

STATE OF KANSAS
STATE CORPORATION COMMISSION
CONSERVATION DIVISION
500 INSURANCE BUILDING
212 NORTH MARKET
WICHITA, KANSAS 67202

FORM CP-1

WELL PLUGGING APPLICATION FORM
File One Copy

15-153-20027-00-00

RECEIVED
STATE CORPORATION COMMISSION
APR 22 1969 4-22-69
CONSERVATION DIVISION
Wichita, Kansas

Lease Owner Mull Drilling Co., Inc.

Address 1625 Wichita Plaza Bldg. Wichita, Kansas

Lease (Farm Name) Woerpel Well No. #3

Well Location C NW SW Sec. 13 Twp. 5 Rge. 31 (E) (W) x

County Rawlins Field Name (If Any) _____

Total Depth 4206' Oil Well x Gas Well _____ Input Well _____ SWD Well _____ D & A _____

Well Log filed with application Yes or Well Log filed with Plugging Supervisor _____

Date and hour plugging is desired to begin At once

Plugging of the well will be done in accordance with the Rules and Regulations of the State Corporation Commission.

Name of company representative in charge of plugging operations _____

Deke Hall Address Russell, Kansas

Plugging Contractor Southwest Casing Pulling Co. License No. 399

Address Box 364, Great Bend, Kansas

Invoice covering assessment for plugging this well should be sent to _____

Mull Drilling Co., Inc. Address 1625 Wichita Plaza, Wichita, Kansas

and payment will be guaranteed by applicant.

Signed: _____
Applicant or Acting Agent

Date: April 21, 1969

State of Kansas



15-153-20027-00-00

ROBERT B. DOCKING Governor
DALE E. SAFFELS Chairman
JULES V. DOTY Commissioner
JAMES O. GREENLEAF Commissioner
RAYMOND B. HARVEY Secretary
JACK GLAVES Gen. Counsel

State Corporation Commission

CONSERVATION DIVISION

(Oil, Gas and Water)

500 Insurance Bldg. 212 N. Market
WICHITA, KANSAS 67202

April 22, 1969

WELL PLUGGING AUTHORITY

Well No.	3
Lease	Woerpel
Description	C NW SW 13-5-31W
County	Rawlins
Total Depth	4206
Plugging Contractor	Southwest Casing Pulling

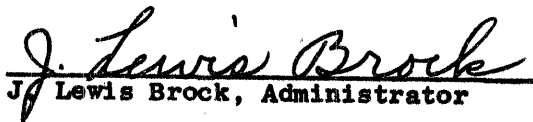
Mull Drilling Co., Inc.
1625 Wichita Plaza
Wichita, Kansas 67202

Gentlemen:

This is your authority to plug the above subject well in accordance with the Rules and Regulations of the State Corporation Commission.

This authority is void after 90 days from the above date.

Very truly yours,


J. Lewis Brock, Administrator

Mr. W. L. Nichols Box 157 Morland, Kansas
is hereby assigned to supervise the plugging of the above
named well.

ROTARY DRILLING LOG

15-153-20027-00-00

Operator: Mull Drilling Company, Inc.
WOERPEL #3
C NW SW Section 13-5S-31W
Rawlins County, Kansas

Contractor: Rains & Williamson
Oil Co., Inc.
Commenced: 8-1-68
Completed: 8-10-68 (Rotary)
Remarks: Set 8-5/8" @ 216'
with 150 sx. GL-3!

Set 4-1/2" @ 4205'
with 125 sx. 60/40
SS Pozmix cement.

Formations

Surface Clay and Shale	125'
Sand	167'
Clay and Shale	218'
Shale	2005'
Shale and Lime	2651'
Anhydrite	2693'
Shale	2740'
Shale and Lime	3795'
Lime and Shale	4005'
Lime	4206'
Rotary Total Depth	4206'

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We certify the above log is true and correct to the best of our knowledge and belief.

RAINS & WILLIAMSON OIL CO., INC.

Wilson Rains
Wilson Rains

Subscribed and sworn to before me, a Notary Public within and for the State of Kansas, County, of Sedgwick, this 13th day of August, 1968.

