

ORIGINAL

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

API NO. 15- 189-21799-0000

County Stevens
- NE - SW - NW Sec. 21 Twp. 32S Rge. 36 E
X W

Operator: License # 5208

1390 Feet from (S)N (circle one) Line of Section

Name: Mobil Oil Corporation

1250 Feet from (E)W (circle one) Line of Section

Address P.O. Box 2173

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

2319 North Kansas Avenue

City/State/Zip Liberal, KS 67905-2173

Lease Name Chaffin #1 Unit Well # 4

Purchaser: Spot Market

Field Name Hugoton

Operator Contact Person: Sharon Cook

Producing Formation Chase

Phone (316) 626-1142

Elevation: Ground 3073 KB 3084

Contractor: Name: Cheyenne Drilling

Total Depth 3010 PBTD 2950

License: 5382

Amount of Surface Pipe Set and Cemented at 577 Feet

Wellsite Geologist: L. J. Reimer

Multiple Stage Cementing Collar Used? Yes X No

Designate Type of Completion

If yes, show depth set NA Feet

X New Well Re-Entry Workover

If Alternate II completion, cement circulated from NA

Oil SWD SLOW Temp. Abd.

feet depth to NA w/ NA sx cmt.

X Gas ENHR SIGW

Drilling Fluid Management Plan ALT II 3-25-96
(Data must be collected from the Reserve Pit) RU

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Chloride content 3800 ppm Fluid volume 447 bbls

Operator: _____

Dewatering method used Waste Minimization Mud System

Well Name: _____

Location of fluid disposal if hauled offsite:

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Operator Name Mobil Oil Corporation

Plug Back PBTD

Lease Name Hill #3 SWDW License No. 5208

Commingled Docket No.

SW Quarter Sec. 3 Twp. 33 S Rng. 37 E/W

Dual Completion Docket No.

County Stevens Docket No. CD-117710

Other (SWD or Inj?) Docket No.

10-16-94 10-19-94 11-19-94

Spud Date _____ Date Reached TD _____ Completion Date _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Sharon A. Cook Sharon A. Cook
Title Regulatory Assistant Date 1-19-95

Subscribed and sworn to before me, this 19th day of January, 1995.

Notary Public Kathleen Poulton

Date Commission Expires August 18, 1998

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 26 1995 1-26-95
K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline logs Received
C Geologist Report Received
Distribution
✓ KCC SWD/Rep NGPA
KGS Plug Other
(Specify)



Operator Name Mobil Oil Corporation Lease Name Chaffin #1 Unit Well # 4
 Sec. 21 Twp. 32S Rge. 36 East West
 County Stevens

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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Glorietta	1281	1450
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stone Corral	1750	1812
List All E.Logs Run:		Chase	2616	2948
Dual Induction - SFL with Linear Correlation Log		Council Grove	2948	--
Simultaneous Compensated Neutron-Litho-Density				
Natural Gamma Ray Spectrometry Log				
Caliper Log				

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 Casing	12.250	8.625	24#	577	Class C Class C	140 sx 150 sx	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	3000	Class C Class C	225 sx 150 sx	3% D79 2% B28

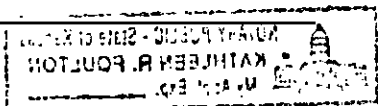
ADDITIONAL CEMENTING/SQUEEZE RECORD

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				

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
1 SPF	2620-30 2655-65 2702-08 2678-98 2728-38 2745-51 2764-74	Acid: 1,000 gals 7.5% HCL Frac'd: 90,552 lbs 10/20 sand. 658 bbls of 15# Crosslink gel.	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	11-19-94	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.	Gas-Oil Ratio Gravity
		370		

Disposition of Gas: **METHOD OF COMPLETION** Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled .. 2620
 (If vented, submit ACO-18.) Other (Specify) _____ 2810



DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

OILFIELD SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.

