

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

ORIGINAL

API NO. 15- 189-21,510-0000 FEB : 3  
County Stevens  
SW SE Sec. 13 Twp. 31S Rge. 35 X W

CONFIDENTIAL

Operator: License # 5208  
Name: Mobil Oil Corporation  
Address 2319 North Kansas  
City/State/Zip Liberal, KS 67901  
Purchaser: Spot Market  
Operator Contact Person: Rae Kelly  
Phone ( 316 ) 626-1160  
Contractor: Name: Unit Drilling & Exploration Co  
License: 9137  
Wellsite Geologist: H. Y. Wong

660 Feet from (S)N (circle one) Line of Section  
1980 Feet from (E)W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)  
Lease Name Davis Well # 1-13  
Field Name Lahey  
Producing Formation Chester  
Elevation: Ground 2922 KB 2939  
Total Depth 5852 PBD 5655  
Amount of Surface Pipe Set and Cemented at 1755 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 cnt.

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp.  Cathodic (etc)  
 Gas  ENHR  SIGW  
 Dry  Other (Core, MSW, etc)

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WICHITA, KS

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 \_\_\_\_\_ PBD \_\_\_\_\_  
Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
Spud Date 10/15/91 Date Reached TD 10/22/91 Completion Date 11/14/91

Drilling Fluid Management Plan DATA  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Desalting method used Evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
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 R. Kelly  
Title Engineering Technician Date 2-13-92  
Subscribed and sworn to before me this 13<sup>th</sup> day of February, 19 92.  
Notary Public Sharon A. Cook  
Date Commission Expires 10-1-94



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

Operator Name Mobil Oil Corporation Lease Name Davis Well # 1-13

Sec. 13 Twp. 31S Rge. 35  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 Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	B/Stone Corral	1764	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Chase/Herington	2534	
List All E.Logs Run:		Council Grove	2854	
Dual Induction Log		Admire	3080	
Compensated Neutron Log		Wabaunsee	3240	
Microlog		Heebner	3998	
B.H.C. Sonic Log		Lansing	4102	
		Kansas City	4452	
		Marmaton	4792	
		Cherokee	4976	
		Atoka	5244	
		Morrow	5320	
		Chester	5488	
		St. Genevieve	5584	
		St. Louis	5670	

**CASING RECORD**  New  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 Csg.	12.250	8.625	24	1755	CL C Lite	500	65:35:6+3%CC
					CL C	325	+3%CC
Producing Csg.	7.875	5.500	15.50	5858	CL H	430	50:50:2
					CL H	660	50:50:2+2%CC

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
4 SPF	5562-5572	Acidized w/1000 gal 15% KCL	5562-5572
MODEL C RETRIEVAL	BRIDGE PLUG SET AT 5655'	Frac'd w/14070 gal fluid and 28860 lbs sand.	
4 SPF	*5674-5682 (St. Louis)	Acid Frac w/2000 gal 28% HCL	5674-5682
*Not being Produced.		4000 gal gelled H2O, 6000 gal 70:30 SXE, flushed w/1410 gal Diesel	

**TUBING RECORD**

Size 2 7/8" Set At 5437 Packer At None Liner Run  Yes  No

Date of First, Resumed Production, SVD or Inj. 11/14/91 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	112	0	12	NA	40

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

**METHOD OF COMPLETION**  
 Open Hole  Perf.  Dually Comp.  Commingled

Production Interval 5562-5572

\*\*\*\*\* ORIGINAL \*\*\*\*\*

MSD960

\*\*\* PRISM \*\*\*  
FLUID TREATMENT REPORT

Page 1

KCC

FEB 13

CONFIDENTIAL

Lease: DAVIS 1-13 AFT CSG POINT Well #: 1-13 Well ID: 0026262  
Field: DAVIS State: KS County: STEVENS  
API #: 15-189- -00 Ppty ID: 0027901 OCS #:  
AFE Number: 18YK AFE Amount: 211 Mobil GWI: . %  
Budget Category: 12 Engineer: J HILL

Job Date: 01/20/1992 Starting Time: 01:00 Job Type: CMP  
Depth: Hole Angle: Water Depth:  
TV Depth: PBDT: 5,635'

Treatment Type: FLUID STIMULATION  
If treatment is a stimulation, type of job: HYDRAULIC FRAC  
Treating Material: DIESEL

Service Company: DOWELL Rating: 9

Gross Treated Interval Top: 5,562'  
Gross Treated Interval Bottom: 5,572'

Job Remarks:  
WENT TO FLUSH JUST AFTER HITTING 6# SAND. JOB WENT WELL.

