

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

Lease Owner Mull Drilling Co., Inc. 15-153-20019-00-00

Address 1625 Wichita Plaza Bldg. Wichita, Kansas

Lease (Farm Name) Woerpel Well No. #2

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

County Rawlins Field Name (If any)

Total Depth 4370' Oil Well x Gas Well Input Well SWD Well D & A

Was well log filed with application? yes If not, explain:

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.

Rec'D
4-22-69

Signed: S. D. Miller
Applicant or Acting Agent

Date: April 21, 1969



15-153-20019-00-00

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.	2
Lease	Woerpel
Description	C SE SW 13-5-31W
County	Rawlins
Total Depth	4370
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
 J. Lewis Brock, Administrator

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

15-153-20019-00-00

ROTARY DRILLING LOG

Operator: Mull Drilling Company,
Inc.
WOERPEL #2
C SE SW Section 13-5S-31W
Rawlins, County, Kansas

Contractor: Rains & Williamson
Oil Co., Inc.
Commenced: 4-10-68
Completed: 4-20-68 (Rotary)

Remarks: Set 8-5/8" surface casing at 208' w/ 150 sacks GL-3.

Set 4-1/2" casing at 4369' w/125 sacks 60-40 pozmix w/salt flush ahead (salt saturated cement)

Formations

Surface clay	30'
Sand	50'
Shale	145'
Sand	160'
Shale	2000'
Shale and Lime	2345'
Red Bed	2646'
Anhydrite	2688'
Shale and Lime	3960'
Lime and Shale	4048'
Lime	4240'
Lime and Shale	4370'
Rotary Total Depth	4370'

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

4-22-69

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 22nd day of April, 1968.

Sherry Gish
Sherry Gish Notary Public

My Commission Expires:
June 30, 1971

COMPLETION REPORT

15-153-20019-00-00

WOERPEL #2

C SE SW 13-5S-31W
Rawlins County, Kansas

1968

- 4/20 T.D. 4370' - Cement 4 1/2" csg. @ 4369' w/125 sx. 60/40 Salt-saturated posmix cement.
- 4/26 Moved in Bill Hay tools...Swabbed & cleaned to bottom.....Swabbed hole to 4200'....Perf. zone from 4118' to 4124' w/4 holes per ft. Swabbed drilling mud. Shut down.
- 4/27 Squeezed perfs @ 4118' to 4124' w/150 sx. common cement to 3000#... Packer set @ 4108'Pulled tbg. & shut down.
- 4/28 Drilled out cement....bailed clean, no show....loaded hole w/150 gal. wtr....Perf. from 4118' to 4124' w/4 holes per ft....Swabbed & bailed hole clean.
- 4/29 Ran Bailer.....no fillup o'nite....acidized w/500 gal. XF acid..... Max PSI 800#....broke to 500#....Acidized @ 350# @ 1 1/2 BPM injection rate....Swabbed load back....82 Bbl. total load.....Show oil, mostly wtr....Tested 1 hr....26 BF
- 4/31 Set Bridge plug...Baker Drillable @ 4085' Perf. to block squeeze @ 4052' w/3 holes....Ran tbg. w/Baker squeeze packer....dropped below perfs & pressured up on Bridge plug to 3000#. Held O.K. Set packer @ 4030' & squeezed w/75 Sx. common cement...got 66 sx. away before squeezing to 2900#....Pulled 3 jts. tbg. & perf. w/tbg. gun @ 4030' - 4 holes. Set packer @ 4020' & squeezed w/75 sx. common cement. Max. PSI 2900#....got a total of 71 sx. away before squeezing. Pulled tbg. & packer & shut down.
- 5/1 Swabbed hole down...Drilled out 55' cement. Bailed hole down. Loaded hole w/4BW & Great Guns perforated zones 4035' to 4038' and 4045' to 4048'....Swabbed dry & shut down.
- 5/2 Bailed hole...slight show??...Dowell acidized w/500 Gal XF 38..... Had to go to 1800# in 2 hrs. time, but couldn't get acid away..... Bled back 3 times & no help....Took 2 Bailleurs fluid off bottom & pressured to 1400#...acid broke to 1250# & then to 550#....fed in at 475# 4/10 BPM....Took from 9:15 A.M. to 2:30 PM to put acid away.... Swabbed load back....got good show oil...Swabbed 3 hrs. @ rate of 4 BPH wtr. & trace oil (perhaps 4%).... Shut down.
- 5/2 Tore down tools & Moved out.

NOTE: I am not satisfied that we have a cement job. If we were to squeeze & abrasijet zone 4035' to 4038', which is producing zone in Woerpel #1, we might be able to get acid away.... Joe Butts

- 5/13 Rigged up tools on Woerpel #2.
- 5/14 Ran tbg. w/Baker squeeze packer. Set packer @4021'... Squeezed perfs @4035' to 4038' and 4045' to 4048' w/100 sx. common cement by Globe. Got all but 4 sx. away & squeezed on the run @ 3600#...Washed out upper perfs to 4045'....Pulled tbg. & packer. Re-ran tbg. w/an abrasive jet gun....Shut down.

- 5/15 W.O.C.
- 5/16 Great Guns set Abrasive tool to perf. 4 holes @ 4037' - 4 holes @ 4036' and complete cut @ 4035'...Tool logged hot collar @ 4011'...From hot collar to jets = 32.75

4011.00
32.75
4043.75 Depth tool when logged
4037.00
6.75 pick up - plus 92/100 or 7.67

This puts jets @4037' for 1st cut (4 holes)...pick up 1' to make 4 holes @ 4036' and 1' to make complete cut @ 4036'....Put 500 gal. XW 38 acid bottom....pulled tubing. Pressured up csg. to 200#....15 min. drop to 100#...pressured to 250#...put 2 1/2 Bbls. away...3 1/2 hrs....Left pressure on well o'nite.

- 5/17 Well took 1/2 Bbl. on vac. o'nite...pumped 6 Bbl. acid away w/0 to 150 pressure before having to shut down & wait. Put 2 Bbls. away in 2 hrs @ Max Pressure of 350#...Well started getting tighter, so we decided to swab back....Lacked 1 1/2 Bbl. getting all 500 gal. away.. Swabbed back load...Tested 7 hrs...

1st Hrs.	3.34	10% oil
2nd Hr.	2.16	10% "
3rd Hr.	1.08	10% "
4th Hr.	1.08	10% "
5th Hr.	1.62	10% "
6th Hr.	1.62	10% "
7th Hr.	1.08	10% "

Acidized w/500 gal. XF 38 & 2000 gal. RA 5 retarded acid. Put 8 Bbl. acid away before getting pressure...fed in @ 1/2 BPM gradually building to 700#Total load to get back 126 Bbl.

- 5/18 Swabbed csg...Swabbed 126 Bbl. load back by 5:00 P.M. Last 10 Bbl. came back @ 2.16 BPH, last hr. 1.06 Bbl. 50 to 10% oil, Turned tools loose..... Swab test indicated poor permeability.

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