GENERAL AMERICAN OIL COMPANY OF TEXAS

DISTRICT OFFICE
BOX 432
LOCO HILLS, NEW MEXICO

December 17, 1964

Mr. A. L. Porter
Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Dear Sir:

Pursuant to Section 5 of Rule 701-E, General American Oil Company of Texas hereby makes application for administrative approval to convert its Keely C No. 37 well to water injection. This well is within the boundaries of an injection project approved by Commission Order No. R-2324 on October 3, 1962.

Pertinent data concerning Keely C No. 37 is as follows:

General American Oil Company of Texas Keely C #37 located 1295 feet from the South Line and 2615 feet from the East Line of Section 25, Township 17 South, Range 29 East, N. M. P. M., Eddy County, New Mexico. This well was completed in the Grayburg-Jackson formation and put on production August 29, 1950. To date this well has made 38,576 barrels of oil.

Water will be injected into the open hole interval from 3069 to 3228. The water injected will be purchased from the Caprock Water Company and will be fresh water from their Red Lake Basin area, however the water is not potable. The volume to be injected should not exceed 1000 barrels per day.

Keely C #37 began receiving response in April, 1964 when its fluid level began to rise after being shut in since mid 1963. By July, 1964 the fluid level was at the surface and the well had to be capped. Currently the well is carrying a shut in pressure of 350# and the fluid is all water.

Enclosed herewith are the following as required by Rule 701:

1. Plat depicting location of Keely C #37 and all wells within a radius of two miles showing the formation from which they are producing or have produced.

2. Forms C-116 listing test before and after response.

3. Well record on Keely C #37 showing all formations encountered, casing strings, etc.

4. Schematic diagram of Keely C #37 showing casing strings, cement tops, approximate packer setting, etc.

A Copy of this application along with all enclosures is being sent to the office of the State Engineer. Since there is current injection into Keely C #25 and since there are no direct offset operators no outside operators are being notified.

Respectfully submitted

GENERAL AMERICAN OIL COMPANY OF TEXAS

By: R. J. Heard

R. J. Heard
District Superintendent

RJH/rlc
Enclosures

Form C- 116
Revised (12/1/55

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR General American Oil Company of Texas POOL Grayburg-Jackson

ADDRESS P. O. Box 416, Loco Hills, New Mexico MONTH OF , 19 64

SCHEDULED TEST ..... COMPLETION TEST ..... SPECIAL TEST X (Check One)

(See Instructions on Reverse Side)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
Keely C	37	4-11-63	Pump		24		0	2		
		5-4-63	Pump		24		13	12		
		5-18-63	Pump		24		12	3		
		6-63	Shut-in							
		1-64	Fluid Level		2320 feet					
		7-64	Fluid Level		Surface					
		12-64	Fluid Level		Surface Pressure 350#					

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date .....