0312 - 6560

DSI SERVICE LOCATION NAME AND NUMBER

UKS - 03-12

CUSTOMER NUMBER

CUSTOMER P.O. NUMBER

TYPE SERVICE CODE

BUSINESS CODES

CUSTOMER'S
NAME

MOBIL OIL CORP

ADDRESS

CITY, STATE AND
ZIP CODE

DSI 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.

ORIGINAL

WORKOVER
NEW WELL
OTHER

W
 N

API OR IC NUMBER

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO.	DAY	YR.	TIME
	10	19	94	13:30

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

W. H. ...

JOB COMPLETION	MO.	DAY	YR.	TIME
	10	19	94	17:45

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

W. H. ...

STATE

KS

CODE

COUNTY / PARISH

STEVENS

CODE

CITY

MOSCOW

WELL NAME AND NUMBER / JOB SITE

CHAFFIN 1-4

LOCATION AND POOL / PLANT ADDRESS

SHIPPED VIA

DOWELL

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
05900-002	MILEAGE	mi	32	2.95	94.40
102871-030	PUMP CHARGE	EA	1	1,390.00	1,390.00
049102-000	HAWLING CHARGE	mi	589	1.00	589.00
049100-000	SERVICE CHARGE	cuft	390	1.36	530.40
059697-000	PACR CHARGE	EA	1	159.00	159.00
04003-000	D903 Class C COIT	cuft	376	9.06	3406.56
045041-100	D79 Chemical Extender	lb	635	1.44	914.40
047002-050	D46 Anti foam	lb	70	3.41	238.70
103368-050	B28 Expanding Cement	lb	282	3.34	941.88
044002-050	D60 FLOC	lb	85	8.61	731.85
067005-100	S1 Calcium Chloride	lb	282	0.40	112.80
044003-025	D29 Cellphane Flakes	lb	56	1.77	99.12
056702-054	Top rubber plug (5 1/2")	EA	1	75.00	75.00
					9,283.11
-38% Discount - Field Administration					5,755.53

RECEIPT

NOV 26 1995
CONSERVATION DIVISION
CHITA RAM

SUB TOTAL

Thanks for calling Dowell

LICENSE/REIMBURSEMENT FEE

LICENSE/REIMBURSEMENT FEE

REMARKS:

STATE % TAX ON \$

COUNTY % TAX ON \$

CITY % TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE

TOTAL \$

Lawrence Hill

GENERAL TERMS AND CONDITIONS

1. DSI, The Term "DSI" as used herein is an abbreviation of Dowell Schlumberger Incorporated and where used throughout these Terms and Conditions, shall be construed to mean Dowell Schlumberger Incorporated, a Delaware corporation.

2. Terms, Cash in advance unless DSI has approved credit prior to the sale. Credit Terms of Sale for approved accounts are total invoice amount due at DSI'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 DSI becomes delinquent, DSI 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 DSI'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 DSI's price schedule.

5. Independent Contractor, DSI is and shall be an independent contractor with respect to the performance of the services set forth on the service order, and neither DSI nor anyone employed by DSI 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, DSI's equipment is designed to operate under conditions normally encountered in the well bore. Customer shall notify DSI 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 DSI 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, DSI 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. DSI does not warrant in any way oilfield products not manufactured by DSI, and such will be sold or provided hereunder only with the warranties that are given by the manufacturer thereof. DSI 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. DSI'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 DSI for use in connection with its services, is expressly limited to (a) the replacement of such oilfield product upon its return to DSI or, at DSI'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, DSI 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 impracticality 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, DSI CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION. DSI 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; DSI 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: "DSI Group" shall mean DSI 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 DSI Group) and all such entities' officers, directors, employees and invitees.

A. DSI Indemnity, DSI 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 DSI Group and/or damage to the DSI Group's property (except with respect to DSI 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 DSI 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 DSI Group, arising in connection herewith:

2. in favor of DSI Group on account of loss of or damage to DSI 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 DSI personnel are not present or (e) while being used by any person other than a DSI 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 DSI receives notice in writing of the loss or damage.

