

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

API NO. 15 - 119-20,652 - 00-00

County Meade

140' SE of C SE NE 2 Twp 34S Rge 29 West
(location) Sec 2

3201 Ft North from Southeast Corner of Section
561 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

Lease Name Cordes Well# 1

Field Name MOHLER EAST

Producing Formation Marmaton

Elevation: Ground 2466 KB 2474

DESCRIPTION OF WELL AND LEASE
Operator: license # 5673
name W. L. Kirkman, Inc.
address P.O. Box 18611, 453 S. Webb Road
City/State/Zip Wichita, Kansas 67207

Operator Contact Person Wayne L. Kirkman
Phone (316) 685-5372

Contractor: license # 5829
name Aldebaran Drilling Co., Inc.

Wellsite Geologist Brian J. Kissick
Phone (316) 685-5372

PURCHASER Koch Oil Company

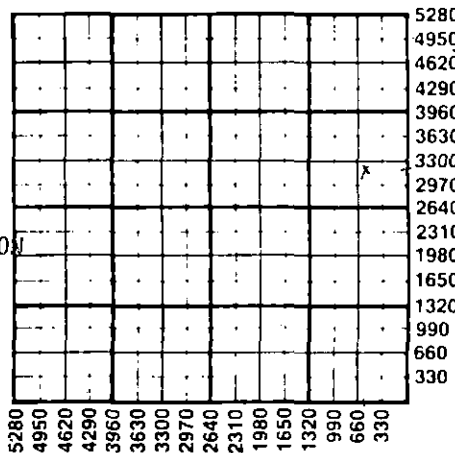
Designate Type of Completion
New Well Re-Entry Workover

Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

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Section Plat



WELL HISTORY

Drilling Method: Mud Rotary Air Rotary Cable
4-13-84 5-5-84 5-5-84
Spud Date Date Reached TD Completion Date

6430 5825
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 1475 feet

Multiple Stage Cementing Collar Used? Yes No

If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated from feet depth to w/ SX cmt

WATER SUPPLY INFORMATION

Source of Water:

Division of Water Resources Permit #

Groundwater Ft North From Southeast Corner and
(Well) Ft West From Southeast Corner of

Sec 2 Twp 34S Rge 29 East West

Surface Water Ft North From Southeast Corner and
(Stream, Pond etc.) Ft West From Southeast Corner

Sec Twp Rge East West

Other (explain) (purchased from city, R.W.D.#)

Disposition of Produced Water: Disposal Repressuring

Docket #

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 82-3-130 and 82-3-107 apply.

Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months.

One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules, and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature *Wayne L. Kirkman*
Wayne L. Kirkman
Title President Date 10-3-84

Subscribed and sworn to before me this 3rd day of October 19 84

Notary Public *Kathleen G. Quinn*
Kathleen G. Quinn

Date Commission Expires 3-20-87
KATHLEEN G. QUINN
STATE NOTARY PUBLIC
Sedgwick County, Kansas
My Appt. Exp. 3-20-87

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Sec 2 Twp 34S Rge 29 W

Operator Name W. L. Kirkman, Inc. Lease Name Cordes Well# 1 SEC 2 TWP. 34S RGE. 29

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
Wreford	2936	(- 462)
Council Grove	3044	(- 570)
Heebner	4364	(-1890)
Lansing	4524	(-2050)
Stark Shale	5004	(-2530)
Swope	5022	(-2548)
Marmaton	5172	(-2698)
"Middle" Marmaton	5244	(-2770)
Cherokee Shale	5370	(-2896)
Morrow	5699	(-3225)
Chester	5820	(-3346)
Chester "Gas" Zone	5832	(-3358)
Basal Chester Sand	6084	(-3610)
St. Genevieve	6140	(-3666)
St. Louis	6197	(-3723)
St. Louis "Break"	6254	(-3780)
T.D.	6421	(-3947)

DST #1
 3125-3135
 30-60-30-60
 IF: 32054
 ISIP: 873
 FF: 77-97
 FSIP: 851
 HP: 1614-1528
 Recovery: 120' Muddy water Chlorides 45,000 ppm
 Temp: 112°

The sixth "break" (3148-3156) is described as:
 Limestone, cream, fine crystalline, ooliscastic to oolitic, good ooliscastic porosity, slight show gas. 6 units Chromatograph, no increase Hot Wire.

