

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- 189-21797-0000

County Stevens  
- NE - SW - SW Sec. 17 Twp. 32S Rge. 36 X W E

Operator: License # 5208

1250 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

Lease Name Ratcliff #1 Unit Well # 3

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 3077 KB 3088

Phone (316) 626-1142

Total Depth 3002 PBDT 2936

Contractor: Name: Cheyenne Drilling

Amount of Surface Pipe Set and Cemented at 555 Feet

License: 5382

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: L. J. Reimer

If yes, show depth set NA Feet

Designate Type of Completion

If Alternate II completion, cement circulated from NA

X New Well Re-Entry Workover

feet depth to NA w/ NA sx cmt.

Oil SWD SLOW Temp. Abd.

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

X Gas ENHR SIGW

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

If Workover:

Chloride content 10,700 ppm Fluid volume 520 bbls

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

Dewatering method used Waste Minimization Mud System

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

Location of fluid disposal if hauled offsite:

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

Operator Name Mobil Oil Corporation

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

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

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

Other (SWD or Inj?) Docket No. \_\_\_\_\_

Lease Name Hill #3 SWD License No. 5208

10-20-94 10-23-94 11-17-94

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

Spud Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date \_\_\_\_\_

County Stevens Docket No. CD-117710

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; STATE CORPORATION COMMISSION 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 19<sup>th</sup> day of January, 19 95.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998

K.C.C. OFFICE USE ONLY  
Letter of Confidentiality Attached  
C Wireline Log Received  
C Geologist Report Received  
Distribution  
✓ KCC SWD/Rep NGPA  
KGS Plug Other  
(Specify)



SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Ratcliff #1 Unit Well # 3  
 Sec. 17 Twp. 32 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	1278	1440
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stone Corral	1740	1797
List All E.Logs Run:		Chase	2601	2930
Dual Induction Focused Log - Gamma Ray Caliper		Council Grove	2930	--
Z-Densilog Compensated Neutron Spectralog				
Caliper Log - Gamma Ray				

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#	555	Class C Class C	150 sx 150 sx	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2992	Class C Class C	225 sx 170 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				

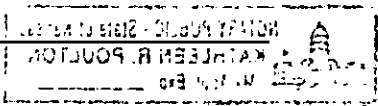
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1 SPF	2603-13 2630-40 2640-50 2665-75 2682-92 2718-38 2748-58	2766-72 2780-90	Acid: 1,500 gals 7.5% HCL Frac'd: 93,566 lbs 10/20 sand 887 bbls 15# Crosslink gel

TUBING RECORD	Size None	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 11-18-94	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 365 Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval: \_\_\_\_\_ 2603 \_\_\_\_\_ 2790



# DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

## OILFIELD SERVICES

DSI SERVICE ORDER  
RECEIPT AND INVOICE NO.  
**0312-6564**

DSI SERVICE LOCATION NAME AND NUMBER  
**UKS 03-12**

CUSTOMER NUMBER CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES  
**271**

CUSTOMER'S NAME  
**MOBIL OIL CORP.**

ADDRESS

CITY, STATE AND ZIP CODE

WORKOVER  W  
NEW WELL  N  
OTHER

API OR IC NUMBER

**ORIGINAL**

IMPORTANT  
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION MO. DAY YR. TIME  
**10 20 94**

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.

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE  
*William [Signature]*

JOB COMPLETION MO. DAY YR. TIME  
**10 20 94**

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  
*William [Signature]*

STATE **KANSAS** CODE COUNTY / PARISH **STEWENS** CODE CITY **MOSCOW**

WELL NAME AND NUMBER / JOB SITE **RATCLIFF** LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA **DOWELL**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
059200-002	MILEAGE	Mi	28	2.95	82.60
102871-010	Pump charge	EA	1	840.00	840.00
049102-000	Delivery charge	Tonn	381	1.00	381.00
049100-000	Service charge	cuft	331	1.36	450.16
059697-000	PACR charge	EA	1	159.00	159.00
040003-000	D903 Class C CM	cuft	151	9.06	1,368.06
045008-000	D35 Lignite 3	cuft	151	4.39	662.89
045004-056	D44 Salt	lb	774	0.13	100.62
045014-050	D20 Bentonite	lb	780	0.17	132.60
067005-100	S1 Gels	lb	252	0.40	100.80
044003-025	D29 Cellophane Flakes	lb	76	1.77	134.52
056702-085	8 3/8" Top Rubber plug	EA	1	109.00	109.00
					<b>4,521.25</b>
-34% Discount - Field Estimate:					<b>2,984.03</b>

