

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

COPY *ms*

Operator: License # 5293
Name: Helmerich & Payne, Inc.
Address 1579 E. 21st Street

City/State/Zip Tulsa, OK 74114

Purchaser: Gas - CIG Oil - NCR

Operator Contact Person: Sharon L. Key

Phone (918) 742-5531

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: Brad Rine

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:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBSD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

10-8-99 10-17-99 12-2-99
Spud Date Date Reached TD Completion Date

API NO. 15- 081-21253

County Haskell

SE NE NW Sec. 15 Twp. 27S Rge. 31 X W

700 Feet from S/N (circle one) Line of Section
2100 Feet from E/W (circle one) Line of Section

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

Lease Name K.C. Feedlot Well # 2

Field Name Pleasant Praire

Producing Formation Chester

Elevation: Ground 2952' KB 2962'

Total Depth 5308' PBSD 5295'

Amount of Surface Pipe Set and Cemented at 1845 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3184 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Att. 1, 5-1-00 U.C.
(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 Rng. E/W

County _____ Docket No. _____

RECEIVED
STATE CORPORATION COMMISSION
APR 28 2000
Wichita, Kansas
CONSERVATION DIVISION

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 Eng-Tech Date 2-16-2000
Subscribed and sworn to before me this 16th day of February, 2000
Notary Public Tung Jye Handorf
Date Commission Expires Aug-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)
IDG

Operator Name Helmerich & Payne, Inc. Lease Name K.C. Feedlot Well # 2

Sec. 15 Twp. 27S Rge. 31 East West County Haskell

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 Datum
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heeber	3868'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Toronto	3879'
List All E.Logs Run: DIL/GR/SP/ML/SL/N/D		Lansing	3906'
		Kansas City	4296'
		Marmaton	4528'
		Cherokee	4669'
		Atoka	4883'
		Morrow	4948'
		Chester Shale	5030'
		Chester Sand	5100'
		St. Louis	5161'
		TD	5308'

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 1/4	8 5/8	24	1845'	Halliburton Lite Prem Plus Prem Plus CLH	645 859	2% CaCl & 1/4# sx flocele 2% Bent + 1% CD32 + 10% NaCl + 1/4# sk celloflake
Production	7 7/8	5 1/2	17	5286'	(Btm) 50/50 Poz Class H	200	2% Bent, 1% CD32 polymer, 10% NaCl & 1/4# celloflake
					Top Stage (Lead) 35/65 Poz Class C	400	6% bent, 10% NaCl & 1/4# celloflake
					(Tail) 50/50 Poz Class 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 TD					
<input type="checkbox"/> Plug Off Zone					

Shots per foot	PERFORATION RECORD		Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated				(Amount and Kind of Material Used)	Depth
4	5102'-5135'				30,930 gal x-link gel w/96,000# 16/30 sd.	

TUBING RECORD							
Size	Set At	Packer At	Liner Run				
2 7/8	5076'		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Date of First, Resumed Production, SWD or Inj. 12/2/99			Producing Method				
			<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	
	138	84					

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

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

Production Interval: 5102'-5135'

Other (Specify) _____

STATE OF KANSAS - CORPORATION COMMISSION
PRODUCTION TEST & GOR REPORT

COPY
Form C-5 Rev.

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE:

Company HELMERICH & PAYNE INC. Lease KC Feedlot Well No. # 2

County HASKELL Location 700FNL-2100'FNL Section 15 Township 27S Range (E/W) 34W Acres

API Well Number 15-018-212530000 Reservoir(s) Chester Gas Pipeline Connection C16

Completion Date 2-15-2000 Type of Completion (Describe) Single hole Plug Back T.D. Packer Set At NA

Lifting Method: Pumping Gas Lift ESP Type Liquid Oil & Water API Gravity of Liquid/Oil 34

Casing Size 5 1/2" Weight 17# ID. 4.892 Set At 5242' Perforations 5102 To 5135

Tubing Size 2 7/8" Weight 6.5# ID. 2.441 Set At 5033 Perforations To

Pretest Starting Date Time AM/PM Ending Date Time AM/PM

Test Starting Date 2-14-2000 Time 9:00 AM/PM Ending Date 2-15-2000 Time 9:00 AM/PM

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Casing: 5 Pig Tubing: 45 Pig Separator Pressure 36 Pig Choke Size

Bbls./In.	Stock Tank		Starting Gauge			Ending Gauge			Net API Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Test	<u>300</u>	<u>1466</u>	<u>9</u>	<u>4</u>	<u>187</u>	<u>12</u>	<u>3</u>	<u>245</u>		<u>58</u>
Test	<u>300</u>	<u>1465</u>	<u>2</u>	<u>11</u>	<u>58</u>	<u>6</u>	<u>11</u>	<u>138</u>		<u>80</u>
Test water	<u>210</u>	<u>N.A.</u>	<u>1</u>	<u>6</u>	<u>54</u>	<u>2</u>	<u>2</u>	<u>78</u>	<u>24</u>	

Total 138

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections (Yes/No) X Orifice Meter Range 5.46
Pipe Taps: Flange Taps: X Differential: 20 Static Pressure: 100

Type Measuring Device	Entry Size	Orifice Size	Meter-Prover-Tester Pressure					Diff. Press. (h ₁) or (h ₂)	Gas Gravity (G _g)	Flowing Temp. (t)
			In. Water	In. Merc.	Pig or (P ₂)	%CO ₂	H ₂ S ppm			
Orifice Meter	<u>2"</u>	<u>1.38</u>					<u>0</u>	<u>4</u>		<u>60</u>
Critical Flow Prover										
MERLA Well Tester										

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (F ₁) (F ₂)	Meter-Prover Press. (P _{1a}) (P ₂)	Press. Extension $\sqrt{h_1 \cdot P_1}$	Gravity Factor (F _g)	Flowing Temp. Factor (F _t)	Deviation Factor (F _p)	Sqr. Rt. Chart Factor (F _c)
<u>5.46</u>						

Gas Prod. MCFD Flow Rate (R): 84 Oil Prod. Bbls./Day: 138 Gas/Oil Ratio (GOR) = Cubic Feet per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this day of 19 .

For Orifice Operator For Commission For Company

RECEIVED STATE CORPORATION COMMISSION 355-9346

APR 28 2000

CONSERVATION DIVISION Wichita, Kansas

Amended

Confidential

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

ORIGINAL

API NO. 15- 081-21253
County Haskell
SE - NE - NW Sec. 15 Twp. 27S Rge. 31 X W
700 Feet from S(N) (circle one) Line of Section
2100 Feet from E(N) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name K.C. Feedlot Well # 2
Field Name Pleasant Praire
Producing Formation Chester
Elevation: Ground 2952' KB 2962'
Total Depth 5308' PBD 5295'
Amount of Surface Pipe Set and Cemented at 1845 Feet
Multiple Stage Cementing Collar Used? X Yes No
If yes, show depth set 3184 Feet
If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.
Drilling Fluid Management Plan ALT 1 gH 6-30-00
(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 Rng. E/W
County Docket No.

Operator: License # 5293
Name: Helmerich & Payne, Inc.
Address 1579 E. 21st Street

City/State/Zip Tulsa, OK 74114

Purchaser:

Operator Contact Person: Sharon LaValley

Phone (918) 742-5531

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: Brad Rine

Designate Type of Completion
X New Well Re-Entry Workover

X Oil SWD S1OW Temp. Abd.
Gas ENHR SIGW
Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: MAR 02 2000

Well Name: CONFIDENTIAL

Comp. Date Old Total Depth

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

10-8-99 10-17-99 12-2-99
Spud Date Date Reached TD Completion Date

CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
Wichita, Kansas
MAR 6 - 2000

KCC

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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
Notary Public Tessa Jayne Handley
Date Commission Expires August 17, 2002

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

Released
MAY 10 2004

Operator Name Helmerich & Payne, Inc. Lease Name K.C. Feedlot Well # 2

Sec. 15 Twp. 27S Rge. 31 East West County Haskell

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.)
 List All E.Logs Run: DIL/GR/SP/ML/SL/N/D

Name	Formation (Top), Depth and Datums	Top Datum	Sample Datum
Heeber		3868'	
Toronto		3879'	
Lansing		3906'	
Kansas City		4296'	
Marmaton		4528'	
Cherokee		4669'	
Atoka		4883'	
Morrow		4948'	
Chester Shale		5030'	
Chester Sand		5100'	
St. Louis		5161'	
TD		5308'	

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
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Production	7 7/8	5 1/2	17	5286'	(Btm) 50/50 Poz Class H	200	2% Bent, 1% CD32 polymer, 10% NaCl & 1/4# celloflake
					Top Stage (Lead) 35/65 Poz Class C	400	
					(Tail) 50/50 Poz Class C	75	

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 TD					
<input type="checkbox"/> Plug Off Zone					

Shots per foot	PERFORATION RECORD <input checked="" type="checkbox"/> Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
4	5102'-5135'		30,930 gal x-link gel w/96,000# 16/30 sd.	
TUBING RECORD			Liner Run	
Size	Set At	Packer At	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2 7/8	5076'			
Date of First, Resumed Production, SWD or Inj.			Producing Method	
12/2/99			<input checked="" 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	Gas MCF	Water Bbls.	Gas-Oil Ratio
	138	84		

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 5102'-5135'
 (If vented, submit ACO-18.) Other (Specify) _____