DST #2
 3143-3154
 30-60-30-60
 IF: 32-86
 ISIP: 894
 FF: 129-172
 FSIP: 1603-1495
 Recovery: 340' saltwater chlorides 45,000 ppm
 Temp: 102°

The top 38' of the Toronto exhibited a considerable lithology change relative to the upper Toronto encountered in the W. L. Kirkman, Inc. #1 Borchers. Following is the description (4370-4408)

Shale, light gray, micaceous, slightly sandy. Limestone, tan, fine crystalline, fossiliferous Sandstone, white, fine grained, micaceous in part, friable to firm, no show. CONTINUED

CASING RECORD <input type="checkbox"/> new <input type="checkbox"/> used							
Report all strings set - conductor, surface, intermediate, production, etc.							
Purpose of string	size hole drilled	size casing set (in O.D.)	weight lbs/ft.	setting depth	type of cement	# sacks used	type and percent additives
Surface	12 1/4	8 5/8	23	1475	Lite	500	6% gel, 2% CC
					Common	200	3% CC
Production	7 7/8	5 1/2	14	6381	LW(Scavenge)	50	
					60-40 POZ	375	15% salt, .75% CR2
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
shots per foot	specify footage of each interval perforated			(amount and kind of material used)			Depth
4	5830-5836			500 gals. 15% Reg. Acid			5830-36
				4000 gals. 28% NE. acid			5830-36
4	5248-5251			500 gals. 15% S.O.S.			5248-51
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
size	set at	packer at					
Date of First Production	Producing method <input type="checkbox"/> flowing <input checked="" type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain)						
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio		Gravity	
	85		0				
	Bbls	MCF	Bbls	CFPB			

Disposition of gas: vented sold used on lease
 METHOD OF COMPLETION open hole perforation other (specify) _____
 Dually Completed. Commingled

PRODUCTION INTERVAL
 5248-51

Swope porosity was encountered at 5022'. Considerable thinning relative to the W. L. Kirkman, Inc. #1 Borchers was observed through the Swope porosity: 34' - #1 Cordes, versus 51' - #1 Borchers. Swope description (5022-5036):

Limestone, cream to tan, fine crystalline, oolitic to oolitic, good oolitic porosity, fair to poor crystalline porosity, fair show gas.

DST #3 5123-5136 covers this zone.

IF 30 min 350-779#
ISIP 60 min 1719#
FF 30 min 818-1089#
FSIP 60 min 1719
HP 2503-2491#
Recovery: 2150' saltwater chlorides 85,000 ppm
Temp: 118°

A pipe strap prior to DST #3 was made and revealed a 2.31' difference, the strap being the shorter of the two measurements. Weather conditions were windy. No correction was made.

The Marmaton was topped at a depth of 5172'. Porosity not present in the #1 Borchers was encountered from a depth of 5172' to 5180' and carries the following description:

Limestone, white, fine crystalline, fossiliferous, oolitic in part, poor pinpoint, small vuggy and interclastic porosity, very slight show gas, very slight show light brown oil, faint fluorescence, faint odor.

DST #4 5132-5204 covers this zone.

IF 30 min 87-87#
ISIP 60 min 1716#
FF 30 min 109-109#
FSIP 60 min 1769#
HP 2487-?
Recovery: ?
Gas to surface on second opening.
Gauge: 49.3 MCF 10 min
34.3 MCF 20 min
30.7 MCF 30 min

The tool and drill pipe were found to be stuck in the hole when it was attempted to pick up off bottom. The bar was dropped to open the reverse circulating sub and circulation was established through the reverse circulating sub. Oil was then spotted around the collars with no results in freeing the tool and pipe. A free point was run and revealed that the pipe was stuck at 3130'. Oil was moved up hole and spotted around this point. Another free point was run following this and pipe was found to be stuck at approximately 4099' or just below the reverse circulating sub. After reaming the hole down to the top of the fish, washpipe was run and successfully washed down over the fish to the top of the top packer on the test tool. The fish was then successfully recovered.

The "Middle" Marmaton was encountered at 5244. Sample description of this zone from 5244' to 5250' is as follows:

Limestone, tan, fine crystalline, oolitic to oolitic in part, good oolitic porosity, fair recrystallized interclastic porosity, good show bleeding gas, fair show bleeding light brown oil, good odor, good fluorescence.

DST #5 5242-5271 covers this zone

IF 10 min NO PRESSURES - both recorders failed
ISIP 15 min
FF 30 min
FSIP 45 min
HP

Gas to surface in 3 minutes first opening.

