

ORIGINAL

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

Operator: License # 30689

Name: Marathon Oil Company

Address P.O. Box 2690

City/State/Zip Cody, WY 82414-2690

Purchaser: ---

Operator Contact Person: R.P. Meabon

Phone (307) 587-4961

Contractor: Name: Patrick Well Service

License: 7547

Wellsite Geologist: None

Designate Type of Completion

New Well Re-Entry Workover

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

If Workover:

Operator: Marathon Oil Company

Well Name: Otis #7

Comp. Date 8/13/93 Old Total Depth 5300'

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back 5221' PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj) Docket No. E-26, 799

9/20/84 9/27/84 10/7/84 8/13/93
Spud Date Date Reached TD Completion Date

API NO. 15- 071-20336-0001

County Greeley

SE - NW - NE Sec. 12 Twp. 16S Rge. 43 E

990 Feet from X/N (circle one) Line of Section

1550 Feet from EW (circle one) Line of Section

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

Lease Name Otis Well # 7

Field Name Stockholm

Producing Formation Morrow

Elevation: Ground 3897' KB 3907'

Total Depth 5300' PBDT 5221'

Amount of Surface Pipe Set and Cemented at 464 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1776' Feet

If Alternate II completion, cement circulated from 1000

feet depth to Surface w/ total 350 sx cmt.
See Side Two

Drilling Fluid Management Plan REWORK JH 12-8-93
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County Rice Docket No. _____
10-D-93

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 completion, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information furnished on 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.

RECEIVED

OCT 12 1993

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.

CONSERVATION DIVISION
WICHITA, KS

Signature R.P. Meabon

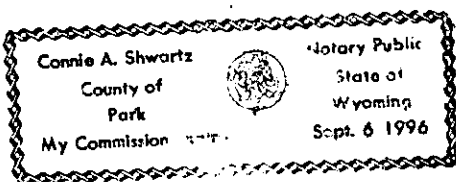
Title Regulatory Coordinator Date Oct. 5, 1993

Subscribed and sworn to before me this 5th day of October, 1993.

Notary Public Connie A. Schwartz

Date Commission Expires 9-6-1996

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received NA
C Geologist Report Received
Distribution 10/12/93 SUD/REP
 KCC NGPA
 KGS Plug Other
(Specify)



P1

Operator Name: Marathon Oil Company Lease Name Otis Well # 7
 Sec. 12 Twp. 16S Rge. 43 East County Greeley
 West

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 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	Name	Top
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stone Corral	2744'	Atoka	4874'
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No) NA	Cottonwood	3374'	Morrow	5040'
List All E.Logs Run:		Neva	3465'	Lower Morrow SD	5140'
		Foraker	3556'	Lower Morrow LM	5172'
		Wabaunsee	3674'	Mississippian	5250'
		Topeka	3898'		
		Lansing	4226'		
		Marmaton	4612'		
		Ft. Scott	4698'		
		Cherokee	4746'		

CASING RECORD <input 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	12-1/4"	8-5/8"	24#	464'	Neat-Lite	225	3% CaCl ₂
Production	7-7/8"	4-1/2"	10.5#	5300'	50-50-Poz	200	5% Salt

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	1000'-1776'	Light	150	No add.
<input type="checkbox"/> Plug Back TD			110	No add.
<input type="checkbox"/> Plug Off Zone	Sur.-1000'	Light	70	3% CaCl ₂

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
	Sqz. holes @ 1000', RBP @ 5110', Pkr. @ 835'	See above	
	Additional cement at right	Spot 20 sx. plug	1022'
4	Reperforated 5140'-5173'		

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"		5108'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or <u>Inj.</u>	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Pending Approval				
Estimated Production Per 24 Hours	Oil <u>N/A</u> Bbls.	Gas <u>N/A</u> Mcf	Water <u>N/A</u> 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 _____

4-OCT-93
13:01:11

MARATHON OIL COMPANY
HISTORY OF OIL OR GAS WELL
FROM:30-MAR-93 TO:03-OCT-93 FIELD:STOCKHOLM
WELL:OTIS #7

PAGE 1

15-071-20336-0088⁰¹

AFE 0
FLUID SHOT

30-MAR-93 RU CABLE INC. SHOT FLUID LEVEL. 4625 FTF. MAY BE
REFLECTING OFF SOMETHING UPHOLE. FLUID LEVEL APPEARS HIGH.

OPR PROP:STOCKHOLM UNIT

AFE 381093
CONVERSION

21-MAY-93 MI RU PATRICK WELL SERVICE. POOH AND LAY DOWN RODS.
RELEASED TBG ANCHOR AND STARTED OUT OF HOLE W/ TBG. SDFD.

