

FORM MUST BE TYPED

SIDE ONE

00 ORIGINAL

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

API NO. 15- 137-20389  
County Norton  
Approx. S/2 SW - NW Sec. 24 Twp. 4S Rge. 22 X E

Operator: License # 5030  
Name: Vess Oil Corporation  
Address 8100 E. 22nd St. N, BD 300  
City/State/Zip Wichita, KS 67226

2970 Feet from (S) Line of Section  
4650 Feet from (E) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, (SE) NW or SW (circle one)

Purchaser: \_\_\_\_\_  
Operator Contact Person: W. R. Horigan  
Phone (316) 682-1537

Lease Name Greving Well # 1-24  
Field Name wildcat

Contractor: Name: Murfin Drilling Co., Inc.  
License: 30606  
Wellsite Geologist: Kim B. Shoemaker

Producing Formation \_\_\_\_\_  
Elevation: Ground 2160' KB 2165'  
Total Depth 3700' PBDT 3650'

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  S10W  Temp. Abd.  
 Gas  ENHR  S1GW  
 Dry  Other (Core, WSV, Expl., Cathodic, etc)

Amount of Surface Pipe Set and Cemented at 213 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 cat.

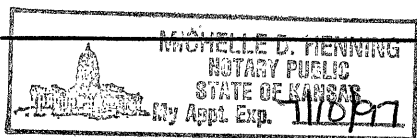
If Workover/Re-Entry: old well info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
\_\_\_\_\_ Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD  
\_\_\_\_\_ Plug Back \_\_\_\_\_ PBDT  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
06-22-93 06-29-93 10-13-93  
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan D&A 97 12-16-93  
(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 \_\_\_\_\_ 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 W.R. Horigan  
Title Operations Manager Date 10/22/93  
Subscribed and sworn to before me this 22nd day of October  
19 93  
Notary Public Michelle D. Henning  
Date Commission Expires \_\_\_\_\_



Stamp: RECEIVED OCT 23 1993 STATE CORPORATION COMMISSION

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

SIDE TWO

Operator Name Vess Oil Corporation Lease Name Greving Well # 1-24  
 East County Norton  
 Sec. 24 Twp. 4S Rge. 22  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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input 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			
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E.Logs Run:				
Dual Induction Neutron/Density				

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"		213'	60/40	140	2%Gel 3%CC
production	7-7/8"	4 1/2"		3699'	60/40 standard	150 25	2%Gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	3608'-14' and 3618'-21'	500 gal. 15% MCA	3608-21

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First, Resumed Production, SVD or Inj.		Producing Method		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Non-Commercial								
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water 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) \_\_\_\_\_

KCC Production Interval <sup>94</sup> will be plugged

ORIGINAL

ATTACHMENT SHEET TO ACO-1

Greiving #1-24  
LOC: S/2 SW NW  
Sec. 24-4S-22W  
Norton County, KS  
API # 15-137-20389

**DST #1** 3328-3450 ZN LKC  
Times: 30-45-45-60  
Blow: BOB-18"-1st/BOB-36"-2nd  
Rec.: 67'M  
543' salt water  
IFP: 136-206 FFP: 290-342  
ISIP: 1270 FSIP: 1261  
HP: 1722-1711 Temp 112 degree

**DST #2** 3457-3560 ZN LKC  
Times: 30-45-45-60  
Blow: 1/2"-1st/  
surface blow-died 4"  
Rec: 25'SOCM (1% oil, 99% mud)  
IFP: 140-140 FFP: 140-plugged  
ISIP: 1047 FSIP: 1091  
HP: 1799-1751 Temp 114 degree

**DST #3** 3552-3608 ZN Arb.  
Times: 30-45-45-60  
Blow: 2" Blow/1-1/2" Blow  
Rec: 15' Oil (24 degree)  
15' OCMW (20% oil, 40% m, 40% water)  
7,000 Chlorides  
110' OCWM (3% oil, 82% m, 15% water)  
10' SOCMW (3% oil, 2% m, 95% water)  
28,000 Chlorides  
Mud Systems: 3,500 Chlorides  
IFP: 60-40 FFP: 70-80  
ISIP: 1022 FSIP: 974  
HP: 1788-1788 Temp 110 degree

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Wichita, Kansas

# ORIGINAL

**DST #4** 3606-15      **ZN** Arb.

Times: 30-45-45-60

Blow: 3" Blow/2-1/2" Blow

Rec.: 70'Oil (22 degree)

10'HOCM

(30% oil, 65% m, 5% w)

60'OCM (10% oil, 5% gas, 75% m, 10% w)

Recovery: 3500 Chlorides

Mud Systems: 2500 Chlorides

IFP: 78-58

FFP: 107-88

ISIP: 841

FSIP: 795

HP: 1809-1790

Temp 102 degree

**DST #5** 3612-3627      **ZN** Arb.

Times: 30-45-45-60

Blow: 1st Blow - 2-1/4"/1-1/2" on second blow

Rec: 140'MO (50% oil, 50% mud)

10'SOCM (5% oil, 95% mud)

IFP: 88-58

FFP: 117-86

ISIP: 898

FSIP: 860

HP: 1780-1791

Temp

## SAMPLE TOPS

## LOG TOPS

Anh	1798	(+355)	
B/Anh	1830	(+323)	
Heebner	3322	(-1169)	3319 (-1166)
Toronto	3347	(-1194)	3346 (-1193)
LKC	3365	(-1212)	3363 (-1210)
BKC	3554	(-1401)	3552 (-1399)
Arbuckle	3602	(-1449)	3606 (-1453)
RTD	3700	(-1547)	3698 (-1545)

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31  
 Russell, Kansas 67665

5536

*New*

Date	6-22-93	Sec.	24	Fwp.	4	Range	22	Called Out		On Location	7:30 pm	Job Start	9:40 pm	Finish	10:00 pm
Lease	Crewing	Well No.	1-24	Location	Hill City N to Junction			County	Norton	State	Ks				
Contractor	Murlin D. & R. Rig 3			Owner	S E E 3 N E S.										
Type Job	Surface														
Hole Size	12 1/4	T.D.	215												
Csg.	8 1/2	Depth	213												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	10-15	Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace	12.85												
Perf.															

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To *Uess Oil Corp*  
 Street *8100 E 22nd North, Building 300*  
 City *Wichita* State *Kan 67226*

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.  
 X *Kurt VanBelt*

**CEMENT**

Amount Ordered	<i>140 60% 30% CC 2% gel</i>		
Consisting of			
Common	<i>84</i>	<i>5.75</i>	<i>483.00</i>
Poz. Mix	<i>56</i>	<i>3.00</i>	<i>168.00</i>
Gel.	<i>3</i>	<i>7.00</i>	<i>21.00</i>
Chloride	<i>4</i>	<i>25.00</i>	<i>100.00</i>
Quickset			

**EQUIPMENT**

Hays	No.	Cementer	<i>Dave</i>
Pumptrk	<i>153</i>	Helper	
Pumptrk	No.	Cementer	<i>Mike</i>
		Helper	
		Driver	
Bulktrk	<i>218</i>	Driver	

Handling	<i>100</i>	<i>140.00</i>
Mileage	<i>55</i>	<i>308.00</i>
Sub Total		<i>1220.00</i>
Total		

**DEPTH of Job**

Reference:	<i>Pump trk chg</i>	<i>430.00</i>
	<i>2<sup>25</sup> Per mile</i>	<i>55 123.75</i>
	<i>8' wooden plug</i>	<i>42.00</i>
	Sub Total	<i>595.75</i>
	Tax	
	Total	

Remarks:

*Cement Cir*

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OCT 28 1993

CONSERVATION DIVISION  
 Wichita, Kansas

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME 1-24 Greving		COUNTY Norton	STATE KS	CITY / OFFSHORE LOCATION	DATE 6-30-93
CHARGE TO Vess Oil Corp.		OWNER Vess Oil Corp		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS 8100 E. 22nd St. Building 300		CONTRACTOR MUN, IN DMY Rig 3		LOCATION 1 Oberlin KS	CODE 25529
CITY, STATE, ZIP Wichita KS 67226		SHIPPED VIA 2591		FREIGHT CHARGES <input type="checkbox"/> PFD <input type="checkbox"/> COLLECT	LOCATION 2
WELL TYPE 01	WELL CATEGORY 03	WELL PERMIT NO. B-158874	DELIVERED TO Al. Densmore KS		LOCATION 3
TYPE AND PURPOSE OF JOB 035		ORDER NO.		REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
000-117		1		MILEAGE 2591	60	mi			2.75	165	00
001-016		1		Pump Charge	3696	ft				1345	00
018-315		1		Mud Flush	500	gal			.65	325	00
12A	825.204	1		Reg Guide Shoe	1	EA	4 1/2	in		95	00
24A	815.19101	1		Insert Float Valve	1	EA	4 1/2	in		73	00
27	815.19111	1		Auto Fill Tube	1	EA	1	in		45	00
40	807.93204	1		S-4 Centralizers	9	EA	4 1/2	in	43 <sup>00</sup>	387	00
320	800.8881	1		Cement Basket	1	EA	4 1/2	in		105	00
030-018				5W Top Plug	1	EA	4 1/2	in		55	00

NOT THIS IS AN INVOICE

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STATE CORPORATION COMMISSION  
OCT 28 1993  
Wichita, Kansas  
5204 36

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-158874**

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

*Jack Moore*  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_  
 WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_  
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X *Mike Stronkin*  
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X *Mike Stronkin*  
CUSTOMER OR HIS AGENT (SIGNATURE)

APPLICABLE TAXES WILL BE ADDED ON INVOICE.



**BULK MATERIALS DELIVERY  
AND  
TICKET CONTINUATION**

**HALLIBURTON SERVICES**  
Duncan, Oklahoma 73558

A Division of Halliburton Company

ORIGINAL  
FOR INVOICE AND  
TICKET NO. 222973

DATE <b>6-30-93</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>1-24 Greving</b>	COUNTY <b>Norton</b>	STATE <b>Ks</b>
CHARGE TO <b>Vess O. / Co</b>		OWNER <b>Vess O. / Corp</b>	CONTRACTOR <b>Martin Drly #3</b>	No. <b>B 158874</b>
MAILING ADDRESS		DELIVERED FROM <b>Oberlin Ks</b>	LOCATION CODE <b>25529</b>	PREPARED BY <b>Jones / Alstrom</b>
CITY & STATE		DELIVERED TO <b>N / Denismore</b>	TRUCK NO. <b>3846</b>	RECEIVED BY <b>Jack Moore</b>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
504-136		1	B	40/60 Pbz Cem	150	stk			6.85	1027.50
506-121		1	B	3 Howco Gel Allowed 290						N/C
507-775		1	B	Halad 322	63	lbs			6.90	434.70
507-970		1	B	D-Air	38	lbs			3.10	117.80
509-968		1	B	Salt Granulate	1293	lbs			.13	168.29
504-308		1	B	Std Cmt	25	stk			7.87	196.75

THIS IS NOT AN INVOICE

Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES	CU. FEET	CU. FEET	CU. FEET
	SERVICE CHARGE ON MATERIALS RETURNED					
500-207	SERVICE CHARGE				1.25	241.25
500-306	Mileage Charge	16,599	60	497.97	.85	423.27
No. <b>B 158874</b>		CARRY FORWARD TO INVOICE			SUB-TOTAL	
					<b>2609.36</b>	

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CONSERVATION DIVISION  
Wichita, Kansas

