answer
Expected No

PROSPECT - LEASE - WELL

BELZIT SWD #1

PROCEDURE (CONT'D):

15. Hook up to FLOWLINE WITH PUMP TRUCK AND PUMP DOWN TUBING WITH LEASE PRODUCED WATER AT VARIOUS RATES TO OBTAIN INJECTIVITY RATE AND PRESSURE ON WELL.
16. AFTER PUMPING, RIG UP WIRELINE UNIT AND OBTAIN TEMPERATURE SURVEY TO INSURE THAT WATER IS BEING INJECTED INTO PERFORATED INTERVAL (i.e., NOT CHANNELING OUT OF ZONE).
17. IF ANYTHING OCCURS DURING THE JOB WHICH WOULD PREVENT THE NORMAL, STEPWISE COMPLETION OF THIS WORK, SHUT DOWN, CALL THE MIDLAND OFFICE AND DISCUSS WITH THE ENGINEERS. DO NOT CONTINUE WITHOUT SPECIFIC INSTRUCTIONS.

COMPANY H.L. Brown, Jr.		FIELD BLUETT (SAN ANDRES ASSOC.)				WELL NAME SAUNDERS 'A' #1							
COMPANY REP Carm George		CASING	SIZE 8 7/8"	WEIGHT 20.241	GRADE J-55	THREAD ST-C	TYPE COMPLETION FLUID IN CASING						
COUNTY ROOSEVELT	STATE N.M.	LINER	SIZE 4 1/2"	WEIGHT 10.504	GRADE -	THREAD -	TUBING WT. ON	LOWER	MIDDLE	UPPER			
		TUBING	UPPER	SIZE None	WEIGHT	GRADE	THREAD	TYPE LATCH	LOWER	MIDDLE	UPPER		
			MIDDLE	SIZE	WEIGHT	GRADE	THREAD					OPERATOR'S NAME H.L. Brown, Jr.	MSO
			LOWER	SIZE	WEIGHT	GRADE	THREAD						
ITEM	DEPTH	LENGTH	JTS	DESCRIPTION									
				Loc: 1650' FN: WL's, SEC. 5, T-9-S									
				R-37-E, ROOSEVELT COUNTY, N.M.									
				SPUD: 1600 HRS, 11-16-65									
				COMPL: 5-11-66, 574 MCFD on 1 hr rec									
				PLUGGED: 2-4-67									
1	281		10	8 5/8" 20:24# CSG, CMT'D w/ 75sx									
				INCOB + 4% GEL FOLLOWED BY 75SX REGG									
				+ 2% CaCl2. PD 10:30pm 11-16-65, circ.									
2	4547		142	4 1/2" 10.50# J-55, ST-C 3rd CSG,									
				CMT'D w/ 350sx INCOB 50-50 Pzr									
				+ 2% GEL + 8#/sx SALT, BUMPED PLUG w/									
				1700psi (11-27-65)									
				T/CMT BEHIND CSG: 3084' (CALC.)									
				PERFORATIONS: 4405', -13', -15', -29', -59',									
				-65', -69', -73', -85', 4527', -29' AND -31'									
				INITIAL STIM. SPOTTED ACID 4546'-10'									
				PD @ 1400psi, ACIDIZED BELOW PSA									
				4488' w/ TOTAL of 2000gal 15% ACID									
				ARO 1 1/2 BPM. ISDP = 1000#, 10" SIP 600									
				OVERNIGHT SITP = 700psi, SFL 2000' -									
				SWAB'D DOWN REC. ALL LOAD. SWR 5-70% OOL									
				+ 80-90% SW. RE/A w/ 5000gal REACTROL @									
				4.4 BPM @ 2000psi AVG. PRESS. FLOWED & SWAB'D									
				GOT BACK HVY OIL: WTR EMULSION. SWAB'D									
				CLEANED UP & FLOWED ARO 100 MCFD									
				RE/A w/ 3000gal DS 30 ACID + 200 Pzr									
				SEALERS ARO 4.4 BPM - BACKED OUT AVG									
				PRESS. 2000psi, ISDP 2100, 10" SIP = 1000psi									
				FRAC / 20000gal GELLED BRINE + 1/4 #/gal									
				20/40 SW, ARO 358 BPM ISDP 1000#, 10" SIP = 900									
				SWABBED & FLOWED. FLOWED BACK - WELL									
				TESTED 373 MCFD ON 150# FTP									

TD: 4547'
PBD: 4546' (orig.)
ELEV: 4085' RKB
4084' DF
4074' G

*** BEFORE RE-ENTRY

H.L. Brown, Jr. - SAUNDERS A #1 - Sec 5, T-8-S, R-37-E, ROOSEVELT Co., N.M.

INITIAL HOOLUP: CAPITAN, 8-3-66.

