

ORIGINAL

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: 2606 Fleming

City/State/Zip Garden City, Kansas 67846

Purchaser: CIG

Operator Contact Person: Ken Jehlik / Mike LaMascus  
Phone (316) 276-3693

Contractor: Name: Cheyenne Drilling  
License: \_\_\_\_\_

Wellsite Geologist: None

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Reentry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date: \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf  Conv. To Inj./SWD  
 Plug Back  PBTB

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

WLE/Other (SWD or Inj?)  Docket No. 1 95065-C  
(C-28314)

4-20-98 4-22-98 6-9-98

Spud Date Date Reached TD Completion Date  
57478 7607

API NO. 15- 055-216 140000

COUNTY FINNEY

- SW - SW - NW Sec. 34 Twp. 25S Rge. 34 X W

2715 Feet from SW (circle one) Line of Section

4855 Feet from SW (circle one) Line of Section

RCW  
06-18-98

Footages Calculated from Nearest Outside Section Corner:

NE SE NW or SW (circle one)

Lease Name Brown A Well # 1-2

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2955 KB 2965

Total Depth 2800 PBTB 2776

Amount of Surface Pipe Set and Cemented at 535 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 2790

Feet depth to Surface w/ 500 sx. cmt.

AH. 2, 7-2-98 U.C.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)

Chloride content 5000 ppm Fluid volume 1200 bbls.

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

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.

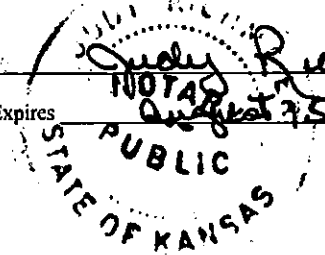
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Ken Jehlik  
Title District Manager Date 5-8-98

Subscribed and sworn to before me this 15th day of June 1998.

Notary Public Judith Richmeier

Date Commission Expires August 25, 2000



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)

Operator Name Helmerich & Payne, Inc. Lease Name Brown A Well # 1-2

Sec. 34 Twp. 25 S. Rge. 34 East  West  County Fimney **ORIGINAL**

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  Log Formation (Top), Depth and Datums  Sample  
 (Attached Additional Sheets.) Name Top Datum  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)

List All E. Logs Run:  
 Closed hole GRN

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	534	Howcolite C Class C	175 100	2%CC, 1/4# flocele 2%CC, 1/4# flocele
					35/65 Poz C	375	1/4# flocele
Production	7-7.8"	5-1/2"	14	2790'	50/50 Poz C	125	1/4# flocele, 10% salt

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top to 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				

Shots Per Foot	PERFORATION RECORD-Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
2	Herington 2486-2502	3000 gal 7-1/2% HCl, 23000 gal. 30# linear gel, 48,800 gal. 70 Q foam, 33000# 20-40sd & 158,000# 16-30sd
2	Krider 2506-2526	
2	Winfield 2540-2546 & 2550-2568	
1	JSP2F U. Ft. Riley 2608-2620	

TUBING RECORD	Size 2-3/8	Set At 2620	Packer At None	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 6-2-98				Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil	Bbls.	Gas MCF	Water Bbls.
			274	0
				Gas-Oil Ratio
				Gravity

Disposition of Gas:  Vented  Sold  Used on Lease

METHOD OF COMPLETION:  Open Hole  Perf  Dually Comp.  Commingled 2486-2620

Production Interval:  Other (Specify) \_\_\_\_\_

(If vented, submit ACO-18)

JOB SUMMARY

ORIGINAL

TICKET # **231772** TICKET DATE **4-20-98**  
 BOA/STA **KANSAS** COUNTY **FINNEY**  
 PSL DEPARTMENT **CEMENT**  
 CUSTOMER REP / PHONE **PAUL 61040**  
 API / UWI # **15-055-21614**  
 JOB PURPOSE CODE **010**

