

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

Form ACO-1
September 1999
Form Must Be Typed

COPY

Operator: License # 32429
Name: CRAWFORD OIL & GAS, INC.
Address: P. O. Box 51
City/State/Zip: Coldwater, Kansas 67029
Purchaser: ANR
Operator Contact Person: _____
Phone: (316) 582-2612
Contractor: Name: DUKE DRILLING CO., INC.
License: 5929
Vesite Geologist: Jon D. Christensen

Designate Type of Completion:

☒ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.
☐ Gas ☐ ENHR ☒ SIGW
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
☐ Deepening ☐ Re-perf. ☐ Conv. to Enhr./SWD
☐ Plug Back ☐ Plug Back Total Depth
☐ Commingled ☐ Docket No. _____
☐ Dual Completion ☐ Docket No. _____
☐ Other (SWD or Enhr.?) ☐ Docket No. _____
2-22-00 03-08-00 3-30-2000
Date or Completion Date or
Recompletion Date Date Reached TD Recompletion Date

API No. 15 - 033-21052 0000

County: Comanche

SW - SW - NE - Sec. 30 Twp. 33 S. R. 18 ☐ East ☒ West
2310 feet from S / (N) (circle one) Line of Section

2310 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) (NE) SE NW SW

Lease Name: O. DEEWALL Well #: 1

Field Name: _____

Producing Formation: MISSISSIPPIAN

Elevation: Ground: 1948' Kelly Bushing: 1956'

Total Depth: 6100' Plug Back Total Depth: 5469'

Amount of Surface Pipe Set and Cemented at 665 Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2000 feet depth to _____ w/ _____ sx cml.

Drilling Fluid Management Plan ALT 1 9/29/00
(Data must be collected from the Reserve Pit)

Chloride content 12,400 ppm Fluid volume 500 bbls

Dewatering method used haul off

Location of fluid disposal if hauled offsite: _____

Operator Name: GORDON KEANE

Lease Name: HARMON License No.: 5993

Quarter NW Sec. 11 Twp. 33 S. R. 20 ☐ East ☒ West

County: Comanche Docket No.: 22304

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report 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.

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: Mark Erickson

Title: Supt. Operations Date: 6-13-00

Subscribed and sworn to before me this 13 day of June

18000

Notary Public: Pamela Price

Date Commission Expires: Feb. 29, 2004



KCC Office Use ONLY

Letter of Confidentiality Attached

If Denied, Yes ☐ Date: _____

☒ Wireline Log Received

☒ Geologist Report Received

☐ UIC Distribution

Operator Name: CRAWFORD OIL & GAS, INC. Lease Name: O. DEEWALL Well #: 1
 Sec. 30 Twp. 33 S. R. 18 ☐ East ☒ West County: Comanche

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☒ Yes ☐ No
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☒ Yes ☐ No
 (Submit Copy)

List All E. Logs Run: HIGH RESOLUTION
COMA NEUTRON

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name Top Datum

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	# Sacs Used	Type and Percent Additives
Conductor		20"		40'	10Sk Grout		
Surface	12-1/4"	8-5/8"	24#	665'	Lite 60/40 Poz.	190 130	3%cc, 1/2#Flo seal
Production	7-7/8"	4-1/2"	10/5#	5534'	Common	120	10% Salt

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPF	5344-50	1000 GAL 15% ACID	
4 SPF	5302-06	90 T. CO ₂	
4 SPF	5294-96	160 SX SAND	
4 SPF	5282-90	400 Bbl. H ₂ O	
4 SPF	5270-74	↓	
TUBING RECORD		Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Size <u>2 3/8"</u> Set At <u>NA</u>			
Date of First, Resumerd Production, SWD or Enhr. <u>WOPL</u>		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Litt <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity
		<u>306 Mcf</u>	

Disposition of Gas METHOD OF COMPLETION

☐ Vented ☒ Sold ☐ Used on Lease
 (If vented, Sumit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify)