

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

ORIGINAL

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: NONE
Designate Type of Completion:
X New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
X Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)
If Workover/Re-entry: Old Well Info as follows:

API No. 15 - 055-21733 . 0000
County: Finney
 - NW - SE - SE Sec. 32 Twp. 21 S. R. 34 East West
1250 feet from S / N (circle one) Line of Section
1250 feet from E / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Hutchinson Well #: 1-2
Field Name: Hugoton
Producing Formation: Chase
Elevation: Ground: 2987' Kelly Bushing: 2992'
Total Depth: 2735' Plug Back Total Depth: 2678'
Amount of Surface Pipe Set and Cemented at 308' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 2724
feet depth to surface w/ 525 sx cmt.

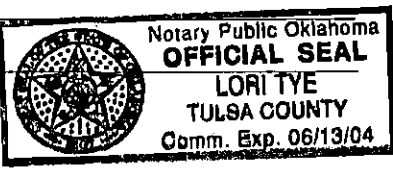
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. To Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
03/03/01 03/06/01 04/20/01
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

Drilling Fluid Management Plan **RECEIVED ALT 2 92 12/11/02**
(Data must be collected from the reserve pit) KANSAS CORPORATION COMMISSION
Chloride content Est 1000 _____ ppm Fluid volume 800 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: 6-18-01
CONSERVATION DIVISION
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: 6/14/01
Subscribed and sworn to before me this 14th day of June
2001.
Notary Public: Lori Tye
Date Commission Expires: 6/13/04



KCC Office Use Only
 Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

✓

X

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

Sec. 32 Twp. 21 S. R. 34 East West County: Finney

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

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

List All E. Logs Run:

Dual Spaced Neutron ✓

CASING RECORD <input checked="" 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"	23#	308'	Prem Plus Lite C	60	2% CC + 1/4# Flocele
					50/50 Poz Prem Plus C	125	2% CC + 1/4# Flocele
Production	7 7/8"	5 1/2"	15.5#	2724'	Prem Plus Lite	400	1/4# Flocele
					50/50 Poz	125	10% Salt + 1/4# flocele

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				

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 2527-2534'	Acid: 1,000 gals 15% HCL acid	2527-2568'
4	Upper Krider 2560-2568'	Frac: 41,000 lbs 16/30 sand, 27,700 gals 70Q foam	2527-2568'

TUBING RECORD	Size 2 3/8"	Set At 2589'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr. 04/20/01	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls	Gas Mcf	Water Bbls	Gas-Oil Ratio	Gravity
		40	3		

Disposition of Gas Vented Sold Used on Lease (If Vented, Submit ACO-18)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled 2527-2568'

Production Interval Other (Specify) _____



15.055.217 33.0000

JOB SUMMARY 70006

TICKET #	1173764	TICKET DATE	3-2-2001
BDA / STATE	KANSAS	COUNTY	FINNEY
PSL DEPARTMENT	5001		
CUSTOMER REP / PHONE	DAMASO		
APL / UWI #			
JOB PURPOSE CODE	010 ORIGINAL		
HES FACILITY (CLOSEST TO WELL SITE)	LIBERAL KANSAS		

REGION	North America	NWA / COUNTRY	CENTRAL
MBU ID / EMP #	MCPA 0109 106250	EMPLOYEE NAME	DAVID BARROW
LOCATION	Pampa	COMPANY	Cheyenne Delq
TICKET AMOUNT	6754.48	WELL TYPE	02
WELL LOCATION	North of Holcom B	DEPARTMENT	Z1
LEASE / WELL #	Hutchinson 1-2	SEC / TWP / RNG	32-215-34W

HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
Barrow 106250	4						
CAPOBATER 105853	4						
Jiminez	4						
BREATHY 200513	4						
HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES
421327	2480						
53777-78324	440						
52938-77031	100						

Form Name _____ Type: _____
 Form Thickness _____ From: _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp: _____ Pressure _____
 Misc Data _____ Total Depth _____

