

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

API NO. 15- 189-21632-0000
County Stevens
- NE - SW - SW Sec. 16 Twp. 32S Rge. 37W X W
1250 Feet from S (circle one) Line of Section
4022 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Hayward #3 Unit Well # 5
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 3139.5 KB 3151
Total Depth 2940 PBDT 2895
Amount of Surface Pipe Set and Cemented at 1466 Feet
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set NA Feet
If Alternate II completion, cement circulated from NA
feet depth to NA w/ NA sx cmt.

Operator: License # 5208
Name: Mobil Oil Corporation
Address P.O. Box 2173
2319 North Kansas Avenue
City/State/Zip Liberal, KS 67905-2173
Purchaser: Spot Market
Operator Contact Person: Sharon Cook
Phone (316) 626-1142
Contractor: Name: Cheyenne Drilling
License: 5382
Wellsite Geologist: L. J. Reimer

Designate Type of Completion
X New Well Re-Entry Workover
Oil SWD S10W Temp. Abd.
X Gas ENHR SIGW
Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
Deepening Re-perf. Conv. to Inj/SWD
Plug Back PBDT
Commingle Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.
5-24-94 5-31-94 9-10-94
Spud Date Date Reached TD Completion

Drilling Fluid Management Plan ALT 1 99# 1-30-95
(Data must be collected from the Reserve Pit)
Chloride content 18,500 ppm Fluid volume 300 bbls
Dewatering method used Waste Minimization Mud System
Location of fluid disposal if hauled offsite: _____
Operator Name Mobil Oil Corporation
Lease Name Hill #3 SWD License No. 5208
Quarter Sec. 3 Twp. 33 S Rng. 37W E/W
County Stevens Docket No. CD-117710

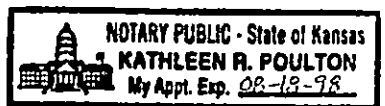
RECEIVED
STATE CORPORATION COMMISSION
SEP 14 1994

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 9-13-94
Subscribed and sworn to before me this 13th day of September,
19 94.
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)



P1

JAN 1990

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Hayward #3 Unit Well # 5

Sec. 16 Twp. 32S. Rge. 37W 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.)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run (Submit Copy.)

Table with columns: Log Formation (Top), Depth and Datums, Sample. Rows include Glorietta, Stone Corral, Chase, Council Grove.

List All E.Logs Run:
EPILOG
Dual Induction Focused Log - Gamma Ray
Z-Densilog Compensated Neutron Spectralog
Multipole Array Acoustilog Delta T Gamma Ray Caliper Log
Litho-Elastic Properties

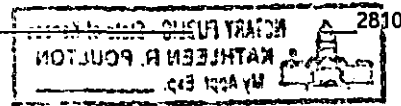
CASING RECORD table with columns: Purpose of String, Size Hole Drilled, Size Casing Set (In O.D.), Weight Lbs./Ft., Setting Depth, Type of Cement, # Sacks Used, Type and Percent Additives.

ADDITIONAL CEMENTING/SQUEEZE RECORD table with columns: Purpose, Depth Top/Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

PERFORATION RECORD - Bridge Plugs Set/Type table with columns: Shots Per Foot, Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used), Depth.

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run, Date of First, Resumed Production, SWD or Inj., Producing Method, Estimated Production Per 24 Hours.

Disposition of Gas: Vented, Sold, Used on Lease. METHOD OF COMPLETION: Open Hole, Perf., Dually Comp., Commingled, Other (Specify). Production Interval: 2610.



WELL DATA

FIELD _____ SEC. 16 TWP. 32S RING. 32W COUNTY Stevens STATE KANSAS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	1	14	5 1/2	0	2934	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES			CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
TYPE AND SIZE	QTY.	MAKE	DATES	DATES	DATES	DATES
FLOAT COLLAR			5-31-94	5-31-94	5-31-94	5-31-94
FLOAT SHOE			04:00	07:00	10:45	11:45
GUIDE SHOE						
CENTRALIZERS						
BOTTOM PLUG						
TOP PLUG						
HEAD						
PACKER						
OTHER						

ORIGINAL

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
K. Boone	47541	40067 L'bonal
N. Tate	40568	52023 "
D. Hamilton	63090	75374 "
D. Paul	135611	4673 4515 Hugoton
		3207 6616 "

DEPARTMENT Cement

DESCRIPTION OF JOB Cement 2934' of 5 1/2" casing

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR K. Boone COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	225	Pt		B	3 1/2 Ecocemite, 1/4" chunks, 2% D.A.R.	2.77	115
	150	Pt		3	STATE CORPORATION COMMISSION, 9 1/2 Halc 1-9, 3% C.A. 3	1.47	148

SEP 14 1994

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____

ORDERED _____ AVAILABLE _____ USED _____

TREATING _____ DISPL. _____ OVERALL _____

FEET 45 REASON Shoe Joint

VOLUMES

PRESLUSH: BBL.-GAL. 20 TYPE 4/4

LOAD & BKDM: BBL.-GAL. _____ PAD: BBL.-GAL. _____

TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 20.4

CEMENT SLURRY: BBL.-GAL. 111.39

TOTAL VOLUME: BBL.-GAL. _____

REMARKS

CIP 40 S.K.