REGION **North America** NW/TRY **MID CONTINENT**  
 MBU/EMP # **L10105 H3377** EMPLOYEE NAME **STIRLING RAINES**  
 LOCATION **LIBERAL KS.** COMPANY **CHEYENNE DRILLING**  
 TICKET AMOUNT \_\_\_\_\_ WELL TYPE **02**  
 WELL LOCATION **GARDEN CITY KS.** DEPARTMENT **CEMENT**  
 LEASE / WELL # **BROWN "A" #1-2** SEC / TWP / RANG \_\_\_\_\_

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
<b>R ELWOOD 04360</b>			
<b>S RAINES H3377</b>			
<b>C. ASHLEY 44061</b>			

HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES
<b>420045</b>	<b>30</b>						
<b>52947-75496</b>	<b>30</b>						
<b>51924-77031</b>	<b>30</b>						

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

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe <b>4 1/2"</b>	<b>1</b>	
Guide Shoe		
Centralizers	<b>3</b>	<b>LIPACO</b>
Bottom Plug		
Top Plug	<b>1</b>	
Head	<b>1</b>	
Packer		
Other <b>W.C.O.A</b>	<b>1 LB</b>	

**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	
Peripac Balls	Qty.	
Other		
Other		
Other		
Other		

DATE TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
<b>4-20-98 15:45</b>		<b>4-20-98 18:21</b>	<b>4-21-98 00:17</b>	<b>4-21-98 00:40</b>

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	<b>USED</b>	<b>74.00</b>	<b>8 3/4</b>	<b>0</b>	<b>595</b>	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						
Perforations						SHOTS/FT.
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				<b>8 3/4 SURFACE</b>
<b>TOTAL</b>		<b>TOTAL</b>		

ORDERED	HYDRAULIC HORSEPOWER	Used
	Avail.	
TREATED	AVERAGE RATES IN BPM	Overall
	Disp.	
FEET	CEMENT LEFT IN PIPE	Reason

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	<b>175</b>	<b>PP HLC/C</b>	<b>BULK</b>	<b>2% CC, 1/2" SLOPER</b>	<b>2.06</b>	<b>12.3</b>
	<b>100</b>	<b>DM P/F/C</b>	<b>BULK</b>	<b>2% CC, 1/2" SLOPER</b>	<b>1.32</b>	<b>14.8</b>

Circulating \_\_\_\_\_ Displacement \_\_\_\_\_ Preflush: Gal - BBI \_\_\_\_\_ Type \_\_\_\_\_  
 Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_ Load & Bkdn: Gal - BBI \_\_\_\_\_ Pad: BBI - Gal \_\_\_\_\_  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_ Treatment Gal - BBI \_\_\_\_\_ Disp: BBI - Gal **38.35**  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Cement Slurr Gal - BBI \_\_\_\_\_ Total Volume Gal - BBI **8772**

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE \_\_\_\_\_

**JOB SUMMARY**

TICKET # **231772**

TICKET DATE **4-20-98**

REGION <b>North America</b>	NW, VTRY <b>MID CONTINENT</b>	BDA / ST <b>KANSAS</b>	COUNTY <b>FINNEY</b>
MBU ID / EMP # <b>L10105 H3377</b>	EMPLOYEE NAME <b>STIRLING RAINES</b>	PSL DEPARTMENT <b>CEMENT</b>	
LOCATION <b>LIBERAL KS.</b>	COMPANY <b>CHEYENNE DRILLING</b>	CUSTOMER REP / PHONE <b>PHIL 61040</b>	
TICKET AMOUNT	WELL TYPE <b>OL</b>	AFI / UWI # <b>15-055-21614</b>	
WELL LOCATION <b>GARDEN CITY KS.</b>	DEPARTMENT <b>CEMENT</b>	JOB PURPOSE CODE <b>010</b>	
LEASE / WELL # <b>BROWN "A" #1-2</b>	SEC / TWP / RNG		

