

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

API NO. 15- 093-21394 0000 ORIGINAL

County Kearny  
SE - NW - NE Sec. 29 Twp. 26s Rge. 36 X E  
W

Operator: License # 5208

1250 Feet from S (circle one) Line of Section  
1500 Feet from E (circle one) Line of Section

Name: Mobil Oil Corporation

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

Address P.O. Box 2173

2319 North Kansas Avenue

Lease Name Lee #4 Unit Well # 5

City/State/Zip Liberal, KS 67905-2173

Field Name Rugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 2996 KB 3007

Phone (316) 626-1142

Total Depth 2916 PBDT 2861

Contractor: Name: Murfin Drilling Co., Inc.

Amount of Surface Pipe Set and Cemented at 718 Feet

License: 30606

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.  
X Gas ENHR SIGW  
Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan ALT 1 9-14-95  
(Data must be collected from the Reserve Pit)

If Workover:

Chloride content 9200 ppm Fluid volume 75 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 NA License No. 5208

NA Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

11-4-94 11-8-94 12-12-94  
Spud Date Date Reached TD Completion Date

County NA Docket No. NA

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 2-16-95

Subscribed and sworn to before me this 16<sup>th</sup> day of February, 1995.

Notary Public Kathleen R. Poulton  
Date Commission Expires August 18, 1998



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

**SIDE TWO**

Operator Name Mobil Oil Corporation Lease Name Lee #4 Unit Well # 5

Sec. 29 Twp. 26s Rge. 36  East  West County Kearny

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

List All E.Logs Run:

Dual Induction-GR Linear Correlation Caliper  
Compensated Neutron Lithodensity - FR  
Natural Spectrometry Gamma Ray

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Glorietta	1450	1564
Stone Corral	1828	1895
Chase	2473	2770
Council Grove	2770	--

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#	718	Class C Class C	220 sx 175 sx	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2906	Class C Class C	210 sx 130 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	2505-15	2595-2605	Acid: 1,500 gals 7.5% HCL
	2522-32	2620-40	Frac'd: 20,500 gals 15# Crosslink gel 63,000 lbs 10/20 sand	
	2540-46	2660-80		
	2560-80			

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. 12-7-94					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
			304		

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: 2505 - 2680

# DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

## OILFIELD SERVICES

DSI SERVICE ORDER  
RECEIPT AND INVOICE NO.

6607

DSI SERVICE LOCATION NAME AND NUMBER

ULYSSES, KS

CUSTOMER NUMBER

CUSTOMER P.O. NUMBER

TYPE SERVICE CODE

271

BUSINESS CODES

CUSTOMER'S  
NAME

MOBIL OIL CORP.

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.

2. allow cement & 5/8" sub. at req. with following materials

WORKOVER  
NEW WELL  
OTHER

W  
 N

API OR IC NUMBER

IMPORTANT  
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO.	DAY	YR.	TIME
	11	5	94	08:20

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

*[Signature]*

JOB COMPLETION	MO.	DAY	YR.	TIME
	11	5	94	10:28

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

*[Signature]*

STATE	CODE	COUNTY / PARISH	CODE	CITY
KS.		Stevens		

WELL NAME AND NUMBER / JOB SITE

Lee 4-5

LOCATION AND POOL / PLANT ADDRESS

SEC 29 265 364

SHIPPED VIA

Dowell

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
102871-010	Pump chg.	Eq.	1	840.00	840.00
049102-000	Del. chg.	Equip	396	1.00	396.00
049100-000	serv. chg.	Equip	437	1.26	550.82
059697-000	PACR chg.	Eq.	1	159.00	159.00
059200-002	Mileage chg.	Mil	22	2.95	64.90
040003-000	class cement 0903	CU FT	200	9.06	1812.00
045008-000	025 Per.	CU FT	195	4.39	856.05
045004-050	044 salt	LB.	1133	.13	147.29
045014-050	020 Bentonite	LB.	1240	.17	210.80
067005-100	51 Cal. Chl.	LB.	294	.40	117.60
044003-025	029 Gel. Flk.	LB.	99	1.77	175.23
056701-085	Top sub. Plug 5/8"	Eq.	1	109.00	109.00
048601-000	WMT HEAD	Eq.	1	NC	NC
				\$ 240.34	5482.14
				TAX	1363.94
					7611.25

Field cost # 3618.25

SUB TOTAL

LICENSE/REIMBURSEMENT FEE

LICENSE/REIMBURSEMENT FEE

REMARKS:

STATE

% TAX ON \$

COUNTY

% TAX ON \$

CITY

% TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE

TOTAL \$

Thanks for using Dowell !!!



