

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

*Corrected Section & Well Name

Operator: License # 5293
Name: Helmerich & Payne, Inc.
Address: 1579 E. 21st Street
City/State/Zip: Tulsa, OK 74114
Purchaser: Pan Energy
Operator Contact Person: Sharon LaValley
Phone: (918) 742-5531
Contractor: Name: MEDINA WELL SERVICE, INC.
License: 30921

Wellsite Geologist: N/A
Designate Type of Completion:
 New Well X Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
X Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: Helmerich & Payne, Inc.
Well Name: George Groth B2
Original Comp. Date: 08/1997 Original Total Depth: 5540
 Deepening XXX Re-perf. Conv. To Enhr./SWD
X Plug Back 3069 Plug Back Total Depth
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Enhr.?) Docket No.

02/17/00 03/10/00 03/20/00
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 081-21137-0001
County: Haskell
*- NW - SE - SW Sec.32 Twp. 29 S. R. 33 ☐ East ☒ West
1220 feet from S N (circle one) Line of Section
3730 feet from E W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
*Lease Name: George Groth Well #: 1R
Field Name: Hugoton
Producing Formation: Chase
Elevation: Ground: 2971' Kelly Bushing: 2983'
Total Depth: 5540' Plug Back Total Depth: 3069'
Amount of Surface Pipe Set and Cemented at 1852 Feet
Multiple Stage Cementing Collar Used? ☒ Yes ☐ No
If yes, show depth set 3124 Feet
If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.

REWORK JH 05/28/02
Drilling Fluid Management Plan
(Data must be collected from the reserve pit)
Chloride content ppm Fluid volume bbls
Dewatering method used
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License No.:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: 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 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 completed and correct to the best of my knowledge.

Signature: Sharon LaValley
Title: Engineer Tech Date: 4/16/02
Subscribed and sworn to before me this 16th day of April
20 02
Notary Public: Amy Warren
Date Commission Expires: 4/9/05



KCC Office Use Only	
<input type="checkbox"/>	Letter of Confidentiality Attached
<input checked="" type="checkbox"/>	If Denied, Yes <input type="checkbox"/> Date: <u> </u>
<input checked="" type="checkbox"/>	Wireline Log Received (CEMENT BOND)
<input type="checkbox"/>	Geologist Report Received
<input type="checkbox"/>	UIC Distribution

Operator Name: Helmerich & Payne, Inc. Lease Name: George Groth Well #: 1RSec. 32 Twp. 29 S. R. 33 ☐ East ☒ West County: Haskell

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 (Attach Additional Sheets)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Takes	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Electric Log Run (Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run: Cement Bond Log			

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"	28#	1852'		300	
Production	7 7/8"	5 1/2"	15.5#	5528'	1 st Stage: 50/50 Poz C	400	2% Gel, 10% slt, 1/4# flocele
		5 1/2"	15.5#	DV @ 3124	2 nd Stage: 50/50 Poz	430	2% Gel, 10% slt, 1/4# flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	3032'-3124'	50/50 Poz	430	10% NaCl + 1/4 lb. Flocele + 2% gel

Shot Per Foot	PERFORATIONS 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	Herrington 2632-2648'	35680 gal 70Q N2 Foam, 69000# 16/30 Ottawa Sand	
2	Krider 2662-2684' CIBP@ 5345'		
4	Winfield 2710-2730' CIBP@ 5290'		
	CIBP@ 4782'		
TUBING RECORD Size Set At Packer At 2 3/8 2808		Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. 3/20/00		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls 0	Gas Mcf 470	Water Bbls 7
		Gas-Oil Ratio Gravity	

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If Vented, Submit ACO-18)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <u>2632-2730'</u> <input type="checkbox"/> Other (Specify) _____	