**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
<b>R. ELWOOD 04360</b>			
<b>S. RAINES H3377</b>			
<b>C. ASHLEY 44061</b>			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
<b>420045</b>	<b>30</b>						
<b>52947-75496</b>	<b>30</b>						
<b>51984-77031</b>	<b>30</b>						

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
<b>4-20-98</b>	<b>15:45</b>	<b>4-20-98</b>	<b>4-21-98</b>	<b>4-21-98</b>
	<b>18:21</b>		<b>00:17</b>	<b>00:40</b>

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe <i>4 1/2" x 4"</i>	<b>1</b>	
Guide Shoe		
Centralizers	<b>3</b>	<b>HALCO</b>
Bottom Plug		
Top Plug	<b>1</b>	
Head	<b>1</b>	
Packer		
Other <i>WIPER</i>	<b>113</b>	

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	<b>USED</b>	<b>74.00</b>	<b>8 5/8</b>	<b>0</b>	<b>595</b>	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
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 \_\_\_\_\_  
 Perpacs Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				<b>8 5/8 SURFACE</b>
<b>TOTAL</b>		<b>TOTAL</b>		

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	<b>175</b>	<b>PP HLC</b>	<b>BULK</b>	<b>200 CC, 1/4" SLAG</b>	<b>2.06</b>	<b>12.3</b>
	<b>100</b>	<b>DRY PACK</b>	<b>BULK</b>	<b>200 CC, 1/4" SLAG</b>	<b>1.32</b>	<b>14.8</b>

Circulating \_\_\_\_\_ Displacement \_\_\_\_\_ Preflush: Gal - BBI **5** Type \_\_\_\_\_  
 Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_ Load & Bkdn: Gal - BBI \_\_\_\_\_ Pad: BBI - Gal \_\_\_\_\_  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_ Treatment Gal - BBI \_\_\_\_\_ Disp: BBI - Gal **24.35**  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Cement Slurr Gal - BBI **8772**  
 Total Volume Gal - BBI \_\_\_\_\_

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE  
*Phil Land*

Dowell a Division of Schlumberger Technology Corporation  
 204 S Missouri  
 Ulysses, KS 67880  
 Tel: 316 356 1272  
 Fax: 316 356 1911

INVOICE

ORIGINAL

15-055-21614

RECEIVED  
 KANSAS CORP  
 FEB 23 1998

Service Date	04/22/1998	Job Number	20055919	Invoice Date	04/23/1998	Invoice	9090146767
<b>Bill To:</b> HELMERICH & PAYNE INC 2606 FLEMING ST, STE 7 GARDEN CITY KS 67846-3254				<b>Remit To:</b> Dowell a Division of Schlumberger Technology Corporation Dept 0788 PO Box 120001 Dallas, TX 75312-0788			
Terms 30 Days Net				Service Description DW Cementing-Case,Cement Prod			
Customer PO	Contract			AFE	Price Reference Dowell US		
Well BROWN 'A' 1-2	State KS	County/Parish/Block Finney		Legal Location SEC:34 T:25S R:34W			
Field HUGOTON	Customer or Authorized Representative Mike LaMascus			Rig			