CUSTOMER: Mobil Oil
LEASE: Hayward
WELL NO.: 3-5
JOB TYPE: 5/2-2.5
DATE: 5/31/94



DATE	PAGE NO.
5-31-94	

JOB LOG FORM 2013 R-4

CUSTOMER <i>Mob 101</i>	WELL NO. <i>3-5</i>	LEASE <i>HAYWARD</i>	JOB TYPE <i>5' 2.5</i>	TICKET NO. <i>677488</i>
----------------------------	------------------------	-------------------------	---------------------------	-----------------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>07.00</i>							<i>on loc</i>
								<i>Safety meeting ORIGINAL</i>
	<i>10.52</i>	<i>6</i>	<i>15</i>				<i>250</i>	<i>Pump flow</i>
	<i>11.00</i>	<i>6</i>	<i>11</i>				<i>250</i>	<i>Pump load cement</i>
	<i>11.17</i>	<i>6</i>	<i>35</i>				<i>250</i>	<i>Pump tail cement</i>
	<i>11.23</i>							<i>wash up to pit</i>
	<i>11.27</i>							<i>release plug</i>
	<i>11.27</i>							<i>start displacement</i>
	<i>11.42</i>						<i>1200</i>	<i>plug down</i>
	<i>11.43</i>							<i>CL fit OK</i>
								<i>OK 40 OK</i>

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SEP 14 1994
CONSERVATION DIVISION

CUSTOMER



HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: Mob 1 01
 ADDRESS:
 CITY, STATE, ZIP CODE:

COPY

TICKET

No.

677488 - 9

PAGE 1 OF 2

SERVICE LOCATIONS 1. Liberal 025540 2. Hugoton 025535 3. 4.	WELL/PROJECT NO. 3-5	LEASE Harward	COUNTY/PARISH Stearns	STATE KS	CITY/OFFSHORE LOCATION	DATE 5-31-94	OWNER Mob 1 01
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Cheyenne	RIG NAME/NO. 4	SHIPPED VIA Co 121	DELIVERED TO Loc.	ORDER NO.	
WELL TYPE	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION Sil. T325 R37W			
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1			MILEAGE	80				2.75	2200.00
001-016		1			Pump charge	2934					1455.00
030-016		1			Top Rubber Plug	1	EA	5/2			60.00
045-050		1			comp. Pal	1	EA				600.00
	CONSERVATION WICHITA SAA										
	SEP 14 1994										
	RECEIVED STATE CORPORATION COMMISSION										

ORIGINAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE <i>[Signature]</i>	DATE SIGNED 5-31-94	TIME SIGNED 12 00	<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	TYPE LOCK	DEPTH	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 2335.00
					BEAN SIZE	SPACERS	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				FROM CONTINUATION PAGE(S) 8377.19
					TYPE OF EQUALIZING SUB.	CASING PRESSURE	WE UNDERSTOOD AND MET YOUR NEEDS?				
					TUBING SIZE	TUBING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
					WELL DEPTH		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
					TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE 10,712.19
							<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) JEFF LASITER	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>[Signature]</i>	HALLIBURTON OPERATOR/ENGINEER Keith Boone	EMP # 47841	HALLIBURTON APPROVAL
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TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



TICKET CONTINUATION

DUNCAN COPY

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TICKET No. ^{M6} 677489

HALLIBURTON ENERGY SERVICES

CUSTOMER Mobil Oil	WELL Hayward #3-5	DATE 05-31-94	PAGE OF 2/2
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	WELL		DATE	UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M			
504-050	516.00265				Premium Plus Cement	375	sk		10.36	3885.00
507-210	890.50071				Flocele 3/4"W/ 225	56	lb		1.65	92.40
507-665	70.15556				Halad-9 .99"W/ 150	127	mlb		8.85	1123.95
507-153	516.00161				CFR-3 .39"W/ 150	42	lb		4.85	203.70
507-970	70.15764				D-Air #1 .29"W/ 225	42	lb		3.25	136.50
509-406	890.50812				Calcium Chloride 29"W/ 150	3	sk		36.75	110.25
507-285	70.15250				Econolite 39"W/ 225	635	lb		1.30	825.00
508-112	516.00226				Microbond 109"W/ 150	1500	lb		.90	1350.00
019-980					Cement Sample Containers	1	ea		10.00	10.00
					SERVICE CHARGE	CUBIC FEET				
500-207						394			1.35	531.90
500-306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		
						37,892	6	113.676	.95	107.99

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ORIGINAL

No. B 255173

CONTINUATION TOTAL 8377.19

CUSTOMER
M. H. ...
LEASE
WELL NO.
JOB TYPE
DATE

WELL DATA

FIELD _____ SEC. 16 TWP. 32 RNG. 32 COUNTY STURGEON STATE ND

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<input checked="" type="checkbox"/>	10	2 1/2	100	1468	
LINER	<input type="checkbox"/>					
TUBING	<input type="checkbox"/>					
OPEN HOLE	<input type="checkbox"/>					SHOTS/FT.
PERFORATIONS	<input type="checkbox"/>					
PERFORATIONS	<input type="checkbox"/>					
PERFORATIONS	<input type="checkbox"/>					

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 5-25-17	DATE 5-25-17	DATE 5-25-17	DATE 5-25-17
TIME 0830	TIME 0730	TIME 0800	TIME 1137

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
R. Crist	35242	...
D. 7653
R. Roshko	7131	...
...
...
...
...
...
...