General American Oil Company of Texas
Company

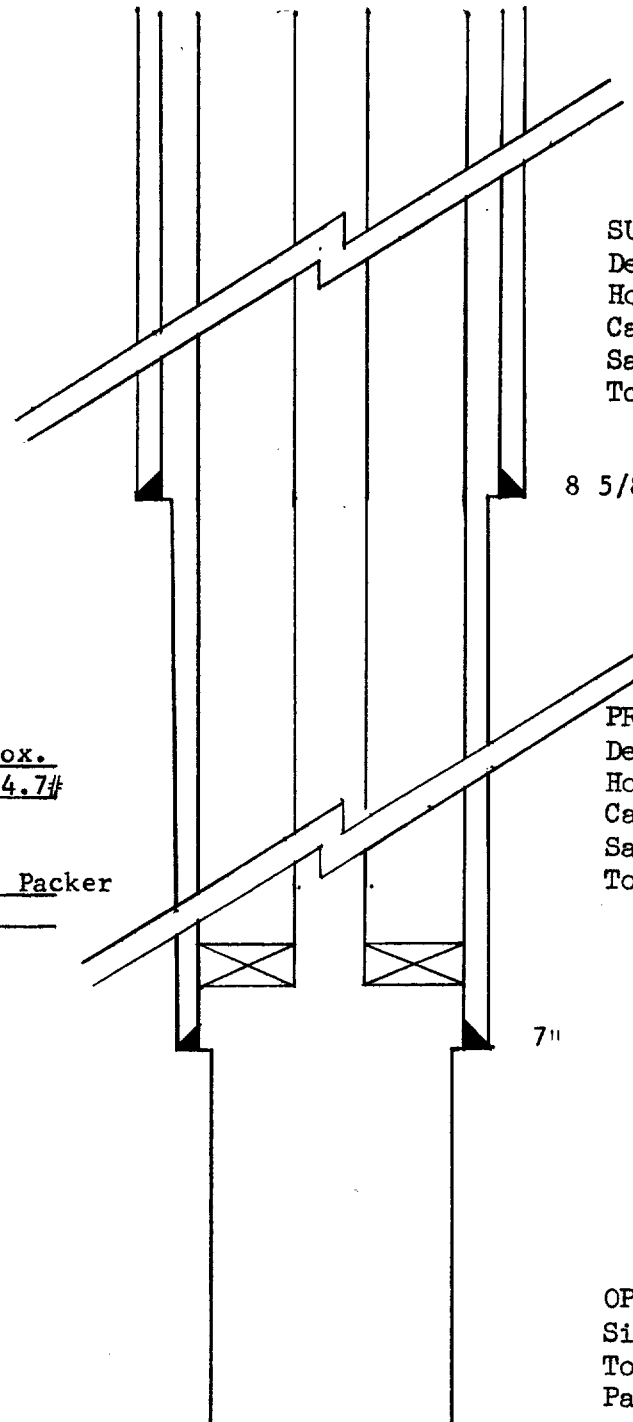
By R. J. Heard

R. J. Heard

District Superintendent
Title

GENERAL AMERICAN OIL COMPANY OF TEXAS
SCHEMATIC DIAGRAM OF
PROPOSED INJECTION WELL

Lease and Well No.: Keely C #37
Location: 1295 feet from South line and
2615 feet from East line of
Section 25 TWP 17-S RGE 29-E
N.M.P.M. Eddy County, New Mexico



SURFACE CASING
Depth Set: 485'
Hole Size: 10"
Casing Size & Wt.: 8 5/8" 24 + 28#
Sacks Cement: 75
Top of Cement: 75' Approx.

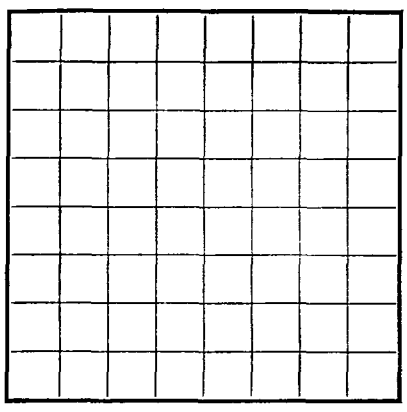
TUBING
Depth Set: 3020' approx.
Size, Wt. & Type: 2" EUE 4.7#

PACKER
Make & Type: Totem Tension Packer
Depth Set: 3020' approx.

PRODUCTION CASING
Depth Set: 3069'
Hole Size: 8"
Casing Size & Wt.: 7" 20#
Sacks Cement: 100
Top of Cement: 2150' approx.

OPEN HOLE
Size: 6"
Total Depth: 3228'
Pay Zone: 3188-3228'

Form 9-330



LOCATE WELL CORRECTLY

ILLEGIBLE

Form approved.
Budget Bureau No. 42-R355.4.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 028784 (c)
LEASE OR PERMIT TO PROSPECT Keely C

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.

Lessor or Tract Keely C Field Grayburg-Jackson State New Mexico

Well No. 37 Sec. 25 T. 17S R. 29E Meridian N.M.P.M. County Eddy

Location 1295 ft. {N. / S.} of S Line and 2615 ft. {E. / W.} of E Line of Section 25 Elevation 3585'
(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 R. J. Heard

Date December 17, 1964 Title District Superintendent

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

Commenced drilling July 20, 1950 Finished drilling August 27, 1950

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1405 to 1414 No. 4, from 2646 to 2656

No. 2, from 1643 (g) to ____ No. 5, from 3150 to 3154

No. 3, from 2626 to 2635 No. 6, from 3156 to 3157
3188 3193
3213 3228

IMPORTANT WATER SANDS

No. 1, from 313 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 From—	Perforated To—	Purpose
8-5/8"	28#	8rd	Texas Pipe	485'	Texas Pipe				Surface Casing
7"	20#	8rd	Natl	3066'	Float				Production Casing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	485'	50	Pump & Plug	Heavy	To Surface
7"	3069'	100	Pump & Plug	Heavy	To Surface

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

ACIDIZING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Chemical			Treated	
		20% HCl	500 gal	8-28-50	(Wash)	
		20% HCl	1670 gal	8-28-50	3111-3228'	
		20% HCL	3500 gal	8-29-50	3069-3228'	

TOOLS USED

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

Cable tools were used from 0 feet to 3228 feet, and from ____ feet to ____ feet

DATES

December 17, 1964 Put to producing August 29, 1950

The production for the first 24 hours was 265 barrels of fluid of which 100 % was oil; ____ % emulsion; ____ % water; and ____ % sediment.