=====PUMPING INFORMATION=====

Total Volume: 14070 gal Average Tubing Pressure: 2320 psi  
Average Pump Rate: 12.00 bpm Maximum Tubing Pressure: 3600 psi  
Maximum Pump Rate: 15.00 bpm Average Casing Pressure: psi  
Maximum Casing Pressure: psi

Shut-in Presures  
0 MINUTE - 1080 psi  
5 MINUTE - 910 psi  
10 MINUTE - 842 psi  
15 MINUTE - 774 psi

=====STAGE INFORMATION=====

Stage NO.	Volume (Gals)	Sand Conc. (ppg)	Base Fluid	Top (Ft)	Bottom (Ft)
1	14070	6.00	DIESEL	5562	5572

\*\*\*\*\*  
Stage No. 01  
\*\*\*\*\*

===== Additives =====  
BREAKER J603 3PPT  
GELLING AGENT J452 8GPT  
XLINK/ACTIVATOR J601/J602L 8GPT

===== Proppant =====  
Type: SAND Brand: OTTOWA Mesh Size: 20/40  
Amount this stage: 28,860 lbs.

===== Stage Remarks =====  
1ST STAGE ENTERED AS THE COMPLETE JOB.

Report Generated on: 02/07/92 @ 15:08 End of Report.....

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Lease: DAVIS 1-13 AFT CSG POINT Well #: 1-13 Well ID: 0026262  
Field: UNKNOWN State: KS County: STEVENS  
API #: 15-189- -00 Ppty ID: 0027901 OCSG #:

=====  
Cementing Job Information  
=====

Date: 10/16/1991 Starting Time: 08:30 Ending Time: 10:30

Cementing Company: HALLIBURTON District: LIBERAL, KS

Cementing Company Rating (1 to 10, 10 = Best): 8

Was top plug dropped? Y  
Was bottom plug dropped? Y  
Did plug bump? Y  
Was there full circulation while pumping? Y  
Amount of cement returns to surface: 2 Bbls  
Did floats hold? Y  
Flow regime: LAMINAR

Was the pipe reciprocated before cementing? Y  
Was the pipe reciprocated during cementing? Y  
Was the pipe rotated before cementing? N  
Was the pipe rotated during cementing? N  
If pipe was rotated, Type of rotation equipment:  
Torque on rotated pipe: ft/lbs  
Rotation Speed: RPM

Job Remarks:

=====  
Stage Information  
=====

Stage No.: 1

Casing O.D.: 8.625 In.  
Hole Size: 12.250 In.  
Estimated Top of Cement for this stage: 0 Ft.  
Estimated Bottom of Cement for this stage: 1755 Ft.  
Time to mix and pump this stage: 1:45 (Hr:Min)  
Average Pump Rate: 6.0 BPM  
Maximum Pump Pressure: 510 PSIG  
Foam Cement? N

Lead Composition: "C" LITE 65:35:6 (65% CMT) + 3% CC  
Tail Composition: "C" + 3% CC

	Lead	Tail
	----	----
No. of Sacks	500	325
Slurry Yields (CuFt/Sk)	1.99	1.33
Slurry Density (Ppg)	12.4	14.8
Slurry Volume (Bbl)	177.0	77.0
Mix Water Amount (Gal/SK)	10.97	6.32
Mix Water Type	FW	FW
Thickening Time (Hr:Min)	4:30	
12-Hr Compressive Strength (PSI)		
24-Hr Compressive Strength (PSI)		
Compressive Strength Test Temperature (F)	80	
Fluid Loss (cc)	800	800
Free Water (cc)	1.0	0.5

=====  
Flush Information  
=====

Density (PPG)	Volume (Bbls)	Description
-----	-----	-----
		Preflush
		Flush
		Postflush
8.3	107.0	FRESH WATER
Displacement		
Displacement Rate: 2.2 BPM		

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MSD991 Primary Cementing Report Page 2

Lease: DAVIS 1-13 APT CSG POINT Well #: 1-13 Well ID: 0026262

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Stage Remarks:

=====  
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\*\*\* PRISM \*\*\*  
Primary Cementing Report

Well ID: 0026262  
County: STEVENS  
OCSG #:

Lease: DAVIS 1-13 AFT CSG POINT Well #: 1-13  
Field: UNKNOWN State: KS  
API #: 15-189- -00 Ppty ID: 0027901

=====  
Cementing Job Information  
=====

Date: 10/23/1991 Starting Time: 11:42 Ending Time: 15:29

Cementing Company: WESTERN District: PERRYTON, TX.