**CEMENTING SERVICE REPORT**

Schlumberger  
Dowell

**DOWELL SCHLUMBERGER INCORPORATED**

TREATMENT NUMBER: 27-12-6607  
DATE: 11-1-95  
STAGE: 1 DS DISTRICT: 1

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

WELL NAME AND NO. **Lee 4-5**  
 LOCATION (LEGAL) **265 36.00**  
 FIELD-POOL **Hogaton**  
 COUNTY/PARISH **ST. LOUIS**  
 STATE **MO** API. NO.

RIG NAME: **10.55.12**  
 WELL DATA: BOTTOM TOP  
 BIT SIZE: **12 1/2** CSG/Liner Size  
 TOTAL DEPTH: **7114** WEIGHT  
 ROT  CABLE FOOTAGE: **7.3**  
 MUD TYPE GRADE  
 BHST  BHCT THREAD: **810**  
 MUD DENSITY: **679.8** LESS FOOTAGE SHOE JOINT(S)  
 MUD VISC. Displ. Capacity: **4327** TOTAL

NAME **Original Oil Co.**  
 AND  
 ADDRESS  
 ZIP CODE

**ORIGINAL**

SPECIAL INSTRUCTIONS  
**SUPPLY CMT FOR casing of legs, 1391.5ft. with following T&P DISPLACEMENT.**

Float	TYPE	<b>WILD FIL FWD</b>	Stave Tool	TYPE
	DEPTH	<b>679.62</b>		DEPTH
Shoe	TYPE	<b>CM-1058</b>		TYPE
	DEPTH	<b>72.3</b>		DEPTH

IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE **207\*** PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT **1500** PSI BUMP PLUG TO **790** PSI  
 ROTATE RPM RECIPROCAT 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  OR  NEW  USED CASING VOL. BELOW TOOL Bbls  
 BOT  OR  DEPTH TOTAL Bbls  
 ANNUAL VOLUME Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
08:25											
09:35			12.5		1	11	8.2				
09:57		1740	20		5	11:05	5.0				
10:12		11	50.2		5.2	11:12	13.2				
09:50		2110	37.5		5.8	11:13	14.3				
10:27	210										
10:02		210			4.0	11:00					
10:07		2410			6.1						
10:15		770	40.5								
10:28											

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	220	2.2	5.150 402 + 6.7 11.70 + 5.7 11.70 + 4.3 7.0				85.0	15.2
2.	175	1.2	5.0 11.70 + 4.3 7.0 + 1.7 11.70 + 1.7 11.70				33.0	14.8
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. MIN.  
 HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO Bbls  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **4325** Bbls TYPE OF WELL  OIL  STORAGE  BRINE WATER  GAS  INJECTION  WILDCAT  
 Washed Thru Perfs  YES  NO TO: **7.0** FT. MEASURED DISPLACEMENT  WIRELINE  
 PERFORMATIONS TO: TO: CUSTOMER REPRESENTATIVE: **x. Wabash** DS SUPERVISOR: **R. J. ...**

# DOWELL SCHLUMBERGER INCORPORATED

CUSTOMER

P.O. BOX 4378 HOUSTON, TEXAS 77210

## OILFIELD SERVICES

DSI SERVICE ORDER  
RECEIPT AND INVOICE NO.  
**03 12 6611**

DSI SERVICE LOCATION NAME AND NUMBER  
**ULYSSES, KANSAS 03-12**

CUSTOMER NUMBER CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES  
**285**

