

KEWANEE OIL COMPANY  
P. O. Box 3786  
Odessa, Texas 79760

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WFX-344

Due July 21

July 2, 1970

APPLICATION OF KEWANEE OIL COMPANY  
FOR APPROVAL TO EXPAND A WATERFLOOD PROJECT  
ATOKA GRAYBURG POOL, EDDY COUNTY, NEW MEXICO

Kewanee Oil Company applies to the New Mexico Oil Conservation Commission for permission to expand the waterflood project in the Atoka Grayburg Unit, Atoka Grayburg Pool, by injecting water into Atoka Grayburg Unit, Tract 2, Well No. 10, in Section 14, T18S, R26E, Eddy County, New Mexico, and in support of its application states:

1. Applicant is the operator of the Atoka Grayburg Unit comprising the NE/4 NE/4, S/2 NE/4 and N/2 SE/4 Section 14, and NW/4, W/2 NE/4, N/2 SW/4, and NW/4 SE/4 Section 13, T18S, R26E, Eddy County, New Mexico.
2. The waterflood project on the above described Unit was approved by the Commission on the 16th day of August, 1965, by Order No. R-2954.
3. Wells producing from the Grayburg formation on the above described lease have experienced substantial stimulation from the water injection project.
4. Applicant proposes to convert Atoka Grayburg Unit, Tract 2, Well No. 10, from oil producing status to water injection status. Subject well is located 990' FNL & 330' FEL, Unit A, Section 14, T18S, R26E, Eddy County, New Mexico.
5. The conversion of Tract 2, Well No. 10 to water injection should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
6. The east offset producing well, Tract 2, Well No. 12, has received substantial stimulation resulting from water injection as evidenced by well tests on the attached Form C-116.
7. Approximately 51,532 barrels of additional oil has been recovered to 6-1-70 as a result of injecting a cumulative of 305,777 barrels of water.
8. Approximately 150 barrels per day of fresh water will be injected into the Grayburg formation through Well No. 10, from 950' to 965'. Water will be purchased from Mr. Donald Fanning and will be diverted from agricultural use.

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9. Attached to and made a part of this application are the following:
  - A. Plat showing the location of the Unit Area and the producing and injection wells thereon.
  - B. Log of proposed injection well, Tract 2, Well No. 10.
  - C. Diagrammatic sketch of the proposed injection well and data sheet showing all pertinent information.
  - D. Commission Form C-116 showing production tests of east offset producing well to proposed injection well.
  - E. Graph of oil production, water production and water injection from the Atoka Grayburg Pool on the Atoka Grayburg Unit.
  - F. Plat showing all operators within 2 miles of subject project.
10. Kewanee Oil Company is the only offset operator to the Atoka Grayburg Unit.

Kewanee Oil Company respectfully requests the Commission to approve this Application by administrative procedure.

  
Billy C. Norwood  
Division Engineer

BCN/ems

Attachs.



ATOKA GRAYBURG UNIT

TRACT 2, WELL NO. 10

WELL DATA

Location: 990' FNL & 330' FEL, Unit A, Section 14, T18S,  
R26E, Eddy County, New Mexico.

Elevation: 3302' G.L.

