SIDE ONE 1949

COPY

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 107-23258

County LINN

NW SW SW Sec. 5 Twp. 22 Rge. 23 XX East ___ West

956 Ft. North from Southeast Corner of Section

4914 Ft. West from Southeast Corner of Section
(Note: Locate well in section plat below.)

Lease Name LAW - D Well # 1

Field Name UNNAMED

Producing Formation MISSISSIPPIAN

Elevation: Ground 1025 KB NA

Total Depth 792 PBTD 792

Operator: License # 4905

Name: K C CRUDE, INC.

Address 6520 W 110TH. STREET

SUITE 106

City/State/Zip OVERLAND PARK, KS. 66211

Purchaser: BRENNCO GAS TRANSMISSION CO.

Operator Contact Person: BRENT NATTRASS

Phone (913) 345-8000

Contractor: Name: TOWN OIL CO.

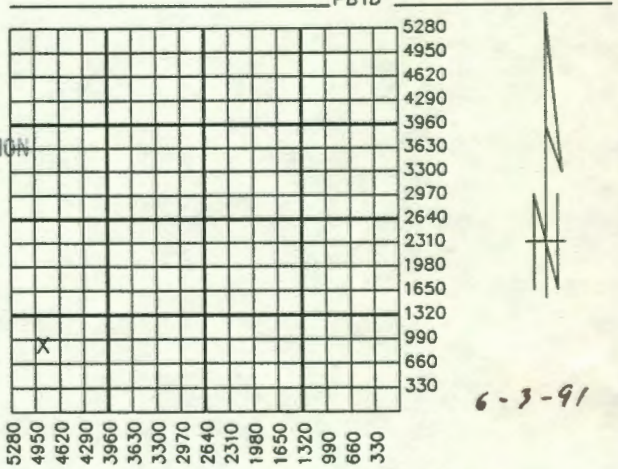
License: 6142

Wellsite Geologist: NA

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Designate Type of Completion
XX New Well ___ Re-Entry ___ Workover

XX 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 ___

Drilling Method:
___ Mud Rotary XX Air Rotary ___ Cable

01/04/91 Spud Date | 01/21/91 Date Reached TD | 02/14/91 Completion Date

Amount of Surface Pipe Set and Cemented at 20 Feet

Multiple Stage Cementing Collar Used? ___ Yes XX No

If yes, show depth set NA Feet

If Alternate II completion, cement circulated from 785

feet depth to SURFACE w/ 104 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Whichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130. 82-3-107 and 82-3-106 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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regiate 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 MB Nattrass

Title CONSULTANT Date 04/23/91

Subscribed and sworn to before me this 23 day of April 19 91

Notary Public Suzanne M Feltman

D. Commission Expires NOTARY PUBLIC STATE OF KANSAS SUZANNE M. FELTMAN My Appt. Exp. 4-4-94

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)

IS

FORM ACO-1 (7-89)

COPY

Operator Name K C CRUDE, INC. Lease Name LAW - D Well # 1

Sec. 5 Twp. 22 Rge. 23 ☒ East ☐ West County LINN

INSTRUCTIONS: Show important tops and base of formattions 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 (Attach Additional sheets.)	☐ Yes	☒ No
Samples Sent to Geological Survey	☐ Yes	☒ No
Cores Taken	☒ Yes	☐ No
Electric Lag Run (Submit Copy.)	☐ Yes	☒ No

CORE #1, 705-725, 20' BARTLESVILLE
15' BROWN SAND, 5' SHALE WITH
SAND LAMINATIONS

Formation Description

☐ Log ☒ Sample

Name	Top	Bottom
KANSAS CITY	SURFACE	90
PLEASANTON	90	244
MARMATON	244	433
CHEROKEE	433	783
MISSISSIPPIAN	783	792

SEE ATTACHED DRILLERS LOG

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CASING RECORD ☐ New ☒ Used
Report all strings set-conductor, surface, intermdiate, 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	9	7	17	20	PORTLAND	3	NONE
PRODUCTION	6 1/8	4 1/2	9.5	785	PORTLAND	104	2% GEL

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	NONE	250 GAL. 15% HCL	785-792

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	790	NA	☐ Yes ☒ No

Date of First Production	Producing Method				
SHUT IN	☐ Flowing	☒ Pumping	☐ Gas Lift	☐ Other (Explain)	

Estimated Production per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	1	0	10	NA	NA

Disposition of Gas: METHOD OF COMPLETION Production Interval

☐ Vented ☐ Sold ☐ Used on Lease (If Vented, submit ACO-18.)

☒ Open Hole ☐ Perforation ☐ Dually Completed ☐ Commingled

☐ Other (Specify) _____ 785-792

COPY

TOWN OIL COMPANY

Route 4
Paola, Kansas 66071

"Drilling and Production"

913-294-2125

5-22-23E

Well #1
Farm: Law-D
Lease Owner: Oil Operators of Kansas

WELL LOG

Thickness of Strata	Formation	Total Depth
0-5	Soil	5
15	Lime	20
1	Slate	21
16	Lime	37
5	Shale	42
2	Slate or coal	44
1	Lime	45
2	Shale	47
15	Lime	62
5	Shale & slate	67
4	Lime	71
2	Shale	73
10	Lime	83
3	Shale	86
4	Lime	90
17	Shale	107
33	Sand	140
82	Shale	228
5	Red bed	233
1	Slate	234
10	Shale	244
8	Lime	252
5	Shale	257
5	Lime	262
10	Shale	272
4	Shale/shell	276
9	Lime	285
10	Shale	295
5	Sand	300
38	Shale	338
3	Shale	341
7	Lime	348
7	Lime	355
kj7	Shale	362
7	Shale	369
4	Lime	373
2	Slate	375
37	Shale	412
21	Lime	433
3	Shale	436
1.5	Slateor coal	437.5
4.5	Shale	442
3	Lime	445
7	Shale	452
10	Sandy shale	462

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5-22-23E

Well #1
Farm: Law-D
Lease Owner: Oil Operators of Kansas

WELL LOG (cont'd)

Thickness of Strata	Formation	Total Depth
66	Shale	528
.5	Coal	528.5
9.5	Shale lt.	538
7	Shale	545
2	Lime	547
1.5	Slate or coal	548.5
.5	Shale	549
1	Slate	550
2	Shale	552
8	Sandy shale	560
56	Shale	616
2	Coal or slate	618
29	Shale	647
2	Sandy shale	649
3	Sand	652
4	Shale	656
1	Shale or coal	657
10	Shale	667
12	Shale	679
18	Shale	697
3	Shale	700
1	Sand	701
1	Sand	702
3	Sand	705
15	Sand	720
5	Sand/shale	725
2	Sand/shale	727
3	Shale	730
2	Slate	732
6	Shale	738
7	Shale	745
5	Shale	750
29	Shale	779
1	Coal	780
3	Shale	783
2	Lime	785
2	Lime	787
3	Lime soft	790
2	Lime soft	792 TD

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