

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

Operator: License # 5293
 Name: Helmerich & Payne, Inc.
 Address: P. O. Box 558
 City/State/Zip: Garden City, Kansas 67846
 Purchaser: Colorado Interstate Gas
 Operator Contact Person: Ken Jehlik or Art Childers
 Phone: (316) 276-3693
 Contractor: Name: Cheyenne Drilling Rig 2
 License: 5382
 Wellsite Geologist: Bradford Rine

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGH
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:
 Operator: Helmerich & Payne, Inc.
 Well Name: Carlton #1-2
 Comp. Date 12-19-95 Old Total Depth 5320
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back 2733 PBT
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

12-19-95 2-23-96
~~Start~~ Date OF START Date Reached TD Completion Date
 OF WORKOVER State Test

SIDE ONE

API NO. 15- 055-21445-0001 ORIGINAL
 County Finney
E/2 - NW - SE - NW Sec. 6 Twp. 26s Rge. 34 X W
330' Feet from S (circle one) Line of Section
1650' Feet from E (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 NE, SE, SW (circle one)
 Lease Name Carlton Well # 1-2
 Field Name Hugoton
 Producing Formation Hugoton Chase
 Elevation: Ground 3020 KB 3031
 Total Depth 5320 PBT 2733'
 Amount of Surface Pipe Set and Cemented at 1961 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from _____
 feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan REWORK JH 4-2-96
 (Data must be collected from the Reserve Pit)
 Chloride content 900 ppm Fluid volume 8000 bbls
 Dewatering method used Evaporation
 Location of fluid disposal if hauled offsite:
 Operator Name 3-13-96
 Lease Name _____ License No. _____
 _____ Quarter Sec. _____ Twp. S Rng. _____ E/W
 County _____ Docket No. _____

RECEIVED
 KANSAS CORP. COM. DIV.
 MAR 13 1996

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 [Signature] AC
 Title Dist. Mgr. Date 3-12-96
 Subscribed and sworn to before me this 12th day of March, 1996.
 Notary Public [Signature]
 Date Commission Expires August 15, 1996

K.C.C. OFFICE USE ONLY		
<input type="checkbox"/>	F	Letter of Confidentiality Attached
<input type="checkbox"/>	C	Wireline Log Received
<input type="checkbox"/>	C	Geologist Report Received
<input checked="" type="checkbox"/>	KCC	Distribution
<input type="checkbox"/>	KGS	SWD/Rep _____ NGPA _____
		Plug _____ Other _____
		(Specify)

Operator Name Heimerich & Payne, Inc. SIDE TWO
 Lease Name Carlton Well # 1-2
 Sec. 6 Twp. 26s Rge. 34 East
 West County Finney

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 checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" 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	Heebner	3872	-841
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing "F"	4194	-1163
<i>Previously sent</i>		Kansas City "A"	4343	-1312
List All E.Logs Run:		Kansas City "B"	4438	-1407
GR - CNL - FDC		Marmaton "C"	4544	-1513
GR - Array Induction		Morrow	4945	-1914
GR - Microlog		St. Genevieve	5060	-2029
		St. Louis "C"	5230	-2199

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	24	1961	65/35 Poz "C"	580	2% CaCl2 1/4# sx flocele
Production					Class "C"	150	2% CaCl2, 1/4# sx flocele
Production	7-7/8	5-1/2	15.5	2777	65/35 Poz "C" 50/50 Poz "C"	350 125	6% gel, 1/4# sx flocele 2% gel, 10% salt, 0.75% Halad 322, 1/4# sx 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 checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2900 3100	Class "H"	75	Neat

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
2	2552-2568'	Herlington	Acidize w/ 4000 gallons 7-1/2% HCl. Frac w/ 55000 gal 25# linear gel and 53500 gal 25# x-link w/ 12000# 30-70, 50500# 20-40, and 219000# 10-20.	
2	2572-2588'	Krider		
2	2610-2613'	Winfield		
2	2616-2626'	Winfield		
2	2630-2634'	Winfield		
1	2654-2658'	Upper Fort Riley		
1 per 3 feet	2671-2698'	Upper Fort Riley		

TUBING RECORD	Size None	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 2-23-96 State Test	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production	Oil Bbls.	Gas 326 Mcf	Water 0 Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease. (If vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____
 Production Interval: 2552-2698'

DOWELL

A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

OILFIELD SERVICES

Dowell Service Order Receipt & Invoice No. 03-12-7987
 Dowell Service Location Name and Number UKS 03-12

CUSTOMER'S NAME [REDACTED]
 ADDRESS _____
 CITY, STATE AND ZIP CODE _____

IMPORTANT
 SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO.	DAY	YR.	TIME
	12	19	95	0300

SERVICE ORDER I authorize work to begin per service instructions in accordance with terms and conditions printed on the reverse side of this form and/or attached to this form and represent that I have authority to accept and sign this order.

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
Arthur G. Chittler

JOB COMPLETION	MO.	DAY	YR.	TIME
	12	19	95	

SERVICE RECEIPT I certify that the materials and services listed were received and all services performed in a workmanlike manner.

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
Arthur G. Chittler

Dowell will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS in accordance with the general terms and conditions as printed on the reverse side of this service order and/or attached to this service order. This service order is subject to alternative dispute resolution.

