

CASE 2639: Application of GENERAL  
F.MER. for waterflood project.  
(Keeley "B" Well No. 13 - Unit H)

CASE 2639: Application of GENERAL  
AMER. for waterflood project.  
(Keeley "B" Well No. 13 - Unit H)

50-110

2639

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Index, Transcript,  
// Exhibits, Etc.

DRAFT

JMD/esr  
September 25, 1962

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 2639

Order No. R- 2327

APPLICATION OF GENERAL AMERICAN OIL  
COMPANY OF TEXAS FOR APPROVAL OF A  
WATERFLOOD PROJECT, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on  
September 11, 1962, at Santa Fe, New Mexico, before Elvis A. Utz,  
Examiner duly appointed by the Oil Conservation Commission of New  
Mexico, hereinafter referred to as the "Commission," in accordance  
with Rule 1214 of the Commission Rules and Regulations.

NOW, on this October day of September, 1962, the Commission,  
a quorum being present, having considered the application, the  
evidence adduced, and the recommendations of the Examiner,  
Elvis A. Utz, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, General American Oil Company of  
Texas, is the operator of Sections 23 and 26, Township 17 South,  
Range 29 East, NMPM, ~~Grayburg-Jackson Pool~~, Eddy County, New  
Mexico.

(3) That the applicant requests approval of a <sup>pilot</sup> waterflood  
project in the Grayburg-Jackson Pool on the above-described lands  
with the injection of water into the Grayburg-Keely zone of the  
San Andres formation through its Keely "B" Well No. 13, located  
in Unit H, Section 26, Township 17 South, Range 29 East, NMPM,  
Eddy County, New Mexico.

(4) That the wells in the proposed project area are in an  
advanced stage of depletion and should be classified as "stripper"  
wells.

(5) That approval of the subject application <sup>should result</sup> ~~will increase~~ <sup>in the</sup> ~~ultimate~~ recovery of oil which otherwise might not be recovered, and will neither cause waste nor impair correlative rights; Provided, however, that unless agreed to by all parties, the transfer of allowables across lease lines where royalty ownership is diverse should not be authorized.

IT IS THEREFORE ORDERED:

(1) That the applicant, General American Oil Company of Texas, is hereby authorized to institute a <sup>pilot</sup> waterflood project in <sup>the</sup> Grayburg-Keelby zone of the San Andres formation in the Grayburg-Jackson Pool by the injection of water through its Keelby "B" Well No. 13, located <sup>1345 feet from the North line and 1295 feet from the</sup> ~~in Unit H~~, Section 26, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.

(2) That the waterflood project shall be governed by Rule 701 including the allowable provisions thereof.

PROVIDED HOWEVER, That unless otherwise agreed to by all parties and evidence thereof furnished the Commission, the transfer of allowables within the project area of this waterflood shall be authorized only insofar as the transfer is made between wells having common royalty ownership.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

# FORMATION RECORD-Continued

FEET	STATION	TOTAL FEET	FORMATION
2830	2830		Lime
2835	2835		Broken Lime
2840	2840		Lime and Sand
2845	2845		Lime
2850	2850		Broken Lime
2855	2855		Lime
2860	2860		Lime and Sand Streaks
2865	2865		Lime
2870	2870		Lime
2875	2875		Lime
2880	2880		Lime
2885	2885		Lime
2890	2890		Lime
2895	2895		Lime
2900	2900		Lime
2905	2905		Lime
2910	2910		Lime
2915	2915		Lime
2920	2920		Lime
2925	2925		Lime
2930	2930		Lime
2935	2935		Lime
2940	2940		Lime
2945	2945		Lime
2950	2950		Lime
2955	2955		Lime
2960	2960		Lime
2965	2965		Lime
2970	2970		Lime
2975	2975		Lime
2980	2980		Lime
2985	2985		Lime
2990	2990		Lime
2995	2995		Lime
3000	3000		Lime
3005	3005		Lime
3010	3010		Lime
3015	3015		Lime
3020	3020		Lime
3025	3025		Lime
3030	3030		Lime
3035	3035		Lime
3040	3040		Lime
3045	3045		Lime
3050	3050		Lime
3055	3055		Lime
3060	3060		Lime
3065	3065		Lime
3070	3070		Lime
3075	3075		Lime
3080	3080		Lime
3085	3085		Lime
3090	3090		Lime
3095	3095		Lime
3100	3100		Lime
3105	3105		Lime
3110	3110		Lime
3115	3115		Lime
3120	3120		Lime
3125	3125		Lime
3130	3130		Lime
3135	3135		Lime
3140	3140		Lime
3145	3145		Lime
3150	3150		Lime
3155	3155		Lime
3160	3160		Lime
3165	3165		Lime
3170	3170		Lime
3175	3175		Lime
3180	3180		Lime
3185	3185		Lime
3190	3190		Lime
3195	3195		Lime
3200	3200		Lime
3205	3205		Lime
3210	3210		Lime
3215	3215		Lime
3220	3220		Lime
3225	3225		Lime
3230	3230		Lime
3235	3235		Lime
3240	3240		Lime
3245	3245		Lime
3250	3250		Lime
3255	3255		Lime
3260	3260		Lime
3265	3265		Lime
3270	3270		Lime
3275	3275		Lime
3280	3280		Lime
3285	3285		Lime
3290	3290		Lime
3295	3295		Lime
3300	3300		Lime
3305	3305		Lime
3310	3310		Lime
3315	3315		Lime
3320	3320		Lime
3325	3325		Lime
3330	3330		Lime
3335	3335		Lime
3340	3340		Lime
3345	3345		Lime
3350	3350		Lime
3355	3355		Lime
3360	3360		Lime
3365	3365		Lime
3370	3370		Lime
3375	3375		Lime
3380	3380		Lime
3385	3385		Lime
3390	3390		Lime
3395	3395		Lime
3400	3400		Lime
3405	3405		Lime
3410	3410		Lime
3415	3415		Lime
3420	3420		Lime
3425	3425		Lime
3430	3430		Lime
3435	3435		Lime
3440	3440		Lime
3445	3445		Lime
3450	3450		Lime
3455	3455		Lime
3460	3460		Lime
3465	3465		Lime
3470	3470		Lime
3475	3475		Lime
3480	3480		Lime
3485	3485		Lime
3490	3490		Lime
3495	3495		Lime
3500	3500		Lime
3505	3505		Lime
3510	3510		Lime
3515	3515		Lime
3520	3520		Lime
3525	3525		Lime
3530	3530		Lime
3535	3535		Lime
3540	3540		Lime
3545	3545		Lime
3550	3550		Lime
3555	3555		Lime
3560	3560		Lime
3565	3565		Lime
3570	3570		Lime
3575	3575		Lime
3580	3580		Lime
3585	3585		Lime
3590	3590		Lime
3595	3595		Lime
3600	3600		Lime

3600	3616	Gray Lime.
3616	3633	Brown and Gray Lime.
3633	3671	Broken Lime.
3671	3689	Sandy Lime.
3689	3747	Gray Lime.
3747	3752	Sandy Lime.
3752	3758	Hard Sand.
3758	4014	Lime.
4014	4020	Hard Sand.
4020	4067	Sand Lime.
4067	4083	Lime.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "detracked," or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or falling.

Core No.	Depth (ft)	Remarks	Core No.	Depth (ft)	Remarks
4083	4095	Lime and Shells.			
4095	4390	Lime - Gray.			
4390	4667	Brown Lime.			
4667	5063	Liner			
5063	5076	TOTAL DEPTH.			

INVESTIGATIVE MATTER FILED

№ 3' ном	3332	то	3332	№ 6' ном	то
№ 2' ном	3332	то	3330	№ 5' ном	то
№ 1' ном	3332	то	3330	№ 4' ном	то

OTG OK CV2 SWING OK ZONEA

COMMENCED QUINING..... 10 00  
 COMMENCED QUINING..... 10 00

The formula on the back is for the conversion of the A&P at 6000 into

Date: October 22, 1961 Time: 10:00

\_\_\_\_\_

The Information RICH repository is a complete and collected record of the men and all work done there.

Location	Section	Elevation
3342 N. 100 ft	3288	

MAILED 13 DEC 1 1968 SSM MEMPHIS F.B.I. COMM-FBI

[illegible]

Contributor: EXHIBIT OF COMBUST OF MEX VEGGIES POCO HITE MEX MEXICO

ГОСУД. НАУЧ. ЦЕНТРА

[illegible]

TOC OF OIT OF CYS METT

ГЕОЛОГИЧЕ СЪБЛЕД

DEPARTMENT OF THE INTERIOR

UNITED STATES

ΚΟΣΤΑΣ Β

PRINCE OF BERNARD TO PROCEED

SERIAL NUMBER 000104-25-n

U.S. POST OFFICE

УДК 62-50:62-50:62-50  
ББК 62.01:62.01:62.01

EC Heaving plug—Material ..... Length ..... Depth set .....  
Adapters—Material ..... Size .....

ACIDIZING		SHOOTING RECORD			
Size	Shell used	ACID used	Quantity	Date	Depth shot
3213	3213	20% HCl	1000	3-27-47	3450-3557
3211	3213	20% HCl	3000	3-29-47	3450-3557
3211	3213	20% HCl	1500	3-15-47	2829-3050
3211	3213	20% HCl	3500	3-16-47	2829-3050

Rotary tools were used from 0 feet to 5076 feet, and from feet to feet

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

August 23, 1947. Put to producing August 18, 1947.

The production for the first 24 hours was 229 barrels of fluid of which 100% was oil; %  
emulsion; % water; and % sediment. Gravity, °Bé. 37

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES  
S. Martin, Driller B. R. Vaughn, Driller  
J. H. Looney, Driller

FORMATION RECORD		FORMATION	
FROM	TO	TOTAL FEET	FORMATION
170	170		Red. Bed.
170	290		Red. Bed. and Gyp.
290	446		Red. Bed. and Streak of Gyp.
446	544		Red. Bed. - Salt - Anhydrite.
544	600		Anhydrite and Potash.
600	710		Salt and Anhydrite.
710	767		Anhydrite - Potash - Salt.
767	775		Broken Salt.
775	802		Anhydrite.
802	853		Anhydrite - Streaks of Red Bed.
853	885		Anhydrite - Salt Streaks
885	950		Anhydrite and Lime.
950	990		Anhydrite.
990	1027		Broken Red Rock and Anhydrite.
1027	1047		Anhydrite.
1047	1075		Anhydrite - Broken Gray Lime.
1075	1080		Red Rock - Anhydrite.
1080	1085		Anhydrite.
1085	1382		Anhydrite and Red Rock.
1382	1532		Anhydrite.
1532	1682		Anhydrite and Gyp.
1682	2206		Anhydrite and Red Rock.
2206	2245		Anhydrite and Lime.
2245	2278		Anhydrite - Brown Lime - Shale.
2278	2290		Red Rock and Anhydrite.
2290	2524		Lime.
2524	2590		Broken Red Rock and Lime.

