

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

API NO. 15- 055-21,5740001 **ORIGINAL**

County Finney
660' of 0 of W/2 Sec. 28 Twp. 26S Rge. 34W E
660 Feet from S(N) (circle one) Line of Section

2633 Feet from E/W (circle one) Line of Section

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

Lease Name McKee Well # 1-2
Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2957 KB 2969

Total Depth 5600 PBTD 2810

Amount of Surface Pipe Set and Cemented at 1875 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan REENTRY 97 3-25-97
(Data must be collected from the Reserve Pit)

Chloride content 800 ppm Fluid volume 6700 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. _____

Operator: License # 5293

Name: Helmerich & Payne, Inc.

Address P.O. Box 558

City/State/Zip Garden City, Ks. 67846

Purchaser: CIG

Operator Contact Person: Ken Jehlik or Richard Howell

Phone (316) 276-3693

Contractor: Name: Murfin Drlg.

License: _____

Wellsite Geologist: Brad Rine

Designate Type of Completion
_____ New Well XXX Re-Entry _____ Workover

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

If Workovers:

Operator: Helmerich & Payne, Inc.

Well Name: McKee B-1

Comp. Date _____ Old Total Depth 5600'

XXX **RENUMBERED WELL**
_____ Deepening XXX Re-perf. _____ Conv. to Inj/SWD
X Plug Back 2810 PBTD
_____ Commingled _____ Docket No. _____
_____ Dual Completion _____ Docket No. _____
X Other (SWD or Inj?) _____ Docket No. WLF #104773-C

10-17-96 10-16-96 12-23-96
REENTRY Date of _____ Date Reached TD _____ Completion Date _____
State Test

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. Cmt tickets mailed previously w/ original ACO-1.

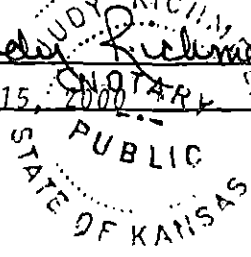
Signature Ken Jehlik

Title District Manager Date 12-26-96

Subscribed and sworn to before me this 26 day of December 19 96.

Notary Public Judy Richman

Date Commission Expires August 15, 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 McKee Well # 1-2

Sec. 28 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, and 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.) DST #1 U. Spergen
 List All E.Logs Run: 5236 - 5305
 GR, CNL Microlog, 30" IFP 68 to 68
 Array Induction 60" ISIP 1333
 60" FFP 94 to 85
 120" FSIP 1333
 (Logs mailed previously) Recovery: 20' mud

Log Formation (Top), Depth and Datums		Sample
Name	Top	Datum
Heebner	3870	
Toronto	3880	
Lansing A	3914	
Kansas City A	4326	
BKC	4470	
Marmaton	4494	
Cherokee LS	4640	
Morrow Shale	4912	
Chester L.S.	4974	
St. Gen	5003	
St. Louis	5046	
New LTD	5594	

CASING RECORD St. Louis New Used LTD
 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	1875	65/35 C Class C	625 150	3% CC, 1/4# flake 3% CC
					65/35 C	350	1/4# flake
Production	7 7/8	5 1/2	15.5	2810	50/50 C	150	10% salt 1/4# flake

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	3107' to 2920'	Class H	75	None

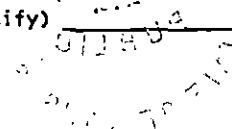
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
2	Her ington 2526 - 2540	3000 gal 7 1/2% HCl, 32700
2	Krider 2546-2564	gal 20# linear gel, 45000 gal
2	Winfield 2590-2602 & 2606-2609	20# x-link, 6000# 30-70 sd.
1 SP3F 1 SP4F	U. Ft. Riley 2642-2674 L. Ft. Riley 2692-2706	34500# 20-40 sd & 166000# 12-20sd

TUBING RECORD Size None Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 12-17-96 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		501	0		

Disposition of Gas: Vented Sold Used on Lease (if vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled 2526-2706 O.A.
 Other (Specify)



DOWELL

A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION

P.O. BOX 4378 HOUSTON, TEXAS 77210

DOWELL REPRESENTATIVE

LSCC Long Street copy

OILFIELD SERVICES

Dowell Service Order Receipt & Invoice No. 03-12-8707
 Dowell Service Location Name and Number 1145505 Kc 03-12

CUSTOMER'S NAME Helmerich & Payne, Inc.
 ADDRESS _____
 CITY, STATE AND ZIP CODE _____

ORIGINAL

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.