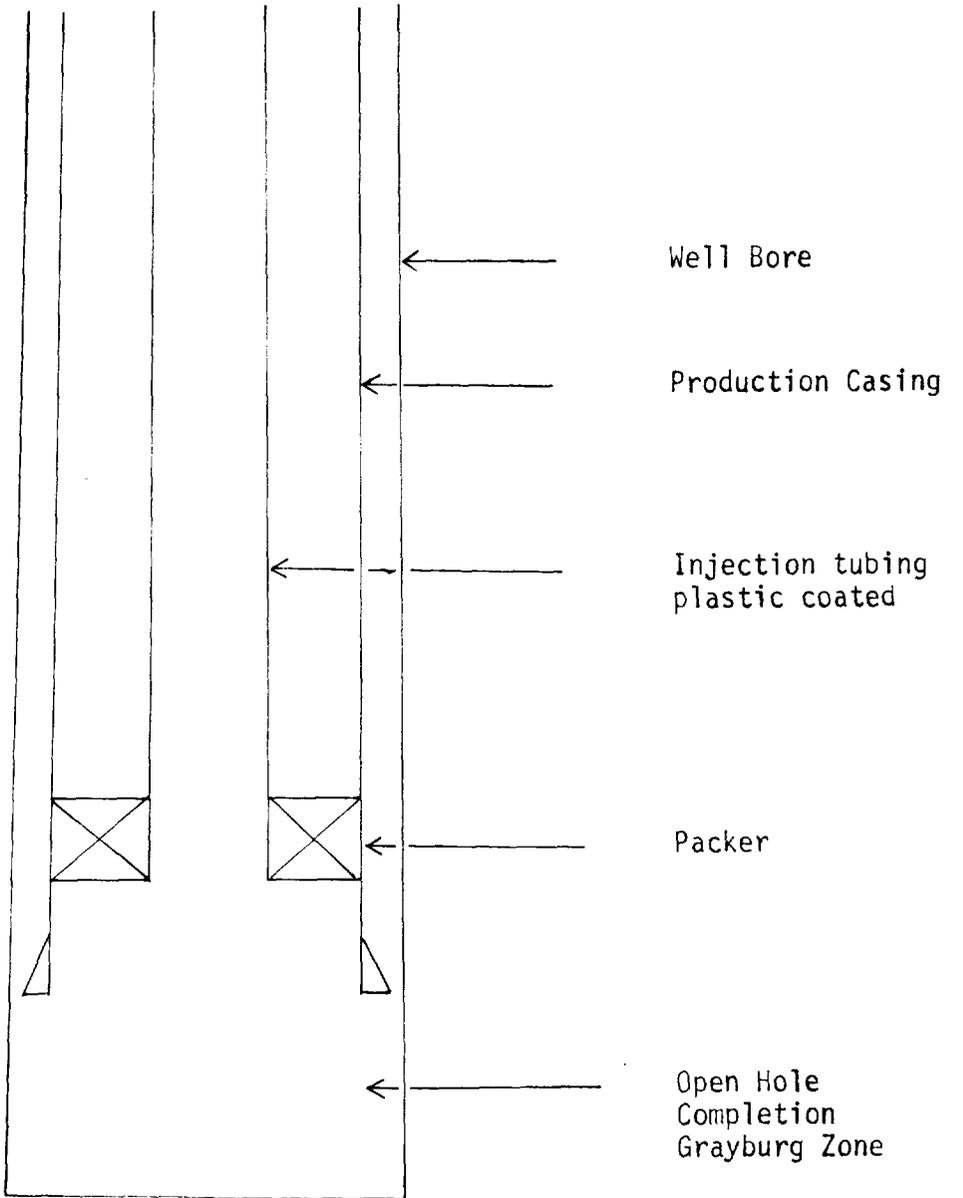
Total Depth: 965'

Casing: 950' of 7" O.D., 23#

Cement: 225 sacks posmix and 25 sacks trinity. Cement  
circulated to surface.

Completion Interval: Open Hole in Grayburg horizon from 950' to 965'.

Pool: Atoka Grayburg



ATOKA GRAYBURG UNIT  
TRACT 2, WELL NO. 10  
COMPLETION TECHNIQUE

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS - OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator: **Kewanee Oil Company** Pool: **Atoka Grayburg** County: **Eddy**

Address: **P. O. Box 3786, Odessa, Texas 79760**

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	TYPE OF TEST - (X)	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT./BBL.
		U	S	T	R							WATER BBLs.	GRAV. OIL BBLs.	GAS M.C.F.	
Atoka Grayburg Unit Tract 2	12	D	13	18	26	2-7-66	P			24	0.60	0.80	0.897	1121	
	12	D	13	18	26	5-30-70	P			24	11.80	14.42	0.447	31	

Test showing production tests of well prior to and subsequent to stimulation from water injection.

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° F. Specific gravity base will be 0.60.  
 Report casing pressure in lieu of tubing pressure for any well producing through casing.  
 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 hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
 (Signature)  
 Division Engineer  
 (Title)  
 7-2-70  
 (Date)

ATOKA GRAYBURG UNIT  
KIEWIT OIL COMPANY - OPERATOR