**HALLIBURTON SERVICES**  
**JOB LOG**

WELL NO. 1-24 LEASE Greving  
CUSTOMER Vess Oil Corp  
JOB TYPE Cmt, Prod, Csg

TICKET NO. 222913  
PAGE NO. 1  
DATE 6-30-93

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	6-29-93 1800							Called out - Ready @ 2330
	2245							On location - Rig laying down collars
	6-30-93 0048							Start Casing 91 Jts used 10.5# 4 1/2" Casing w/ Reg Guide Shoe. Insert Float Valve w/ Auto fill tube in top of 30' Shoe Jt. 1 EA Centralizer on Jts #1, 2, 3, 4, 6, 8, 10, 45 + 47. Cement Basket on Jt #46. Baker Port Collar in top of 46ft Jt.
	0233							Finish Casing - Hook up Plug container + manifold - 12' up
	0252							Rig circulate - Pumped ball through insert @ 700 psi
								Hook up to Howco
	0335	6						Start 3bbl Water Spacer
	0336	6	3 wtr					Finish Spacer - Start 500 gal Mud Flush
	0338	6	12 Mud Flush					Finish Mud Flush - Start 3bbl Spacer
	0343	7	3 wtr					Start Cmt - 25 sks Std - Neat
	0345	7	5 1/4 Std					Finish 25 Sks - Start 150 sks 60/40 Pvc w/ 18% Salt, 2% Gel, 4% Hakd 302 + 25% D-Air
	0351	7	37.8 60/40 Pvc					Finish Cement - Shut down
	0352							Wash up pump + lines
	0354	7					0	Release plug + start disp
	0400	7	37				200	Caught + Pressure
	0403	6 1/2	57				650	Pressure + Rate
	0403	6 1/2	58 1/4				1300	Plug down - Holding
	0405							Release - Held
	0407							Wash up truck
	0420							Rack up
	0445							Job Complete
								Port Collar @ 1821'

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OCT 28 1993  
CONSERVATION DIVISION  
Wichita, Kansas

CUSTOMER



# HALLIBURTON SERVICES JOB SUMMARY

HALLIBURTON DIVISION Wichita, Kansas City  
HALLIBURTON LOCATION Oberlin KS

BILLED ON 322973  
TICKET NO. 322973

WELL DATA  
FIELD D. Densmore KS SEC. 24 TWP. 9S RNG. 22W COUNTY Norton 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 3700

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>4</u>		<u>4 1/2</u>	<u>KB</u>	<u>3696</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>		<u>3700</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
Float Collar <u>Inset Float 4 1/2</u>	<u>1EA</u>	<u>Howco</u>
Guide Shoe <u>Reg 4 1/2</u>	<u>1EA</u>	
Centralizers <u>S-4 4 1/2</u>	<u>4EA</u>	
Bottom Plug <u>SW 4 1/2"</u>	<u>1EA</u>	
Port Collar <u>4 1/2"</u>	<u>1EA</u>	<u>Baker</u>
Other <u>Cmt Basket 4 1/2"</u>	<u>1EA</u>	<u>Howco</u>

### JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-29-93</u> TIME <u>1800</u>	DATE <u>6-29-93</u> TIME <u>2245</u>	DATE <u>6-30-93</u> TIME <u>0648</u>	DATE <u>6-30-93</u> TIME <u>0445</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Moore</u> <u>89685</u>	<u>38422</u> <u>P.U.</u>	<u>Oberlin KS</u>
<u>J. Alstrom</u> <u>66382</u>	<u>2591</u> <u>HT. 4000</u>	<u>Oberlin KS</u>
<u>M. Jones</u> <u>50046</u>	<u>3246</u> <u>RUIKTK</u>	<u>Oberlin KS</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  
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 \_\_\_\_\_

DEPARTMENT CMT  
DESCRIPTION OF JOB Cmt. Prod. Csg. w/ 25 sks Std. 150 sks 60/40 Poc + 2% Gel 18% Salt, 5% Halad 322 + 25% D-Air, 9EA Cmt / Basket Inset w/ Antofill + Reg Guide Shoe  
JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
CUSTOMER REPRESENTATIVE X Mike Stank  
HALLIBURTON OPERATOR Jack Moore COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>25</u>	<u>Std</u>			<u>No Additives</u>	<u>1.18</u>	<u>15.6</u>
	<u>130</u>	<u>60/40 Poc</u>			<u>18% Salt 2% Gel, 4% Halad 322, 25% D-Air</u>	<u>1.34</u>	<u>14.37</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 32.30 REASON Shoe Joint