Sherry Gish
Sherry Gish Notary Public

My Commission Expires:
June 30, 1971

15-153-20027-00-00

COMPLETION REPORT

WOERPEL #3

- 8/1/68 Set 217' 8 5/8" 20# casing cemented w/150 Sax Quick-set cement
- 8/9/68 Set 4 1/2" 9.5# new Lone Star casing 1' off bottom (Driller's measurements @4205') Ran 15 bbl. Salt-flush ahead of 125 Sax 60/40 Salt Saturated Posmix Cement.
- 8/12/68 Moved in from Ness County - Pratt Double drum spudder. Rigged up and made up tools. Shut down.
- 8/13/68 Swabbed hole to 3600' - Ran Bailer several times & cleaned up bottom. Rigged up Great Guns loggers & ran correlation log. Perf. zone 4044' 4048' - 4 holes per ft. Swabbed hole down. No shows. Ran bailer & dried up hole. No shows. Had Great Guns reperforate from 4044' to 4048' - got show oil. Turned Great Guns loose. Bailed hole dry. Acidized well down annulus w/2000 gals. XW-35 acid by Dowell. Put acid on bottom & let soak w/200# pressure. Bled off in 10 minutes. Pressured up to 200#. Bled off in 6 minutes. Pressured to 375# - bled off in 4 minutes. Pressured back up to 375# - well started feeding. Fed @ 4/10 BPM for 2 minutes & dropped to 200# psi. Raised injection rate to 3/4 BPM - 375# - dropped to 200#. Raised pump rate to 1 3/10 BPM - fed at this rate and @ 400\$ pressure rest of treatment. Overflushed 6 Bbls. fresh water - on vacuum in 6 minutes. Swab tested well. Total 179 Bbl. load to get back. Couldn't swab below 3000' - swabbed load back + - very good show oil but 99% water-will squeeze.
- 8/14/68 Ran tubing w/Baker retrievomatic tool. Set packer below perfs. to check blind pipe. O.K.-set packer @ 4028' & squeezed well w/150 Sax. common cement. Got running - squeeze to 3500#. Washed out thru perfs. Reset packer & pressured up on squeeze job. Had leak. Called for more cement. Broke down formation & squeezed w/50 Sax common cement. Had to stage cement. Squeezed to 3500#. Washed out thru perfs. Reset packer above perfs & tested squeeze to 1000#. Held O.K. Pulled 15 jts. tubing & shut down.
- 8/15/68 Pulled tubing. Re-ran tubing w/an abrasive gun. Shut down.
- 8/16/68 Ran log to set abrasive tool to make cuts @ 4045', 4046', 4047' - made 4 holes @ 4047' - complete cut @ 4046' & 4 holes @ 4045'. Pulled tbg. Swab tested well thru casing. Swabbed dry/ with only trace oil. Bailed hole down dry. Put 500 gal. XW 35 acid on bottom - pressured to 175# - 4 different times. Well acted tight - left pressure on casing overnight after getting 3 Bbl. in formation.
- 8/17/68 Well had taken 1 Bbl. acid overnight. Finished putting acid away, a little at a time - Max. pressure 900#. Well would not feed & did not go on vacuum when we shut down. Swabbed casing. Swabbed down w/o getting full load back. Had show oil -1/4" on top of 5 gal. bucket. Lacked 10 Bbl. of getting load back. "No apparent water". Decided to run 28% acid after testing acid again, abrasive samples. Ran 2" Tubin below perfs. Ran 150 gals. J-145 plugging agent ahead of 1000 gals 28% acid. Got a max. plug of 1200#. Broke to 600# after acid hit & stayed there until we increased pumping rate. Finished pumping 3BPM @ 1000#. Did not go on vacuum. Pulled tubing. Swabbed hole down - lacked 35 Bbl. getting load back. Tested 1 Hr. - 1.08 per hr. Very slight show oil.
- 8/18/68 Found fluid 1300' from bottom. Swabbed 16 Nnls. 1 gal. oil on top fluid. Re-ran tubing & acidized w/1000 gals. Super X acid & 2500 gals. RA-5 retarded. Used 700# J-145 plugging material ahead 575# - 6 1/4 BPM. No vac - on shut down. Pulled tbg. & shut down. Load - 204 Bbls. load.
- 8/19/68 Swabbed 94 Bbl. fluid. Swabbed down. No shows except for trace oil. SHUT DOWN & MOVED OFF.

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