C. Special Indemnity, Customer further agrees to protect, defend, indemnify, and hold DSI 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 DSI 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 DSI'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, DSI 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 DSI.

13. Dispute Resolution, If this Service Order is issued in conjunction with an executed DSI Master Service Agreement-Oilfield Services then all controversies shall be resolved as set forth therein. In the absence of such agreement DSI 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.

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.

SIGNATURE OF DSI REPRESENTATIVE

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 2312-6560	DATE 10/19/94
STAGE 1	DS DISTRICT UKS-0312

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. CHAFFIN - 1-A	LOCATION (LEGAL) HUGOTON
FIELD-POOL HUGOTON	FORMATION CHASE
COUNTY/PARISH STEVENS	STATE KS
API. NO.	
NAME MOBIL OIL CORP.	
AND	
ADDRESS	
ZIP CODE	

RIG NAME: CHRISTINE #4	WELL DATA:	BOTTOM	TOP
BIT SIZE 7 7/8	CSG/Liner Size 5 1/2		
TOTAL DEPTH 3000	WEIGHT 14		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE 3000		
MUD TYPE	GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD 8rd		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)		TOTAL
MUD VISC.	Disp. Capacity		

ORIGINAL

SPECIAL INSTRUCTIONS
 Run & Pump 225 ex lead slurry @ 11-5 pm. Displace behind top rubber plug with 72.5 Bbl fresh water as instructed by company representative.

NOTE: Include Footage From Ground Level To Head In Disp. Capacity					
Float	TYPE INSERT A/F	DEPTH 2955	Stage Tool	TYPE	DEPTH
SHOE	TYPE CHT/N GUIDE	DEPTH 3000		TYPE	DEPTH
Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB			
<input type="checkbox"/> Double	SIZE	TOOL	TYPE		
<input checked="" type="checkbox"/> Single	<input type="checkbox"/> WEIGHT		DEPTH		
<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE	TAIL PIPE: SIZE		DEPTH	
<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD	TUBING VOLUME		Bbls	
TOP <input checked="" type="checkbox"/> R <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL BELOW TOOL		Bbls	
BOT <input type="checkbox"/> R <input type="checkbox"/> W	DEPTH	TOTAL		Bbls	
ROTATE	RPM	RECIPROCATE	FT	No. of Centralizers	ANNUAL VOLUME

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE 1768	PSI	CASING WEIGHT - SURFACE AREA (3.14 x R ²)
PRESSURE LIMIT	PSI	BUMP PLUG TO 500 over	PSI

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME: 13:15	DATE: 10/19/94	TIME:	DATE: 10/25/96
0001 to 2400											
16:30											
16:47	1500					H ₂ O	8.3				
16:51		300	25		5.8	H ₂ O	8.3				
17:00		290	119		5.8	Lead	11.5				
17:15		270	38		5.8	Tail	14.8				
17:20						H ₂ O	8.3				
17:26		140	65		6.4	H ₂ O	8.3				
17:37		750	75		2.0	H ₂ O	8.3				
17:41		870			2.0	H ₂ O	8.3				
17:41		1310				H ₂ O	8.3				
17:43		0	0		0						
17:44		0	0		0						

REMARKS
 PRE-JOB SAFETY MEETING
 Pressure Test lines
 Start water spacer
 Start lead slurry
 Start tail slurry
 Wash up behind top plug
 Start displacement / dump by plug
 Cement to surface
 Bump plug
 Bump plug to 1310 ft
 bleed off pressure - fluid returns
 float holds - End job.