PLUG BACK & CEMENT PRODUCTION CASING W/MATERIALS BELOW PER CUSTOMER INSTRUCTIONS

CUSTOMER NUMBER	CUSTOMER PO/CONTRACT NUMBER	TYPE SERVICE CODE	WORKOVER NEW WELL OTHER	AFE NUMBER
		285	<input type="checkbox"/> W <input checked="" type="checkbox"/> N <input type="checkbox"/> O	

STATE	CODE	COUNTY/PARISH	CODE	CITY
KS	15	FINNEY	055	PLYMELL

WELL NAME AND NUMBER/JOB SITE	LOCATION NAME AND NUMBER/OFFSHORE PLATFORM
<u>1-21</u> <u>CARLTON</u> <u>12 formerly A3</u>	<u>SEC 6-263-34W</u>

ACCOUNTING CODES	ROUND TRIP MILEAGE
	110

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
102871-030	CMT PUMP	EA	1	1460.00	1460.00
049030-000	PLUG BACK	EA	1	1050.00	1050.00
059200-002	MILEAGE	MI	55	2.95	162.25
059697-000	PACR	EA	1	167.00	167.00
048601-000	CMT HEAD	EA	1	70.00	70.00
049102-000	HAULING	TN	1427	1.05	1498.35
049100-000	SERVICE CHARGE	CHG	594	1.43	849.42
040003-000	D903 CLASS H	CMT	291	10.42	3032.22
040015-000	D909 CLASS H	CMT	75	9.00	675.00
045614-050	D20 BENTONITE	lbs	2080	.17	353.60
101545-000	D132 LITEFOZ	CMT	184	4.39	807.76
045004-050	D44 SALT	lbs	642	.13	83.46
044003-025	D29 CELLULOSE FLAKES	lbs	179	1.77	316.63
044002-050	D60 FLUID LOSS	lbs	87	9.30	809.10
047007-050	D46 ANTI-FOAM	lbs	22	3.41	75.02
050101-054	CEMENT GUIDE SHOE	EA	1	170.00	170.00
053003-054	ORIFICE FLOAT VALVE	EA	1	260.00	260.00
056011-054	CENTRALIZERS	EA	5	66.00	330.00
056702-054	TOP PLUG	EA	1	75.00	75.00
056019-054	STOP RING	EA	1	18.00	18.00
057499-001	THREAD LOCK COMPOUND	EA	1	28.00	28.00
100282-000	D826 CWT CHEMICAL WASH	BBL	10	32.20	322.00

SERVICE ORDER RECEIPT

FIELD EST. 12,457.01 SUB TOTAL

LICENSE/REIMBURSEMENT FEE	
LICENSE/REIMBURSEMENT FEE	

REMARKS: <u>THANKS FOR CALLING DOWELL</u> <u>LOUIE & CREW</u>	STATE COUNTY CITY	% TAX ON \$	SIGNATURE OF DOWELL REPRESENTATIVE <u>Louis H. D. New</u>	TOTAL \$
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**CEMENTING SERVICE REPORT
SUPPLEMENT LOG**

5-496-1 PRINTED IN U.S.A.

TD 7 7/8 5320' CEMENT TO SURFACE 35 BBL 93 SKS
 TO 5 1/2 2796' INSERT 27'
 TD - SHOE JT 2133'
 DISPLACEMENT 65 BBL

DATE
12-19-95

TREATMENT NUMBER 03-12-7887

PAGE 1 OF 1 PAGES

CUSTOMER WELL NAME AND NUMBER
CARLTON # 1-2

LOCATION (LEGAL)
SEC 6-26S-34W

DS LOCATION
UKS 0312

TIME 0001 to 2400	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	T&G OR D.P.	CASING	INCREMENT	QJM				
0300								ARRIVE LOC-SPOT UNITS & HOOK - XTRA TIME TO HOOK UP DUE TO TEMP. - CONNECTIONS FROZE
0532	30		2	0	2 BPM	H ₂ O	8.3	START WATER
0533	140		16	2	2.3 BPM	CMT	16.4	START CEMENT (PLUG 2900-3100)
0540	90		37	18	4.2 BPM	H ₂ O MUD	8.3	START DISPLACEMENT
0548	0			55				SHUT DOWN - PULL 8 JTS. D.P. - CIRC 2 HR PULP REMAINING D.P. & RUN CASING
1326		2160				H ₂ O	8.3	TEST LINES
1327		0	10	9.5	5.5 BPM	H ₂ O	8.3	START CHEMICAL WASH
1329		180	2	10	8 BPM	H ₂ O	8.3	START WATER SPACER
1330		160	67	12	5.5 BPM	CMT	12.2	START LEAD SLURRY
1342		160	66	79	5.2 BPM	CMT	12.2	PRESSURE READING
1354		150	27	145	4.8 BPM	CMT	14.4	START TAIL SLURRY
1406		210	15	172	4 BPM	CMT	14.4	PRESSURE READING
1407		0		187				SHUT DOWN - WASH LINES
1405		300	20	187	5.5 BPM	H ₂ O	8.3	DROP PLUG - START DISPLACEMENT
1409		300	20	207	4 BPM	H ₂ O	8.3	PRESSURE READING
1414		450	15	227	4 BPM	H ₂ O	8.3	PRESSURE READING
1414		290	10	342	2 BPM	H ₂ O	8.3	LOWEY RATE
1423		1500		352				PLUG DOWN
1424								BLEED PRESSURE - PLUG HOLDING
								ORIGINAL
	SACS	WIELD	DEN.	BBL				
LEAD	350	2.1	12.2	131	35/65 POZ/C 6% D20, 1/4" D29			
TAIL	125	1.33	14.4	29.6	50/50 POZ/C 2% D20, 10% D44, .75% D60, .2% D46, 1/4" D29			
PLUG	75	1.05	16.4	14	CLASS H			
								MAY PSI 1500 CIRC. LOST 0