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO. <u>10</u>	DAY <u>17</u>	YR. <u>96</u>	TIME <u>0100</u>
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 _____				
JOB COMPLETION	MO. <u>10</u>	DAY <u>17</u>	YR. <u>96</u>	TIME <u>1500</u>
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 _____				

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

STATE <u>Kc</u>	CODE <u>15</u>	COUNTY/PARISH <u>Linn</u>	CODE <u>55</u>	CITY
-----------------	----------------	---------------------------	----------------	------

WELL NAME AND NUMBER/JOB SITE <u>McKinnon B-1</u>	LOCATION NAME AND NUMBER/OFFSHORE PLATFORM <u>SEA 28-265-344</u>
---	--

ACCOUNTING CODES	ROUND TRIP MILEAGE
------------------	--------------------

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
059200-002	mileage	mi.	53	2.95	156.35
059497-000	paper	EA	1	167.00	167.00
102872-075	supplies	EA	1	1490.00	1490.00
102871-070	supplies	EA	1	1460.00	1460.00
048601-000	cont. IS 117	EA	1	20.00	20.00
049102-000	hauling	ton	1499	1.05	1510.95
049100-000	supplies	EA	621	1.43	888.03
040015-000	2404 class H	SR	15	1.00	475.00
040003-000	2403 class C	SR	303	10.42	3157.26
101595-000	D132 tire	SR	197	4.34	864.83
045004-050	D44 soil	lb.	113	.15	92.69
045014-050	D22 gel	lb.	2170	.17	368.90
044003-025	D24 collection filter	lb.	126	1.77	223.02
044002-050	D60 FLOC	lb.	97	9.30	902.10
050101-054	cont. guidewire	EA	1	170.00	170.00
053003-054	insert float valve	EA	1	260.00	260.00
056011-054	cont. ratchet	EA	5	66.00	330.00
056702-054	720 ratchet	EA	1	75.00	75.00
056014-054	5-1/2" ratchet	EA	1	18.00	18.00
7836.26					

SUB TOTAL					<u>Fieldwork 12639.11</u>
LICENSE/REIMBURSEMENT FEE					
LICENSE/REIMBURSEMENT FEE					

REMARKS:	STATE	% TAX ON \$
	COUNTY	% TAX ON \$
	CITY	% TAX ON \$
SIGNATURE OF DOWELL REPRESENTATIVE <u>David Englund</u>		TOTAL \$

SERVICE ORDER RECEIPT

RECEIVED
 1996 DEC 27 12:53
 MARIETTA, GA

GENERAL TERMS AND CONDITIONS

1. Dowell. The Term "Dowell" used throughout these Terms and Conditions, shall be construed to mean Dowell A Division of Schlumberger Technology Corporation.

2. Terms. Cash in advance unless Dowell has approved credit prior to the sale. Credit Terms of Sale for approved accounts are total invoice amount due at Dowell's office, Houston, Texas on or before the 30th day from the date of invoice. Past due accounts are to pay interest on the balance past due at the rate of 1.5% per month or the maximum allowable by applicable state or federal laws if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to effect collection of said account, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with Dowell becomes delinquent, Dowell has the right to revoke any and all discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount will become immediately due and owing and subject to collection.

3. Prices. The products and services to be supplied hereunder shall be priced as quoted. Products and services supplied on a price estimate basis shall be priced in accordance with Dowell's current price schedule; special jobs, under unusual conditions, will be subject to special price quotations to reflect increased or reduced costs and risk.

4. Taxes. Any tax based on or measured by the change for the sale or rental of products or rendering of service shall be added to the price stated in Dowell's price schedule.

5. Independent Contractor. Dowell is and shall be an independent contractor with respect to the performance of the services set forth on the service order, and neither Dowell nor anyone employed by Dowell shall be the agent, representative, employee or servant of Customer in the performance of such services or any part hereof.

6. Obligations of Customer.

A. Notification of Hazardous Conditions. Dowell's equipment is designed to operate under conditions normally encountered in the well bore. Customer shall notify Dowell in advance and make special arrangements for servicing wells in which hazardous or unusual conditions exist.

B. Chemicals. The handling and disposal of any chemical, waste or by-product used or generated in the performance of these Terms and Conditions ("Chemicals") is the sole responsibility of Customer, who shall, under all circumstances, be considered the owner and generator thereof. Customer agrees that any such Chemicals will be transported and disposed of in accordance with all applicable federal, state and local laws and regulations. Customer hereby waives, releases and agrees not to assert any claim or bring any cost recovery action against Dowell in connection with the use, generation, storage, transportation or disposal of Chemicals arising out of these Terms and Conditions, under any common law theories or federal, state or local environmental laws or regulations, now existing or hereinafter enacted, without regard to the cause or causes thereof or the negligence of any party.

7. Limited Warranty-Oilfield Products. Dowell expressly warrants that it shall convey good title to the oilfield products furnished to Customer as part of the services and that such oilfield products shall conform to the specifications represented in the service order. Dowell does not warrant in any way oilfield products not manufactured by Dowell, and such will be sold or provided hereunder only with the warranties that are given by the manufacturer thereof. DOWELL MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE OILFIELD PRODUCTS, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR THAT SAID OILFIELD PRODUCTS SHALL BE FIT FOR ANY PARTICULAR PURPOSE. Dowell's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, or breach of warranty or otherwise) arising out of the sale or use of an oilfield product furnished by Dowell for use in connection with its services, is expressly limited to (a) the replacement of such oilfield product upon its return to Dowell or, at Dowell's option, (b) the allowance to Customer of credit for cost of such oilfield product.

8. Exclusion of Warranty - Services. In interpreting information and making recommendations, either written or oral, as to types or amounts of materials or services to be furnished, or manner of performance, or in predicting results to be obtained therefrom, Dowell will give Customer the benefit of its best judgment based on its experience. Nevertheless, all such recommendations or predictions are opinions only; and, in view of the impracticability of obtaining first-hand knowledge of the many variable conditions and/or the necessity of relying on facts and supporting services furnished by others. NO WARRANTY IS GIVEN CONCERNING THE EFFECTIVENESS OF THE MATERIALS USED, RECOMMENDATIONS GIVEN, OR THE RESULTS OF THE SERVICES RENDERED.

9. Data Interpretation and Transmission. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY, DOWELL CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION. Dowell does not warrant the accuracy of data transmitted by electronic processes and will not be responsible for accidental or intentional interception of such data by others. Dowell does not guarantee the safe storage or the length of time of storage of any digital tapes, optical logs or prints, transparencies, or other similar products or material.

10. Indemnity. For the purposes of this paragraph 10 the following definitions shall apply: "Dowell Group" shall mean Dowell its parent, subsidiary and affiliated companies, its contractors and subcontractors and all such entities' officers, directors, employees and invitees, and "Customer Group" shall mean Customer, its parent, subsidiary and affiliated companies, its contractors and subcontractors (other than the Dowell Group) and all such entities' officers, directors, employees and invitees.

A. Dowell Indemnity. Dowell assumes all liability for, and hereby agrees to protect, defend, indemnify and hold Customer Group and their insurers harmless from and against all damage, loss, liability, claims, demands and causes of action of every kind and character, (including all costs and expenses thereof and reasonable attorney's fees) without regard to the cause or causes thereof, the unseaworthiness of any vessel, strict liability or the negligence of any party, whether such negligence be the sole, concurrent, active or passive negligence of Customer Group, arising in connection herewith, on account of bodily injury and/or death to a member of the Dowell Group and/or damage to the Dowell Group's property (except with respect to Dowell property as otherwise provided in subparagraph B2 of this paragraph 10).

