

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

API NO. 15- 055-21659

County Finney

E/2 - NW - SE Sec. 22 Twp. 25S Rge. 34 X W

Operator: License # 5293

2000 Feet from S/N (circle one) Line of Section

Name: Helmerich & Payne, Inc. 1:34

1650 Feet from E/W (circle one) Line of Section

Address 1579 E. 21st Street

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

City/State/Zip Tulsa, OK 74114

Lease Name Norma Well # 1-22

Field Name Orange J. East

Purchaser:

Producing Formation Morrow

Operator Contact Person: Sharon LaValley

Elevation: Ground 2953' KB 2963'

Phone (918) 742-5531 KCC

Total Depth 5202' PBD 5200

Contractor: Name: Cheyenne Drilling MAY 02 2000

Amount of Surface Pipe Set and Cemented at 1864 Feet

License: 5283

Multiple Stage Cementing Collar Used? X Yes No

Wellsite Geologist: Brad Rine

If yes, show depth set 3194 Feet

Designate Type of Completion

If Alternate II completion, cement circulated from NA

X New Well Re-Entry Workover

feet depth to w/ sx cmt.

X Oil SWD SIOW Temp. Abd.
Gas ENHR SIGW
Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan ALT 1 JH 6-30-00
(Data must be collected from the Reserve Pit)

If Workover:

Chloride content ppm Fluid volume bbls

Operator:

Dewatering method used

Well Name:

Location of fluid disposal if hauled offsite:

Comp. Date Old Total Depth

Operator Name

Deepening Re-perf. Conv. to Inj/SWD
Plug Back PBD
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.

Lease Name License No.

10-30-99 11-8-99 12-9-99
Spud Date Date Reached TD Completion Date

Quarter Sec. Twp. S Rng. E/W

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 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 Sharon LaValley

Title Engineer Tech Date 3-2-00

Subscribed and sworn to before me this 2nd day of March 2000.

Notary Public Dena J. H. ...

Date Commission Expires August 17, 2002

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)
Release
MAY 16 2004
Form ACO-1 (7-91)

From Confidential

Operator Name Helmerich & Payne, Inc. Lease Name Norma Well # 1-22

East

County Finney

Sec. 22 Twp. 25S Rge. 34

West

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heeber	3873'	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Toronto	3890'	
List All E.Logs Run: <u>DIL/GR/SP/DIN/ML/CBL</u>		Lansing	3930'	
		Kansas City	4374'	
		Marmaton	4494'	
		Cherokee	4612'	
		Atoka	4828'	
		Morrow	4917'	
		Chester Lime	4990'	
		St. Genevieve	5025'	
		St. Louis	5082'	
		TD	5202'	

CASING RECORD							
<input type="checkbox"/> New <input type="checkbox"/> 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 1/2	8 5/8	24	1864	35/65 Poz C	650	6% D20 bent, 2% S1 CaCl + 1/4#/sx D29 flocele
					Class C	150	2% S1 CaCl + 1/4#/sx D29 flocele
Production	7 7/8	5 1/2	17	5175	(BTM)50/50 Cl-H	140	20# bent, 1% CB32 polymer, 10% NaCl + 1/4# celloflake
					(LEAD)65/35 Poz Cl-C	375	6% bens, 10% NaCl & 1/4# celloflake
					(TAIL)50/50 Poz Cl-C	75	2% bent, 10% NaCl & 1/4# celloflake

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

Shots per foot	PERFORATION RECORD	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	Morrow 4959-4970'	31000 gal 20# Delta Frac, 57000# 16/30 Ottawa Sand	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8	4959		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method			
12-9-99		<input checked="" type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input checked="" type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls.	Gas-Oil Ratio	Gravity
	43	0	5		

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: 4959-4970'

Other (Specify) _____