

STATE OF KANSAS
STATE CORPORATION COMMISSION
200 Colorado Derby Building
Wichita, Kansas 67202

WELL PLUGGING RECORD
K.A.R.-82-3-117

API NUMBER 15-097-
20719-0906

LEASE NAME Grimm Unit

WELL NUMBER 2-2

1980 Ft. from ^N Section Line

1980 Ft. from ^W Section Line

TYPE OR PRINT
NOTICE: Fill out completely
and return to Cons. Div.
office within 30 days.

LEASE OPERATOR ONEOK Exploration / American Energy Recovery SEC. 2 TWP. 28 RGE. 16 (E) or (W)

ADDRESS R.R.#1 Box 122A El Reno, OK 73036-9702

COUNTY Kiowa

PHONE# (405) 721-9264 OPERATORS LICENSE NO. 4548

Date Well Completed 2/19/81

Character of Well Gas Well

Plugging Commenced 2/29/88

(Oil, Gas, D&A, SWD, Input, Water Supply Well)

Plugging Completed 3/14/88

Did you notify the KCC District Office prior to plugging this well? yes

Which KCC Office did you notify? Dodge City

Is ACO-1 filed? _____ If not, is well log attached? yes

Producing Formation Cherokee Depth to Top _____ Bottom T.D. 4806'

Show depth and thickness of all water, oil and gas formations. Plug Back TD - 4776'

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put In	Pulled out
				8 5/8"	372'	none
				4 1/2"	4805'	2700'

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet each set.
4 sx hull, 10 sx jell, 50 sx cement, 10 sx jell, 1 sx hull, plug 120 sx, 60/40 POZ - Allied

Steve Phiffer and Elmo Morgenstern on location

(If additional description is necessary, use BACK of this form.)

Name of Plugging Contractor Clarke Corporation License No. 5105

Address P.O. Box 187 Medicine Lodge, Ks 67104

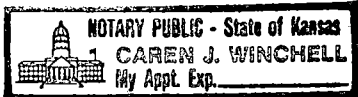
STATE OF Kansas COUNTY OF Barber, ss.

Elmo Morgenstern

(Employee of Operator) or (Operator) of above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed that the same are true and correct, so help me God.

(Signature) Elmo Morgenstern

(Address) Medicine Lodge, Ks 67104



SUBSCRIBED AND SWORN TO before me this 15 day of March, 19 88
STATE CORPORATION COMMISSION

3-16-1988

Caren J. Winchell
Notary Public

My Commission Expires: June 21, 1992

KANSAS

WELL COMPLETION REPORT AND DRILLER'S LOG

State Geological Survey
WICHITA, KANSAS R. 16

API No. 15 — 097 — 20719-0000
County Number

Loc. C SE NW
County Kiowa

Operator
Imperial Oil Company

Address
720 Fourth Financial Center, Wichita, KS 67202

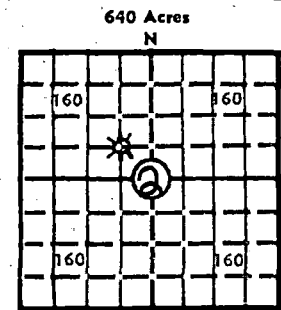
Well No. 2-2 Lease Name GRIMM UNIT

Footage Location
1980 feet from (N) (S) line 1980 feet from (E) (W) line

Principal Contractor *Eagle Drilling, Inc.* Geologist *Hal Clark*

Spud Date *1/8/81* Date Completed *2/19/81* Total Depth *RTD 4806'* P.B.T.D.

Directional Deviation *NA* Oil and/or Gas Purchaser *Panhandle Eastern Pipeline Co.*



Elev.: Gr. *2104*
DF _____ KB *2117*

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 1/2"	8 5/8"	24#	372'	Common	100	3% CC, 2% gel
					LW	175	3% CC, 2% gel
Production		4 1/2"	10 1/2#	4805'	LW	75	
					50/50 Poz	125	18% salt, 3/4% CFR ₂

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4		4628-33'

Size	Setting depth	Packer set at

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 gals. 7 1/2% MCA	4628-33'
Foam frac'd w/25,000 gals., 70% quality foam & 11,000# 20/40 sd; Flushed with 1000 gals. foam & nitrogen	4628-33'

INITIAL PRODUCTION

Date of first production *SIGW* Production method (flowing, pumping, gas lift, etc.) *Flowing*

RATE OF PRODUCTION PER 24 HOURS Oil *MAR 1 6 1988* Gas *400* Water *MCF* Gas-oil ratio *bbbls.* CFPB

Disposition of gas (vented, used on lease or sold) *SIGW - to be sold* Producing interval (s) *Cherokee 4628-33'*

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 245 No. Water, Wichita, Kansas 67202. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator <i>Imperial Oil Company</i>		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Well No. 2-2	Lease Name GRIMM UNIT	Gas Well

S 2 T 28 R 16 W	Kiowa Co., KS
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WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
<p><u>DST #1</u> 4587-4645' 60/120/180/120 GTS/25", ga. avg. 17 MCF. 2nd open, ga. avg. 41 MCF. Rec. 90' GCM IFP: 52-52# ISIP: 1142# FFP: 72-52# FSIP: 1246#</p> <p><u>DST #2</u> 4659-70' Misrun</p> <p><u>DST #3</u> 4661-70' 45/45/45/45 Rec. 65' Mud IFP: plugging ISIP: 260# FFP: plugging FSIP: 260#</p> <p><u>DST #4</u> 4662-4715' 45/90/45/90 Rec. 120' mud IFP: 83-83# ISIP: 468# FFP: 104-83# FSIP: 208#</p>			<p><u>E-Log Tops</u></p> <p>Heebner 3973 (-1856) Lansing 4143 (-2026) B/KC 4488 (-2371) Cherokee Sh. 4615 (-2498) Cherokee Sd. 4622 (-2505) Miss. Congl. 4641 (-2534) Miss. Chert 4662 (-2545) Kinderhook Sh. 4670 (-2553) Kinderhook Sd. 4709 (-2592) Viola 4773 (-2656) LTD 4806</p>	

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received	<p>RECEIVED STATE CORPORATION COMMISSION</p> <p>MAR 16 1988</p>	<p><i>Robert C. Spurlink</i> Signature</p> <p>Attorney-in-Fact</p>
		<p>March 4, 1981 Date</p>

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Well No. 2-2	Lease Name GRIMM UNIT	Gas Well
S 2 T 28 R 16 W		Kiowa Co., KS

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			Miss. Chert	4662 (-2545)
			Kinderhook Sh.	4670 (-2553)
			Kinderhook Sd.	4709 (-2592)
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			LTD	4806
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STATE CORPORATION COMMISSION

FEB 26 1983

W. M. ...
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