FORMATION RECORD—Continued

10-48024-4

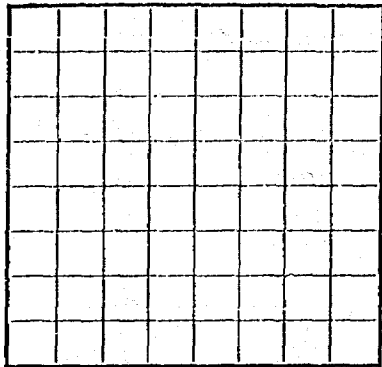
AT THE END OF EACH DAY, DRILLER'S  
LOG, ADD CEMENT, AND STATE  
WHETHER FROM LOG OR SAMPLES.



## EXHIBIT 2

Budget Bureau No. 42-13354.  
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Las Cruces  
SERIAL NUMBER 028784-93-b  
LEASE OR PERMIT TO PROSPECT .....

LOCATE WELL CORRECTLY

UNITED STATES

Keely B

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company Grayburg Oil Company of New Mex. Address Loco Hills, New Mexico  
 Lessor or Tract Keely B Field Grayburg-Jackson State New Mexico  
 Well No. 13 Sec. 26 T. 17S R. 29E Meridian N.M.P.M. County Eddy  
 Location 1345 ft. [N] of N Line and 1295 ft. [W] of E Line of Section 26 Elevation 3588  
 (Derrick base relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date August 28, 1947

Title .....

The summary on this page is for the condition of the well at above date.

Commenced drilling November 22, 1946. Finished drilling February 18, 1947.

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2835 to 2870 No. 4, from ..... to .....  
 No. 2, from 2935 to 3050 No. 5, from ..... to .....  
 No. 3, from 3435 to 3535 No. 6, from ..... to .....

## IMPORTANT WATER SANDS

No. 1, from 2035 to 2045 No. 3, from ..... to .....  
 No. 2, from 2045 to 2055 No. 4, from ..... to .....

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10 3/4"	112	8	Halliburton	300	None	2870' to 3050'			Sal. String
7"	87	8	Halliburton	125	None	3050' to 3535'			Prod. String
7"	87	8	Halliburton	210	None	3535' to 3588'			
7"	87	8	Halliburton	210	None	3588' to 3600'			
7"	87	8	Halliburton	210	None	3600' to 3610'			
7"	87	8	Halliburton	210	None	3610' to 3620'			
7"	87	8	Halliburton	210	None	3620' to 3630'			
7"	87	8	Halliburton	210	None	3630' to 3640'			
7"	87	8	Halliburton	210	None	3640' to 3650'			
7"	87	8	Halliburton	210	None	3650' to 3660'			
7"	87	8	Halliburton	210	None	3660' to 3670'			
7"	87	8	Halliburton	210	None	3670' to 3680'			
7"	87	8	Halliburton	210	None	3680' to 3690'			
7"	87	8	Halliburton	210	None	3690' to 3700'			
7"	87	8	Halliburton	210	None	3700' to 3710'			
7"	87	8	Halliburton	210	None	3710' to 3720'			
7"	87	8	Halliburton	210	None	3720' to 3730'			
7"	87	8	Halliburton	210	None	3730' to 3740'			
7"	87	8	Halliburton	210	None	3740' to 3750'			
7"	87	8	Halliburton	210	None	3750' to 3760'			
7"	87	8	Halliburton	210	None	3760' to 3770'			
7"	87	8	Halliburton	210	None	3770' to 3780'			
7"	87	8	Halliburton	210	None	3780' to 3790'			
7"	87	8	Halliburton	210	None	3790' to 3800'			
7"	87	8	Halliburton	210	None	3800' to 3810'			
7"	87	8	Halliburton	210	None	3810' to 3820'			
7"	87	8	Halliburton	210	None	3820' to 3830'			
7"	87	8	Halliburton	210	None	3830' to 3840'			
7"	87	8	Halliburton	210	None	3840' to 3850'			
7"	87	8	Halliburton	210	None	3850' to 3860'			
7"	87	8	Halliburton	210	None	3860' to 3870'			
7"	87	8	Halliburton	210	None	3870' to 3880'			
7"	87	8	Halliburton	210	None	3880' to 3890'			
7"	87	8	Halliburton	210	None	3890' to 3900'			
7"	87	8	Halliburton	210	None	3900' to 3910'			
7"	87	8	Halliburton	210	None	3910' to 3920'			
7"	87	8	Halliburton	210	None	3920' to 3930'			
7"	87	8	Halliburton	210	None	3930' to 3940'			
7"	87	8	Halliburton	210	None	3940' to 3950'			
7"	87	8	Halliburton	210	None	3950' to 3960'			
7"	87	8	Halliburton	210	None	3960' to 3970'			
7"	87	8	Halliburton	210	None	3970' to 3980'			
7"	87	8	Halliburton	210	None	3980' to 3990'			
7"	87	8	Halliburton	210	None	3990' to 4000'			

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Mud used	Mud gravity	Amount of mud used
10 3/4"	914	300	Halliburton		
7"	3420	125	Halliburton	9.2#/gal.	To Surface
7"	2820	210	Halliburton	9.2#/gal.	To Surface

## PLUGS AND ADAPTERS

Russell

R.1039

Case 2639

Head Office of Tex

Pilot note 71d

Upper SA from

1013 Jackson

See 23 + 26 175 29E Sddg Co

Concert

Reel "B" 13 26 17 29  
1345' FNC  
1295' FFC  
26

September 13, 1962

Mr. Frank Irby  
Water Rights Division  
Office of State Engineer  
Santa Fe, New Mexico

Dear Mr. Irby:

Enclosed is analysis of water which we propose to inject into our Keely B 13 located 1345 feet from North line and 1295 feet from East line of Section 26, Township 17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.

This analysis was made by Dowell, Inc. and is sent you in response to your request during the examiner hearing on Case No. 2639.

Very truly yours,

GENERAL AMERICAN OIL CO. OF TEXAS

By R. F. Miller  
R. F. Miller  
District Engineer

RPM/dr

Encl.

cc: Elvis Utz ✓  
Oil Conservation Comm.  
Santa Fe, New Mexico  
Case File



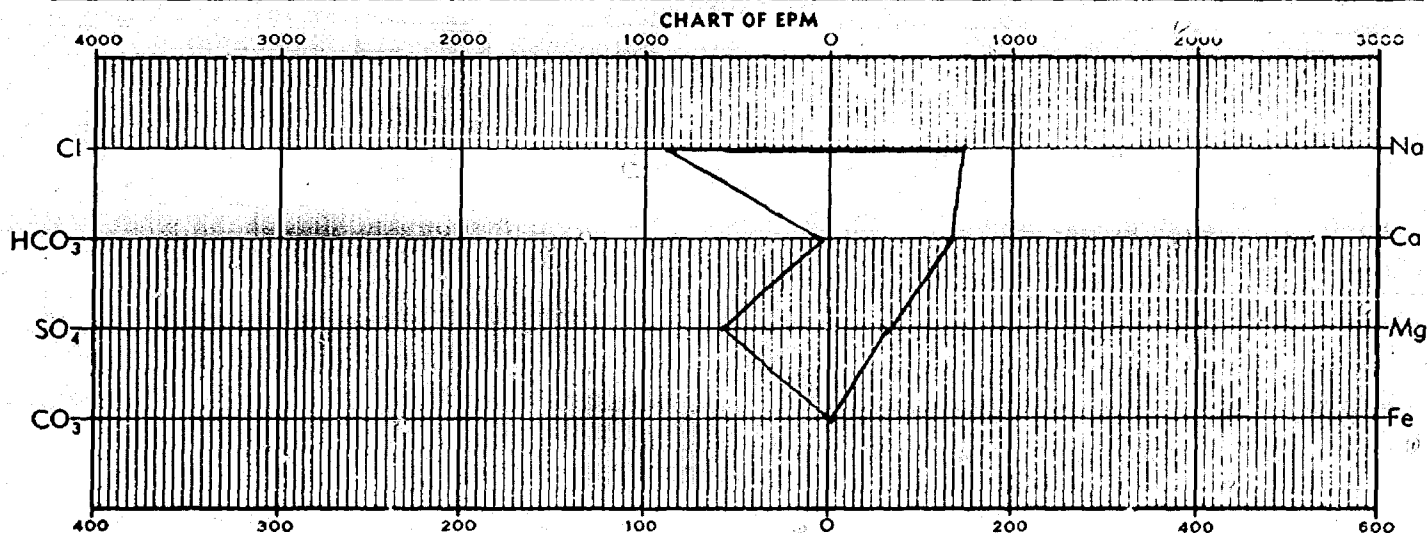
# DOWELL INCORPORATED

## FIELD LABORATORY REPORT

### WATER ANALYSIS

TO: General American Oil Co. of Tex  
Box 416  
Loco Hills, New Mexico

LABORATORY LOCATION		REPORT NUMBER	
Hobbs, New Mexico		MX 0607	
COMPANY		WELL	
General Amer.		Water Flood Supply	
POOL		LOCATION	
Grayburg-Jackson			
COUNTY		STATE	
Eddy		New Mexico	
FORMATION		DEPTH	
Penn.			
SUBMITTED BY		TESTS DESIRED	
S. M. Tipton		complete analysis	
DATE SAMPLE SUBMITTED			
SAMPLE SOURCE			
Tank			
	PPM	EPM	
CALCIUM	2,740	136	CHLORIDE
MAGNESIUM	800	65.6	SULFATE
SODIUM	17,120	745	BICARBONATE
IRON	24	1	CARBONATE
HYDROGEN SULFIDE			HYDROXIDE
SPECIFIC GRAVITY		% SALT SATURATION	
1.038 AT 70 °F		pH 6.4	
		CaCl <sub>2</sub> /MgCl <sub>2</sub> 2.42	
		5.008	



