

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

Operator: License # 9262

Name: Lowry Exploration, Inc.

Address P.O. Box 1847

City/State/Zip Liberal, KS 67905

Purchaser: Anadarko

Operator Contact Person: Ned Lowry

Phone (316) 624-8141

Contractor: Name: Murfin Drilling Company, Inc.

License: 30606

Wellsite Geologist: _____

Designate Type of completion
 New Well Re-Entry Workover

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

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

1/16/97 1/21/97 1/22/97
Spud Date Date Reached TD Completion Date

API NO. 15- 189-221340000

County Stevens

NW - NW - SE - NE Sec. 18 Twp. 34S Rge. 37 E

1390 Feet from S(circle one) Line of Section

1250 Feet from E(circle one) Line of Section

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

Lease Name Dunne Hoffman Well # 3-18

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3170 KB 11

Total Depth 3150 PBDT 3132

Amount of Surface Pipe Set and Cemented at 779 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AH-1 12-29-97 v.c.
(Data must be collected from the Reserve Pit)

Chloride content 3800 ppm Fluid volume 1000 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____ *rec'd 14-25-97*

Operator Name _____

Lease Name _____ License No. _____

____ Quarter Sec. ____ Twp. ____ S Rng. ____ E/W

County _____ Docket No. _____

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 Ned E Lowry

Title President Date 4-24-97

Subscribed and sworn to before me this 24th day of APRIL 19 97

Notary Public Catherine Harper

Date Commission Expires 3-23-99

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)

NOTARY PUBLIC -- State of Kansas
CATHERINE HARPER
My Appt. Exp. 3-23-99

Operator name Lowry Exploration, Inc.

Lease Name Dunne Hoffman Well # 3-18

Sec. 18 Twp. 34S Rge. 37
 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 Name Top Datum Council Grove 3022	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
List All E.Logs Run:				
Micro Log-Gamma Ray				
Comp. Neutron-Litho Density				
Bond Log				

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 MAR 28 08:52 AM '11
 P 12

CASING RECORD <u>New</u> <u>Used</u> Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24#	779'	Prem + Lite Prem	370 160	
Long st.	7 7/8"	5 1/2"	14#	3149	Prem+Lite Prem+	370 160	25# floreal

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose: _ Perforate _ Protect Csg _ Plug Back TD _ Plug Off Zone	Depth Top/Btm	Type of Cement	# Sacks Used	Type and Percent Additives

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	Council Grove 3022-26 3064-76	acidize/1200 gal 7 1/2% FE acid	
		fraced/123000# & 40000 gal	
		20# Delta	

TUBING RECORD	Size Set At Packer At	Liner Run
	2 3/8" 3090 NA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other

Estimated Production Per 24 Hours	Oil Bbls	Gas Mcf 200	Water Bbls. 40BPD	Gas-Oil Ratio	Gravity
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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: Council Grove

Cobra, Inc.

P. O. BOX 712
LIBERAL, KANSAS 67905-0712

Office Phone (405) 778-3403
Phone SCAT (316) 624-6258
Fax (405) 778-3664

GARY ROGERS
316-624-4427
SCAT Unit 9293

LESHIA ROGERS
Office Manager

To Kansas Corp Comm.

Att. Virgil Claphick

Sorry that we missed
sending this, if you
find anything else missing
please advise

RECEIVED

Thank

Neil Lowry

RE: ACO Report Lowry Exploration Inc
Dunne Heffernan 3-18

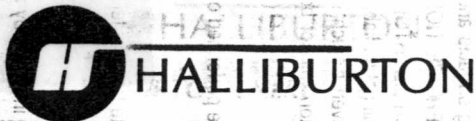
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KANSAS CORP COMM



"SERVICE IS OUR BUSINESS"

PAT BREWER
Consultant



HALLIBURTON ENERGY SERVICES
HAL-1906-P

CHARGE TO: LOWRY EXPLORATION

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

CUSTOMER COPY

TICKET

No. _____

185304 - 9

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. 025540 LIBERAL	3-18	DUNNE-HOFFMAN	STEVENS	KS		1-17-77	SAME
2. 025535 HUGOTON	TICKET TYPE	NITROGEN JOB?	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.
	<input checked="" type="checkbox"/> SERVICE	<input type="checkbox"/> YES	MURFIN DRIS 21			WELL SITE	
3.	<input type="checkbox"/> SALES	<input checked="" type="checkbox"/> NO					
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
	02 GAS	01 Development	015 - 8 7/8 SURFACE		LAND - 18 343 374		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1			MILEAGE	80	mi		RIT	2.99	242.19
000-119		1			CREW MILEAGE	80	mi		RT	1.60	128.00
001-016		1			PUMP CHARGE	779	FT		6 AKS	915.00	915.00
000-018		1			5" W TOP PLUG	1	EA		8 7/8 IN	130.00	130.00
RA	825.217	1			REG Guide SHOE	1	EA		8 5/8 IN	216.00	216.00
24A	815.19502	1			INSERT FLOAT	1	EA		8 7/8 IN	221.00	221.00
27	815.19415	1			FILL UP ASSY	1	EA		8 7/8 IN	64.00	64.00
31	806.61048	1			CENTRALIZER	3	EA		8 5/8 IN	61.00	183.00
350	870.10802	1			Weld A	1	LB		1 EA	16.75	16.75