22-MAY-93 FINISH POOH W/ TBG. RU RIH W/ 3 7/8 BIT AND SCRAPER.
FOUND PBDT AT 5221. POOH W/ BIT AND SCRAPER. RU AND
STARTED IN HOLE W/ RBP AND PACKER. SHUT DOWN DUE TO
LIGHTNING.

24-MAY-93 RIH AND SET RBP AT 5110. PRESSURE TEST CSG TO 800# AND IT
HELD. RIH AND LATCHED ONTO RBP. TBG. CAME UNSCREWED.
POOH W/ TBG. AND LAYED DOWN BTM JT. RU RIH W/ TBG AND
SCREWED INTO FISH. STARTED POOH AND LAYING DOWN TBG. SDFD

25-MAY-93 FINISH LAYING DOWN TBG. RIG DOWN.

07-AUG-93 MI RU PATRICK WELL SERVICE. RU RIH W/ RBP AND PKR. SET
RBP AT 5110 AND PKR AT 5078. PRESSURE TEST RBP TO 800# AND
IT HELD. RELEASED PKR AND SPOTTED 2 SXS OF SAND ON RBP.
POOH W/ PKR AND SDFD.

09-AUG-93 PU PENGU SHIFTING TOOL AND RIH AND LATCH INTO SLEEVE.
OPEN AND SHUT SLEEVE AND PRESSURE TEST TO 800# AND IT HELD.
OPEN SLEEVE AND RU HALCO. UNABLE TO BREAK CIRCULATION.
SET INJECTION RATE AT 3 BPM AT 300#. RU AND PUMP 150 SXS
OF HALCO LIGHT. SHUT SLEEVE AND REVERSE OUT W/ 15 BBL
WATER. POOH W/ TBG AND RU MERCURY WIRELINE. SHOT SQUEEZE
HOLES AT 1000 FT. RU HALCO AND BREAK CIRCULATION W/ 20 BBL
WATER. RU AND RIH W/ PKR AND SET AT 835. RU AND PUMP 110
SXS OF HALCO LIGHT AND 70 SXS OF HALCO LIGHT W/ 3% CC.
CIRCULATED CEMENT TO SURFACE. SHUT WELL IN AND SDFD.

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CONSERVATION DIVISION
WICHITA, KS

4-OCT-93
13:01:11

MARATHON OIL COMPANY
HISTORY OF OIL OR GAS WELL
FROM:30-MAR-93 TO:03-OCT-93 FIELD:STOCKHOLM
WELL:OTIS #7

PAGE 2

10-AUG-93 RU RIH W/ 3 7/8 BIT AND SCRAPER. TAG CEMENT AT 908 AND
DRILLED TO 1000 FT. PRESSURE TEST CSG TO 800# AND IT
LEAKED OFF TO 300# IN 2 MIN. SDFD.

11-AUG-93 RIH W TBG AND SET A 20 SX BALANCED PLUG OF CLASS A NEAT
CEMENT AT 1022. POOH W/ TBG TO 900 FT. AND REVERSED OUT
EXCESS CEMENT. PRESSURED TO 800# SEVERAL TIMES OVER 30
MIN. BEFORE CEMENT SQUEEZED. SI. AND SDFD.

12-AUG-93 POOH W/ TBG. RU RIH W/ 3 7/8 DRILL BIT AND TAG CEMENT AT
815. DRILLED OUT TO 1022. PRESSURE TESTED TO 800# FOR 15
MIN AND IT HELD. POOH LD BIT. RU RIH W/ RBP CATCHER AND
CIRCULATED SAND OFF RBP. STARTED SWABBING WELL DOWN. SDFD

13-AUG-93 FINISH SWABBING WELL DOWN. RU MERCURY WIRELINE AND PERF.
WELL. (SEE TEMPLATE)
RU RIH W/ 1 - PENO PR-3 PKR - 7.10
1 - S.S.N. - 1.10
164 - JTS. 2 3/8 TBG - 5093.24
SET PKR AT 5108. LOAD CSG W/ ANHIB AND PRESSURE TO 800#.
AFTER 15 MIN WELL HAD 790# ON CSG. SI & RD

PERF DATA

VENDOR MERCURY GUN SIZE 3 3/8 CHG SIZE(GM) 16.0
CHG TYPE JRC CORRELATION LOG USED 10-2-84

SEQ: 1 FORM:MORROW SUB: TOP DEP: 5140
BOT DEP: 5173 DEN SPF: 4 PHAS DEG: 90 TOT SHOTS: 132

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OCT 12 1993

CONSERVATION DIVISION
WICHITA, KS

MARATHON OIL COMPANY

ORIGINAL

WELL NAME Stockholm Otis #7
 LOCATION 990' FNL, 1550' FEL SECTION 12 T 16S R 43W
 COUNTY Greeley STATE Kansas

SURFACE CASING

Hole Size: 12-1/4"
 Casing: 8-5/8", 24#, K-55
 Casing Set @: 464'
 Cemented with 225 sxs.