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	225	2.75	Class C + 3% D79 + 0.2% DAG + 1/4 #10k DZ9				112	11.5
2.	150	1.37	Class C + 2% 828 + 2% ST + 0.6% D60 + 0.2% DAG					14.8
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO	7 Bbls
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	72.5 Bbls
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT <input type="checkbox"/>	<input type="checkbox"/> WIRELINE	
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR	Thomas [Signature]

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

OILFIELD SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
03 12 6553

DSI SERVICE LOCATION NAME AND NUMBER
ULYSSES, KANSAS 03 12

CUSTOMER NUMBER
CUSTOMER P.O. NUMBER

TYPE SERVICE CODE
271
BUSINESS CODES

CUSTOMER'S NAME
ADDRESS

Mobil Oil

ORIGINAL

WORKOVER NEW WELL OTHER API OR IC NUMBER

CITY, STATE AND ZIP CODE

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS
ARRIVE LOCATION MO. DAY YR. TIME
10 16 94 17 36

DSI 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.

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.

SAFETY CEMENT 581 FT. OF 8 5/8" CASING WITH 140 SKS OF LEAD AND 150 SKS OF TAIL CEMENT AS DIRECTED BY CUSTOMER.

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
X [Signature]

JOB COMPLETION MO. DAY YR. TIME
10 16 94 21 30

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

STATE **KANSAS** CODE COUNTY / PARISH **STEVENSON** CODE CITY

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
X [Signature]

WELL NAME AND NUMBER / JOB SITE
CHATTIN #1-4

LOCATION AND POOL / PLANT ADDRESS
SEC 21-325-36W

SHIPPED VIA
Dowell

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
MATERIALS					
04003 000	D903, CLASS C CEMENT	CFT	145	9.06	1313.70
045008 000	D35, LITE POZ 3	CFT	145	4.39	636.55
045014 050	D20, BENTONITE EXTENDER	Lb.	890	0.17	151.30
045004 050	D44, GRANULATED SALT	Lb.	722	0.13	93.86
067005 100	S1, CALCIUM CHLORIDE	Lb.	252	0.40	100.80
044003 025	D29, CELLOPHANE FLAKE	Lb.	73	1.77	129.21
SERVICES					
102671 010	Pump	EA	1	840.00	840.00
048601 000	CEMENT HEAD	EA	1	70.00	N/C
059697 000	PACK REORDER	EA	1	159.00	159.00
049102 000	DELIVERY CHARGE	T/M	381	1.00	381.00
049100 000	SERVICE CHARGE	CFT	320	1.36	435.20
059200 002	MILEAGE (PUMP)	MI	29	2.95	85.55
056702 085	8 5/8" CASING HARDWARE TOP Rubber Plug	EA	1	109.00	109.00
34% Discount					
Had ESTIMATE \$ 4435.17 w/ DISCOUNT \$ 2927.21					SUB TOTAL

LICENSE/REIMBURSEMENT FEE

REMARKS: Thank You For Using Dowell

STATE % TAX ON \$
COUNTY % TAX ON \$
CITY % TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE *David K. Larver* TOTAL \$

GENERAL TERMS AND CONDITIONS

1. **DSI.** The Term "DSI" as used herein is an abbreviation of Dowell Schlumberger Incorporated and where used throughout these Terms and Conditions, shall be construed to mean Dowell Schlumberger Incorporated, a Delaware corporation.

2. **Terms.** Cash in advance unless DSI has approved credit prior to the sale. Credit Terms of Sale for approved accounts are total invoice amount due at DSI'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 DSI becomes delinquent, DSI 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. **Pricing.** 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 DSI'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 DSI's price schedule.

5. **Independent Contractor.** DSI is and shall be an independent contractor with respect to the performance of the services set forth on the service order, and neither DSI nor anyone employed by DSI 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.** DSI's equipment is designed to operate under conditions normally encountered in the well bore. Customer shall notify DSI 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 DSI 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.** DSI 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. DSI does not warrant in any way oilfield products not manufactured by DSI, and such will be sold or provided hereunder only with the warranties that are given by the manufacturer thereof. DSI 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. DSI'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 DSI for use in connection with its services, is expressly limited to (a) the replacement of such oilfield product upon its return to DSI or, at DSI'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, DSI 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, DSI CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION. DSI 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. DSI 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: "DSI Group" shall mean DSI 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 DSI Group) and all such entities' officers, directors, employees and invitees.