Item	Description	Quantity	List Price	Disc	Net Price	Net Amount
48601000	Cement Head Rental	1.000 JOB	83.00	-32.000 %	56.4400	56.44
49100000	Service Chg Cement Mat Land All DW Fur	547.000 CF	1.85	-32.000 %	1.2580	688.13
49102000	Transportation Cement Ton Mile	1,347.000 MI	1.33	-32.000 %	0.9044	1,218.23
59200002	Mileage, All Other Equipment	57.000 MI	3.47	-32.000 %	2.3596	134.50
59697000	PACR Treatment Analysis Recorder	1.000 JOB	220.00	-32.000 %	149.6000	149.60
102871030	Casing Cmmt 2501-3000' 1st 6hr	1.000 EA	1,716.00	-32.000 %	1,166.8800	1,166.88
<b>*Sub-Total Services</b>						<b>3,413.78</b>
53003054	Insert, Orifice Fill	1.000 EA	310.00	-32.000 %	210.8000	210.80
56011054	Centralizer, Regular	5.000 EA	80.00	-32.000 %	54.4000	272.00
56702054	Plug, Cementing 5 1/2 In Top Plastic	1.000 EA	91.00	-32.000 %	61.8800	61.88
A166	Inhibitor, Corrosion A166	5.000 GA	70.86	-32.000 %	48.1848	240.92
A179	Inhibitor Aid A179	3.000 LB	10.87	-32.010 %	7.3905	22.17
D020	Bentonite Extender D20	2,250.000 LB	0.20	-32.000 %	0.1360	306.00
D029	Cellophane Flakes D29	125.000 LB	2.02	-32.000 %	1.3736	171.70
D044	Salt, Granulated D44	593.000 LB	0.16	-32.000 %	0.1088	64.52
D046	Antifoam Agent, All Purpose D46	22.000 LB	3.90	-32.000 %	2.6520	58.34
D065	Dispersant, TIC D65	33.000 LB	5.99	-32.000 %	4.0732	134.42
D132	Extender, Cement D132	193.165 CF	5.17	-32.040 %	0.0445	678.69
D903	Cement, Class C D903	308.000 CF	12.03	-32.000 %	8.1804	2,519.56
H075	Acid, Hydrochloric 7-1/2% H75	250.000 GA	1.22	-32.000 %	0.8296	207.40
<b>*Sub-Total Products</b>						<b>4,948.40</b>
<b>*Total before tax</b>						<b>8,362.18</b>
<b>*Tax, USState/CanGST 4.900 %</b>						<b>302.16</b>
<b>*Tax, US City 1.000 %</b>						<b>61.67</b>
<b>*Total Amount Due on or Before 05/23/98 payable in USD</b>						<b>8,726.01</b>

CHARGE \_\_\_\_\_  
 S/L \_\_\_\_\_ AFE \_\_\_\_\_  
 DESCRIP \_\_\_\_\_  
 \_\_\_\_\_  
 APPROVAL \_\_\_\_\_

Please reference invoice number 9090146767 on payment.

