

COPY

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

Operator: License # 5428
Name: Graves Drilling Co., Inc.
Address P.O. Box 8250
City/State/Zip Wichita, Ks 67208-8250

Purchaser:
Or for Contact Person: Fredrick Stump
Phone (316) 687-2777

Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Website Geologist: Dean Pattieson

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:
Operator:
Well Name:
Comp. Date Old Total Depth
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.
6-10-97 6-16-97 6-17-97
Spud Date Date Reached TD Completion Date

API NO. 15- 077-21326 0000
County Harper County, Kansas
C NE SW Sec. 18 Twp. 31S Rge. 8 X W
1980 Feet from SW (circle one) Line of Section
3300 Feet from EW (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, S, NW or SW (circle one)
Lease Name Bertholf Well # 1
Field Name Spivey Grabs
Producing Formation Mississippi
Elevation: Ground 1600 ~~1800~~' KB 1609 ~~1808~~'
Total Depth 4488' PBTB 4500'
Amount of Surface Pipe Set and Cemented at 268 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set Feet
If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.

Drilling Fluid Management Plan ALT 1 97H 12-10-97
(Data must be collected from the Reserve Pit)
Chloride content ppm Fluid volume 320 bbls
Dewatering method used Trucked Water Off
Location of fluid disposal if hauled offsite:
Operator Name Jody Oil & Gas
Lease Name Sanders #3 License No. 03288
 Quarter Sec. Twp. S. Rng. E/W
County Harper Docket No.

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 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 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 Fredrick W Stump
Title EXPLORATION MANAGER Date 8-28-97
Subscribed and sworn to before me this 28TH day of AUGUST,
19 97.
Notary Public Sandra J. Boyd
Date Commission Expires 5-13-99

SONDRA J. BOYD
Notary Public - State of Kansas
My Appt. Expires 5-13-99

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

SIDE TWO

Operator Name Graves Drilling Company

Lease Name Bertholf Well # 1

Sec. 18 Twp. 31S Rge. 8

East
 West

County Harper County, Kansas

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
(Attach Additional Sheets.)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)

Log Formation (Top), Depth and Datums Sample
Name Top Datum
Mississippi 4378 -2769

List All E.Logs Run: SONIC
DUAL INDUCTION
COMPENSATED DENSITY/PE

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"	20#	268'	60/40 Poz	185	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	4485'	50/50Pqz	125	10%salt 2%gel

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	4380-4395	450 Gal 7-1/2% Acid	
		Frac 525 SX Sand	
		915 BF	

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-7/8	4419			
Date of First, Resumed Production, SMD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
7-03-97					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	18	70	150	3.1 + .1	32

Position of Gas: METHOD OF COMPLETION

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

Open Hole Perf. Dually Comp. Commingled 4380
 Other (Specify) 4395

Production Interval

COBY