GLE 3,897'
 KBE 3,907'

FORMATION TOPS

Stone Corral	2,744'
Neva	3,474'
Foraker	3,556'
Wabaunsee	3,674'
Topeka	3,898'
Lansing	4,226'
Marmaton	4,612'
Ft. Scott	4,698'
Cherokee	4,746'
Atoka	4,874'
Morrow	5,040'
Mississippian	5,250'

WELL HISTORY

Spud Date: 9/20/84
 Original Owner: _____
 IP: 1/21/85
 BOPD: 31 BWPD: 92
 MCFD: _____ GOR: _____
 Completion Treatment:
Acidize w/3000 gals of
MSR-150. Frac with 25,680
gals of 3% gelled acid and
20,300# of 20/40 sand.

CEMENT TOP

CURRENT DATA

Pumping Unit: _____
 Tubing: _____
 Pump Size: _____
 Rod String: _____
 Remarks:
8/93 Cement squeezed
casing to isolate Dakota
Report'd Morrow 5140'-73'
Ran injection equipment.

PERFORATIONS

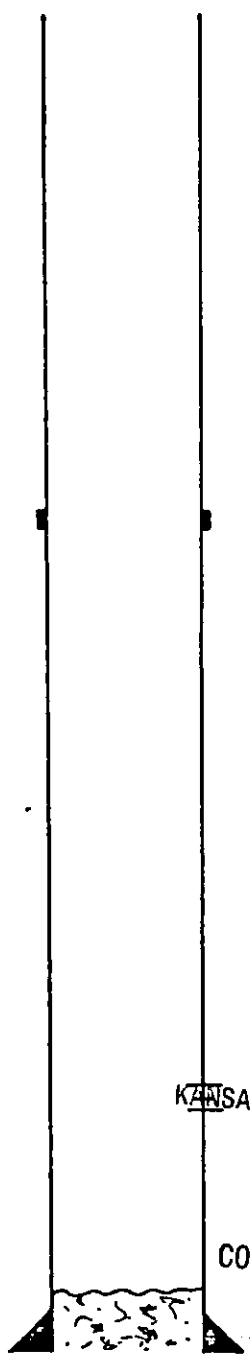
Morrow: 5,140'-5,173' (2 SPF)
addition 5140'-5173' w/4 SPF

PBTD 5221'

PRODUCTION CASING

Hole Size: 7-7/8"
 Casing: 4-1/2", 10.5#, K-55
 Casing Set @: 5,300'
 Cemented with 200 sxs.

Cementing sleeve at 1,776'.



5,300' T.D.

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OCT 12 1993

CONSERVATION DIVISION
 WICHITA, KS



JOB SUMMARY

DIVISION Lamar
 HALLIBURTON LOCATION Lamar

13 071-20336-0001
 BILLED ON TICKET NO. 507922

WELL DATA

FIELD _____ SEC 12 TWP. 16 RING. 43 COUNTY Greeley 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			<u>4 1/2</u>	<u>KB</u>	<u>FD</u>	
LINER						
TUBING	<u>4</u>		<u>2 3/8</u>	<u>KB</u>	<u>12%</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

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

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-9</u>	DATE <u>8-9</u>	DATE <u>8-9</u>	DATE <u>8-9</u>
TIME <u>2:40</u>	TIME <u>08:30</u>	TIME <u>29:14</u>	TIME <u>13:10</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>K. C. JOHNSON</u>	<u>37459</u>	<u>Lamar</u>
<u>Palmer</u>	<u>2592</u>	<u>11</u>
<u>M. J. + J. J.</u>	<u>4149</u>	<u>11</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. _____ IN
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT CMT
 DESCRIPTION OF JOB 59
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X. C. JOHNSON
 HALLIBURTON OPERATOR Don King COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	MARSHALL CORPORATION COMMISSION ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>150</u>	<u>HLC</u>		<u>B</u>		<u>1.54</u>	<u>13-6</u>
<u>2</u>	<u>150</u>	<u>11</u>		<u>11</u>		<u>11</u>	<u>11</u>
<u>3</u>	<u>150</u>	<u>11</u>		<u>11</u>	<u>370-CC</u>	<u>11</u>	<u>11</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. _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. _____
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

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KANSAS CORPORATION COMMISSION