Guaged: 353 MCF 5 minutes
319 MCF 10 minutes

Second Opening

4.4 MCF 5 minutes
4.8 10 minutes
5.2 15 minutes
5.6 20 minutes
5.2 25 minutes
4.4 30 minutes

Recovery: 4010' clean gassy oil
Temp: 122°

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Two other zones of interest in the "Lower" Marmaton were drill stem tested. The first of these zones (5388-5394) is described as follows:

Limestone, cream, fine crystalline, scattered pinpoint porosity, scattered small vuggy porosity, faint fluorescence, no odor, very slight show gas, very slight show oil.

DST #6 5271-5316 covers this zone

IF 10 min 122-112#
ISIP 15 min 1334#
FF 10 min 112-133#
FSIP 15 min 1313#
HP 2527-2516#

Initial flow: weak 1" blow

Final flow: no blow, flush tool - no blow.

Recovery: 90' mud chlorides 12,000 ppm

Temp: 122°

The second of the "Lower" Marmaton zones tested carries the following description (5322-5326):

Limestone, cream, fine crystalline, good crystalline and small vuggy porosity, excellent show gas, good show oil, good odor, good fluorescence.

DST #7 5318-5364 covers this zone

IF 10 min NO PRESSURES - both records failed.
ISIP 15 min
FF 30 min
FSIP 45 min
HP

Recovery: 60' oil cut mud (5% oil)

60' saltwater chlorides 90,000 ppm

Temp: 120°

Morrow Sand was encountered with shows of hydrocarbons present. One of these sandstones carries the following description (5748-5754):

Sandstone, white, tan, fine grained, angular, glauconitic in part, poor to fair visible porosity, good fluorescence, faint odor, fair show oil, fair show gas, gilsonitic in part.

DST #8 5731-5753 covers this zone

IF 10 min 421-454#
ISIP 15 min 1863#
FF 30 min 508-443#
FSIP 45 min 1841#
HP 2778-2789#

Gas to surface 1st opening

Guaged: 2.2 MMCF 5 minutes
2.5 MMCF 10 minutes

Second Opening:

2.3 MMCF 5 minutes
2.9 MMCF 10 minutes
2.9 MMCF 15 minutes
3.0 MMCF 20 minutes
2.9 MMCF 25 minutes
2.9 MMCF 30 minutes

Recovery: 200' mud

100' saltwater chlorides 115,000 ppm

Temp: 120°

A second Morrow Sand with hydrocarbon shows was encountered from 5756-5770:

Sandstone, white fine grained, poorly sorted, angular to subrounded, glauconitic, poor to fair visible porosity, no show to fair show oil and gas, gilsonitic.

DST #9 5755-5768 covers this zone

IF 10 min 64-54#
ISIP 15 min 1366#
FF 15 min 75-64#
FSIP 15 min 1216#
HP 2701-2767#

Both flows - weak 1/2" blow.

Recovery: 90' mud chlorides 60,000 ppm

Temp: 120°

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and,

Pre-Pennsylvanian erosion has apparently removed much of the top of the Mississippian Chester aged rocks. The top of the Chester was encountered at 5820'. The Chester zone that is correlative to the zone productive of gas in the W. L. Kirkman, Inc. #1 Borchers was preserved however. A description of the zone is (5832-5836):

Limestone, tan to cream, fine crystalline, fossil fragments, poor pinpoint and small vuggy porosity, very slight show gas, very slight show of oil, fluorescence.

It was decided not to test this zone.

The Basal Chester Sand was encountered at depths of 6084-6102' and 6106-6118'.

6084-6102:

Limestone, white fine crystalline, slightly oolitic, slightly sandy, streaks with fair pinpoint porosity with slight show oil and gas.

Sandstone, white, fine grained, subangular, fair visible porosity, poor to fair show oil and gas, gilsonitic, weak fluorescence, lime.

6106-6118:

Sandstone, tan, fine grained, subangular to subrounded, some fair visible porosity, limey, no show to very slight show oil.

A drilling break from 6254-6271 in the St. Louis carries the following description:

Limestone, white, fine crystalline, fossiliferous, oolitic, chalky matrix, very soft, falls apart very easily, fluorescence, no visible cut, leaves light brown residue in dimple tray, no visible porosity,

Limestone, brown, fine crystalline, slightly oolitic, rare pinpoint porosity, fluorescence, leaves light brown residue in dimple tray - only two pieces found, one of which had a fair show of gas. Two units Hot Wire maximum.

Pipe was set on the W. L. Kirkman, Inc. #1 Cordes for further evaluation of the above described zones.

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