CUSTOMER'S NAME  
ADDRESS

**Mobil Oil**

WORKOVER  NEW WELL  OTHER  API OR IC NUMBER

CITY, STATE AND ZIP CODE

**ORIGINAL**

IMPORTANT  
SEE OTHER SIDE FOR TERMS & CONDITIONS  
ARRIVE LOCATION MO. DAY YR. TIME  
**11 08 94 05.42**

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  
*[Signature]*

JOB COMPLETION MO. DAY YR. TIME  
**11 08 94 8.20**

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  
*[Signature]*

**SAFELY CEMENT 2909 FT OF 5 1/2" CASING WITH 1210 SXS OF LEAD AND 130 SXS OF TAIL CEMENT AS DIRECTED BY CUSTOMER.**

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

WELL NAME AND NUMBER / JOB SITE **LEE 4-3** LOCATION AND POOL / PLANT ADDRESS **SEC. 29-26-36W** SHIPPED VIA **DOWELL**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<b>MATERIALS</b>					
040003 000	D903, CLASS C CEMENT	CFT	341	9.06	3081.46
103368 050	B28, EXPANDING CEMENT	lb.	244	3.34	814.96
645041 100	D79, CHEMICAL EXTENDER	lb.	592	1.44	852.48
067005 100	S1, CALCIUM CHLORIDE	lb.	244	0.40	97.60
044002 050	D66, FLAC	lb.	73	8.61	628.53
047002 050	D46, ANTIFOAM Agent	lb.	64	3.41	218.24
044003 025	D29, CELLOPHANE FLAKES	lb.	53	1.77	93.81
<b>SERVICES</b>					
102871 030	PUMP	EA	1	1390.00	1390.00
048601 000	CEMENT HEAD	EA	1	70.00	N/C
649102 000	DELIVERY CHARGE	TM	366	1.00	366.00
049100 000	SERVICE CHARGE	CFT	354	1.36	481.44
059200 002	MILEAGE (PUMP)	MI	22	2.95	64.90
059607 006	PUMP RECORD	EA	1	159.00	159.00
056704 054	5 1/2" CASING HARDWARE TOP PLUG (Rubber)	EA	1	120.00	120.00

DISCOUNT 38%

FIELD ESTIMATE \$ 8376.42 w/ discount \$ 5393.38 SUB TOTAL

LICENSE/REIMBURSEMENT FEE

REMARKS: **THANK YOU FOR USING DOWELL!!**

STATE COUNTY CITY % TAX ON \$ SIGNATURE OF DSI REPRESENTATIVE TOTAL \$  
*David K. Lawer*

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 reserve 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 interruption of such data by others. DSI does not guarantee the safe storage or the length of time of storage of any digital tapes, optical ions 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 owners, 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 owners.

A. DSI Indemnity. DSI, its parent, subsidiary, and affiliated companies, shall defend, indemnify, and hold Customer Group and their insurers harmless from and against all loss, liability, claims, demands and causes of action of every kind and character, (including all costs and expenses thereof and reasonable attorney's fees) which are required to be paid or caused to be paid, the unawareness 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 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 and hereby agrees to protect, defend, indemnify and hold the DSI Group and their insurers harmless from and against all loss, liability, claims, demands and causes of action of every kind and character, (including all costs and expenses thereof and reasonable attorney's fees, amount required to be paid or caused to be paid, the unawareness 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 on account of bodily injury, and/or death to a member of the DSI 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 which are required to be paid or caused to be paid, the unawareness 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 of 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; (2) property damage or loss that results from reservoir or underground damage, including loss of oil, gas, water, mineral substances or water or the well bore itself, surface damage arising from subsurface damage or loss, (3) damage to personal injury, death or property damage or loss that results from work performed to control a wild well, (4) cost of control of a wild well, underground or above the surface, including any handling or reworking costs; (5) damage to property owned by or 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); (6) any drilling, rig platform or other structure of the well bore 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.

F. Incidental or Consequential Damages. It is expressly agreed that neither party shall be liable to the other for any punitive, incidental, consequent 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 agrees in writing to the self insured party's plan of such plan(s) of insurance. It is further agreed 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 on or which exceeds the maximum amounts of insurance coverage mutually carried under applicable law, shall not be subject 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 regulations, labor and material shortages, war, strikes, fire, piracy, or other causes beyond the reasonable control of DSI.

13. Assignment. This Agreement shall be binding on and enforceable against DSI, its parent, subsidiary, and affiliated companies, its contractors and subcontractors, and shall be enforceable as set forth therein in the absence of any assignment by DSI. Customer shall not be bound by, assigned, and claims arising out of this Agreement shall not be assigned by Customer to any of the American Petroleum Institute member companies, its parent, subsidiary, and affiliated companies, its contractors and subcontractors, or any other party. Any assignment of this Agreement to any of the American Petroleum Institute member companies, its parent, subsidiary, and affiliated companies, its contractors and subcontractors, or any other party shall be null and void and shall not be enforceable in any court of competent jurisdiction.

14. Entire Agreement. This Agreement shall constitute the entire agreement between the parties hereto and shall supersede all previous agreements, understandings, and negotiations between the parties hereto. This Agreement shall be governed by the laws of the State of Texas.