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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

[Signature]

DATE SIGNED: _____ TIME SIGNED: _____

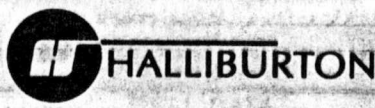
A.M. P.M.

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

SUB SURFACE SAFETY VALVE WAS	<input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY	AGREE	UN-DECIDED	DIS-AGREE
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?			
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
	WELL DEPTH	ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
TREE CONNECTION	TYPE VALVE	<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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	X <u>[Signature]</u>	<u>[Signature]</u>	62570	



CUSTOMER: Lowry Exploration WELL NO.: 3-18 LEASE: DUNN-HOFFMAN JOB TYPE: 8 3/4 SURFACE

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1130							JOB READY
	1100							called out for job
	1145							pump truck on location - B.G. HAS 780' OF 12 1/4 INDC CUI ON BOTTOM CIRCULATING - SET UP PUMP TRUCK TRIP OUT DRILL PIPE
	1245							START RUNNING 8 3/4 ESC J HOAT 1900P CASING ON BOTTOM 777'
	1410							HOOK UP 8 3/4 P/C & CIRCULATING IRON START CIRCULATING WITH RIG PUMP THROUGH CIRCULATING - HOOK UP TO PUMP TRUCK
	1440	6.0	71.0				9150	JOB PROCEEDURE START MIXING LEAD CEMENT AT 11.1 ⁴⁰ / ₁₀₀
	1455	6.0	21				8100	START MIXING TAIL CMT AT 15.2 ⁴⁰ / ₁₀₀
	1500	6.0	118.0					THROUGH MIXING CMT - SHUT DOWN RELEASE PLUG - START DISPLACING 1400 BBLIS OUT - GETTING GOOD CMT RETURNS TO SURFACE
	1515		47.0				250/1800	PLUG DOWN - RELEASE FRONT HOAT HEAD CIRCULATED (30 BBLIS 62 STS)

ORIGINAL

THANK YOU FOR CALLING HALLIBURTON

WOODY + JASON

CUSTOMER

HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION DRILL CONTRACT
 HALLIBURTON LOCATION LIBERT, KS

BILLED ON TICKET NO. 185304

WELL DATA

FIELD _____ SEC. 17 TWP. 24S RNG. 37W COUNTY STURGIS STATE KS

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 780

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>24'</u>	<u>2 7/8</u>	<u>KG</u>	<u>777</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-17-97</u>	DATE <u>1-17-97</u>	DATE <u>1-17-97</u>	DATE <u>1-17-97</u>
TIME <u>0900</u>	TIME <u>1100</u>	TIME <u>1400</u>	TIME <u>1515</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		<u>H</u>
FLOAT SHOE <u>INSERT 2 7/8</u>	<u>1</u>	
GUIDE SHOE <u>REG 2 7/8</u>		<u>O</u>
CENTRALIZERS		
BOTTOM PLUG		<u>W</u>
TOP PLUG <u>5 W 2 7/8</u>	<u>1</u>	
HEAD <u>HC</u>		<u>C</u>
PACKER		
OTHER		<u>O</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Woodrow</u>		
<u>J. Nicholas</u>		
<u>B. McEntyre</u>		

ORIGINAL

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 1/2 SURFACE CASING

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X J. Woodrow

HALLIBURTON OPERATOR J. Woodrow COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>160</u>	<u>PT midcon</u>	<u>SOUTHWEST</u>	<u>A</u>	<u>3/4 C.C. 1/2 FLOCCUL</u>	<u>3.22</u>	<u>11.1</u>
	<u>100</u>	<u>PT</u>	<u>SOUTHWEST</u>	<u>D</u>	<u>2/3 C.C. 1/2 FLOCCUL</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 46.6

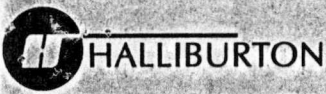
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY BBL.-GAL. 77.6