SUMMARY  
PRESLUSH: BBL 500  
LOAD & BKDN: BBL-GAL. \_\_\_\_\_ PAD: BBL-GAL. \_\_\_\_\_  
TREATMENT: BBL-GAL. \_\_\_\_\_ DISPL. (BBL-GAL.) 58 1/4  
CEMENT SLURRY: BBL-GAL. 5 1/2 Std 37.8 - 60/40  
TOTAL VOLUME (BBL-GAL.) 113.3  
REMARKS Baker Port Collar  
See Job Log  
Thank you

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CUSTOMER

CUSTOMER: Vess O. Leonard  
LEASE: Genevieve  
WELL NO.: 1-24  
JOB TYPE: Cmt + Prod Csg DATE: 6-30-93



JOB LOG FORM 2013 R-3

CUSTOMER **Vess Oil Co.** WELL NO. **1-24** LEASE **GRENING** JOB TYPE **PTA** TICKET NO. **508129**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							called out
	0830							on loc. Rig Rigging up To shooting set up trucks shoot csg off @ 1695 - unable to pull csg shoot csg off @ 1038 pull 4 STs
	1030				1			START mixing 100 SKS H <sub>2</sub> O w/ 4% add. grt - w/ 5 SKS cottonseed oil
			16		1		250	PSI
	1044		36		1		400	FIN mixing curt
	1045		2		1		400	Disp 2BBL H <sub>2</sub> O Knock loose pull csg to 280 FT
	1112				1		100	START Loading hole
	1113		5		1		100	FIN load HOLE
	1125				1		100	START mixing curt - w/ 3 SKS hull
	1120		15		1		100	FIN mix curt - curt circ to SURF. 40 SKS. pull csg out hole Hole Standing Full Run 1 JT csg to 40 FT START mix curt
	1130		3		1			curt circ to SURF. 10 SKS Hole Standing Full Job complete

Thank you  
Jim, Jenny & Mike

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WELL DATA  
 FIELD \_\_\_\_\_ SEC. 24 TWP. 4S RNG. 22W COUNTY Norton 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		4 1/2	EB	3699	
LINER	N		8 7/8	25	213	
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS				3608	3614	
PERFORATIONS				3618	3621	
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>10-13-93</u>	DATE <u>10-13-93</u>	DATE <u>10-13-93</u>	DATE <u>10-13-93</u>
TIME <u>0600</u>	TIME <u>0830</u>	TIME <u>1030</u>	TIME <u>1130</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>J. ALSTROM 66382</u>	<u>2591 R.C.M.</u>	<u>Oberlin Ks.</u>
<u>M. JONES-52046</u>	<u>3846 B.M.</u>	<u>Oberlin Ks.</u>
<u>J. KEENAN 63503</u>	<u>40070 CMTR</u>	<u>Oberlin Ks.</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 CMTR - Bulk  
 DESCRIPTION OF JOB PTA

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

CUSTOMER REPRESENTATIVE X Kevin Axelsson  
 HALLIBURTON OPERATOR J. Keenan COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	SULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>250</u>	<u>HLC</u>	<u>Starch</u>	<u>B</u>	<u>4% Add. gnl</u>	<u>2.04</u>	<u>13.27</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 \_\_\_\_\_ REASON \_\_\_\_\_

**SUMMARY**

**VOLUMES**

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 2  
 CEMENT SLURRY: BBL.-GAL. 53  
 TOTAL VOLUME: BBL.-GAL. 53

**REMARKS**

See Job Log  
Thank you

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CUSTOMER U.S.S. OIL Corp.  
 LEASE GREYING  
 WELL NO. 1-24  
 JOB TYPE PTA  
 DATE 10-13-93