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
3-2-2001	10:00	3-2-2001	17:00	3-2-2001	19:20
					19:45

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Floater Collar Insert	1	Howco
Floater Shoe F11-1154	1	
Guide Shoes		
Centralizers	3	"
Bottom Plug		
Top Plug	1	"
Head		
Packer		
Other Wells-A	1	"

WELL DATA						
	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		24	8 5/8	KB	313	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						SHOTS/FT.
Open Hole			12 1/4	KB	308	
Perforations						
Perforations						
Perforations						

MATERIALS		
Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	In
Perfpac Balls	Qty	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
3-2	4	3-2	4	CONSERVATION DIVISION WILKINSON SURFACE COMMISSION
TOTAL	4	TOTAL	4	

CEMENT DATA				
STAGE	SACKS	CEMENT	BULK/SKS	ADDITIONS
1	60	H/C		2% CC, 1/8 #1st Poly Flake
1	125	Prem Plus		2% CC, 1/8 #1st Poly Flake

Circulating _____ Displacement _____ Preflush: Gal-BBL _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal-BBI _____ Pad: BBI-Gal _____
 Average _____ Frac Gradient _____ Treatment Gal-BBI _____ Disp: BBI-Gal 17
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal-BBI 22
 Total Volume Gal-BBI 69

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
 CUSTOMER'S REPRESENTATIVE SIGNATURE
 Ramon Ruiz

THE INFORMATION STATED HEREIN IS CORRECT



15.055.21733.0000

JOB SUMMARY 70006

REGION North America	NWA / COUNTRY Mid CONTINENT	TICKET # 1177398	TICKET DATE 3-5-01
MBU ID / EMP # MCL 70104 105898	EMPLOYEE NAME JOHN Woodrow	BDA / STATE KS	COUNTY HUTCHINSON
LOCATION LIBERAL KS	COMPANY Helmerich & Payne	PSL DEPARTMENT ZONAL ISOLATION	CUSTOMER REP / PHONE DAVE PAULY 316-272-1125
TICKET AMOUNT \$ 10151.10	WELL TYPE C2	API / UWI #	JOB PURPOSE CODE 035
WELL LOCATION HOLCOMB KS	DEPARTMENT CEMENT	HES FACILITY (CLOSEST TO WELL SITE) LIBERAL KS	
LEASE / WELL # HUTCHINSON #1-2	SEC / TWP / RNG 32-21S-34W	ORIGINAL	

HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
J. Woodrow 105898	5	G. Humphries 106055	5				
J. Pinner 106056	5	B. Berkutly 200513	5				

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
920621 P/G	7.1	52938-7703	3.5				
54219-78299	7.0	54225-7584	3.5				

Form Name _____ Type: _____
 Form Thickness _____ From: _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp: _____ Pressure _____
 Misc Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
TIME 0700	3-5-01	3-5-01	3-5-01	3-5-01
	0730			

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar INSERT 5/2	1	H
Float Shoe		
Guide Shoes REG 5/2	1	O
Centralizers 5-41 5/2	11	
Bottom Plug		W
Top Plug 5-W 5/2	1	
Head P/C 5/2		C
Packer		
Other		O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5/2	KB	2724	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						SHOTS/FT.
Open Hole						
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid _____	Density _____	Lb/Gal
Disp. Fluid _____	Density _____	Lb/Gal
Prop. Type _____	Size _____	Lb.
Prop. Type _____	Size _____	Lb.
Acid Type _____	Gal. _____	%
Acid Type _____	Gal. _____	%
Surfactant _____	Gal. _____	In
NE Agent _____	Gal. _____	In
Fluid Loss _____	Gal/Lb _____	In
Gelling Agent _____	Gal/Lb _____	In
Fric. Red. _____	Gal/Lb _____	In
Breaker _____	Gal/Lb _____	In
Blocking Agent _____	Gal/Lb _____	
Perpac Balls _____	Qty _____	
Other _____		
Other _____		
Other _____		
Other _____		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				RECEIVED
				KANSAS CORPORATION
				ON COMMISSION
				JUL 18 2001
				CONSERVATION DIVISION
TOTAL		TOTAL		