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	03 12 6611	DATE	11-8-94
STAGE	DS	DISTRICT	ULLYSSES, KANSAS

WELL NAME AND NO: **LEE 4-S**  
 LOCATION (LEGAL): **SEC. 29-26-36W**  
 FIELD-POOL: **HUGOTON**  
 FORMATION: **CHASE**  
 COUNTY/PARISH: **KLARNY**  
 STATE: **KANSAS** API NO.:  
 NAME: **Mobil Oil**  
 ADDRESS:  
 ZIP CODE:

REG NAME: **MURKIN # 22**

WELL DATA:	BOTTOM	TOP
BFT SIZE <b>7 7/8"</b>	C60/Inner Size <b>5 1/2"</b>	
TOTAL DEPTH <b>2909.26'</b>	WEIGHT <b>14</b>	
<input type="checkbox"/> ROOT <input type="checkbox"/> CABLE	FOOTAGE <b>2909.26'</b>	
MUD TYPE <b>WB</b>	GRADE	
<input type="checkbox"/> BHCT $\pm 110^{\circ}F$	THREAD <b>8 ID</b>	<b>ORIGINAL</b>
MUD DENSITY <b>9</b>	LESS FOOTAGE SHOE JOINT(S) <b>44.78</b>	
MUD VISC	Disp. Capacity <b>2864.48</b>	TOTAL <b>2864.48</b>

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

SPECIAL INSTRUCTIONS:  
**SAFETY CEMENT 2909 FT. OF 5 1/2" CASING WITH 210 SXS OF LEAD AND 130 SXS OF TAIL CEMENT AS DIRECTED BY CUSTOMER**

TYPE	<b>AUTOPHILL INSERT</b>	TYPE	
DEPTH	<b>2864.48'</b>	DEPTH	
TYPE	<b>CMT. NOSE GUIDE</b>	TYPE	
DEPTH	<b>2909.26'</b>	DEPTH	

Head & Plugs:  T&G  O.P.  SQUEEZE JOB

Double  Single  SWAGE  Knackoff

SIZE WEIGHT GRADE THREAD

TOP  NEW  USED

ROT OR OW DEPTH

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE **674** PSI CASING WEIGHT - SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT **2500** PSI BUMP PLUG TO **500 + 4P** PSI

ROTATE **8** RPM RECIPROCATATE **4** FT No. of Centralizers **16**

JOB SCHEDULED FOR TIME **5:30** DATE: **11/8/94** ARRIVE ON LOCATION TIME **5:40** DATE: **11/8/94** LEFT LOCATION TIME **09:00** DATE: **11/8/94**

TIME	PRESSURE		VOLUME PUMPED		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION		SERVICE LOG DETAIL
	T&G OR D.P.	CASING	INCREMENT	CUM.	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE	
07:22												PRE-JOB SAFETY MEETING
07:22		2200										START JOB.
07:25		20	25	-	5.7	H <sub>2</sub> O	8.33					PRESSURE TEST LINES. TEST OK.
07:31				25								START WATER FLUSH AHEAD. BREAK CIRC.
07:32		150	102	25	5.7	CMT	11.5					SHUTDOWN. BATCH TUB UP
07:50		150	31	127	3.8	CMT	14.5					START LEAD SLURRY
07:57				158								START TAIL SLURRY
08:02			70	158	5.5	H <sub>2</sub> O	8.33					SHUTDOWN.
08:14		700		218	2	H <sub>2</sub> O	8.33					START DISPLACEMENT
08:19		1200		228								LOWER Pump RATE.
												Bump Top Plug
												Blow off Pressure of Chase Plug.
												Front Head. Release Dowell.

REMARKS: **AP PRIOR TO Bumping Plug  $\pm$  500 psi**

SYSTEM CODE	NO. OF BAGS	YIELD CU. FT/BK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			CLASS C	CLASS D	CLASS E	CLASS F	BBLs	DENSITY
1	210	2.75	CLASS C	+ 31.02%	+ 0.2% DMC	+ 1/4 #15K D29	102.85	11.5
2	130	1.37	CLASS C	+ 21.82%	+ 2.75%	+ 0.6% DMC + 0.2% DMC	31.72	14.5
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE **N/A** VOLUME **D/A** DENSITY **N/A** PRESSURE **1200** MAX **Bump Plug**

HE SITUATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **64.99** Bbls TYPE OF WELL  PLUG  STORAGE  BRINE WATER  WILDCAT **12 SXS**

Washed Thru Parts  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE **MR. DAVID Neal** DS SUPERVISOR **MR. DAVID R. SARVER**