WORKOVER: (1-29-67) - PULLED PER LOOSE, FOUND FILL
OVER 23' PERFS. 100 JTS TRG PLUGGED W/ SALT.
WASHED OUT SALT - COULD NOT RETURN WELL TO
PRODUCTION.

PxA: PTG

SET 10SX PLUG @ 4400'

SHOT off 4 1/2" @ 2196'

SET 25SX PLUG @ 2196'

" 25SX " @ 331'

" 10SX " @ SURFACE

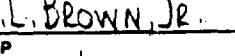
ERECTED DRY HOLE MARKER - CLEANED UP LOC.

ORIGINAL 4-POINT TEST: 5/10/66

SIBHP = 1297 psig @ MHP

ADF = 820 MCFD.

LOGS AVAILABLE: SCHLUMBERGER, 11-26-65, COMP. FDC/GR/CAL,
(4546'-SURF). WESTERN WIRELINE GR/CCL
LOG (4543'-4200') DATED 12-1-65.

COMPANY H.L. BROWN, JR.		FIELD BLUETT (SAN ANDRES ASSOC.)				WELL NAME SAUNDERS "A" No. 1					
COMPANY REP GEORGE WELDON		CASING	SIZE	WEIGHT	GRADE	THREAD	TYPE COMPLETION FLUID IN CASING				
COUNTY ROOSEVELT	STATE NM	LINER	SIZE	WEIGHT	GRADE	THREAD	TUBING WT. ON	LOWER	MIDDLE	UPPER	
		TUBING	UPPER	SIZE	WEIGHT	GRADE	THREAD	TYPE LATCH	LOWER	MIDDLE	UPPER
			MIDDLE	SIZE	WEIGHT	GRADE	THREAD	OPERATOR'S NAME H.L. BROWN, JR.		MSO	
			LOWER	SIZE	WEIGHT	GRADE	THREAD	OFFICE MILAM		DATE 9-25-85	

ITEM	DEPTH	LENGTH	JTS	DESCRIPTION
				LOCATION: 1650' FN: WL's, SEC 5, T-8-S
				R-37-E, ROOSEVELT COUNTY, NM
1	281		10	8 5/8" 20:24# CSG, CMT'D w/ 75sx INCOR + 4% GEL FOLLOWED BY 75sx REGULAR + 2% CaCl ₂ . CMT CIRCULATED
2	4547			4 1/2" 10.50#, J-SS, ST: C, 8rt CSG, CMT'D THROUGH SHOE w/ 350sx INCOR 50-50 POZ + 2% GEL + 8#/sx SALT. T/CMT 3084' (CALC'D). CMT'D SECOND STAGE THROUGH DV TOOL @ 2196' w/ 475sx CL "C" + 2% CaCl ₂ , CIRC. CMT PERFORATIONS: 4030'-35', 4130'-32', 4137'-42', 4144'-47', 4149', 4159'-63', 4204'-31'-34', 4400'-3', 4425'-30', 4434'-61', 4444'-75' + 4450'-81' + 4525' 35', 2 JSIF (176 HOLES) STIMULATION: 500 gal 7 1/2% NE-FE ACID (SPOTTED) FOLLOWED BY 4100 gal 15% NE-FE ACID w/ BALL SEALERS.
3	3950±			2 3/8" 4.7#, J-SS, EUE, 8rt TBA INTERNALLY PLASTIC COATED
4	3950±			4 1/2" x 2 3/8" INJECTION PACKER, INTERNAL PLASTIC COATED. ANNULUS BEHIND 2 3/8" TUBING TO BE FILLED WITH FRESH WATER CONTAINING 2% CORROSION INHIBITOR + BACTERIACIDE + OXYGEN SCAVENGER. PRESSURE GAUGES TO BE INSTALLED ON 4 1/2" x 2 3/8" ANNULUS AND ON 4 1/2" x 8 5/8" ANNULUS

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W85-562To H.L. BrownDate 9-30-85

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Submitted by _____ Date Rec. _____

Well No. _____ Depth _____ Formation _____

County _____ Field _____ Source _____

Saunders A #1Resistivity 0.74 @ 75°FSpecific Gravity 1.006 @ 60°FpH 8.1Calcium (Ca) 500 *MPLMagnesium (Mg) 300Chlorides (Cl) 5000Sulfates (SO₄) lightBicarbonates (HCO₃) 240Soluble Iron (Fe) nil

Remarks: _____ *Milligrams per liter

Respectfully submitted,

Analyst: Lee Hisey

HALLIBURTON COMPANY

cc:

By _____

CHEMIST

NOTICE

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HALLIBURTON DIVISION LABORATORY

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Submitted by Skinner, Mills 683-5216

Date Rec. _____

Well No. _____ Depth _____ Formation San AndresCounty Roosevelt Field _____ Source _____