Cementing Company Rating (1 to 10, 10 = Best): 8

Was top plug dropped? Y  
Was bottom plug dropped? N  
Did plug bump? Y  
Was there full circulation while pumping? Y  
Amount of cement returns to surface: 1 Bbls  
Did floats hold? Y  
Flow regime: Laminar

Was the pipe reciprocated before cementing? Y  
Was the pipe reciprocated during cementing? Y  
Was the pipe rotated before cementing? N  
Was the pipe rotated during cementing? N  
If pipe was rotated, Type of rotation equipment:  
Torque on rotated pipe: ft/lbs  
Rotation Speed: RPM

Job Remarks:

=====  
Stage Information  
=====

Stage No.: 1

Casing O.D.: 5.500 In.  
Hole Size: ~~11.000~~ In. 7.875  
Estimated Top of Cement for this stage: 4600 Ft.  
Estimated Bottom of Cement for this stage: 5858 Ft.  
Time to mix and pump this stage: (Hr:Min)  
Average Pump Rate: 5.0 BPM  
Maximum Pump Pressure: 400 PSIG  
Foam Cement?

Lead Composition: H POZ 50/50/2  
Tail Composition: H POZ 50/50/2 + 2% CACL

	Lead	Tail
	----	----
No. of Sacks	430	660
Slurry Yields (CuFt/Sk)	1.26	1.26
Slurry Density (Ppg)	14.2	14.2
Slurry Volume (Bbl)	96.7	148.5
Mix Water Amount (Gal/SK)	5.90	5.90
Mix Water Type	FRESH	FRESH
Thickening Time (Hr:Min)		
12-Hr Compressive Strength (PSI)		
24-Hr Compressive Strength (PSI)		
Compressive Strength Test Temperature (F)		
Fluid Loss (cc)		
Free Water (cc)		

=====  
Flush Information  
=====

	Density	Volume	Description
	(PPG)	(Bbls)	-----
Preflush			
Flush	8.3	60.0	FRESH WATER
Postflush	8.3	7.3	FRESH WATER
Displacement	9.0	78.0	MUD

Displacement Rate: 5.0 BPM

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MSD991

Primary Cementing Report

Page 2

ORIGINAL

KCC

Lease: DAVIS 1-13 AFT CSG POINT Well #: 1-13

Well ID: 0026262

FEB 13

CONFIDENTIAL

Stage Remarks:

Stage No.: 2

Casing O.D.: 5.500 In.  
Hole Size: 11.000 In.  
Estimated Top of Cement for this stage: 1500 Ft.  
Estimated Bottom of Cement for this stage: 3100 Ft.  
Time to mix and pump this stage: (Hr:Min)  
Average Pump Rate: 5.0 BPM  
Maximum Pump Pressure: 500 PSIG  
Foam Cement?

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Lead Composition:  
Tail Composition:

Lead  
----  
Tail  
----

No. of Sacks  
Slurry Yields (CuFt/Sk)  
Slurry Density (Ppg)  
Slurry Volume (Bbl)  
Mix Water Amount (Gal/SK)  
Mix Water Type  
Thickening Time (Hr:Min)  
12-Hr Compressive Strength (PSI)  
24-Hr Compressive Strength (PSI)  
Compressive Strength Test Temperature (F)  
Fluid Loss (cc)  
Free Water (cc)

=====  
Flush Information  
=====

Density Volume Description  
(PPG) (Bbls)  
-----

Preflush  
Flush  
Postflush  
Displacement

Displacement Rate: 5.0 BPM

Stage Remarks:

=====  
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FIELD \_\_\_\_\_ SEC. 15 TWP. 31 RNG. 35 COUNTY \_\_\_\_\_ STATE \_\_\_\_\_

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		2.4	8.75	KR	17.3	
LINER						
TUBING						
OPEN HOLE			1 1/2	C.L.	17.3	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>3 1/2</u>	<u>1</u>	<u>Halsco</u>
FLOAT SHOE <u>F. 1</u>	<u>1</u>	
GUIDE SHOE		
CENTRALIZERS	<u>1</u>	
BOTTOM PLUG	<u>1</u>	
TOP PLUG	<u>1</u>	
HEAD	<u>1</u>	
PACKER		
OTHER	<u>1 1/2</u>	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-16</u>	DATE <u>10-16</u>	DATE <u>10-16</u>	DATE <u>10-16</u>
TIME <u>0430</u>	TIME <u>0111</u>	TIME <u>1128</u>	TIME <u>1010</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>Dunn</u>	<u>2015</u>	<u>Location</u>
<u>S. Williams</u>	<u>3221</u>	<u>"</u>
<u>I. Williams</u>	<u>C 715</u>	<u>"</u>
<u>D. Williams</u>	<u>55.21</u>	<u>Houston</u>
	<u>134377</u>	
	<u>139730</u>	<u>"</u>
	<u>4037</u>	<u>"</u>

**MATERIALS**

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL API

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 \_\_\_\_\_

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DEPARTMENT \_\_\_\_\_

DESCRIPTION OF JOB \_\_\_\_\_

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X \_\_\_\_\_

HALLIBURTON OPERATOR \_\_\_\_\_ COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS/GAL.
	<u>500</u>	<u>Port. H.</u>	<u>LEWIS</u>	<u>3911</u>		<u>199</u>	<u>12.4</u>
	<u>33</u>	<u>Port. H.</u>		<u>360</u>		<u>37</u>	<u>14.9</u>