#### REMARKS:

cc: Hurst, Rosene, Stewart, file, Artesia  
Norman Krouskops - 8 th floor McAdams Building, Dallas, Texas  
Dowell - Dallas

Charles Rosson  
CHEMIST

May 7, 1958  
DATE

Docket No. 26-62

Examiner Hearing September 11, 1962

- CASE 2630: Application of Gulf Oil Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Graham State (NCT-I) Well No. 1, located in Unit M of Section 19, Township 21 South, Range 37 East, Lea County, New Mexico, as a triple completion (conventional) in the Paddock, Blinebry and Drinkard Oil Pools with the production of oil from all three zones to be through parallel strings of tubing.
- CASE 2631: Application of Moran Oil Producing and Drilling Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the triple completion (conventional) of its Owen Well No. 1, located in Unit E, Section 14, Township 21 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce Blinebry oil, Tubb gas, and Drinkard oil through parallel strings of tubing.
- CASE 2632: Application of Humble Oil & Refining Company for an order establishing special rules and regulations for the Four Lakes-Pennsylvanian Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing special rules and regulations for the Four Lakes-Pennsylvanian Pool, Lea County, New Mexico, to include provisions for 80-acre oil proration units therein.
- CASE 2633: Application of General American Oil Company of Texas for expansion of a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks expansion of its waterflood project in the Loco Hills Pool by the conversion to water injection of its Beeson F Well No. 10, located in Unit B of Section 31, Township 17 South, Range 30 East, Eddy County, New Mexico.
- CASE 2634: Application of Ambassador Oil Corporation for approval of a unit agreement and waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a waterflood project in the Grayburg-Jackson Pool, with the initial injection of water to be through six wells located in Sections 22, 23, and 26, Township 17 South, Range 30 East, Eddy County, New Mexico, said project to be governed by Rule 701. Applicant further seeks approval of the Grayburg-Jackson Unit Agreement embracing 1600 acres, more or less, of federal and State lands in Township 17 South, Range 30 East, Eddy County, New Mexico.

DOCKET: EXAMINER HEARING - TUESDAY - SEPTEMBER 11, 1962

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM  
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

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The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, alternate examiner:

CASE 2612 (Continued)

Application of Texaco Inc. for a tubing exception, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to produce its C. C. Fristoe (b) NCT-2 Well No. 6, located in Unit H of Section 35, Township 25 South, Range 37 East, Lea County, New Mexico, North Justis-Devonian Pool, through a string of 1 1/2-inch OD tubing run with a packer inside of a 2 7/8-inch OD casing.

CASE 2626: Application of La Plata Gathering System, Inc., for a dual completion at an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of a Basin Dakota-Blanco Mesaverde dual completion at an unorthodox location 1680 feet from the South line and 734 feet from the East line of Section 19, Township 32 North, Range 5 West, Rio Arriba County, New Mexico.

CASE 2627: Application of La Plata Gathering System, Inc., for an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox Blanco Mesaverde well location 1,790 feet from the North line and 790 feet from the East line of Section 24, Township 32 North, Range 6 West, Rio Arriba County, New Mexico.

CASE 2628: Application of Marathon Oil Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox gas well location in the Atoka-Pennsylvanian Gas Pool at a point 990 feet from the North line and 990 feet from the East line of Section 30, Township 18 South, Range 26 East, Eddy County, New Mexico.

CASE 2629: Application of S. P. Yates Drilling Company for approval of a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Pecos River Deep Unit Agreement comprising 17,257.82 acres, more or less, of State, Federal and Fee lands in Township 19 South, Ranges 26 and 27 East, and Township 20 South, Range 26 East, Eddy County, New Mexico.

Docket No. 26-62

Examiner Hearing September 11, 1962

CASE 2635: Application of L. R. French, Jr. for an order creating a new pool and establishing temporary rules or extension of the South Lane Pennsylvanian Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order creating a new pool for Pennsylvanian production; the discovery well for said pool is the Gulf-State Well No. 1, located in Unit A of Section 18, Township 11 South, Range 34 East, Lea County, New Mexico, completed in the Bough "C" zone of the Pennsylvanian formation. Applicant further seeks establishment of special rules and regulations governing said pool, including 80-acre proration units. As an alternative, applicant seeks extension of the South Lane Pennsylvanian Pool to include said Gulf-State Well No. 1.

CASE 2639: Application of General American Oil Company of Texas for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a pilot waterflood project in the Upper San Andres formation, Grayburg-Jackson Pool, Eddy County, New Mexico, by the injection of water into its Keeley "B" Well No. 13, located in Unit H, Section 26, Township 17 South, Range 29 East.

CASE 2640: Application of General American Oil Company of Texas for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a pilot waterflood project in the Grayburg zone of the San Andres formation, Grayburg-Jackson Pool, Eddy County, New Mexico, by the injection of water into its Keeley "C" Well No. 25, located in Unit O, Section 25, Township 17 South, Range 29 East.

CASE 2641: Application of Continental Oil Company for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a non-standard 80-acre gas proration unit, Blinbry Gas Pool, Lea County, New Mexico, said unit to comprise the NW/4 NW/4 and SE/4 NW/4 of Section 10, Township 21 South, Range 37 East, and be dedicated to applicant's State 10 Well No. 1, located in the NW/4 NW/4 of said Section 10.

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BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF GENERAL )  
AMERICAN OIL COMPANY OF TEXAS FOR AN ORDER )  
AUTHORIZING THE INJECTION OF WATER INTO THE )  
GRAYBURG-KEELY ZONE OF THE SAN ANDRES FORMA- ) Case Number 2639  
TION FOR THE PURPOSE OF SECONDARY RECOVERY )  
IN SECTIONS 23 AND 26, TOWNSHIP 17 SOUTH, )  
RANGE 29 EAST, IN THE GRAYBURG-JACKSON POOL, )  
EDDY COUNTY, NEW MEXICO. )

APPLICATION

COMES NOW General American Oil Company of Texas by its  
attorneys, Campbell & Russell, and states:

1. It is the owner of the working interest to the  
Grayburg-Keely Zone of the San Andres Formation underlying all of  
Sections 23 and 26, Township 17 South, Range 29 East, in the Grayburg-  
Jackson Pool, Eddy County, New Mexico.
2. It proposes to commence the injection of water in  
its Keely B Number 13 well located in Unit H of Section 26, Town-  
ship 17 South, Range 29 East, which well is identified on Exhibit 1  
attached hereto, said Exhibit being a plat also showing the location  
of all other wells within a radius of two miles from said proposed  
injection well and the lessees within said two mile radius.
3. It attaches hereto as Exhibit 2 a copy of the well  
log of the proposed injection well.
4. It attaches hereto as Exhibit 3 a record of the casing  
program of the proposed injection well.



5. It proposes to flood the Grayburg-Keely Zone of the San Andres Formation at depths ranging from 3,420 feet to 3,537 feet from the surface at a minimum rate of 500 barrels of water per day and a maximum rate of 1000 barrels of water per day. The water will be furnished from the Pennsylvanian Formation between the depths of 9,265 feet to 9,299 feet.

WHEREFORE, Applicant requests that the Commission set this matter down for hearing before its examiner, publish notice as required by law, and after hearing, issue its order authorizing the injection of water as aforesaid.

Respectfully submitted,

GENERAL AMERICAN OIL COMPANY OF TEXAS

BY: John D. Russell  
Campbell & Russell  
P. O. Box 640  
Roswell, New Mexico

Its Attorneys

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

December 4, 1962

Mr. John F. Russell  
Campbell & Russell  
Attorneys at Law  
Post Office Drawer 640  
Roswell, New Mexico

Gentlemen:

Reference is made to Commission Order No. R-2327, recently entered in Case No. 2639, approving the General American Grayburg-Keeley Waterflood Project in the Grayburg-Jackson Pool.

According to our calculations, when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 126 barrels per day.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate District Proration Office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells

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OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

-2-

are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/lr

cc: Oil Conservation Commission  
Artesia, New Mexico

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### HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "detracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

[illegible]

## CYFING RECORD

No. 1' from		No. 2' from		No. 3' from		No. 4' from		No. 5' from	
	252								
UNION PACIFIC WATERWAYS									
No. 3' from	0 350		350	No. 0' from	0 350				350 (on 10)
No. 2' from	0 350		350	No. 0' from	0 350				350 (on 10)
No. 1' from	0 350		350	No. 0' from	0 350				350
No. 1' from	0 350		350	No. 0' from	0 350				350

(page 62 of 63)

ONE OF OUR STAFFS ON SOME

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

The summary on this page is for the condition of the men at these dates.

Իսկ դրոշմը չի հասնում իր նշանակությանը:

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DO NOT ASK FOR INFORMATION FROM THE FBI RECORDS

The information given regarding is a composite and collected record of the men and all work done previous

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WCH NO. 88 266 32 L 133 B 300 MGLIDIAN R.R. 5 11 Contra 1907

Lesson of Trust

Combinações de produtos de origem animal e vegetal para a alimentação humana e animal.