Thanks for calling Dowell

LICENSE/REIMBURSEMENT FEE

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

SIGNATURE OF DSI REPRESENTATIVE *Thomas [Signature]* 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. **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 thereof.

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:

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.



CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 0312-6564 DATE: 10/20/94  
 STAGE: 1 DS: WKS DISTRICT: 03-12

DS 496 PRINTED IN U.S.A.

WELL NAME AND NO.: RATCLIFF  
 LOCATION (LEGAL):  
 FIELD-POOL: HUGOTON  
 FORMATION: SURFACE  
 COUNTY/PARISH: STEVENS STATE: KS API. NO.:

RIG NAME: CHEYENNE # 4  
 WELL DATA: BIT SIZE 12 1/4 CSG/Liner Size 8 5/8  
 TOTAL DEPTH 260' WEIGHT 24#  
 ROT  CABLE FOOTAGE 84  
 MUD TYPE: GRADE  
 BHST  BHCT THREAD 8rd  
 MUD DENSITY: LESS FOOTAGE SHOE JOINT(S)  
 MUD VISC.: Disp. Capacity

NAME: MOBIL OIL CORP.  
 AND:  
 ADDRESS:  
 ZIP CODE:

ORIGINAL

SPECIAL INSTRUCTIONS: run 2 pump 150 or lead slug @ 12-2ppg follow d by 150 or tail slug @ 14-8ppg. Displace behind top rubber plug with 3 BBL fresh water as instructed by company representative

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

Float	TYPE	DEPTH	Stage Tool	TYPE	DEPTH
	Insert A/F	510			
SHOE	TYPE	DEPTH		TYPE	DEPTH
	CHT/N GUIDE	555			

IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE 230 PSI CASING WEIGHT - SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT PSI BUMP PLUG TO 500 over PSI  
 ROTATE RPM RECIPROCATE FT No. of Centralizers

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

JOB SCHEDULED FOR TIME: 17:30 DATE: 10/20/94 ARRIVE ON LOCATION TIME: 17:30 DATE: 10/20/94 LEFT LOCATION TIME: 2:25-96 DATE: 10/20/94

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								
20:25	1500							PRE-JOB SAFETY MEETING
20:29	1500					H <sub>2</sub> O 8-3		Pressure test lines
20:33		210	25		5-8	H <sub>2</sub> O 8-3		Pump water spacer
20:37		260	60		5-8	Lead 12-2		Start cement slug
20:47		290	33		5-8	tail 14-8		Start tail slug
20:55		210	8		5-5	H <sub>2</sub> O 8-3		Drop top plug - Start Displacement
20:57		250	24		5-5	H <sub>2</sub> O 8-3		Cement to surface
21:04		320	0		0	H <sub>2</sub> O 8-3		End displacement
21:04		1000	0		0	H <sub>2</sub> O 8-3		Surge plug
21:05		0	0		0			Bleed off pressure - hold floats
21:08								Floats hold - End job.

REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED		
			BLS	DENSITY	BLS	DENSITY	
1.	150	2.2	50/50 C/Poz + 6% D20 + 5% D44 (Baker)	60	12.2	33	14.8
2.	150	1.2	50/50 C/Poz + 2% S1 + 0.75% D29				
3.							
4.							
5.							
6.							