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____

DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____

PROP. TYPE _____ SIZE _____ LB. _____

PROP. TYPE _____ SIZE _____ LB. _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

SURFACTANT TYPE _____ GAL. _____ IN _____

NE AGENT TYPE _____ GAL. _____ IN _____

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____

GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____

BREAKER TYPE _____ GAL.-LB. _____ IN _____

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement surface

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE [Signature]

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	450	Product 1000	B		30% CE 1/11 Fluo + 10	1.77	12.5
2	300	Product 1000	L		30% CE	1.77	14.5

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESURUSH: BBL. GAL. _____ TYPE _____

BREAKDOWN: _____ MAXIMUM _____ LOAD & BKDN: BBL. GAL. _____ PAD: BBL. GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TRANSMISSION: BBL. GAL. _____ DISPL: BBL. GAL. 90

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL. GAL. 158 70

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL. GAL. _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 40.61 REASON Stop Test

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REMARKS



JOB LOG FORM 2013 R-4

DATE 5-25-92 PAGE NO.

CUSTOMER Mobil Oil WELL NO. 5 LEASE Hayward JOB TYPE surface TICKET NO. 677682

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS (T, C), PRESSURE (PSI) (TUBING, CASING), DESCRIPTION OF OPERATION AND MATERIALS. Includes handwritten entries for operations like 'Called out Ready to start', 'Pump Lead Cement', and 'Pump Plug Float Held'.

ORIGINAL

CUSTOMER



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 677680

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FORM 1911 R-10

CUSTOMER Mobil Oil	WELL Hayward	DATE 5-25-94	PAGE 1	OF 1
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-050	516.00265				Premium Plus Cement	300	sk			8.95	2685.00
504-120					Halliburton Light Cement	450	sk			8.05	3622.50
504-050	516.00265										
506-105	516.00286										
506-121	516.00259										
507-210	890.50071				Flocele 1/4/450sk	113	lb			1.40	158.20
509-406	890.50812				Calcium Chloride 1/8/750sk	20	sk			28.25	565.00
019-980					Sample Bucket	10				10.00	10.00
500-207					SERVICE CHARGE			CUBIC FEET	798	1.25	997.50
500-306					MILEAGE CHARGE			TON MILES	178.58	.85	151.79
					TOTAL WEIGHT	71,430		LOADED MILES	5		

RECEIVED
 SEP 14 1994
 THE CORPORATION COMMISSION
 CONSERVATION DIVISION

ORIGINAL

No. B 255111

CONTINUATION TOTAL

8187.99



HALLIBURTON ENERGY SERVICES

CHARGE TO:
ADDRESS: *Mo. 101*
CITY, STATE, ZIP CODE:

COPY

TICKET

No. 677682 - 5

PAGE 1 OF 2

FORM 1906 R-13

SERVICE LOCATIONS
1. *Liberal*
2. *Houston*
3.
4.
REFERRAL LOCATION

WELL/PROJECT NO. *5*
LEASE *Hayward*
COUNTY/PARISH *Stevens*
STATE *KS*
CITY/OFFSHORE LOCATION
DATE
OWNER

TICKET TYPE
 SERVICE NITROGEN JOB? YES NO
 SALES NO
CONTRACTOR *Clayton*
RIG NAME/NO. *4*
SHIPPED VIA
DELIVERED TO
ORDER NO.

WELL TYPE
WELL CATEGORY *01*
JOB PURPOSE *010*
WELL PERMIT NO.
WELL LOCATION

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
<i>900-117</i>					MILEAGE	<i>10</i>	<i>M</i>			<i>7.25</i>	<i>72.50</i>
<i>900-116</i>					<i>Pump Charge</i>						<i>94.00</i>
<i>900-971</i>					<i>5-12-1994 P.M.</i>						<i>130.00</i>

ORIGINAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE
[Signature]

DATE SIGNED *5-23-94* TIME SIGNED *1440*
 A.M. P.M.

do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <i>1102.50</i>
BEAN SIZE	SPACERS		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
TYPE OF EQUALIZING SUB.	CASING PRESSURE	WE UNDERSTOOD AND MET YOUR NEEDS?				FROM CONTINUATION PAGE(S) <i>8189 89</i>
TUBING SIZE	TUBING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <i>9292.49</i>
	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				
			<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <i>JEFF LASITER</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>[Signature]</i>	HALLIBURTON OPERATOR/ENGINEER <i>Ronald Crist 0-7457</i>	EMP #	HALLIBURTON APPROVAL
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TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.