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 22.576

ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____ REMARKS _____

TREATING _____ DISPL. _____ OVERALL _____ CEMENT LEFT IN PIPE _____

FEET 45 REASON SHOT JOINT



JOB SUMMARY

HALLIBURTON DIVISION

HALLIBURTON LOCATION

Mid Continent

Liberia, KS

BILLED ON TICKET NO. 185304

WELL DATA

FIELD _____ SEC. 17 TWP. 24S RNG. 27W COUNTY STEPHENS STATE KS

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 780

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>241</u>	<u>2 3/8</u>	<u>KG</u>	<u>777</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		<u>H</u>
FLOAT SHOE <u>INSERT</u> <u>5/8</u>	<u>1</u>	
GUIDE SHOE <u>REG</u> <u>5/8</u>		<u>O</u>
CENTRALIZERS		
BOTTOM PLUG		<u>W</u>
TOP PLUG <u>5/8</u> <u>5/8</u>	<u>1</u>	
HEAD <u>DK</u>		<u>C</u>
PACKER		
OTHER		<u>O</u>

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
<u>1/17/97</u>	<u>1/17/97</u>	<u>1/17/97</u>	<u>1/17/97</u>
TIME <u>0800</u>	TIME <u>1100</u>	TIME <u>1440</u>	TIME <u>1315</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Woodrow</u>		
<u>J. Nicholas</u>		
<u>B. McCarty</u>		

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 1/2 SURFACE CASING
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X J. H. Egan
 HALLIBURTON OPERATOR J. Woodrow COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>100</u>	<u>1/2 midcont</u>	<u>SOUTHWEST</u>	<u>B</u>	<u>37 CC, 1/2 floccul.</u>	<u>3.22</u>	<u>11.1</u>
	<u>100</u>	<u>PT</u>	<u>SOUTHWEST</u>	<u>B</u>	<u>27 CC, 1/2 floccul.</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

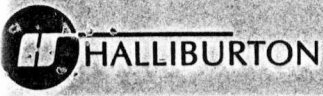
VOLUMES

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 43 REASON SHOE JOINT

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL. GAL. 46.6
 CEMENT SLURRY: BBL.-GAL. 11.9 LG
 TOTAL VOLUME: BBL.-GAL. 22.5 LG
118.3 REMARKS _____

CUSTOMER

CUSTOMER: Mid Continent
 LEASE: Duffin-Hoffman
 WELL NO.: 3-12
 JOB TYPE: 1/2 SURFACE
 DATE: 1-17-97



JOB SUMMARY

HALLIBURTON DIVISION M/D CONTINENT
 HALLIBURTON LOCATION LIBERAL KS.

BILLED ON TICKET NO. 106472

WELL DATA

FIELD _____ SEC. 18 TWP. 34S RNG. 37W COUNTY STEVENS STATE Ks.

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	N	14	5 1/2	KB+	3150	
LINER	CSL	24	8 3/8	6L	779	
TUBING						
OPEN HOLE			7 7/8	779	3150	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-21-97</u> TIME <u>0900</u>	DATE <u>1-21-97</u> TIME <u>1130</u>	DATE <u>1-21-97</u> TIME <u>1620</u>	DATE <u>1-21-97</u> TIME <u>1730</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSERT</u>	<u>1</u>	<u>H</u>
FLOAT SHOE <u>Fillup</u>	<u>1</u>	
GUIDE SHOE <u>REGULAR</u>	<u>1</u>	<u>O</u>
CENTRALIZERS <u>S-4</u>	<u>7</u>	
BOTTOM PLUG		<u>W</u>
TOP PLUG <u>5W</u>	<u>1</u>	
HEAD		<u>C</u>
PACKER <u>Houco WELD "A" 1LB</u>	<u>1</u>	
OTHER		<u>O</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. BRADFOOT</u> <u>D4604</u>	<u>420045</u>	<u>LIBERAL KS.</u>
<u>J. NICHOLAS</u> <u>62098</u>	<u>52947</u> <u>75496</u>	<u>"</u>
<u>D. CARPENTERS</u> <u>H2441</u>	<u>4037</u> <u>6612</u>	<u>HUGOTON KS.</u>
<u>G. DALRYMPLE</u> <u>H4949</u>	<u>50502</u> <u>6611</u>	<u>"</u>

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
 VE 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 5 1/2 LONG STRING
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X Ned E. Pacey
 HALLIBURTON OPERATOR J. Bradfoot COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>370</u>	<u>Prem Plus LT.</u>		<u>B.</u>	<u>1/4" / 710CELE</u>	<u>2.06</u>	<u>12.3</u>
<u>1</u>	<u>160</u>	<u>Prem Plus</u>		<u>B.</u>	<u>1/4" / 710CELE</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 45.17 REASON SHOE JT

SUMMARY

VOLUMES 5 TYPE H20
 PRELUSH: BBL.-GAL. _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 76.2
 CEMENT SLURRY: BBL.-GAL. 136-38
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

M/S AS ON
10 BBL CMT PIT
LOST 27 SKS

CUSTOMER

CUSTOMER LOURIS EXPLORATION
 LEASE ANNUAL WORKOVER
 WELL NO. 3-18
 JOB TYPE 5 1/2 LONG STRING
 DATE 1-21-97