

4/11/85
6-1-86
KCCSTATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISIONWELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 5673
Name W. L. Kirkman, Inc.
Address P.O. Box 18611
453 S. Webb Road, Ste. 100
City/State/Zip Wichita, KS 67218Purchaser: Oil - Koch Oil Company
Gas - No Purchaser at this time.Operator Contact Person Wayne L. Kirkman
Phone 316-685-5372Contractor: License # 5829
Name Aldebaran Drilling Co., Inc.Wellsite Geologist L. Kristopher Moore
Phone 316-685-5372

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover☒ Oil ☐ SWD ☐ Temp Abd
☒ Gas ☐ Inj ☐ Delayed
☐ Dry ☐ Other (Core, Water Supply etc.)

If ONWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

☒ Mud Rotary ☐ Air Rotary ☐ Cable11-5-84 11-15-84 3-1-85
Spud Date Date Reached TD Completion Date
4113' 3930' 363'
Total Depth PBTDAmount of Surface Pipe Set and Cemented at 363' 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

API NO. 15-151-21,509

County Pratt

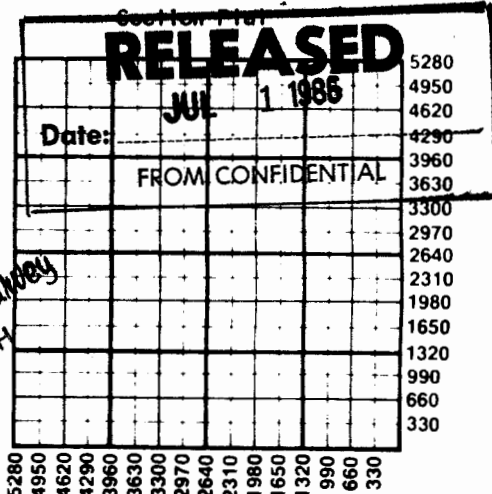
C SE NW 6 26S 11 East
Sec. Twp. Rge. West3300 Ft North from Southeast Corner of Section
3300 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Bookstore Well # 1-6

Field Name

Lansing B Zone - Oil
Producing Formation Mississippi Chert - Gas

Elevation: Ground 1847 KB 1856



WATER SUPPLY INFORMATION

Disposition of Produced Water: ☐ Disposal
Docket # ☐ RepressuringQuestions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:

Division of Water Resources Permit #

☒ Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec 6 Twp 26S Rge 11 ☐ East ☒ West☐ Surface Water.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec Twp Rge ☐ East ☐ West☐ Other (explain).....
(purchased from city, R.W.D. #)

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. Rule 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 L. Kristopher Moore

Title L. Kristopher Moore, Geologist Date 1-29-85

Subscribed and sworn to before me this 29th day of January 1985

Notary Public Kathleen G. Quinn

Date Commission Expires March 20, 1987

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

K.C.C. OFFICE USE ONLY

☒ Letter of Confidentiality Attached
☐ Wireline Log Received
☐ Drillers Timelog Received

Distribution

☐ KCC	☐ SWD/Rep	☐ NGPA
☒ KGS	☐ Plug	☐ Other

(Specify)

APR 1 1985

Form ACO-1 (7-84)

SIDE TWO

Operator Name W. L. Kirkman, Inc. Lease Name Bookstore Well #...1-6.

Sec...6..... Twp...26S..... Rge...11..... ☐ East ☒ West County.....Pratt.....

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

DST #1: Indian Cave Sand (2573-94) 30-30-30-30
 IF: 90-78 FF: 112-101 ISIP: 427 FSIP: 694
 HYD: 1216-1216 BHT: 94°F
 REC: 30' slightly gas cut mud
 120' mud
 No gas to surface

Name	Top	Bottom
Herington	1815	(+ 41)
Howard B-Zone	2980	(-1124)
Heebner Shale	3379	(-1523)
Base Kansas City	3885	(-2029)
Mississippi Chert	3938	(-2082)
Kinderhook Shale	4030	(-2174)
Viola (sample top)	4108	(-2252)

DST #2: Tarkio Sand (2760-2838) 30-30-15-30
 IF: 135-213 FF: 304-304 ISIP: 960 FSIP: 971
 HYD: 1328-1313 BHT: 104°F
 REC: 160' water cut mud
 400' saltwater (Chlorides: 82,000)

DST #3 Howard B Zone (2983-3011) 30-60-30-60
 Weak blow throughout both flows.
 ISIP: 1044 FSIP: 1014 IF: 50-71 FF: 91-111
 HYD: 1459-1439 BHT: 109°
 REC: 30' mud
 120' slightly oil cut mud (5% oil)

CASING RECORD ☒ New ☒ 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#	363'	Common	300	3% CC 2% Gel
Production	7 7/8"	4 1/2"	10.5#	4110'	60-40POZ	325	18% salt 3/4 of 1% D-31 w/ S-10 & 1,000 Gal DJ Mud Sweep
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated			Depth			
2	3942-68			2,000 gal. of 7 1/2% NE & 2% KCl			
4	3841-43			1,500 gal. 15% NE Acid			
4	3608-12			500 Gal. 15% NE Acid			
4	2984-87 & 2993-96			500 Gal. 15% NE Acid			
				5000# 10/20 Sand			
TUBING RECORD				Liner Run ☐ Yes ☐ No			
Size 2 3/8"		Set At 3930'		Packer at 3806.73			
Date of First Production oil - 3-1-85		Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....					
gas - approx. mid May, 1985							
Estimated Production Per 24 Hours	Oil 3 Bbls	Gas MCF	Water 123 bbls Bbls	Gas-Oil Ratio	Gravity		