Thank-you for calling Dowell

ORIGINAL

Customer

HELMERICH & PAYNE INC

Job Number

20055919

Well Brown A1-2		Location (legal) Sec. 34-25S-34W		Dowell Location Ulysses, KS		Job Start 4/22/98		
Field Hugoton		Formation Name/Type Dolomite		Deviation 0	Bit Size 7.88 in	Well MD 2,800 ft	Well TVD 2,800 ft	
County Finney		State/Province Kansas		BHP 0 psi	BHST 0 °F	BHCT 0 °F	Pore Press. Gradient 0 psi/ft	
Rig Name Cheyenne Drilling	Drilled For Gas	Service Via Land		Casing/Liner				
Offshore Zone	Well Class New	Well Type Development		Depth, ft 2795	Size, in 5.5	Weight, lb/ft 14	Grade n50	
Drilling Fluid Type Bentonite	Max. Density 9 lb/gal	Plastic Viscosity 0 cp		Tubing/Drill Pipe				
Service Line Cementing	Job Type Cem Prod Casing		Depth, ft 0	Size, in 0	Weight, lb/ft 0	Grade 0	Thread 0	
Max. Allowed Tubing Pressure 2000 psi	Max. Allowed Ann. Pressure 0 psi	WellHead Connection 5 1/2 casing		Perforations/Open Hole				
Service Instructions Cement and equipment to safely cement 5 1/2 casing as per customer's request				Top, ft 0	Bottom, ft 0	spf 0	No. of Shots 0	Total Interval 0 ft
				0	0	0	0	Diameter 0 in
				0	0	0	0	0
				Treat Down Casing	Displacement 67.8 bbl	Packer Type	Packer Depth 0 ft	
Tubing Vol. 0 bbl	Casing Vol. 68.2 bbl	Annular Vol. 0 bbl	OpenHole Vol 0 bbl					
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job		
Lift Pressure: 775 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: Guide		
No. Centralizers: 5		Top Plugs: 1	Bottom Plugs: 0	Shoe Depth: 2795 ft		Squeeze Type		
Cement Head Type: Single		Job Scheduled For: 4/22/98 15:00		Arrived on Location: 4/22/98 14:45		Leave Location: 4/22/98 19:30		
				Stage Tool Type:		Tool Type:		
				Stage Tool Depth: 0 ft		Tool Depth: 0 ft		
				Collar Type: Auto-Fill		Tail Pipe Size: 0 in		
				Collar Depth: 2781 ft		Tail Pipe Depth: 0 ft		
						Sqz Total Vol: 0 bbl		
Time	CumVol	Density	Pressure U1	TotFlowrate				Message
24 hr clock	bbl	ppg	psi	bpm				
17:38	0	0	0	0	0	0	0	START ACQUISITION
17:38	0	-6.452	-3574	0	0	0	0	
17:38	0	0	0	0	0	0	0	Pressure Test Lines
17:38	.2125	-.1274	1921	0	0	0	0	
17:39	0	0	0	0	0	0	0	Bleed Off Pressure
17:39	.2127	-.1273	43.22	0	0	0	0	
17:40	0	0	0	0	0	0	0	[CumVol]=.2127 bbl
17:40	0	0	0	0	0	0	0	Reset Volume
17:40	0	0	0	0	0	0	0	Start Pumping Water
17:40	0	-.1248	7.07	0	0	0	0	
17:40	1.901	8.183	263.5	5.013	0	0	0	
17:41	5.288	8.204	269.7	5.117	0	0	0	
17:42	8.694	8.203	259.6	5.087	0	0	0	
17:42	12.08	8.192	263.5	5.108	0	0	0	
17:43	15.5	8.201	320	5.084	0	0	0	
17:44	18.92	8.226	315.1	5.106	0	0	0	
17:44	0	0	0	0	0	0	0	[CumVol]=20.1 bbl
17:44	0	0	0	0	0	0	0	Reset Volume
17:44	0	0	0	0	0	0	0	Start Mixing Lead Slurry
17:44	2.126	12.39	388	5.108	0	0	0	
17:45	5.525	12.14	315.9	5.134	0	0	0	
17:46	8.93	12.14	314.4	5.072	0	0	0	