B. Customer Indemnity. Customer assumes all liability for, and hereby agrees to protect, defend, indemnify and hold the Dowell Group and their insurers harmless from and against all damage, loss, liability, claims, demands and causes of action of every kind and character, (including all costs and expenses thereof and reasonable attorney's fees) without regard to the cause or causes thereof, the unseaworthiness of any vessel, strict liability or the negligence of any party, whether such negligence be the sole, concurrent, active or passive negligence of Dowell Group, arising in connection herewith:

- 1. on account of bodily injury and/or death to a member of the Customer Group and/or damage to the Customer Group's property.

2. In favor of Dowell Group on account of loss of or damage to Dowell property, equipment, materials or products, including but not limited to, fishing expenses, when such loss or damage occurs: (a) in the hole, (b) as a result of uncontrolled well conditions, (c) while in transit or being moved on any form of transportation owned or furnished by Customer, (d) while located at the well site when Dowell personnel are not present or (e) while being used by any person other than a Dowell employee, whether in an emergency or otherwise. With respect hereto the property, equipment, materials and products will be valued at their respective landed replacement cost. With respect to (a) above, rental charges on the equipment lost or damaged in the hole shall continue to be paid up to and including the date on which Dowell receives notice in writing of the loss or damage.

C. Special Indemnity. Customer further agrees to protect, defend, indemnify, and hold Dowell Group and their insurers harmless from and against all loss, liability, claims, demands and causes of action (including all costs and expenses thereof and reasonable attorney's fees) of every kind and character, without regard to the cause or causes thereof, the unseaworthiness of any vessel, strict liability or the negligence of any party, whether such negligence be the sole, concurrent, active or passive negligence (but excluding the gross negligence) of Dowell Group, arising in connection herewith in favor of Customer Group or any third party for: (1) property damage or loss that results from blow-out or cratering; (2) property damage or loss that results from pollution and contamination, whether caused by Customer's failure to properly handle, transport or dispose of any Chemicals as required by paragraph 6B hereof or otherwise, including containment, clean-up and remediation of the pollutant and contamination, whether or not required by any applicable federal, state or local law or regulation; (3) property damage or loss that results from reservoir or underground damage, including loss of oil, gas, other mineral substance, or water or the well bore itself, surface damage arising from subsurface damage or subsea damage; (4) personal injury, death, or property damage or loss that results from work performed to control a wild well; (5) cost of control of a wild well, underground or above the surface, including any redrilling or reworking costs; (6) damage to property owned by, in the possession of, or leased by Customer, and/or well owner, if different from Customer, (the term "well owner" shall include working and royalty interest owners) (i.e., any drilling, rig platform or other structure at the wellsite); or (7) subsurface trespass or any action in the nature thereof.

To the extent this paragraph 10C conflicts with the provisions of paragraph 10A hereof, paragraph 10C shall control. The indemnification provided herein shall not operate to increase any standard of responsibility limited by other provisions of these General Terms and Conditions.

D. Notices. Each party agrees to immediately notify the other party of any claim, demand, or suit presented to or served upon it by any person or entity in connection with the performance of this Agreement. The party seeking indemnification shall afford the other party full opportunity to assume the defense of such claim, demand, or suit and to protect itself under the obligations of this paragraph.

E. Incidental or Consequential Damages. It is expressly agreed that neither party shall be liable to the other for any punitive, incidental, consequential, indirect or special damages, nor for any loss of profits or business interruptions or loss of use.

11. Insurance. Customer's and Dowell's indemnity obligations under paragraph 10 hereof shall be supported by adequate liability insurance coverage, or self-insurance (if it meets the requirements set forth below) furnished by each party at such party's cost with contractual indemnity endorsements. The amounts of insurance required from each party hereunder shall be equal; each party's indemnity obligations shall be limited to the highest amount of insurance coverage mutually carried by both parties hereunder.