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented ☐ Open Hole ☒ Perforation
☒ Sold in May ☐ Other (Specify)
☐ Used on Lease ☐ Dually Completed
☐ Commingled

3608-12 - oil
 3942-68 - gas

JUL 1 1985

6-26-11W

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH
CONFIDENTIAL

ZONES OF INTEREST:

Indian Cave Sand (2570-88):

Sandstone: gray-green, fine angular grains, glauconitic, micaceous, scattered fair granular porosity, trace of gas, no odor, no fluorescence, 24 unit hot wire kick after circulating for samples 30 minutes.

Howard B Zone (2990-3000):

Limestone: cream to gray, fine crystalline, scattered poor crystalline and pinpoint porosity, slightly chalky, soft, slight show of oil-gas, 9 unit hot wire kick.

Lansing B Zone (3610-20):

Limestone: cream, fine crystalline, very fine crystalline porosity, good odor, good show of live oil, fairly well saturated, dull fluorescence, 60 unit hot wire kick throughout entire circulation for samples at 3638'.

Mississippi (3848-60):

Chert: tan to white, fresh to semi-weathered, scattered fair pinpoint porosity, some fracture porosity, slight show of oil and gas, fleeting odor, gilsonite, no fluorescence, chert is 90% of the show.

Limestone: cream, fine crystalline and interbedded, fair crystalline porosity, trace of free high gravity oil, limestone is 10% of show.

DSTs Continued:

APR - 2 1985

DST #4: Lansing B Zone (3608-3628) 30-60-45-60

Gsa to surface in 12 minutes

Gauged: 5,300 cubic feet of gas.

ISIP: 1226 FSIP: 1176 IF: 60-71 FF: 91-111

HYD: 1671-1651 BHT: 115°F

REC: 65' slightly oil & gas cut mud (5% oil)
60' oil & gas cut mud (35% oil)
60' heavy oil & gas cut mud (55% oil)

DST #5: Hertha (3837-3870) 30-60-30-60

ISIP: 1176 FSIP: 781 IF: 71-71 FF: 81-81

HYD: 1893-1872 BHT: 118°F

REC: 60' slightly oil cut mud (10% oil)

DST #6: Mississippi (3940-3980) 30-60-30-60

ISIP: 1348 FSIP: 1348 IF: 81-91 FF: 91-101

HYD: 1913-1893

REC: 125' gas cut mud (Chlorides: 11,000)

Strong blow throughout both flows

Gas to surface in 9 minutes

1st blow: 15 min)
20 min) 56,800 MCF
30 min)

2nd blow: 5 min 72,400 MCF
10 min 63,500 MCF
20 min) 61,900 MCF
30 min)

Stabilized at 61,900 MCF

DST #7: Viola (4029-4110)

ISIP: 142 FSIP: 81 IF: 50-50 FF: 60-60

HYD: 1943-1923

REC: 20' drilling mud

DST #8: Viola (4027-4113)

ISIP: 121 FSIP: 111 IF: 60-60 FF: 7171

HYD: 1993-1973

REC: 80' of drilling mud.
specks of oil on top of tool.

Kansas Geological Survey
WICHITA BRANCH

APR - 3 1985

ALDEBARAN

453 SOUTH WEBB ROAD
P.O. BOX 18611
WICHITA, KANSAS 67207
(316) 685-5372

6-26-11W



WELL LOG

CONFIDENTIAL

Released

WELL NAME: BOOKSTORE #1-6

WELL LOCATION: C SE-NW

SEC. 6-26S-11W PRATT COUNTY, KS.

OPERATOR: W.L. KIRKMAN, INC.

CONTRACTOR: ALDEBARAN DRILLING CO., INC.

JUL 10 1985

COMMENCED: 5:00 P.M. 11-5-84

COMPLETED: 7:00 A.M. 11-15-84

9 jts. 8 5/8" 23 new set at 363'
CASING RECORD: 300 sks. common 3% cc.
2% gel. - 107 jts. 4 1/2" 10.5 wt
used set at 4110' 325 sks 60-40
poz. 18% salt 3/4 of 1% D-31
w S10 1000 gal. DJ mud sweep

FORMATION:

FROM:

TO:

Sand-Red Bed
Red Bed
Lime-Shale
Shale
Viola

0
375'
1719'
4090'
4110'

375'
1719'
4090'
4110'
4113'

APR - 2 1985
State Geological Survey
WICHITA BRANCH

STATE OF KANSAS)
COUNTY OF SEDGWICK) SS:

I CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF THE DRILLER'S LOG ON THE WELL DRILLED

C SE-NW, SEC. 6-26S-11W, Pratt County, Kansas

TO THE BEST OF MY

KNOWLEDGE AND BELIEF.

APR - 1 1985

ALDEBARAN DRILLING CO., INC.

WAYNE L. KIRKMAN
PRESIDENT

SUBSCRIBED AND SWORN TO BEFORE ME THIS 20TH DAY OF

NOVEMBER, 1984

KATHLEEN G. QUINN
MY APPOINTMENT EXPIRES

MARCH 20, 1987

KATHLEEN G. QUINN