**ORIGINAL** 15-055-21614

Well

Fract

Service Date

Customer

Job Number

Brown #A1-2

Hugoton

HELMERICH & PAYNE INC

20055919

Time	CumVol	Density	Pressure U1	TotFlowrate				Message
24 hr clock	bbl	ppg	psi	bpm				
17:46	12.34	12.38	300.6	5.072	0	0	0	
17:47	15.75	11.75	276	5.085	0	0	0	
17:48	19.16	12.18	270.9	5.113	0	0	0	
17:48	22.58	11.92	251.1	5.076	0	0	0	
17:49	25.99	12.07	236.4	5.154	0	0	0	
17:50	29.54	12.45	227.7	5.231	0	0	0	
17:50	33.03	12.06	235	5.223	0	0	0	
17:51	36.53	12.4	215.8	5.323	0	0	0	
17:52	40.05	12.39	208.6	5.341	0	0	0	
17:52	43.53	11.78	180.4	5.19	0	0	0	
17:53	46.99	12.31	159.1	5.198	0	0	0	
17:54	50.47	12.07	137.9	5.174	0	0	0	
17:54	53.93	11.77	126.6	5.175	0	0	0	
17:55	57.38	12.25	140.3	5.209	0	0	0	
17:56	60.94	12.36	136.4	5.169	0	0	0	
17:56	64.37	11.93	128.7	5.182	0	0	0	
17:57	67.82	11.59	121.6	5.138	0	0	0	
17:58	71.24	12.04	139.7	5.118	0	0	0	
17:58	74.65	12.18	145.9	5.134	0	0	0	
17:59	78.06	12.09	146.5	5.061	0	0	0	
18:00	81.47	12.3	150.2	5.069	0	0	0	
18:00	84.87	12.07	144.5	5.046	0	0	0	
18:01	88.36	11.86	129.6	5.044	0	0	0	
18:02	91.74	11.96	134.5	5.071	0	0	0	
18:02	95.13	12.21	150.7	5.044	0	0	0	
18:03	98.51	12.23	149	5.051	0	0	0	
18:04	101.9	11.4	128.3	5.075	0	0	0	
18:04	105.3	12.3	143.1	5.04	0	0	0	
18:05	108.7	12.15	147.1	5.045	0	0	0	
18:06	112	12.37	150.5	5.066	0	0	0	
18:06	115.4	12.24	144.2	5.066	0	0	0	
18:07	118.9	12.23	145.1	5.093	0	0	0	
18:08	122.3	12.1	135.3	5.051	0	0	0	
18:08	125.7	11.85	146.9	5.063	0	0	0	
18:09	0	0	0	0	0	0	0	[CumVol]=128.7 bbl
18:09	0	0	0	0	0	0	0	Reset Volume
18:09	.1676	11.98	152.4	5.029	0	0	0	
18:09	0	0	0	0	0	0	0	Start Mixing Tail Slurry
18:10	3.6	14.04	214.2	5.099	0	0	0	
18:10	7.014	15.34	236.8	5.14	0	0	0	
18:11	10.44	14.38	178.4	5.151	0	0	0	
18:12	13.95	15.12	214.9	5.043	0	0	0	
18:12	17.35	14.88	232.9	5.033	0	0	0	
18:13	20.77	14.16	169.8	5.086	0	0	0	
18:14	24.17	14.45	185.1	5.117	0	0	0	
18:14	0	0	0	0	0	0	0	Shutdown
18:14	26.94	13.64	.8486	.3975	0	0	0	
18:15	0	0	0	0	0	0	0	[CumVol]=26.96 bbl
18:15	0	0	0	0	0	0	0	Reset Volume
18:19	0	8.973	-8.716	0	0	0	0	
18:19	0	0	0	0	0	0	0	Drop Top Plug
18:19	0	0	0	0	0	0	0	Start Displacement
18:19	0	0	0	0	0	0	0	Start Pumping Water
18:20	.2561	8.97	23.74	2.741	0	0	0	

# ORIGINAL

15-055-21614

Well	Service Date	Customer	Job Number				
Brown #A1-2	Hugoton	HELMERICH & PAYNE INC	20055919				
Time	CumVol	Density	Pressure UI	TotFlowrate			Message
24 hr clock	bbbl	ppg	psi	bpm			
18:21	3.504	8.892	76.82	5.063	0	0	
18:21	0	0	0	0	0	0	[CumVol]=5.372 bbl
18:21	0	0	0	0	0	0	Reset Volume
18:21	0	0	0	0	0	0	Start Pumping Acid
18:21	1.365	8.899	114.6	5.074	0	0	
18:22	4.74	8.866	125.5	5.027	0	0	
18:22	0	0	0	0	0	0	[CumVol]=7.092 bbl
18:22	0	0	0	0	0	0	Reset Volume
18:22	0	0	0	0	0	0	Start Pumping Water
18:23	8.429	8.889	133.2	5.068	0	0	
18:23	4.215	8.789	133.7	5.069	0	0	
18:24	7.692	8.773	179.1	5.044	0	0	
18:25	11.08	8.688	211	5.048	0	0	
18:25	14.47	8.603	257	5.063	0	0	
18:26	17.84	8.534	310.8	5.029	0	0	
18:27	21.18	8.532	363.1	5.006	0	0	
18:27	24.53	8.521	422	4.977	0	0	
18:28	27.87	8.532	503.9	5.006	0	0	
18:29	31.21	8.499	567.2	4.975	0	0	
18:29	0	0	0	0	0	0	Returns at Surface
18:29	0	0	0	0	0	0	19bbl/50sks Returned
18:29	34.54	8.449	638.9	5.027	0	0	
18:30	37.96	8.493	718.4	4.98	0	0	
18:31	41.3	8.422	770.9	4.983	0	0	
18:31	0	0	0	0	0	0	Lower Pump Rate
18:31	43.26	8.45	681.3	2.029	0	0	
18:32	44.61	8.464	712.9	2.026	0	0	
18:33	45.97	8.465	731.1	2.03	0	0	
18:33	47.32	8.455	764.2	2.02	0	0	
18:34	48.67	8.521	773.4	2.018	0	0	
18:35	50.02	8.471	779.4	2.02	0	0	
18:35	50.92	8.406	1193	0	0	0	
18:35	0	0	0	0	0	0	Bump Top Plug
18:36	50.92	8.41	1206	0	0	0	
18:37	50.92	8.41	1207	0	0	0	
18:37	50.92	8.404	1213	0	0	0	
18:38	50.92	8.401	1211	0	0	0	
18:39	50.92	8.389	1213	0	0	0	
18:39	0	0	0	0	0	0	Bleed Off Pressure
18:39	50.92	8.369	1179	0	0	0	
18:40	50.92	8.349	4.671	0	0	0	
18:40	0	0	0	0	0	0	End Job