RAMARKS
OCT 12 1993

CONSERVATION DIVISION
WICHITA, KS

CUSTOMER
 DATE
 LEASE
 WELL NO.
 JOB TYPE
 DATE

JOB LOG FORM 2013 R-3

CUSTOMER Mutathon WELL NO. 7 LEASE otis JOB TYPE 59 TICKET NO. 507972

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0400							called out
	0830							Rea on loc
	0830							on loc
	0900							2592 IDU Safety meet
	0911	3	32					ld tub
	0920					500		press test
	0945							open tool
	1006	3				300		5+ CMT
	1020	3	41			500		fin CMT
		2						5+ Disp
	1023	2	6					fin Disp
	1030							Reverse out
	1039	3	24			200		fin Reverse
	1043					800		800 Press test
								2nd Job
								Netfence
	11:30	6						300 take IAJ test
	12:15	3						300 5+ CMT
	12:27	3	119					300 fin CMT
	12:27							250 5+ Disp
	12:32	1	113 1/4					250 fin Disp

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OCT 12 1993

CONSERVATION DIVISION
WICHITA, KS



JOB SUMMARY

DIVISION 44
HALLIBURTON LOCATION LAMAR

BILLED ON TICKET NO. 507974

WELL DATA

FIELD _____ SEC. 12 TWP. 16 RING. 13 COUNTY 9 GEELEY 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	<u>4</u>		<u>4 1/2</u>	<u>FD</u>	<u>FD</u>	
LINER						
TUBING	<u>4</u>		<u>2 3/8</u>	<u>FD</u>	<u>1022</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

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

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-11</u>	DATE <u>8-11</u>	DATE <u>8-11</u>	DATE <u>8-11</u>
TIME <u>0500</u>	TIME <u>0900</u>	TIME <u>0900</u>	TIME <u>1100</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>K. C. Sel</u>	<u>37459</u>	<u>Lamar</u>
<u>Miller</u>	<u>3581</u>	<u>11</u>
<u>Van Buren</u>	<u>1149</u>	<u>11</u>

MATERIALS

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

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

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

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

GELLING AGENT TYPE _____ GAL. LB. _____ IN

BREAKER TYPE _____ GAL. LB. _____ IN

PERFPAC BALLS TYPE _____ QTY. _____

DEPARTMENT CAIT

DESCRIPTION OF JOB 59

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	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>15</u>	<u>ST-1</u>		<u>B 370 CC</u>	<u>1.18</u>	<u>15-6</u>

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OCT 12 1993
CONSERVATION DIVISION
WICHITA, KS

PRESSURES IN PSI

SUMMARY

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

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

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

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

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL.-GAL. _____

TREATING _____ DISPL. _____ OVERALL _____

FEET _____ REASON _____

RAMARKS

CUSTOMER DATA

LEASE 0715

WELL NO. 7

JOB TYPE 59

DATE 8-11

JOB LOG FORM 2013 R-3

ORIGINAL

DATE 8-11 PAGE NO.

CUSTOMER *Mudwater* WELL NO. *7* LEASE *otis* JOB TYPE *59* TICKET NO. *507924*

CHART NO.	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
			T	C	TUBING	CASING	
<i>0500</i>							<i>called out</i>
<i>0900</i>							<i>NOA on loc</i>
<i>0900</i>							<i>on log</i>
							<i>3581 114</i>
<i>0930</i>							<i>Safely meet</i>
<i>0925</i>	<i>3</i>	<i>10</i>			<i>0 0</i>	<i>0 0</i>	<i>old hole</i>
<i>0925</i>					<i>0 0</i>	<i>0 0</i>	<i>ST unit</i>
<i>0932</i>	<i>2</i>	<i>3 BBL</i>			<i>0 0</i>	<i>0 0</i>	<i>fill unit</i>
<i>0932</i>	<i>2</i>				<i>0 0</i>	<i>0 0</i>	<i>spot unit</i>
<i>0934</i>	<i>2</i>	<i>3</i>			<i>0 0</i>	<i>0 0</i>	<i>fill spot</i>
<i>0934</i>	<i>3</i>	<i>10</i>					<i>wash pumps lines</i>
							<i>pull TUB 5 JTS</i>
<i>0942</i>	<i>3</i>				<i>300 300</i>	<i>300 300</i>	<i>Reverse out</i>
<i>0945</i>	<i>3</i>	<i>11</i>			<i>300 300</i>	<i>300 300</i>	<i>fill Reverse</i>
<i>0946</i>							<i>Close B.S.</i>
<i>0946</i>	<i>1/2</i>				<i>0</i>	<i>0</i>	<i>5x disc</i>
<i>0951</i>	<i>1/4</i>	<i>1/4</i>			<i>800</i>	<i>800</i>	<i>fill disc</i>
							<i>Close IA</i>

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