BREAKDOWN FLUID TYPE:  HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO  
 PRESSURE: Cement Circulated To Surf.  YES  NO  
 BREAKDOWN: PSI FINAL PSI DISPLACEMENT VOL. 32 Bbls  
 TYPE OF WELL:  OIL  STORAGE  BRINE WATER  GAS  INJECTION  WILDCAT  
 Washed Thru Perfs  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE  
 PERFORATIONS: TO TO TO TO  
 CUSTOMER REPRESENTATIVE: DS SUPERVISOR: Tommaso

# DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

## OILFIELD SERVICES

DSI SERVICE ORDER  
RECEIPT AND INVOICE NO.

DSI SERVICE LOCATION NAME AND NUMBER

0312-6568

UKS 03-12

CUSTOMER NUMBER

CUSTOMER P.O. NUMBER

TYPE SERVICE CODE

BUSINESS CODES

CUSTOMER'S  
NAME

MOBIL OIL CORP.

WORKOVER  
NEW WELL  
OTHER

W  
 N

API OR IC NUMBER

ADDRESS

ORIGINAL

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.

IMPORTANT  
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO.	DAY	YR.	TIME
	10	23	94	17:30

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

*William [Signature]*

JOB COMPLETION	MO.	DAY	YR.	TIME
	10	23	94	20:00

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

*William [Signature]*

STATE CODE COUNTY / PARISH CODE CITY

KANSAS

STEVENS

HUGOTON

WELL NAME AND NUMBER / JOB SITE

BRACLIFF 1-3

LOCATION AND POOL / PLANT ADDRESS

SHIPPED VIA

DOWELL

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
059200-002	MILEAGE	mi	28	2.95	82.60
102871-030	PUMP CHARGE	EA	1	1,370.00	1,370.00
049102-000	DELIVERY CHARGE	EA	542	1.00	542.00
049100-000	SERVICE CHARGE	EA	411	1.36	558.96
059697-000	PAPER CHARGE	EA	1	159.00	159.00
056702-054	5 1/2" TOP RUBBER PWC	EA	1	75.00	75.00
040003-000	D903 clam c CRT	cuft	396	9.06	3,587.76
045041-100	D79 chemical Extender	lb	634	1.44	912.96
047002-050	D46 Antifoam	lb	42	3.41	143.22
044003-025	D29 Cellulose Flakes	lb	56	1.77	99.12
103368-050	B28 Expanding CRT	lb	320	3.34	1,068.80
067005-100	S1 Calcium Chloride	lb	320	0.40	128.00
044002-050	D60 FLAC	lb	96	8.61	826.56
047002-050	D46 Antifoam	lb	32	3.41	109.12
					9,683.10
					38% Discount
					Field Estimate :
					3,679.58
					6,003.52

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 \$

*Blaine [Signature]*



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 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:

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**

Schlumberger

Dowell

**DOWELL SCHLUMBERGER INCORPORATED**

TREATMENT NUMBER 0317-6508	DATE 10/23/94
STAGE 1	DS 03-12

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

WELL NAME AND NO. RATCLIFF 1-3	LOCATION (LEGAL) HUGOTON	RIG NAME: CHEYENNE #4
FIELD-POOL HUGOTON	FORMATION CHASE	WELL DATA: BOTTOM TOP
COUNTY/PARISH STEWENS	STATE KS	API. NO.
NAME MOBIL OIL CORP.	<b>ORIGINAL</b>	
ADDRESS		
ZIP CODE	NOTE: Include Footage From Ground Level To Head In Disp. Capacity	