**ORIGINAL**

15-055-21614

Well	Brown #A1-2				Hugoton	Service Date	Customer	HELMERICH & PAYNE INC	Job Number	20055919	
Time	CumVol	Density	Pressure U1	TotFlowrate	Message						
24 hr clock	bbbl	ppg	psi	bpm							
<b>Post Job Summary</b>											
Average Pump Rates, bpm					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2			
4.5	0	0	5.3		167	0	20	0			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density				
775	1200	100	1200	0		0 bbl	0 lb/gal				
Avg. N2 Percent	Designed Slurry Volume		Displacement		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	19 bbl				
0 %	0 bbl		68 bbl		<input type="checkbox"/> Washed Thru Perfs To	0 ft 50 529					
Customer or Authorized Representative					Dowell Supervisor			Circulation Lost			<input checked="" type="checkbox"/> Job Completed
Mike LaMascus					Charley King						

ORIGINAL

15-055-21614

RECEIVED  
MANAGER'S OFFICE

Schlumberger

Dowell

Dowell, A Division of Schlumberger Technology Corp.  
204 S Missouri  
Ulysses, KS

**Service Authorization**

Job Number  
20055919

Important: See other side for terms and conditions

ARRIVE LOCATION Date Time  
4/22/98 2:45:00 PM

Service Instructions  
Cement and equipment to safely cement 5 1/2 casing as per customer's request

Service Description  
Cementing - Cem Prod Casing

AFE Rig  
0 Cheyenne Drilling

County/Parish/Block Legal Location  
Finney Sec. 34-25S-34W

Customer or Authorized Representative  
Mike LaMascus

Invoice Mailing Address:  
HELMERICH & PAYNE INC  
2606 FLEMING ST, STE 7  
GARDEN CITY, KS 67846-3254  
US

Customer PO Contract  
0 0

Well State/Province  
Brown A1-2 Kansas

Field  
Hugoton

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.

Comments

Service Order: I authorize work to begin as per service instructions in accordance with terms and conditions printed on the reverse side of this form and/or attachment to this form and represent that I have authority to accept and sign this order