ORDERED _____	HYDRAULIC HORSEPOWER/Avail _____	Used _____
TREATED _____	AVERAGE RATES IN BPM/Disp _____	Overall _____
FEET 37.30	CEMENT LEFT IN PIPE Reason _____	SHOE JOINT

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	400	pr HLC	B	1/8 Poly FAKI	2.07	12.2
	125	pr 50/50 pol	B	1/8 Poly FAKI NOB SALT	1.28	14

Circulating _____ Displacement _____ Preflush: Gal (BB) 10 Type mud flush
 Breakdown _____ Maximum _____ Load & Bkdn: Gal-BBI _____ Pad: BBI-Gal
 Average _____ Frac Gradient _____ Treatment Gal-BBI _____ Disp (BBI) Gal 64
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal (BB) 177.46G 28.5 TC
 Total Volume Gal-BBI _____

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
 CUSTOMER'S REPRESENTATIVE SIGNATURE
THE INFORMATION STATED HEREIN IS CORRECT

STATE OF KANSAS - CORPORATION COMMISSION

FIELD TEST

Annual New Well Rework Well Vacuum
Operator Code 515 Operator Name HYP

Purchaser Code 55 Purchaser Name Block
FIELD Lease Code

Hugoton 57755 Lease Name Hutchinson
 Greenwood
 Panama

Finney County

640 Acres Well Number 1-2 Sec 32 Twp. 21 Range 34

TEST DATA

Well Opened Date 6-4-00 Test Completed Date 6-11-2001
month day year month day year

Type Meter Connection 71977 Size Disc 3x.750

 .1

Differential (h) (in water)

38.1

Meter Pressure P_m (psig)

3292.1

Coeff 24 CM_g

46.7

Shut In Well Head Pressure (psig)

38.3

Working Well Head Pressure (psig)

N-Slope (Panama Only)

Gravity (Panama and Greenwood)

6-4-2001
month day year

Effective Date

Representative for Operator

By [Signature] Representative For Kansas Corp. Comm

SALT WATER PRODUCTION & DISPOSAL DATA

AVERAGE DAILY WATER PRODUCTION (producing days only) 2.5 bbls.

SALT WATER DISPOSAL

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

Disposal Well: Location:

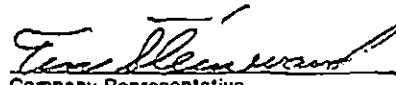
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JUN 18 2001
CONSERVATION DIVISION

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HELMERICH & PAYNE, INC.
Well Test Data Form

04-1.2						38					
Well Name						Formation					
Hutchinson-1-2						Hug					
Location			Purchaser								
Sec	Twp	Rge									
32	215	34 th	DUEOK			3292.1					
Well On (Open)						Flow Test					
Flow Date			Orifice Size			Tap					
Mo	Day	Yr	Mo	Day	Yr		Flange	Pipe			
6	4	01	6	7	01	0.75	<input checked="" type="checkbox"/>				
Meter Run Size			Meter Spring Size			Meter Diff Range			Meter Pressure		
3"									38.1		
Differential			Flowing Tbg/csg Pressure			Static Tbg/csg Pressure			Flowing String		
Rts.	%	In.							Tubing	Casing	
		1.0	38.3							<input checked="" type="checkbox"/>	
Rate of Flow MCF/D						Adjusted Deliverability MCF/D					
24						72					
Well Off (Shut-In)						Shut-In Test					
Pressure Taken			Csg Press (psig)			Tbg Press (psig)					
Mo	Day	Yr	Mo	Day	Yr						
6	8	01	6	11	01	46.7					
Slope			Bbls Water Produced								
			2.5 ABL daily								
Remarks											
6-5-2001-39 th - 0.7 diff											
6-6-2001-38 th 0.6											
Rest Time <u>3</u> days						S.l. psi prior to flow <u>45</u>					
						 Company Representative					

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JUN 18 2001
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