A. **DSI Indemnity.** DSI 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 DSI Group and/or damage to the DSI Group's property (except with respect to DSI 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 DSI 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 DSI 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 DSI Group on account of loss of or damage to DSI 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 DSI personnel are not present or (e) while being used by any person other than a DSI 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 DSI receives notice in writing of the loss or damage.

C. **Special Indemnity.** Customer further agrees to protect, defend, indemnify, and hold DSI 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 DSI 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 DSI'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.** DSI 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 DSI.

13. **Dispute Resolution.** If this Service Order is issued in conjunction with an executed DSI Master Service Agreement-Oilfield Services then all controversies shall be resolved as set forth therein. In the absence of such agreement DSI 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.

Form with fields for STATE, COUNTY, CITY, SIGNATURE OF DSI REPRESENTATIVE, LICENSE REIMBURSEMENT FEE, and REMARKS. Includes handwritten signatures and notes.

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 03 12 6553 DATE: 10/16/94
 STAGE: DS DISTRICT: ULYSSES, KANSAS

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

WELL NAME AND NO. **Chaffin #1-4** LOCATION (LEGAL) **SEC. 21-30S-36W** RIG NAME: **Cherokee #4**

FIELD-POOL **HUGOTON** FORMATION _____ WELL DATA: **BIT SIZE 12 1/4" CSG/Liner Size 8 5/8" BOTTOM TOP**

COUNTY/PARISH **STEVENSON** STATE **KANSAS** API. NO. _____ TOTAL DEPTH **582** WEIGHT **24#**

NAME **Mobil Oil** MUD TYPE **WR** GRADE _____ FOOTAGE **581**

AND _____ MUD DENSITY **9** LESS FOOTAGE SHOE JOINT(S) **43** THREAD **8rd**

ADDRESS _____ MUD VISC. _____ Disp. Capacity **538** TOTAL **538**

ZIP CODE _____

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

SPECIAL INSTRUCTIONS

SAME CEMENT 581 FT OF 8 5/8" CSG WITH 140 SXS OF LEAD AND 150 SXS OF TAIL CEMENT AS DIRECTED BY CUSTOMER

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE **208** PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²) _____

PRESSURE LIMIT **500 + ΔP** PSI BUMP PLUG TO **500 + ΔP** PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers **4**

JOB SCHEDULED FOR TIME: **ASAP** DATE: **10/16/94** ARRIVE ON LOCATION TIME: **17:36** DATE: **10/16/94** LEFT LOCATION TIME: **22:15** DATE: **10/16/94**

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
20:43		2000									
20:47		0	25	-	5.89	H ₂ O	8.33				
*20:53		190	54	25	5.89	CMT	12.2				
21:01		180	32	75	5.89	CMT	14.8				
21:07				107							
21:09		0	34	107	5.89	H ₂ O	8.33				
21:16				131	2	H ₂ O	8.33				
21:19		730		141							
21:21											
±21:24		800									
21:26											
21:30		760									
21:30											

REMARKS: **AP PRIOR to Bumping Plug ± 200 psi * Pump 50 BBLs LEAD.**

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BLS	DENSITY	BLS	DENSITY		
1.	140	2.2	50/60	C/PO2 + 6% D2O + 5% Bwaw D2A + 1/4#/SK D29	54.85	12.2		
2.	150	1.20	50/60	C/PO2 + 2% SA + 0.75% D2O + 1/4 #/SK D29	32.06	14.8		
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE **NIA** VOLUME **NIA** DENSITY **NIA** PRESSURE **730** MAX. **Plug** MIN: **3**

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

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **34.27** Bbls TYPE OF WELL OIL STORAGE BRINE WATER 85XS

Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS _____ CUSTOMER REPRESENTATIVE **MR. Volan Youngblood** DS SUPERVISOR **MR. DAVID R. SARDER**