In the event either party maintains a plan(s) of self-insurance to insure any part of the risks otherwise covered by the insurances required hereunder, such plan of self-insurance shall not satisfy the requirements of this paragraph unless an authorized representative of the party not requesting to be self-insured expressly consents in writing to the requesting party's use of such plan(s) of insurance. If it is judicially determined that the insurance required under this paragraph or the indemnity obligations voluntarily assumed under paragraph 10 hereof and supported either by available liability insurance or voluntarily self-insured, in part or whole, exceeds the maximum amounts of insurance or indemnity permitted under applicable law, it is agreed that said insurance requirements or indemnity shall automatically be amended to conform to the maximum amounts permitted under applicable law.

12. Force Majeure. Dowell shall not be liable for any delay or non-performance due to governmental regulation, labor disputes, hostile action, weather, fire, acts of God or any other causes beyond the reasonable control of Dowell.

13. Dispute Resolution. If this Service Order is issued in conjunction with an executed Dowell Master Service Agreement-Oilfield Services then all controversies shall be resolved as set forth therein. In the absence of such agreement Dowell and Customer shall settle all disputes and claims arising out of these General Terms and Conditions under the Commercial Rules of the American Arbitration Association, as then in force, by one or more arbitrators appointed in accordance with said rules. The place of arbitration shall be Houston, Texas. Any award or determination of the arbitration tribunal shall be final and conclusive, judgment thereon may be entered in any court of competent jurisdiction and no appeal thereof shall be made by the parties.

14. Governing Law. These General Terms and Conditions shall be governed by the law of the state where the services are performed or equipment furnished; however, where services are performed or equipment furnished offshore or on navigable waters, the Federal Maritime Laws will govern.

CEMENTING SERVICE REPORT

Schlumberger
Dowell

TREATMENT NUMBER: 0512-2707
DATE: 10-17-96
STAGE: DS DISTRICT: KS

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO.: McKee B-1
LOCATION (LEGAL): Sec. 28-26S-34W
FIELD-POOL: Hugoton
COUNTY/PARISH: Finney STATE: KS API. NO.:
NAME: Helmerich - Payne Inc.
AND:
ADDRESS:
ZIP CODE:

RIG NAME: MURFAN #21
WELL DATA: BOTTOM TOP
BIT SIZE: 2 7/8 CSG/Liner Size: 5 1/2
TOTAL DEPTH: 2807 WEIGHT: 155
 ROT CABLE FOOTAGE: 2807
MUD TYPE: GRADE: 555
 BHST BHCT THREAD: 8ed ORIGINAL
MUD DENSITY: LESS FOOTAGE SHOE JOINT(S): 7.6
MUD VISC.: Disp. Capacity: 66.4
NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SPECIAL INSTRUCTIONS:
IS CASING/TUBING SECURED? YES NO
LIFT PRESSURE: 1833 PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²):
PRESSURE LIMIT: PSI BUMP PLUG TO: 1440 PSI
ROTATE: RPM RECIPROCATATE: 15 FT No. of Centralizers: 5

Float TYPE: 4 1/2" float valve TYPE:
DEPTH: 2791 DEPTH:
SHOE TYPE: cmt nose TYPE:
DEPTH: 2807 DEPTH:
Head & Plugs: TBG D.P. SQUEEZE JOB
 Double SIZE: TOOL TYPE:
 Single WEIGHT DEPTH:
 Swage GRADE TAIL PIPE: SIZE DEPTH:
 Knockoff THREAD TUBING VOLUME Bbls
TOP R W NEW USED CASING VOL. BELOW TOOL Bbls
BOT R W DEPTH TOTAL Bbls
ANNUAL VOLUME Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION			LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE		
0001 to 2400												
1356	0	10			5.7	H2O						
1358	290	131			5.7	cmt	12.2					
1409	210	66			5.7	cmt	12.2					
1420	230				5.7	cmt	14.4					
1422	327	10				cmt	14.4					
1426	0											
1433	0	66.4			5.8	H2O						
1435	170	10			5.8	H2O						
1437	270	21			5.8							
1439	430	30			5.8							
1441	550	40			5.8							
1442	701	50			5.8							
1444	770	57			2							
1445	890	61			2							
1447	950	65			2							
1448	1440	107			2							