Gravity, Bé. 37° API

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

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

Harlan Johnson, Driller Clay Rook, Driller

L. W. Ledbetter, Driller Don T. Thorp, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	25	25	Cellar
25	105	100	Sand & Red Mud
105	200	95	Red Bed & Sand
200	300	100	Anhy & Gyp
300	370	70	Red Bed
370	385	15	Gyp
385	415	30	Red Bed
415	445	30	Red Bed & Gyp
445	472	27	Salt
472	480	8	Gyp
480	890	410	Salt
890	910	20	Anhy
910	960	50	Anhy & Red Shale
960	1050	90	Anhy
1050	1260	210	Anhy & Red Shale
1260	1365	105	Broken Anhy
1365	1710	345	Anhy & Red Shale
1710	2040	330	Anhy
2040	2185	145	Anhy & Shale
2185	2545	360	Anhy
2545	2990	445	Anhy & Red Sandy Shale
2990	3205	215	Anhy
3205	3229	24	Gyp
1999	2010	11	Anhy
2010	2045	35	Anhy & Shale

(OVER)

16—43094-5

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	25	Broken Anhy
[illegible]	[illegible]	30	Red Sand
[illegible]	[illegible]	140	Anhy
[illegible]	[illegible]	30	Anhy & Shale
[illegible]	[illegible]	48	Anhy
[illegible]	[illegible]	12	Gray Sandy Lime
[illegible]	[illegible]	30	Anhy & Red Rock
[illegible]	[illegible]	65	Anhy & Sandy Shale
[illegible]	[illegible]	25	Lime
[illegible]	[illegible]	20	Lime, Anhy & Red Shale
[illegible]	[illegible]	25	Broken Gray Lime
[illegible]	[illegible]	90	Gray Lime
[illegible]	[illegible]	25	Gray Sandy Lime
[illegible]	[illegible]	75	Gray Lime
[illegible]	[illegible]	40	Gray Sandy Lime
[illegible]	[illegible]	20	Gray Lime
[illegible]	[illegible]	44	Pink Lime
[illegible]	[illegible]	21	Gray Lime
[illegible]	[illegible]	10	White Lime
[illegible]	[illegible]	12	Gray Lime
[illegible]	[illegible]	40	Pink Lime
[illegible]	[illegible]	78	White Lime
2950	2965	15	Gray Lime
2965	2980	15	White Lime
2980	2995	15	Gray Lime
2995	3015	20	Gray Sandy Lime
3015	3027	12	Gray Lime
3027	3036	9	SLM
3036	3055	19	Gray Lime
3055	3066	11	White Lime
3066	3069	3	SLM
3069	3083	14	Gray Lime
3083	3088	5	Gray Lime & Blue Shale
3088	3219	131	Gray Lime
3219	3223	4	SLM
3223	3228	5	Gray Lime

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.

16—48094-2 U. S. GOVERNMENT PRINTING OFFICE

December 17, 1964

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

Dear Sir:

Attached is a copy of the application which General American Oil Company of Texas has filed with the New Mexico Oil Conservation Commission requesting administrative approval for the conversion of its Keely C No. 37 well to water injection.

We have enclosed copies of all exhibits furnished the Commission in support of our request. If any additional data is required please let us know.

If your office has no objection to the conversion of this well please so notify the Commission.

Very truly yours,

GENERAL AMERICAN OIL COMPANY OF TEXAS

By: R. J. Heard
R. J. Heard
District Superintendent

RJH/rlc
Encls.

December 17, 1954

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

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If your office has no objection to the conversion of this well please so notify the Commission.

Very truly yours,

GENERAL AMERICAN OIL COMPANY OF TEXAS

By: R. J. Mecca
District Superintendent

RJM/vlc
Encls.

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

December 30, 1964

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of General American Oil Company of Texas which seeks administrative approval to converts its Keely C No. 37 well in the Northeast Loco Hills Cooperative Flood to water injection. The data set forth on the diagrammatic sketch of the proposed injection well gives the top of the cement surrounding the 7 inch casing and the setting of the tension packer on the 2 inch tubing at approximate levels.

It appears that no threat of contamination to the fresh waters which may exist in the area will occur, provided the packer on the end of the tubing is set well below the top of the cement surrounding the 7 inch casing. Therefore, this office offers no objection to the granting of the application if the tubing and packer are set as provided above.

Yours truly,

S. E. Reynolds
State Engineer

By Frank E. Irby
Frank E. Irby
Chief
Water Rights Div.

FEI/ma
cc-General Amer. Oil Co. of Tex.
F. H. Hennighausen

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE