KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY – DESCRIPTION OF WELL & LEASE

RECEIVED
KANSAS CORPORATION COMMISSION
JUL 19 2001
CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

COPY

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:
Designate Type of Completion:
_X_ New Well ____ 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:
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. ____

04/20/01	04/23/01	05/08/01
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 055-21740
County: Finney
_-_SW-_SW-_SW Sec. 32 Twp. 26 S. R. 31 ☐ East ■ West
2752 feet from (S) / N *(circle one)* Line of Section
4770 feet from (E) / W *(circle one)* Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: Main Well #: 1-2
Field Name: Hugoton
Producing Formation: Chase
Elevation: Ground: 2831' Kelly Bushing: 2837'
Total Depth: 2817' Plug Back Total Depth: 2755'
Amount of Surface Pipe Set and Cemented at 479 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ■ No
If yes, show depth set ____ Feet
If Alternate II completion, cement circulated from 2808
feet depth to surface w/ 525 sx cmt.

ALT 2 JK 8/7/02

Drilling Fluid Management Plan
(Data must be collected from the reserve pit)

Chloride content Est 1000 ppm Fluid volume Est 800 bbls
Dewatering method used Evaporation
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: 7/17/01
Subscribed and sworn to before me this 17th day of July, 20__.
Notary Public: Lori Tye
Date Commission Expires: 6/13/04

Notary Public Oklahoma
OFFICIAL SEAL
LORI TYE
TULSA COUNTY
Comm. Exp. 06/13/04

KCC Office Use Only

____ Letter of Confidentiality Attached
__✓__ If Denied, Yes ☐ Date: ____
Wireline Log Received
____ Geologist Report Received
____ UIC Distribution

✓

15-055-21676-0000

Side Two

Operator Name: Helmerich & Payne, Inc. Lease Name: Main Well #: 1-2

Sec. 32 Twp. 26 S. R. 31 ☐ East ■ West County: Finney

Instructions: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests gi 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)	☐ Yes	■ No
Samples Sent to Geological Survey	☐ Yes	■ No
Cores Takes	☐ Yes	■ No
Electric Log Run (Submit Copy)	■ Yes	☐ No

List All E. Logs Run:

Dual Spaced Neutron

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

Name Top Datum

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	12¼"	8 5/8"	23#	479'	Prem Plus Lite C	100	2% CC + 1/8# polyflake
					50/50 Poz Prem Plus	125	2% CC + 1/8# polyflake
Production	7 7/8"	5½"	14#	2808'	Prem Plus Lite	400	1/8# polyflake
					50/50 poz	125	10% Salt + 1/8# polyflake

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
__ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone				

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	2633'-2640'	500 gal 15% FE Acid, 31,700 gal 70Q N2 foam 52000# 16/30 White Sand	2633-2640

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	2679'		☐ Yes ■ No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
5/8/01	☐ Flowing ■ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls	Gas Mcf	Water Bbls	Gas-Oil Ratio	Gravity
	0	301	127		

Disposition of Gas METHOD OF COMPLETION Production Interval

☐ Vented ■ Sold ☐ Used on Lease (If Vented, Submit ACO-18)

☐ Open Hole ■ Perf. ☐ Dually Comp. ☐ Commingled 2633-2640'

☐ Other (Specify)

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

FORM G-2 (Rev. 8/98) FILE ONLY

RECEIVED KANSAS CORPORATION COMMISSION JUL 19 CONSERVATION DIVISION COPY

Type Test:
☐ Open Flow
☒ Deliverability

TEST DATE: 07/02/01 API No. 15- 055-21740

COMPANY	LEASE	Well Number
Helmerich & Payne, Inc.	Main	1-2

COUNTY	LOCATION	SECTION	TWN	RNG	ACRES
Finney	2752' FSL & 4770' FEL	32	26S	31W	640

FIELD	RESERVOIR	PIPELINE CONNECTION
Hugoton	Chase	Oneok

COMPLETION DATE	PLUG BACK TOTAL DEPTH	PACKER SET AT
05/08/01	2755'	

CASING SIZE	WT.	I.D.	SET AT	PERF	TO
5 ½	14		2808'	2633'	2640'

TUBING SIZE	WT.	I.D.	SET AT	PERF	TO
2 3/8"			2679'		

TYPE COMPLETION (Describe)	TYPE FLUID PRODUTION	PUMP UNIT OR TRAVELING PLUNGER? YES/NO
Single		

PRODUCING THRU	RESERVOIR TEMPERATURE F	BAR.PRESS Pa
Tbg/Csg		14.4 Psia

GAS GRAVITY – Gg	%CARBON DIOXIDE	%NITROGEN	API GRAVITY OF LIQUID

VERTICAL DEPTH (H)	TYPE METER CONN.	(METER RUN)(PROVER)SIZE
2817'	Flange	3 x 1"

SHUT-IN PRESSURE: SHUT IN: 06/29 20 01 at ____ (AM) (PM) TAKEN 07/02 20 01 at ____ (AM) (PM)
FLOW TEST: STARTED 06/25 20 01 at ____ (AM) (PM) TAKEN 06/28 20 01 at ____ (AM) (PM)

DURATION OF SHUT-IN ____ HR.