Signature of Customer or Authorized Representative

Mike LaMascus

Signature of Dowell Representative

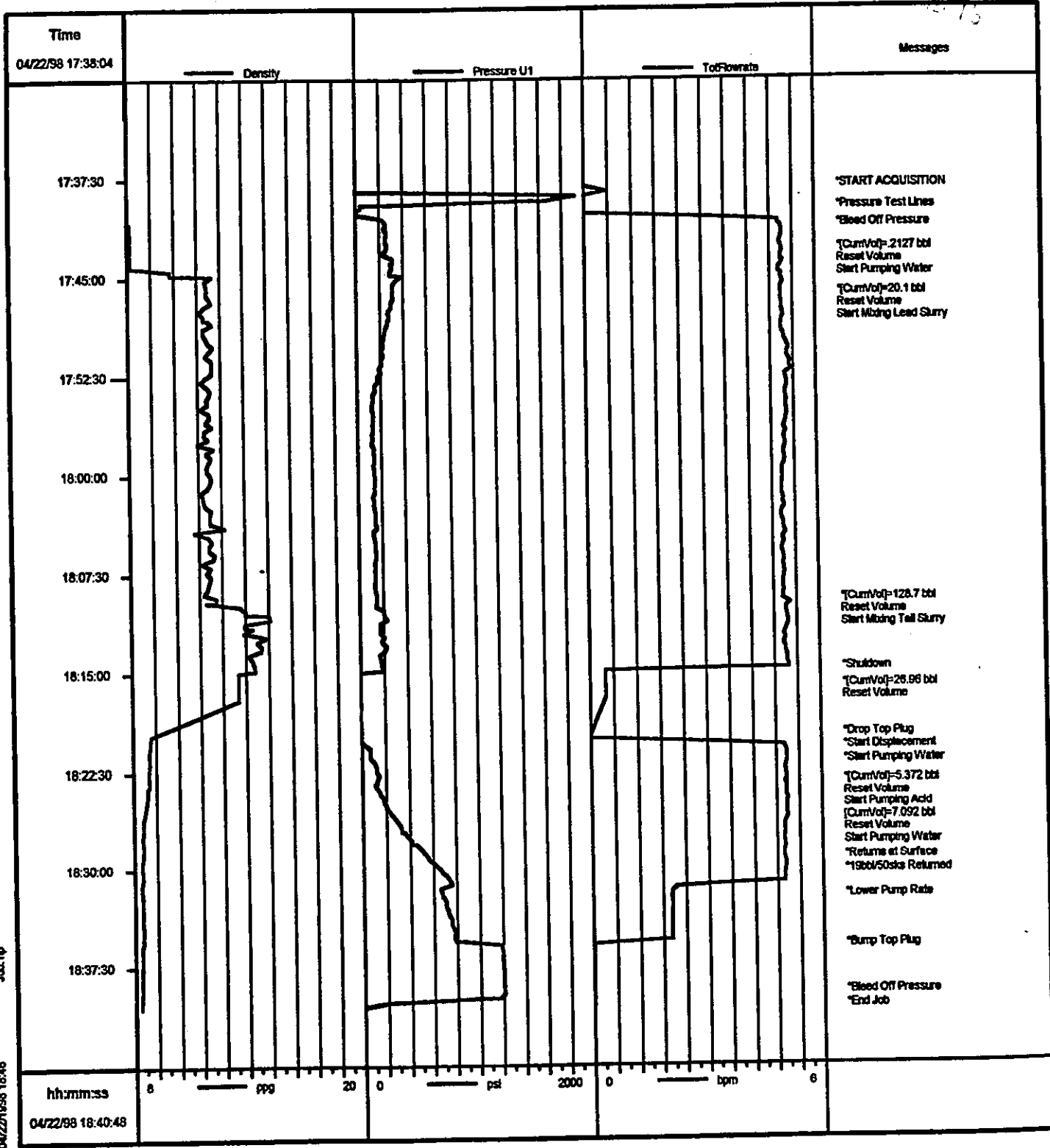
Charley King

Thank you for Calling Dowell!

15-055-21614

Well	Brown_A_1-2	Client	Heimerich & Payne
Field	Hugoton	SIR No.	20055919
Country	USA	Job Date	4/22/98 5:38:04 PM

RECEIVED  
ANSAS CORP CORP  
APR 22 1998



Job: tp  
04/22/98 18:48