	<u>Petco Fed. B #1</u>	<u>Avlon Perkins #1</u>	<u>#2</u>
Resistivity	<u>0.051 @ 75°F</u>	<u>0.74 @ 75°F</u>	<u>0.74 @ 75°F</u>
Specific Gravity	<u>1.196 @ 60°F</u>	<u>1.006 @ 60°F</u>	<u>1.006 @ 60°F</u>
pH	<u>6.4</u>	<u>7.0</u>	<u>7.6</u>
Calcium (Ca)	<u>18,000</u>	<u>1500</u>	<u>500</u> *MPL
Magnesium (Mg)	<u>10,800</u>	<u>1800 900</u>	<u>300</u>
Chlorides (Cl)	<u>180,000</u>	<u>5000</u>	<u>5000</u>
Sulfates (SO ₄)	<u>nil</u>	<u>light</u>	<u>nil</u>
Bicarbonates (HCO ₃)	<u>120</u>	<u>240</u>	<u>240</u>
Soluble Iron (Fe)	<u>nil</u>	<u>nil</u>	<u>nil</u>

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: _____

HALLIBURTON COMPANY

cc: Lee X Hisey

By _____

CHEMIST

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HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W85-562To H.L. BrownDate 9-30-85

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Submitted by _____ Date Rec. _____

Well No. _____ Depth _____ Formation _____

County _____ Field _____ Source _____

	<u>Ross Ainsworth Windmill #3</u>	<u>Avlon Perkins #6</u>	<u>#7</u>
Resistivity	<u>0.74 @ 75 F</u>	<u>0.74 @ 75°F</u>	<u>0.74 @ 75°F</u>
Specific Gravity	<u>1.006 @ 60 ° F</u>	<u>1.006 @ 60°F</u>	<u>1.006 @ 60°F</u>
pH	<u>7.1</u>	<u>8.2</u>	<u>8.0</u>
Calcium (Ca)	<u>500</u>	<u>500</u>	<u>500</u> *MPL
Magnesium (Mg)	<u>300</u>	<u>300</u>	<u>300</u>
Chlorides (Cl)	<u>5000</u>	<u>5000</u>	<u>5000</u>
Sulfates (SO ₄)	<u>light</u>	<u>light</u>	<u>nil</u>
Bicarbonates (HCO ₃)	<u>240</u>	<u>240</u>	<u>200</u>
Soluble Iron (Fe)	<u>nil</u>	<u>nil</u>	<u>nil</u>

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: XX Lee Hisey

HALLIBURTON COMPANY

cc:

By


CHEMIST

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TO HL Brown

Submitted by _____ Date Received 10/4/85

Well No. _____ Depth Blvitt Formation Wolfcamp

County Federal A Field Federal B Source Federal C

Res. Inefficient Sample 0.060980F 0.0690950F

S. G.	"	"	1.135	1.1360'
pH	"	"	8.4	8.1
Ca	"	"	14,000	15,000
Mg	"	"	9,200	9,200
Cl	"	"	120,000	120,000
SO ₄	"	"	light	light
HCO ₃	"	"	120	100
T. Fe	"	"	Nil	Nil

TO Hh Brown

Submitted by _____ Date Received 10/4/85

Well No. _____ Depth Bluff Formation Wolftcamp

County Federal D Field Federal E Source Federal F

Res. 0.058 0.061 0.059

S. G. 1.140 @ 60° F 1.131 1.135

pH 6.3 6.0-6.2 6.6

Ca 12,000 12,500 11,500

Mg 9,500 6,800 2,000

Cl 125,000 25 120,000

SO₄ Mod Mod Mod

HCO₃ 120 80 120

T Fe Nil Nil Nil

TO HL Brown

Submitted by _____ Date Received 10/4/85

Well No. _____ Depth 131 ft Formation Wolfcamp

County Federal G Field Federal H Source Federal J

Res. 0.06 0.06 0.06

S. G. 1.132 1.129 1.135

pH 5.0 5.0 6.0

Ca 7500 14000 10000

Mg 7300 8400 6000

Cl 140,000 115,000 120,000

SO₄ Nil Med light

HCO₃ 60 60 60

T Fe Nil Med Nil

TO HL Brown

Submitted by _____

Date Received

10/4/85

Well No. _____

Depth

Formation

Wolfcamp

County _____

Field

Source

Federal 1

Bluff Perkins

Res. _____

0.070250F

0.0650950F

S. G. _____

21093600F

11000600F

pH _____

6.4

Inefficient Sample

Ca _____

2000

1500

Mg _____

4200

9000

Cl _____

80000

85000

SO₄ _____

light

light

HCO₃ _____

light

light

T Fe _____

Ni1

Ni1

Roosevelt Co. N. M.

This figure is a detailed map of the Los Angeles area, showing numerous numbered locations (e.g., 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36) and names of individuals or companies (e.g., Christine Kavalier, Mtn Fuel Supply, U.S. Mins, Enserch, R.K. Cramer, Holly Energy, etc.). The map includes a compass rose and a scale bar.