OBSERVED DATA

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE Psig	DIFF. in. (Hw)(Hd)	FLOWING TEMP. T	WELL-HEAD TEMP. T	CASING WELLHEAD PRESS. psig	CASING WELLHEAD PRESS. (Pw)(Pt)(Pc) psig	TUBING WELLHEAD PRESS. psig	TUBING WELLHEAD PRESS. (Pw)(Pt)(Pc) psig	DURATION HOURS	LIQUID PROD. BbLS.
SHUT-IN		179.5				179.5	193.9				
FLOW	1.0	39.4	20.2			140	154.4				

RATE OF FLOW CALCULATIONS

COEFFICIENT (Fb)(Fp) Mcfd	(METER) (PROVER) PRESSURE Psig	EXTENSION √Pmxhw	Gravity Factor Fg.	Flowing Temp Factor Ft.	Deviation Factor Fpv	Rate of Flow R Mcfd	GOR	Gm
5852.7	53.8	32.97				193		

(OPEN FLOW) (DELIVERABILITY) CALCATIONS

(Pc)2 = 37597.21 (Pw)2= 23839.36 Pd= ____ % (Pc-14.4) +14.4 = ____ (Pa)2=0.207 (Pd)2= 259.01

(Pc)2-(PA)2 OR (Pc)2-(Pd)2	(Pc)2 - (Pw)2	Pc2-Pz2 / Pc2-Pd2 / Pc2-Pw2	LOG [ ]	"n"	N x Log [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R X ANTILOG MCFD
37338.0	13757.85	2.71	.43	.85	.37	2.34	451

OPEN FLOW Mcfd @ 14.65 psia DELIVERABILITY Mcfd @ 14.65 psia

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

Executed this the ____ day of ____, 20 01.

Helmerich & Payne, Inc.
For Company

Witness (if any)

Checked by

FILE ONLY

HELMERICH & PAYNE, INC.
Well Test Data Form

COPY

Well Name	Formation
Main 1-2	[illegible]

Location Sec	Location Twp	Location Rge	Purchaser
32	26S	31W	Oneok 5.8527

Well On (Open) Mo	Day	Yr	Flow Test: Flow Date Mo	Day	Yr	Orifice Size	Tap Flange	Tap Pipe
6	25	01	6	28	01	1"	✓	

Meter Run Size	Meter Spring Size	Meter Diff Range	Meter Pressure
2"	250#	100	39.4

Differential Rts.	%	In.	Flowing Tbg/csg Pressure	Static Tbg/csg Pressure	Flowing String Tubing	Casing
		20	140 C			✓

Rate of Flow MCF/D	Adjusted Deliverability MCF/D
20 193	451

Well Off (Shut-In) Mo	Day	Yr	Shut-In Test: Pressure Taken Mo	Day	Yr	Csg Press (psig)	Tbg Press (psig)
6	29	01	7	2	01	179.5	

Slope	Bbls Water Produced
	100661

Remarks 20-39 [illegible] 134 [illegible]

9:30 [illegible] 20-39 18 [illegible]

Rest Time 3 days

S.I. psi prior to flow 169.5

[signature]

Company Representative

FILE ONLY.

STATE OF KANSAS - CORPORATION COMMISSION

FIELD TEST

☐ Annual ☒ New Well ☐ Rework Well ☐ Vacuum

___ Operator Code H&P Operator Name

___ Purchaser Code Duke Purchaser Name

FIELD Lease Code

☒ Hugoton 0 0 0 2 1

☐ Greenwood

☐ Panoma

Main Lease Name

Finney County

640 Acres Well Number 1-2 Sec. 32 Twp. 26 Range 31

TEST DATA

Well Opened Date 6 - 25 - 01 (month day year) Test Completed Date 7 - 2 - 2001 (month day year)

Type Meter Connection ___ Size Disc 3 X 1.00

20.2 Differential (h) (in water)

37.4 Meter Pressure P_m (psig)

552.7 Coeff 24 CM_g

179.5 Shut In Well Head Pressure (psig)

140.2 Working Well Head Pressure (psig)

☐☐☐ N-Slope (Panoma Only)

☐☐☐ Gravity (Panoma and Greenwood)

10 - 25 - 2001 Effective Date (month day year)

Representative for Operator By Representative For Kansas Corp. Comm.

SALT WATER PRODUCTION & DISPOSAL DATA

AVERAGE DAILY WATER PRODUCTION (producing days only) 10.☐ bbls.

SALT WATER DISPOSAL

Surface Lease Installation: (Earthen pit ___ Cement pit ___ Tank F etc.)

Disposal Well: ___ Location: ___