REMARKS: 1350 bleed psi of check float & holding

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	350	2.10	45C	35ppm	6% gel	4# D29	130.4	12.2
2.								
3.	150	1.29	50C	50ppm	2% gel	10% D44 + .75% D60 + 4# D29	34.4	14.4
4.								
5.								
6.								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST: YES NO
PRESSURE: MAX. 433K MIN. 16 Bbls
Cement Circulated To Surf. YES NO
BREAKDOWN: PSI FINAL: 66.4 Bbls
DISPLACEMENT VOL.: 66.4 Bbls
Washed Thru Perfs: YES NO TO: FT. MEASURED DISPLACEMENT: WIRELINE
PERFORATIONS: TO TO
CUSTOMER REPRESENTATIVE: Richard Howell
SUPERVISOR: James Esquivel

CEMENTING SERVICE REPORT

Schlumberger
Dowell

TREATMENT NUMBER: 0512-8107 DATE: 10-17-96
STAGE: DS DISTRICT: Ulysses, KS

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. *McTee B-1* LOCATION (LEGAL) *Sec. 28-265-34w* RIG NAME: *MurFin #21*

FIELD-POOL _____ FORMATION _____

COUNTY/PARISH *FINNAY* STATE *KS* API. NO. _____

NAME *Holmreich + Payne*

AND _____

ADDRESS _____

ZIP CODE _____

SPECIAL INSTRUCTIONS _____

WELL DATA: BIT SIZE *2 7/8* CSG/Liner Size _____ TOTAL DEPTH *0* WEIGHT _____

ROT CABLE FOOTAGE _____ MUD TYPE GRADE _____

BHST BHCT THREAD _____ MUD DENSITY LESS FOOTAGE SHOE JOINT(S) _____ MUD VISC. Disp. Capacity _____

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

ORIGINAL

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE _____ PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²) _____

PRESSURE LIMIT _____ PSI BUMP PLUG TO _____ PSI

ROTATE _____ RPM RECIPROCATE _____ FT No. of Centralizers _____

Head & Plugs TBG D.P. SQUEEZE JOB

Double SIZE *4 1/2* TOOL TYPE _____

Single WEIGHT *16.6* DEPTH _____

Swage GRADE _____ TAIL PIPE: SIZE _____ DEPTH _____

Knockoff THREAD _____ TUBING VOLUME _____ Bbls

TOP NEW USED CASING VOL. BELOW TOOL _____ Bbls

BOT NEW USED DEPTH _____ TOTAL _____ Bbls

ANNUAL VOLUME _____ Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
0358	0		10		4	H2O					
0359	170		5		4	H2O					
0400	220		16		4	cmt	15.6				
0405	100		3.5		4	H2O					
0406	50		36?		2.5	mud					
0407	60		5		4	mud					
0408	80		10		5	mud					
0411	90		23		5						
0413	120		36		5						

PRE-JOB SAFETY MEETING

start H2O ahead 3100' plugback

psi check

start cmt slurry

start H2O behind

start mud

psi check

psi check

psi check

shut down plug balanced

RECEIVED
NOV DEC 27 1996
10:54

REMARKS _____

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	75	1.18	class H				15.6	15.6
2.								
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE _____ VOLUME _____ DENSITY _____ PRESSURE _____ MAX. _____ MIN. _____

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. Bbls TYPE OF WELL OIL STORAGE BRINE WATER GAS INJECTION WILDCAT

Washed Thru Perfs YES NO TO _____ FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO _____ TO _____ CUSTOMER REPRESENTATIVE *RPH Jochlik* DS SUPERVISOR *James Esquivel*