ГОСУДЕ МЕНГ СОВБЕСИГА

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DEPARTMENT OF THE INTERIOR

UNITED STATES

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PRICE ON ORDER TO PROSPECT

СЕРИЯ ДЛИНОВЕВ — КОРТЕЖ

U.S. POST OFFICE - 7033 - 1940

YBHC067-07000 15-81-01  
RUC067-07000 15-81-01

FORMATION RECORD - Continued

FROM	TO	TOTAL FEET	FORMATION
2384	2388		Anhydrite and Red Shale
2388	2393		Anhydrite
2393	2398		Gray Lime
2398	2403		Anhydrite and Red Shale
2403	2408		Anhydrite and Sandy Shale
2408	2413		Gray Lime
2413	2418		Gray Lime and Red Shale
2418	2423		Gray Lime
2423	2428		White Lime
2428	2433		Gray Lime
2433	2438		Pink Lime
2438	2443		Broken Lime
2443	2448		Gray Lime
2448	2453		White Lime
2453	2458		Brown Lime
2458	2463		Pink Lime
2463	2468		Brown Lime
2468	2473		White Lime
2473	2478		Gray Lime
2478	2483		White Lime
2483	2488		Gray Lime
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2853	2858		Gray Lime
2858	2863		White Lime
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2893	2898		Gray Lime
2898	2903		White Lime
2903	2908		Gray Lime
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2973	2978		Gray Lime
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2983	2988		Gray Lime
2988	2993		White Lime
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2998	3003		White Lime
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3078	3083		White Lime
3083	3088		Gray Lime
3088	3093		White Lime
3093	3098		Gray Lime
3098	3103		White Lime
3103	3108		Gray Lime
3108	3113		White Lime
3113	3118		Gray Lime
3118	3123		White Lime
3123	3128		Gray Lime
3128	3133		White Lime
3133	3138		Gray Lime
3138	3143		White Lime
3143	3148		Gray Lime
3148	3153		White Lime
3153	3158		Gray Lime
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3213	3218		Gray Lime
3218	3223		White Lime
3223	3228		Gray Lime
3228	3233		White Lime
3233	3238		Gray Lime
3238	3243		White Lime
3243	3248		Gray Lime
3248	3253		White Lime
3253	3258		Gray Lime
3258	3263		White Lime
3263	3268		Gray Lime
3268	3273		White Lime
3273	3278		Gray Lime
3278	3283		White Lime
3283	3288		Gray Lime
3288	3293		White Lime
3293	3298		Gray Lime
3298	3303		White Lime
3303	3308		Gray Lime
3308	3313		White Lime
3313	3318		Gray Lime
3318	3323		White Lime
3323	3328		Gray Lime
3328	3333		White Lime
3333	3338		Gray Lime
3338	3343		White Lime
3343	3348		Gray Lime
3348	3353		White Lime
3353	3358		Gray Lime
3358	3363		White Lime
3363	3368		Gray Lime
3368	3373		White Lime
3373	3378		Gray Lime
3378	3383		White Lime
3383	3388		Gray Lime
3388	3393		White Lime
3393	3398		Gray Lime
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3418	3423		White Lime
3423	3428		Gray Lime
3428	3433		White Lime
3433	3438		Gray Lime
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3443	3448		Gray Lime
3448	3453		White Lime
3453	3458		Gray Lime
3458	3463		White Lime
3463	3468		Gray Lime
3468	3473		White Lime
3473	3478		Gray Lime
3478	3483		White Lime
3483	3488		Gray Lime
3488	3493		White Lime
3493	3498		Gray Lime
3498	3503		White Lime
3503	3508		Gray Lime
3508	3513		White Lime
3513	3518		Gray Lime
3518	3523		White Lime
3523	3528		Gray Lime
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3558	3563		White Lime
3563	3568		Gray Lime
3568	3573		White Lime
3573	3578		Gray Lime
3578	3583		White Lime
3583	3588		Gray Lime
3588	3593		White Lime
3593	3598		Gray Lime
3598	3603		White Lime
3603	3608		Gray Lime
3608	3613		White Lime
3613	3618		Gray Lime
3618	3623		White Lime
3623	3628		Gray Lime
3628	3633		White Lime
3633	3638		Gray Lime
3638	3643		White Lime
3643	3648		Gray Lime
3648	3653		White Lime
3653	3658		Gray Lime
3658	3663		White Lime
3663	3668		Gray Lime
3668	3673		White Lime
3673	3678		Gray Lime
3678	3683		White Lime
3683	3688		Gray Lime
3688	3693		White Lime
3693	3698		Gray Lime
3698	3703		White Lime
3703	3708		Gray Lime
3708	3713		White Lime
3713	3718		Gray Lime
3718	3723		White Lime
3723	3728		Gray Lime
3728	3733		White Lime
3733	3738		Gray Lime
3738	3743		White Lime
3743	3748		Gray Lime
3748	3753		White Lime
3753	3758		Gray Lime
3758	3763		White Lime
3763	3768		Gray Lime
3768	3773		White Lime
3773	3778		Gray Lime
3778	3783		White Lime
3783	3788		Gray Lime
3788	3793		White Lime
3793	3798		Gray Lime
3798	3803		White Lime
3803	3808		Gray Lime
3808	3813		White Lime
3813	3818		Gray Lime
3818	3823		White Lime
3823	3828		Gray Lime
3828	3833		White Lime
3833	3838		Gray Lime
3838	3843		White Lime
3843	3848		Gray Lime
3848	3853		White Lime
3853	3858		Gray Lime
3858	3863		White Lime
3863	3868		Gray Lime
3868	3873		White Lime
3873	3878		Gray Lime
3878	3883		White Lime
3883	3888		Gray Lime
3888	3893		White Lime
3893	3898		Gray Lime
3898	3903		White Lime
3903	3908		Gray Lime
3908	3913		White Lime
3913	3918		Gray Lime
3918	3923		White Lime
3923	3928		Gray Lime
3928	3933		White Lime
3933	3938		Gray Lime
3938	3943		White Lime
3943	3948		Gray Lime
3948	3953		White Lime
3953	3958		Gray Lime
3958	3963		White Lime
3963	3968		Gray Lime
3968	3973		White Lime
3973	3978		Gray Lime
3978	3983		White Lime
3983	3988		Gray Lime
3988	3993		White Lime
3993	3998		Gray Lime
3998	4003		White Lime
4003	4008		Gray Lime
4008	4013		White Lime
4013	4018		Gray Lime
4018	4023		White Lime
4023	4028		Gray Lime
4028	4033		White Lime
4033	4038		Gray Lime
4038	4043		White Lime
4043	4048		Gray Lime
4048	4053		White Lime
4053	4058		Gray Lime
4058	4063		White Lime
4063	4068		Gray Lime
4068	4073		White Lime
4073	4078		Gray Lime
4078	4083		White Lime
4083	4088		Gray Lime
4088	4093		White Lime
4093	4098		Gray Lime
4098	4103		White Lime
4103	4108		Gray Lime
4108	4113		White Lime
4113	4118		Gray Lime
4118	4123		White Lime
4123			

Adapters—Material.....

Size.....

ACIDIZING ~~SHOOTING~~ RECORD

Size	Shell used	Acid used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	400 gal	5-22-47	Wash	(1 stage)
		20% HCl	9050 gal	5-23 to		
				5-31-47	3216-85	(5 stages)
		20% HCl	2600 gal	5-2-47	317-3216	(1 stage)

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... 0 ..... feet to ..... 3285 ..... feet, and from ..... feet to ..... feet

## DATES

....., 19..... Put to producing ..... June 3 ..... 19 47.

The production for the first 24 hours was ..... 48 ..... barrels of fluid of which 100% was oil; ..... 0% emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. ....

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. ....

## EMPLOYEES

..... Oscar DeLoch ..... Driller ..... Don Thorp ..... Driller

..... G. A. Pyatt ..... Driller ..... Max Stephen ..... Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20		Sand and Caliche
20	75		Red Shale
75	110		Sand
110	120		Gravel
120	145		Red Bed
145	225		Sand
225	235		Sand And Red Bed
235	285		Anhydrite
285	320		Red Bed and Gyp
320	450		Red Bed
450	460		Anhydrite
460	475		Red Bed and Shale
475	525		Salt
525	1075		Anhydrite
1075	1150		Broken Anhydrite
1150	1175		Anhydrite
1175	1275		Anhydrite and Red Bed
1275	1275		Anhydrite and Red Shale
1275	1875		Anhydrite
1875	1875		Red Sandy Shale
1875	2105		Anhydrite
2105	2140		Red Sand
2140	2160		Anhydrite
2160	2200		Anhydrite and Red Rock
2200	2270		Anhydrite
2270	2284		Lime

AT THE END OF COMPLETE DRILLER'S LOG, ADD CHECK BOXES, STATE WHETHER FROM IL OR SAMPLES.

EXHIBIT NO. 2

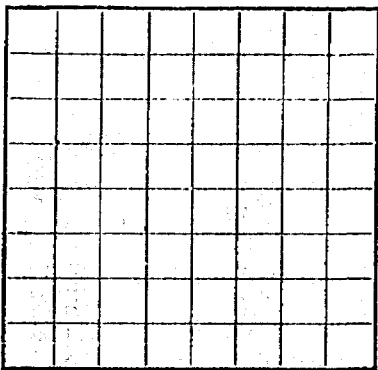
BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 2

CASE NO. 2890

16-43004-4



LOCATE WELL CORRECTLY

 U. S. LAND OFFICE Las Cruces  
 SERIAL NUMBER 028784-c  
 LEASE OR PERMIT TO PROSPECT .....

 UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

Kealy C

## LOG OF OIL OR GAS WELL

 Company Western Production Company, Inc. Address Box 416, Loco Hills, New Mexico  
 Lessor or Tract Kealy C Field Grayburg-Jackson State New Mexico  
 Well No. 25 Sec. 25 T. 17S R. 29E Meridian N.M.P.M. County Eddy  
 Location 660 ft. N. of 3. Line and 1980 ft. W. of 1. Line of Section 25 Elevation 3582'  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date June 10, 1947

Title .....

The summary on this page is for the condition of the well at above date.

Commenced drilling April 4, 1947. Finished drilling May 21, 1947.

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from <u>G 1672</u> to .....	No. 4, from <u>0 2775</u> to <u>2780</u>
No. 2, from <u>0 2650</u> to <u>2668</u>	No. 5, from <u>0 3153</u> to <u>3163</u>
No. 3, from <u>0 2678</u> to <u>2689</u>	No. 6, from <u>0 3182</u> to <u>3191 (1st Pay)</u>
	<u>0 3240</u> <u>3295 (2nd Pay)</u>

## IMPORTANT WATER SANDS

No. 1, from <u>345</u> to .....	No. 3, from ..... to .....
No. 2, from ..... to .....	No. 4, from ..... to .....

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8"	27	8	Halliburton	513	Open hole	Surface	Surface	Surface	Oil and Gas
7"	21	8	Halliburton	3170	Open hole	Surface	Surface	Surface	Oil and Gas

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	513	50	Halliburton	Heavy	
7"	3170	125	Halliburton	Heavy	

## PLUGS AND ADAPTERS

Heavy plug—Material .....

Length .....

Depth set .....

OLD MARK

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

### CYCLING RECORD

# NATIONAL ARMS EVI

(1901-02-03 0000 0000 0000)

COMMERCIAL UNION ..... 1968-72 ..... 1970 ..... 1971 ..... 1972

The summary on this page is not the conclusion of the well at above page

Date 1957-8-27

1196

28100

so far as can be determined from all available records

The information given heretofore is a complete and correct record of the men and all work done thereon.

Page 10 of 11

MAGN. 0° 32' 26" S. L. 137° 58' W. Magnetic 5° 3' 5" E. Compass 594.

Lesson of Trade ..... North C ..... High Employment - 1960-80 ..... 1970-1980

[illegible]

ГОСУДЕ МЕРГ СОВБЕСИГА

FOC OF OIG OR CARS LEFT  
COLLECTORIAL

## GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

REVUE DE JURISPRUDENCE

[illegible]

U.S. 1920 OREGON 1921-1922

Убийство: 15-31-00  
 Похищение: 20-13-1522



**THE**

9.2. 1/24 25 26 27

CLAYE  
CHARTERS

## LOAN RECORD

DATE BOOK \_\_\_\_\_ TIME \_\_\_\_\_ DUTY \_\_\_\_\_

DECLASSIFIED

.....

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

PVLES

Capric tools were used from 2182 to 3450 and from 1667 to 1667

LOOKS USED

\*\*\*\*\*

SHOOTING RECORD

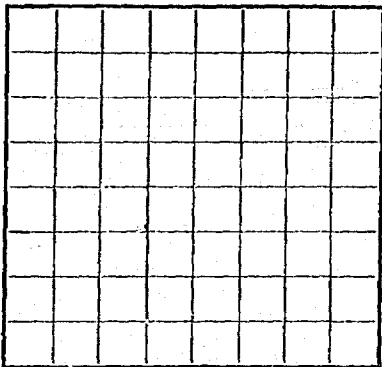
7906102 21 6

...the fact that the *Journal of the American Medical Association* is the largest medical journal in the world, and that it is the only one that is published by a medical association.

Form 9-330

Budget Bureau No. 42-11355.4.  
Approval expires 12-31-60.U. S. LAND OFFICE Las CrucesSERIAL NUMBER 028784-9

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Keely C

SUPPLEMENTARY  
LOG OF OIL OR GAS WELL

Company Western Production Company, Inc. Address Box 416, Loco Hills, New Mexico  
Lessor or Tract Keely C Field Grayburg-Jackson State New Mexico  
Well No. 25 Sec. 25 T. 17S R. 29E Meridian N. M. P. M. County Eddy  
Location 660 ft. N. of S. Line and 1980 W. of E. Line of Section 25 Elevation 3582  
(Derrick base relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date April 9, 1949 Title

The summary on this page is for the condition of the well at above date.

Commenced drilling March 29, 1949 Finished drilling April 5, 1949

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from to No. 4, from to  
No. 2, from to No. 5, from to  
No. 3, from to No. 6, from to

## IMPORTANT WATER SANDS

No. 1, from 3330 to 3358 No. 3, from to  
No. 2, from to No. 4, from to

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
of shoe:	If bands of	plugged hole	but in to (see	for water	the ring of	material	position	and	depth
of shoe:	If bands of	plugged hole	but in to (see	for water	the ring of	material	position	and	depth
of shoe:	If bands of	plugged hole	but in to (see	for water	the ring of	material	position	and	depth
of shoe:	If bands of	plugged hole	but in to (see	for water	the ring of	material	position	and	depth
of shoe:	If bands of	plugged hole	but in to (see	for water	the ring of	material	position	and	depth
of shoe:	If bands of	plugged hole	but in to (see	for water	the ring of	material	position	and	depth
of shoe:	If bands of	plugged hole	but in to (see	for water	the ring of	material	position	and	depth
of shoe:	If bands of	plugged hole	but in to (see	for water	the ring of	material	position	and	depth
of shoe:	If bands of	plugged hole	but in to (see	for water	the ring of	material	position	and	depth

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

## PLUGS AND ADAPTERS

OLD MARK

Leaving plug—Material ..... Length ..... Depth set .....  
Adapters—Material ..... Size .....

#### SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

#### TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet  
Cable tools were used from **3285** feet to **3428** feet, and from ..... feet to ..... feet

#### DATES

~~April 9~~ 19 ~~49~~ Put to producing ~~April 8~~ 19 ~~49~~

The production for the first 24 hours was **20** barrels of fluid of which **100** % was oil; ..... %  
emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. ....

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. ....

#### EMPLOYEES

**L. W. Ledbetter** ..... Driller **Don Thorp** ..... Driller  
**Clay Rook** ..... Driller

#### FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<b>3285'</b>	<b>3350'</b>	<b>65'</b>	Gray Lime
<b>3350'</b>	<b>3366'</b>	<b>16'</b>	Sand & Lime
<b>3366'</b>	<b>3428'</b>	<b>62'</b>	Gray Lime
FROM—	TO—	TOTAL FEET	FORMATION

AT THE END OF COMPLETE DRILLERS  
LOG, ADD NAME OF THE STATE  
WHETHER FROM LOG OR SAMPLES

(OVER)  
FORMATION RECORD—Continued

10-43094-4

Heaving plug—Material .....	Length .....	Depth set .....
Adapters—Material .....	Size .....	

## SHOOTING RECORD

[illegible]

## TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from 3285 feet to 3428 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

April 9	1949	Put to producing	April 8	1949
---------	------	------------------	---------	------

The production for the first 24 hours was 20 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. Gravity, °Bé. \_\_\_\_\_

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock Pressure, lbs. per sq. in. -----

## EMPLOYEES

L. W. Ledbetter	Driller	Don Thorp	Driller
Clay Rook	Driller		Driller

# FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
3285'	3350'	65'	Gray Lime
3350'	3366'	16'	Sand & Lime
3366'	3428'	62'	Gray Lime

AT THE END OF COMPLETE DRILLER'S LOG, ADD COMMENTS TO TOPS. STATE COMMENTS IN FULL SAMPLES

ROBINSON RECORD - CONTINUED

16--12024--

U. S. LAND OFFICE ..... **Las Cruces**  
SERIAL NUMBER ..... **028784-c**  
LEASE OR PERMIT TO PROSPECT .....

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

## LOCATE WELL CORRECTLY

Company Western Production Company, Inc. Address Box 416, Loco Hills, New Mexico  
 Lessor or Tract Keely C Field Grayburg Jackson State New Mexico  
 Well No. 25 Sec. 25 T. 17S R. 29E Meridian N.M.P.M. Count Eddy  
 Location 660 ft. <sup>[N.]</sup> of S. Line and 1980 ft. <sup>[W.]</sup> of E. Line of Section 25 Elevation 3582'  
 (<sup>XSCX</sup> <sup>XIEY</sup> Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date April 9, 1949

**Title.**

The summary on this page is for the condition of the well at above date.

Commenced drilling ..... March 29 ..... , 19 49 Finished drilling ..... April 5 ..... , 19 49

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ..... to .....      No. 4, from ..... to .....

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

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

## IMPORTANT WATER SANDS

No. 1, from 3330' to 3358'      No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_      No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

[illegible]

## MUDDING AND CEMENTING RECORD

[illegible]

## PLUGS AND ADAPTERS

**MARK**

157-42037-2

STATE  
OFFICE

CONTINUATION

Dijet

DIFFER

ĐỒN J.MOLH

• **Diffge**

EMPLOYEES

Guilford Associates Inc. 1'000 en. 1'01 de 1992

Q. 10. 10. 10.

50 principles of unity of which TCC is made up: 50

14-00000

3758-1001 and now

LOOKS USED

Adapted from—M. J. J.

166408 BINA - 71166601

SCHOOLING RECORD

216

FD-170

Blacked back from 2782 to 3240, with 32 stroke cement.	
DATE	2782
TIME	10:00
DEPTH	3240
WELL NO.	32
SECTION	32
WELL NO.	32
SECTION	32

**HISTORY OF OIL OR GAS WELL**

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

DATE	2782	TIME	10:00	DEPTH	3240	WELL NO.	32	SECTION	32
------	------	------	-------	-------	------	----------	----	---------	----

**CASING RECORD**

No. 3' from	to	No. 4' from	to
No. 1' from	3330	No. 2' from	3381

**IMPOUNDING WATER SANDS**

No. 3' from	to	No. 6' from	to
No. 3' from	to	No. 2' from	to
No. 1' from	to	No. 1' from	to

(Don't put in)

**OIL OR GAS SANDS OR ZONES**

Commenced drilling 2782 to 3240 finished drilling 2782 to 3240

The summary on this page is for the condition of the well at above date

Date 2782, 1930

so far as can be determined from all available records

The information given hereafter is a complete and correct record of the well and all work done thereon

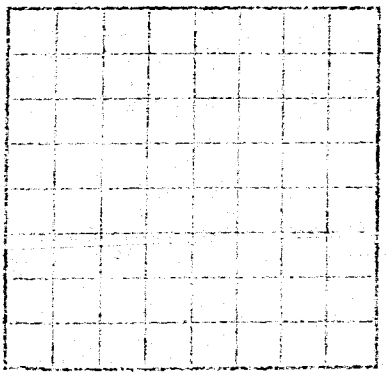
Location 2201 N. 1st St. of 32 line and 3200 N. 1st St. of 32 line of Section 32 Elevation 3282

Well No. 32 Sec. 32 T. 128 N. R. 32 E. Meridian N.M.P.M. County 32

Person or Firm: Keely C. Hill Jackson State New Mexico

Company: Western Production Company, Inc. Address: Box 110, 1000 Hill, New Mexico

**LOCATE WELL CORRECTLY**



**LOC OF OIL OR GAS WELL**

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

Keely C.

DATE OF LOCATION TO PROJECT

2782-32

1930

Other details in or on back sheet

## 16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "struck" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If pumps or bridges were put in to test for water, state kind of material used, position, and results of pumping or drilling.

[illegible]

No. 5' dom	to	No. 5' dom	to
No. 1' dom	to	No. 3' dom	to

HYDROGRAPHIC WATER GAUGES							
No. 2, from	0 5018	to	5088	No. 2, from	0 3540	to	3582 (sup. bar)
No. 2, from	0 3220	to	3288	No. 2, from	0 3123	to	3181 (ref. bar)
No. 1, from	0 1818	to		No. 1, from	0 3123	to	3183
No. 1, from	0 1818	to		No. 1, from	0 3112	to	3180

(DRAFT - FOR REVIEW ONLY)

COMMENCEMENT 1954 - 1955

The authority on this page is for the conviction of the men of those times

Date JUNE 10, 1964 MEMO

၇၂၆၆၆၆

so far as can be determined from all available records.