SPECIAL INSTRUCTIONS Mix & pump 775 on lead string @ 11-5 followed by 170 on tail string @ 14-8. Displace behind by rubber plug with 71.9 bbl water as instructed by company representative.	<table border="1"> <tr> <td>Float</td> <td>TYPE</td> <td>A/F in/out</td> <td>TYPE</td> <td></td> </tr> <tr> <td></td> <td>DEPTH</td> <td>2947'</td> <td>DEPTH</td> <td></td> </tr> <tr> <td>SHOE</td> <td>TYPE</td> <td>CH 1 1/2 GULF</td> <td>TYPE</td> <td></td> </tr> <tr> <td></td> <td>DEPTH</td> <td>2992'</td> <td>DEPTH</td> <td></td> </tr> </table>	Float	TYPE	A/F in/out	TYPE			DEPTH	2947'	DEPTH		SHOE	TYPE	CH 1 1/2 GULF	TYPE			DEPTH	2992'	DEPTH															
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IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO	<table border="1"> <tr> <td>Head &amp; Plugs</td> <td><input type="checkbox"/> TBG <input type="checkbox"/> D.P.</td> <td colspan="2">SQUEEZE JOB</td> </tr> <tr> <td><input type="checkbox"/> Double</td> <td>SIZE</td> <td rowspan="2">TOOL</td> <td>TYPE</td> </tr> <tr> <td><input type="checkbox"/> Single</td> <td>WEIGHT</td> <td>DEPTH</td> </tr> <tr> <td><input type="checkbox"/> Swage</td> <td>GRADE</td> <td>TAIL PIPE: SIZE</td> <td>DEPTH</td> </tr> <tr> <td><input type="checkbox"/> Knockoff</td> <td>THREAD</td> <td>TUBING VOLUME</td> <td>Bbls</td> </tr> <tr> <td>TOP <input type="checkbox"/> OR <input type="checkbox"/> W</td> <td><input type="checkbox"/> NEW <input type="checkbox"/> USED</td> <td>CASING VOL. BELOW TOOL</td> <td>Bbls</td> </tr> <tr> <td>BOT <input type="checkbox"/> OR <input type="checkbox"/> W</td> <td>DEPTH</td> <td>TOTAL</td> <td>Bbls</td> </tr> <tr> <td>ROTATE</td> <td>RPM</td> <td>RECIPROCATATE</td> <td>FT</td> <td>No. of Centralizers</td> <td>ANNUAL VOLUME</td> <td>Bbls</td> </tr> </table>	Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB		<input type="checkbox"/> Double	SIZE	TOOL	TYPE	<input type="checkbox"/> Single	WEIGHT	DEPTH	<input type="checkbox"/> Swage	GRADE	TAIL PIPE: SIZE	DEPTH	<input type="checkbox"/> Knockoff	THREAD	TUBING VOLUME	Bbls	TOP <input type="checkbox"/> OR <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL	Bbls	BOT <input type="checkbox"/> OR <input type="checkbox"/> W	DEPTH	TOTAL	Bbls	ROTATE	RPM	RECIPROCATATE	FT	No. of Centralizers	ANNUAL VOLUME	Bbls
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LIFT PRESSURE 1763 PSI	CASING WEIGHT ÷ SURFACE AREA (3.14 x R <sup>2</sup> )	PRESSURE LIMIT PSI	BUMP PLUG TO 500 ORG PSI																																

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME: 17:30	DATE: 10/23/94	TIME: 17:30	DATE: 10/23/94	TIME: 20:00	DATE: 10/23/94	
0001 to 2400					INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			
18:30								PRE-JOB SAFETY MEETING			
18:35	1300					H <sub>2</sub> O	8.3	Pressure test lines			
18:39		380	25		5.8	H <sub>2</sub> O	8.3	Start water spacer			
18:43		430	55		5.8	lead	11.5	Start lead string			
18:52		0	51		5.9	lead	11.5	1st density checked			
19:00		250	41		5.8	tail	14.8	Start tail string			
19:10						H <sub>2</sub> O	8.3	Wash behind plug			
19:12		0			0			Drop top plug			
19:13		120	60		6.3	H <sub>2</sub> O	8.3	Start displacement			
19:21		800	12		2.02	H <sub>2</sub> O	8.3	Current to surface			
19:26		1000			2.0	H <sub>2</sub> O	8.3	End displacement			
19:28		1630	0		0			Bump plug to 1630 psi			
19:19		0	0		0			Bleed off pressure drops returns Flash hold - End job			

REMARKS

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 #16 D79				106	11.5
2.	170	1.37	Class C + 2% B28 + 2% S1 + 0.6% D60 + 0.2% DAG				41	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 10 20 Bbls
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	72 Bbls
Washed Thru Perfs	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS	SUPERVISOR