

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

COPY

Operator: License # 0529
Name: R.J. Patrick Operating Company
Address: PO Box 1157
City/State/Zip: Liberal, KS 67905-1157
Purchaser: ONEOK Field Services Company
Operator Contact Person: R.J. Patrick
Phone: (620) 624-8483
Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Bob Posey
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. _____
03-31-01 04-11-01 04/23/01
Spud Date or Date Reached TD Completion Date
Recompletion Date

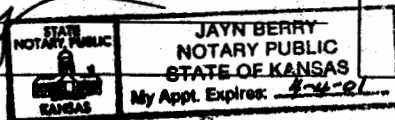
API No. 15 - 033-21195-0000
County: Comanche County, Kansas
SW SE SW Sec. 10 Twp. 33 S. R. 19 ☐ East ☒ West
330 feet from ☒ N (circle one) Line of Section
1660 feet from E ☒ (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner: 1695
(circle one) NE SE NW ☒ SW
Lease Name: Donald Herd Well #: 3-10
Field Name: Coldwater West
Producing Formation: Mississippian, Cherokee, Pawnee
Elevation: Ground: 1993' Kelly Bushing: 2004'
Total Depth: 5399' Plug Back Total Depth: 5384
Amount of Surface Pipe Set and Cemented at 857 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☒ No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 857
feet depth to Surface w/ 400 sx cml.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 4000 ppm Fluid volume: 1550 bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite:
Operator Name: KBW Oil & Gas
Lease Name: Harmon SWD License No.: 5993
County: Comanche Docket No.: 22304
Sp. 11 Twp. 33 S. R. 20 ☐ East ☒ West
RECEIVED
APR 30 2001

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 abandonment 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: R.J. Patrick
Title: Owner Date: 04/27/01
Subscribed and sworn to before me this 27th day of April
19 2001
Notary Public: Jayn Berry
Date Commission Expires: 04/04/04



KCC Office Use ONLY

☐ Letter of Confidentiality Attached
If Denied, Yes ☐ Date: _____
☒ Wireline Log Received
☒ Geologist Report Received
☐ UIC Distribution

Operator Name: **R.J. Patrick Operating Company** Lease Name: **Donald Herd** Well #: **3-10**
 Sec. **10** Twp. **33** S. R. **19** ☐ East ☒ West County: **Comanche County, Kansas**

INSTRUCTIONS: Show important logs 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 pressure, 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: Cement Bond-Micro Log-Duel Comp-
 Porosity Log-Duel Induction-Bore Hole Comp-
 Sonic Log

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

Name	Top	Datum
Hebner	4298	2294
Lansing	4484	-2480
Swope	4834	-2830
Marmaton	4992	-2988
Pawnee	5090	-3086
Ft. Scott	5126	-3122
Cherokee Shale	5134	-3130
Conglomerate	5210	-3206
Mississippian	5230	-3226
TOTAL DEPTH	5407	-3403

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	30"	20"	48#	40'	Grout		
Surface	12-1/4"	8-5/8"	24#	857'	65/35 Class A	300	6%gel
						100	3%cc 2%gel
Production	7-7/8"	4-1/2"	10.5#	5398'		150	18%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
2	5361 to 5371 Set Bridge Plug @ 5350	500 gal. 15% mud acid	5361'
2	5316 to 5323 5291 to 5300 5272 to 5280 and 5262 to 5264	3000 gal. 15% mud acid	5316 to 5262
2	5216 to 5224	500 gal. 15% mud acid	5216
2	5713 to 5116 5102 to 5106 5094 to 5098	2000 gal. 20% mud acid	5094

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8	5332	-		
Date of First, Resumed Production, SWD or Enhr.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
April 27, 2001					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcl	Water Bbls.	Gas-Oil Ratio	Gravity
	0	447	78 Load & Formation		

Disposition of Gas

METHOD OF COMPLETION

Production Interval

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

☐ Open Hole ☒ Perl. ☐ Dually Comp. ☒ Commingled 5371 to 5094
☐ Other (Specify)