The information given herein is a complete and correct record of the work and all work done thereon

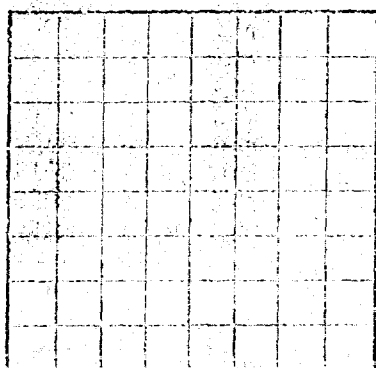
Location 220 of 2 Line and Road 110801 of 2 Line of Section 22

WASH DC 22 DEC 52 SEC 2 J LAR SDE MELLIGAN H.M.P.M. COMNAV EX-104

COLORED PEOPLE - TEXAS STATE HIGH SCHOOL

Compañía Mexicana de Producción Compañía, Inc. Address Box 170, P.O. Box 170, New Mexico

## FOCALTE METT CORRECTIA



LOU 2-330

LOG OF OIL OR GAS WELL

ГЕОЛОГИЧ. СЛОВАРЬ

DEPARTMENT OF THE INTERIOR

MAILLED STYLES

КТО-ТО С

PAUSE OR RETURN TO PROSPECT -----

2025 RELEASE UNDER E.O. 14176

THE CLONES

705007 66p68 15 31-50  
10464 100% 01 20 15 17604



IV-12034.5

[illegible]

101 Heaving plug—Material ..... Length ..... Depth set .....  
Adapters—Material ..... Size .....

ACIDIZING ~~SHOOTING~~ RECORD

Size	Shell used	Acid used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	400 gal	5-22-47	Wash	(1 stage)
		20% HCl	9050 gal	5-23 to		
				5-31-47	3216-95	(5 stages)
		20% HCl	2000 gal	6-2-47	3170-3216	(1 stage)

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet  
Cable tools were used from ..... 0 ..... feet to ..... 3285 ..... feet, and from ..... feet to ..... feet

DATES

....., 19..... Put to producing ..... June 3 ..... 19.47.

The production for the first 24 hours was ..... 48 ..... barrels of fluid of which ..... 100% was oil; ..... 0 %  
emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. ....

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. ....

EMPLOYEES

Oscar Burch ..... Driller Don Thorp ..... Driller  
C. A. Pyatt ..... Driller Max Stephen ..... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20		Sand an Caliche
20	75		Red Shale
75	110		Sand
33 110	120		Gravel
31 120	35 125		Red Bed
30 125	37 130		White Bed
30 130	30 135		Sand
30 135	30 140		Sand and Red Bed
30 140	30 145		Anhydrite
30 145	30 150		Red Bed and Gyp
30 150	30 155		Red Bed
30 155	30 160		Anhydrite
30 160	30 165		Red Bed and Shale
30 165	30 170		Salt
30 170	30 175		Anhydrite
30 175	30 180		Broken Anhydrite
30 180	30 185		Anhydrite
30 185	30 190		Anhydrite and Red Bed
30 190	30 195		Anhydrite and Red Shale
30 195	30 200		Anhydrite and Red Bed
30 200	30 205		Red Sandy Shale
30 205	30 210		Anhydrite and Red Bed
30 210	30 215		Red Sand
30 215	30 220		Anhydrite
30 220	30 225		Anhydrite and Red Rock
30 225	30 230		Anhydrite and Red Bed
30 230	30 235		Lime

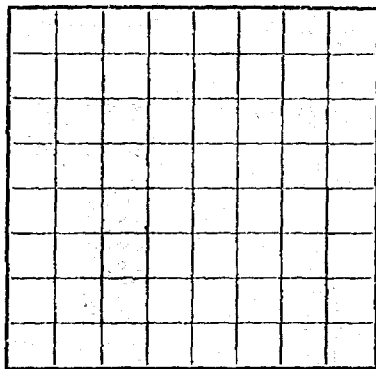
AT THE END OF COMPLETE DRILLERS  
LOG, ADD CIRCULAR STATE  
WHENEVER

(OVER)  
FORMATION RECORD—Continued

## EXHIBIT 2

Budget Bureau No. 12-R355.4  
Approval expires 12-31-60.

Form 9-330



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las Cruces  
SERIAL NUMBER 028784-c  
LEASE OR PERMIT TO PROSPECT .....

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Keely C

## LOG OF OIL OR GAS WELL

Company Western Production Company, Inc. Address Box 416, Loco Hills, New Mexico  
Lessor or Tract Keely C Field Grayburg-Jackson State New Mexico  
Well No. 25 Sec. 25 T. 17S R. 29E Meridian N.M.P.M. County Eddy  
Location 660 ft. (N.) of S. Line and 1980 ft. (EX) of E. Line of Section 25 Elevation 3582'  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date June 10, 1947 Title .....

The summary on this page is for the condition of the well at above date.

Commenced drilling April 4, 1947 Finished drilling May 21, 1947.

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from G 1672 to ..... No. 4, from Q 2775 to 2780  
No. 2, from Q 2650 to 2668 No. 5, from Q 3153 to 3163  
No. 3, from Q 2678 to 2689 No. 6, from Q 3182 to 3191 (1st Pay)  
Q 3240 3295 (2nd Pay)

## IMPORTANT WATER SANDS

No. 1, from 345 to ..... No. 3, from ..... to .....  
No. 2, from ..... to ..... No. 4, from ..... to .....

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8"	121.5	4	Halliburton	50	Guide	Surface			Salt String
7"	91.7	4	Halliburton	125	Float	Surface			Oil String
HISTORICAL RECORD OF OIL OR GAS WELLS									
10-2305-F-5 0' 25' 25' 25' 25' 25' 25' 25' 25' 25'									

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	513	50	Halliburton	Heavy	
7"	3170	125	Halliburton	Heavy	

## PLUGS AND ADAPTERS

D MARK

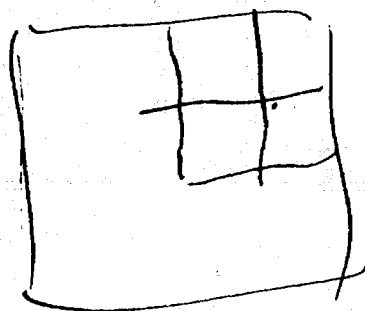
General American Oil Company of Texas  
Keely B No. 13

1345' from North line and 1295' from East line of Section 26, Township  
17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.

Present Status: T.D. 5076', P.B. 3050'. 10 3/4" OD casing from surface  
to 910', cement circulated. 7" OD casing from surface  
to 2820', cemented with 210 sacks cement, and from 3020'  
to 3420', cemented with 125 sacks.

Geologic Tops: Elevation - 3588'  
Top Salt - 375' (Smpls.)  
Base Salt - 782' (Smpls.)  
Top Yates - 955' (Smpls.)  
Top Queen - 1878' (RA Log)  
Top Grayburg - 2222' (Smpls.)  
Top San Andres - 2613' (RA Log)  
Top Glorieta - 4150' (Smpls.)

Proposed Conversion Program: We propose to drill out cement plug to 3537',  
test Grayburg-Keely Zone, stimulate if necessary, set  
drillable packer in 7" casing at 3400'. run internally  
plastic-coated tubing and commence injecting water into  
Grayburg-Keely Zone. Injection water will be produced  
from Pennsylvanian formation from 9265' to 9299' in  
water supply well. Injection volumes are expected to  
be from 500 to 1000 barrels water per day.



BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	4
CASE NO.	2639

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 2639  
Order No. R-2327

APPLICATION OF GENERAL AMERICAN OIL  
COMPANY OF TEXAS FOR APPROVAL OF A  
WATERFLOOD PROJECT, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on September 11, 1962, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 3rd day of October, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, General American Oil Company of Texas, is the operator of Sections 23 and 26, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.
- (3) That the applicant requests approval of a pilot waterflood project in the Grayburg-Jackson Pool on the above-described lands with the injection of water into the Grayburg-Keely zone of the San Andres formation through its Keely "B" Well No. 13, located in Unit B, Section 26, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.
- (4) That the wells in the proposed project area are in an advanced stage of depletion and should be classified as "stripper" wells.
- (5) That approval of the subject application should result in the recovery of oil which otherwise might not be recovered,

-2-

CASE No. 2639  
Order No. R-2327

and will neither cause waste nor impair correlative rights; provided, however, that unless agreed to by all parties, the transfer of allowables across lease lines where royalty ownership is diverse should not be authorized.

IT IS THEREFORE ORDERED:

(1) That the applicant, General American Oil Company of Texas, is hereby authorized to institute a pilot waterflood project in the Grayburg-Keely zone of the San Andres formation in the Grayburg-Jackson Pool by the injection of water through its Keely "B" Well No. 13, located 1345 feet from the North line and 1295 feet from the East line of Section 26, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.

(2) That the waterflood project shall be governed by Rule 701 including the allowable provisions thereof.

PROVIDED HOWEVER, That unless otherwise agreed to by all parties and evidence thereof furnished the Commission, the transfer of allowables within the project area of this waterflood shall be authorized only insofar as the transfer is made between wells having common royalty ownership.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

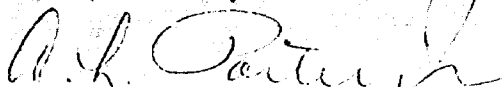
STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



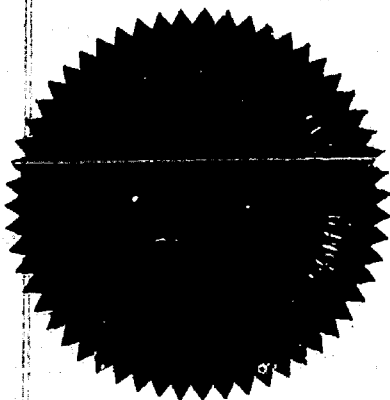
EDWIN L. MECHEM, Chairman



E. S. WALKER, Member



A. L. PORTER, Jr., Member & Secretary



esr/

JACK M. CAMPBELL  
JOHN F. RUSSELL

LAW OFFICES OF  
**CAMPBELL & RUSSELL**  
SUITE 1010 SECURITY NATIONAL BANK BUILDING  
P. O. DRAWER 640  
ROSWELL, NEW MEXICO

TELEPHONE 622-4641  
AREA CODE 505

August 31, 1962

01

Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

RE; Case Number 2639

Gentlemen:

We transmit herewith in triplicate the application of General  
American Oil Company of Texas for a pilot waterflood project.

Very truly yours,

CAMPBELL & RUSSELL

*John F. Russell*  
John F. Russell

JFR:sah

Encl.

cc: State Engineer

LOCATOR & CO  
10715-10C  
C-1371

NASH, WINSTON & BROWN  
ORDER NO. 1-8  
10715-10C  
C-1371

PLATE AND CO  
ORDER NO. 1-8  
10715-10C  
C-1371

REXCO OIL CO  
ORDER NO. 1-8  
10715-10C  
C-1371

REXCO OIL CO  
ORDER NO. 2-8  
10715-10C  
C-1371

R. M. WOOLLEY  
ORDER NO. 2-8  
10715-10C  
C-1371

W. F. DODGE  
ORDER NO. 2-8  
10715-10C  
C-1371

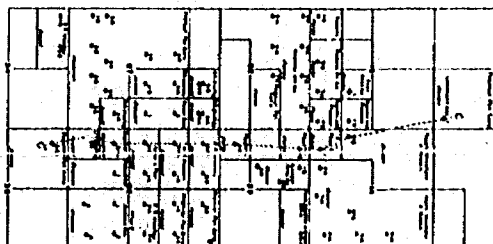
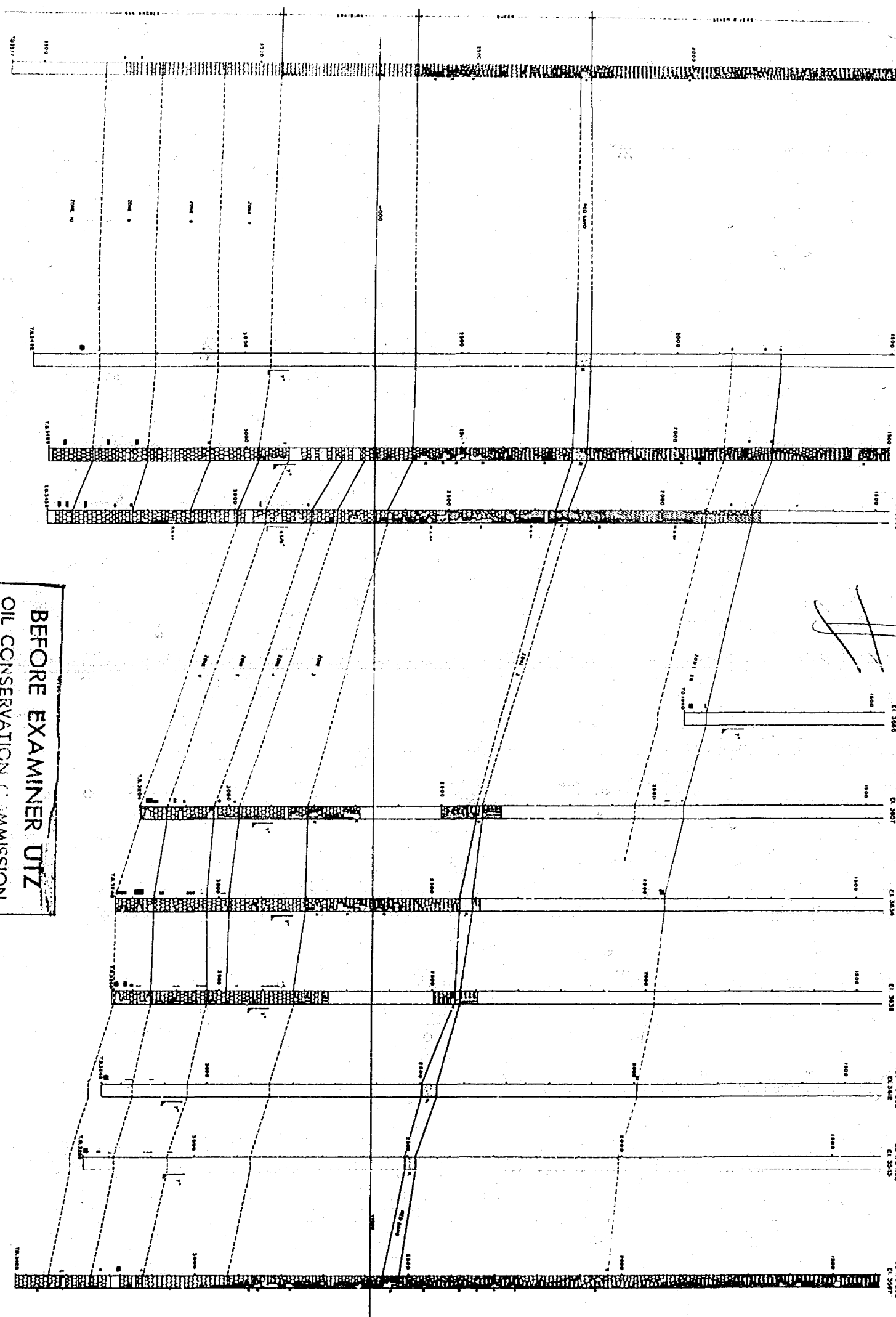
ATON & FINE  
ORDER NO. 2-1  
10715-10C  
C-1371

PREMIER PET CORP  
ORDER NO. 8-9  
10715-10C  
C-1371

R. M. WOOLLEY  
ORDER NO. 2-8  
10715-10C  
C-1371

PREMIER PET CORP  
ORDER NO. 8-9  
10715-10C  
C-1371

SOUTH



BEFORE EXAMINER DTZ  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. 7  
CASE NO. 1806

CROSS SECTION C-C  
GRAYBURN-JACKSON AND PREMIER FIELDS  
COY COUNTY, NEW MEXICO

EXHIBIT NO. 7



incorp. record in  
Case 1787

Same expenses as  
back expense record.  
drill add. injec. wells.

LEASE	WELL NO.	LOCATION	ELEVATION	STATUS	MAY 1959		COMPLETION DATE	INITIAL POTENTIAL		SURF	CASING	OIL	TOTAL DEPTH	DATE	TYPE	AMOUNT
					CAPACITY BBL/MO.	GRAY. OIL		BEFORE SHOT OIL/WATER	AFTER OIL/WATER							
STEVENS	1-B	J-26-17-30	3580	PUMPING	80	35	9/11/42	75/	75/	8-5/8/525/50SX	7/2932/100SX		3295	9/14/42	NITRO FRAC	90 @ 10 M
STEVENS	2-B	I-26-17-30	3559	PUMPING	77	35	4/29/43	100/	250/	7/552/50SX	5-4/2915/100SX		3282	5/4/43	NITRO FRAC	50 @ 10 M
STEVENS	3-B	L-26-17-30	3545	PUMPING	50	35	7/30/43	8/	50/	8-5/8/541/50SX	5-4/2998/100SX		3291	7/31/43	NITRO	180 @
STEVENS	4-B	P-26-17-30	3535	P&A (Dry Hole)		-	6/11/44	0/	0/	8-5/8/ /50SX	-		3750	6/15/44	NITRO	200 @
STEVENS	5-B	L-25-17-30	3568	PUMPING	50	35	10/12/43		225/	8-5/8/556/50SX	7/3111/100SX		3300	10/16/43	NITRO	120 @
STEVENS	6-B	K-25-17-30	3567	PUMPING	76	35	3/9/44	100/	200/	8-5/8/520/50SX	5-4/3171/100SX		3290	3/11/44	NITRO FRAC	140 @ 10 M
STEVENS	7-B	M-25-17-30	3542	PUMPING	50	35	12/29/43		60/	8-5/8/547/50SX	7/3136/100SX		3311	1/2/44	NITRO	60 @
STEVENS	8-B	N-25-17-30	3552	P&A (8/15/51)	-	-	8/7/44	49/21		8-5/8/550/50SX	5-4/2950/100SX		3341			
ARNOLD	1	F-26-17-30	3645	T.A.	68	35	9/27/42		300/	8-5/8/534/50SX	7/2975/100SX		3302	11/6/42	NITRO	180
ARNOLD	2	E-26-17-30	3638	PUMPING	176	35	9/24/42	75/	250/	8-5/8/530/50SX	7/2932/100SX		3249	11/12/55	NITRO FRAC	200 @ 10 M
BRIHAM	1	K-26-17-30	3602	T.A.	-	-	3/14/42	59/	250/	8-5/8/580/50SX	7/2833/100SX		3264	3/16/42	NITRO	50 @

Washing casing?

no oil in  
hydro pool!

Apert loss bbl per acre foot on standard

STIMULATION

WELL DATA				
IT	DEPTH AND RESULTS	CUMULATIVE PRODUCTION TO 1-1-58	GEOLOGIC DATA	
			TOP GRAYBURG	ZONES PRODUCING TOP ZONE & THICKNESS
15.	3262-3295 2 B/D TO 32 B/D TO 6 B/D JULY 56	44552	2907	6 3274(11)
15.	3266-82 2 B/D TO 40 B/D TO 6 B/D JAN. 57	37602	2890	6 3264(9)
15.	3206-88	28891	2860	6 3270(12)
15.	3240-3290	-	2890	
15.	3205-3255	40560	2880	6 BKN 3213(37)
15.	3235-86 3 B/D TO 40 B/D TO 5 B/D JAN. 57	38629	2885	6 3242(6) BKN 3267(8)
15.	3282-3305	33710	2910	6 3293(14)
		20953	2935	6 3324(8) W 3334(5)
015.	3199-3276	28630	2825	6 3215(7) 3235(7)
015.	3170-3250 2 B/D TO 40 B/D	35039	2850	6 3230(4) BKN 3254(17)
15.	3235-64	19660	2885	6 3253(10)

TABLE NO. 4

EX. 8

EXHIBIT 3

General American Oil Company of Texas  
Keely B No. 13

1345' from North line and 1295' from East line of Section 26, Township  
17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.

Present Status: T.D. 5076', P.B. 3050'. 10 3/4" OD casing from surface  
to 910', cement circulated, 7" OD casing from surface  
to 2820', cemented with 210 sacks cement, and from 3020'  
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plastic-coated tubing and commence injecting water into  
Grayburg-Keely Zone. Injection water will be produced  
from Pennsylvanian formation from 9265' to 9299' in  
water supply well. Injection volumes are expected to  
be from 500 to 1000 barrels water per day.

BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

September 11, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of General American Oil  
Company of Texas for a waterflood  
project, Eddy County, New Mexico.  
Applicant, in the above-styled cause,  
seeks approval of a pilot waterflood  
project in the Upper San Andres  
formation, Grayburg-Jackson Pool,  
Eddy County, New Mexico, by the  
injection of water into its Keeley  
"B" Well No. 13, located in Unit H,  
Section 26, Township 17 South, Range  
29 East.

CASE NO. 2639

BEFORE:

Elvis A. Utz, Examiner

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691



TRANSCRIPT OF HEARING

MR. UTZ: Case Number 2639.

MR. DURRETT: Application of General American Oil Company of Texas for a waterflood project, Eddy County, New Mexico.

MR. RUSSELL: John F. Russell, Campbell & Russell, Roswell, New Mexico, appearing on behalf of the Applicant and we have one witness. May the record show he was sworn on the previous case?

MR. UTZ: The record will so show.

RAYMOND MILLER

called as a witness herein, having been first duly sworn on oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. RUSSELL:

Q Would you please state your name, address, employer and in what capacity you are employed?

A Raymond Miller, Artesia, New Mexico. General American Oil Company of Texas, I am the New Mexico District Engineer.

Q You have previously qualified to testify before this Commission?

A I have.

Q Are you acquainted with the Application in Case Number 2639?

A I am.

Q Will you briefly state to the Examiner what you seek by

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that Application?

A This is a test to continue to illustrate the injectivity that we are asking for permission of the Commission, We are asking for approval of a one well pilot and we propose to determine the feasible injection rates and pressures and to see if there might be a possibility of an early breakthrough of water in this formation. If there is, of course it would not encourage further future development of the flood.

Q If this pilot well proves the feasibility of the flood, what would the next step be?

A We would expand into a pilot of a more normal matter and pattern for a pilot. And we would produce the producing wells in accordance with Rule 701 of the Commission.

Q And the proposed project to a regular pilot project would be within the sections covered and proper, would it not?

A Yes, sir, it would.

(Whereupon Applicant's Exhibit No. 1 was marked for identification.)

Q I now show you what has been marked as Applicant's Exhibit No. 1 and referring you to that, would you explain what that reflects?

A That is a plat of portions of Township 17 and 18 South, Ranges 29 and 30 East. It shows the location of the proposed injection well, our Keeley "B" No. 13 and shows the location of all wells within a two-mile radius and the formation or formations from

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which they are produced or have produced.

Q It also shows the leases within a radius of two miles, does it not?

A Yes, it does.

Q Will you give the location of the proposed injection well?

A It's located 1345 from the north line, 1295 from the east line.

Q Of what section?

A Of Section 26, Township 17 South, Range 29 East.

Q And what is the name of the well?

A Keeley "B" No. 13.

Q What is the history of production of these wells within the areas covered within and by your Application?

A I have another map which is perhaps a little plainer.

(Whereupon Applicant's Exhibit No. 2 was marked for identification.)

Q Before referring to Exhibit 2, is the area covered by the Application herein a federal unit?

A It is.

Q And have you prepared an exhibit reflecting that and purporting to be the area in that unit?

A I have.

Q Referring to that, Exhibit No. 2, I will ask you if that is the exhibit?

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A Yes, it is.

Q Will you please explain to the Examiner what is covered by that exhibit?

A The Grayburg Cooperative and Unit Agreement and this particular area that is colored in red on it is the participating area for the Grayburg-Keeley zone, completely unitized under the above agreement. Under this plat, are shown all the wells that have produced or are producing from this Grayburg-Keeley zone and--

Q In the event this well is approved and the pilot project is successful, will the area shown as participating areas participate in production from the flood project?

A It will, yes, sir.

Q Is the well located on participating acreage?

A Immediately adjacent to it there is some participating acreage and the USGS has assured us they will approve this well as an injection without enlarging the participating area for the unit.

(Whereupon Applicant's Exhibit No. 3 was marked for identification.)

Q Now, referring you to Exhibit 3, what is that?

A That is a log of the well as filed with the USGS upon exception of the well. It shows the casing program and also the formations encountered during its--the drilling of the well.

(Whereupon Applicant's Exhibit No. 4 was marked for identification.)

Q I will refer you to what has been marked Exhibit No. 4 and ask you what that is?





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A That is a status sheet showing the location of the proposed injection well, the present status, the geologic tops and the proposed conversion program.

Q Will you briefly give a resume of the casing program?

A This well was originally drilled for 5,076 and it's now plugged back to 3,050 with seven inch casing set from the surface to 2,820 with 210 sacks of cement and is in the hole from 3,020 to 2,420 of the cemented area with 125 sacks of cement. When this pipe was originally run, it was run to 3,420 and we attempted to complete this well in Grayburg-Keeley zone and after acidization the well provided a proposal of normal-commercial in the Grayburg-Keeley zone with 90% water producing. At that time, we received permission from the USGS to fract seven inch casing over at 3,020 and we pulled back to 2,820 and cemented it to that point so in effect, we have an open hole from 2,820 to 3,020 with seven inch casing above that to the surface and seven inch casing from 3,020 to 2,420 and we propose possibly to drill out the cement plug and to plug back to a depth of 3,507. We will then test the Grayburg-Keeley zone as designated or fracture it and set pipe and drill a volpacker in the seven inch casing at 1400 feet and run internal plastic coated tubing and start injecting water in the Grayburg-Keeley zone.

Q Referring back to Exhibit No. 4, what is the average production of the wells in that producing area?

A Their average is 9.2 barrels per well per day.



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Q At the present time?

A Yes, sir.

Q What is the source of water you intend to use for the injection?

A It's from the ~~the~~ <sup>the</sup> ~~and~~ and Pan American formations we developed for use in another waterflood project in the area. It is from 9,265 to 9,299.

Q You have previously authorized the injection of that water for another project?

A Yes, sir.

Q After ~~Mr.~~ <sup>Mr.</sup> ~~of~~ of the State Engineer's Office, Mr. ~~Mr.~~ <sup>Mr.</sup> and yourself have a copy of the water analysis?

A I will explain that, yes, sir.

Q And now, what formations and what depth do you propose to flood?

A What is known locally as the Grayburg-Keeley zone. It's in this particular well. It occurred at a depth from 3,450 to 3,530.

Q Were Exhibits 1, 2, 3, and 4 prepared by you and under your supervision?

A Yes, sir.

MR. RUSSELL: We will offer them in evidence.

MR. UTZ: Without objection, Exhibits 1 through 4 will be entered in the record.

(Whereupon Applicant's Exhibits No.



1, 2, 3 and 4 were admitted in evidence.)

Q (By Mr. Russell) Do you have any further exhibits?

A I do have a radioactivity log. I have two copies of this particular exhibit.

(Whereupon Applicant's Exhibit No. 5 was marked for identification.)

Q Referring to what has been marked Exhibit 5, will you identify that?

A Yes, sir. That is a radioactivity log run on this well when it was originally drilled in 1947.

Q Is there any specific information reflected that you would like to call to the Examiner's attention?

A Nothing in particular. It's an old lithology gamma-ray and is reflected quite well, I believe.

Q Was that prepared by you or under your direction?

A It was run by the service company.

Q That is a true copy?

A Yes, sir, it is.

MR. RUSSELL: I would like to offer Exhibit No. 5.

MR. UTZ: Without objection, it will be entered.

(Whereupon Applicant's Exhibit No. 5 was admitted in evidence.)

MR. RUSSELL: Do you anything further in connection with this Application that you would like to state at this time, Mr. Miller?

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PHONE 243-6695

A No, sir.

MR. RUSSELL: This consists of our direct, Mr. Examiner.

MR. UTZ: All right.

CROSS EXAMINATION

BY MR. UTZ:

Q You said the average production of all wells in the unit was 9.2 barrels?

A Yes, sir.

Q What is the range, do you have that?

A That is--Yes, sir. I have. If you would like it, I have a production history showing the decline by years and the average per well per day and also a record showing it on our latest for July, 1962, average. The greatest production of one well, one well makes 28.7 per day and the smallest is 5.0 barrels per day.

Q It's just one well that makes that much?

A Yes, sir.

Q What well?

A The Bisch "B" No. 4, I might add that there are two zones open in it up in the Grayburg-Kealey zone which would not obtain flooding in this case and that is the case, more than the other wells,--

Q The next highest production is what?

A 12.8 barrels per day.

Q If this injection experiment is successful, you do in-



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PHONE 243 6691

tend to go ahead and develop this unit?

A We do. We have had meetings with the off-set operators and have some things going that are trying to work out cooperative flood with them in the event that this injectivity test is successful.

Q How long do you think it would probably take you to make the determination?

A I think that we shall be, if we have poor results from the injections, it wouldn't take very long. If we have an early breakthrough of water or something like that, but it would probably take at least six months before we could be satisfied it was a successful injectivity test.

Q An order for a year's period should give you ample time, shouldn't it?

A I think so, if we could, if possible, if we could have it extended, if it was not determined at that time, that should give us ample time, yes, sir.

Q What is the location of your water source well?

A It's located 660 from the south line and 560 from the west line of Section 24, Township 17 South, Range 29 East. It was originally drilled to the Ellenburger, 13,341 feet.

Q And that is fresh water?

A No. It's not fresh water, but it contains some hydrogen sulfide and the specific gravity is 1.04, but it does have hydrogen



sulfide in it and it is corrosive.

MR. UTZ: Are there any other questions of the witness?  
The witness may be excused. Are there other statements in this case?

MR. RUSSELL: I would like to make a short statement and have it incorporated in this and have it applied to both of them at the end of the next case.

MR. UTZ: We will take the case under advisement.

\* \* \*

DEARNLEY-MEIER REPORTING SERVICE, Inc.

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PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691



STATE OF NEW MEXICO }  
COUNTY OF BERNALILLO } ss.

I, Michael Rice, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in Stenotype and reduced to typewritten transcript under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal this, the 11th day of October, 1962, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Michael Rice  
Notary Public

My Commission Expires:

May 11, 1966

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2639 heard by me on 9-11, 1962.  
James A. [Signature] Examiner  
New Mexico Oil Conservation Commission

DEARNLEY-MEIER REPORTING SERVICE, Inc.

ALBUQUERQUE, N. M.  
PHONE 243-6691

FARMINGTON, N. M.  
PHONE 325-1182