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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 \_\_\_\_\_

5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL-GAL \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ TOTAL VOLUME: BBL-GAL \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

FEET \_\_\_\_\_ REASON: \_\_\_\_\_

**REMARKS**

CUSTOMER: \_\_\_\_\_ LEASE: \_\_\_\_\_ WELL NO: \_\_\_\_\_ JOB TYPE: \_\_\_\_\_ DATE: \_\_\_\_\_



JOB LOG

WELL NO. 1-13

LEASE

Davis

TICKET NO. 186623

COMP. Mobil Oil Corp

PAGE NO. 1

JOB TYPE 5 1/2" SURFACE

DATE

10-11-91

FORM 2013 R-2

ORIGINAL

KCC

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0420							Time called
	NEW							Time Ready
	0610							Time on job
								RELEASED
								2 9 1993
								FROM CONFIDENTIAL
	0800							Start Pump casing
	0801							Casing in hole
	0817							Hook up to Circulator casing
	0818							Circulate casing w/ pump
	0823							Circulate Mud to Ground level
	0828							Hook up to Pump Tank
	0850							Drip Bottom Plug & Pump water Bed
	0926	5	2				100	Lower Tank Plug Final water Bed of Cement
	0940	6	14				175	Start Mixing Cement
	0942	6	177.2				175	Start Mixing Cement
	0936	1	76.4				175	Final Mixing Cement
	0931		253.6				175	Shut Down
	0931	6					100	Start Displacement
	1010	3.1	107.43				510/100	Plug Down
								Final Water
								Circulate Cement to Ground level
								0921 Start Disp 6 BPM w 55
								0949 Slow Disp 4 BPM 75
								0953 Slow Disp 1 BPM 9.5
								1010 Plug Pump
								Thank For Calling Halliburton Services

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**ORIGINAL**  
**THE WESTERN COMPANY**  
**CEMENT JOB DETAIL SHEET**

**KCC**  
**FEB 13**

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CUSTOMER		DATE	FR #	SER SUP	TYPE JOB								
LEASE & WELL NAME-OCSSG			LOCATION	COUNTY-PARISH-BLOCK									
DISTRICT	DRILLING CONTRACTOR RIG #			OPERATOR									
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS	LIST-CSG-HARDWARE		SQ MANI FOLD	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES							
	TOP BTM	Guide Shoe / DV Tool / Flocc. Collar / Port		Y N		SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER		
						14.2	1.26	5.9		96.7	60.4		
						14.2	1.26	5.9		143.5	92.7		
Available Mix Water 500 Bbl.			Available Displ. Fluid 500 Bbl.			TOTAL				245.2	153.1		
HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
7 7/8		5858	5 1/2	15.5	K55	5858					5858	5816	3100
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID			
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
									5 1/2	3rd	Med	4.5	
CAL. DISPL. VOL.-Bbl.			CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE	
TBG.	% CSG.	CSG-D.P. TOTAL	BUMP PLUG	TO REV	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.		
		138	13.2	13.2	400					1 1/2" / 11.0	1 1/2" / 9.5	Vic	

EXPLANATION TROUBLE SETTING TOOL RUNNING CSG. ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 7000 PSI	
11:10						CIRCULATING WELL-RIG <input checked="" type="checkbox"/> WPS <input type="checkbox"/>	
11:12	300		5	10	H <sub>2</sub> O	Start H <sub>2</sub> O Ahead	
11:44	250		5	36.7	cement	Mix & Pump 1st Stage Cement @ 14.2	
12:05	Vec.		-	-		Start 2nd Stage - Wash Down	
12:08						Down Slur.	
12:14	0-1100		5	60	H <sub>2</sub> O	Start 3rd Stage Cement	
12:27	1100		5	78	Med	Continue Displacement. Cement	
12:45	1100-900		2			Bump Plug	
12:46	900-0					Check float - OK	
12:48						Down Rammer	
13:20	1000-0					Order DV Tool	
13:25						Rig Pic. Hook	
14:36	700		5	10	H <sub>2</sub> O	Start H <sub>2</sub> O Ahead	
14:39	250		6	149	cement	Mix & Pump 2nd Stage Cement @ 14.2	
15:10	1100					Shut down pump - Wash down	
15:13	0-500		5		H <sub>2</sub> O	Start Displacement	
15:28	500-2000		3			Bump Plug - OK	
15:29	2000-0					Check Tool - OK	

**RELEASED**  
 FEB 14 1992  
 FROM CONFIDENTIAL  
 CONSERVATION DIVISION  
 WICHITA, KS

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. James Leaves
(N) N	1 1/2" / 500	Y N	11 1/2" / 7				CUSTOMER REP. Cliff Roberts