

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

API NO. 15- 175-21,423 <sup>08-00</sup>  
County Seward **ORIGINAL**  
C SE Sec. 6 Twp. 35S Rge. 33 X W

Operator: License # 04782 **CONFIDENTIAL**

Name: Ensign Operating Co.

Address P. O. Box 2161

City/State/Zip Liberal, KS. 67905-2161

Purchaser: None as yet

Operator Contact Person: Reed Wacker

Phone (316) 626-8131

Contractor: Name: Gabbert & Jones, Inc.

License: #5842

Wellsite Geologist: Duane Moredock

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  S10W  Temp. Abd.  
 Gas  ENHR  S1GW  
 Dry  Other (Core, WSV, Expl., Cathodic, etc)

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

Operator: **RELEASED**

Well Name: JAN 1 7 1996

Comp. Date            Old Total Depth           

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

9/22/94 10/6/94 11/9/94  
Spud Date Date Reached TD Completion Date

1320 Feet from SW (circle one) Line of Section

1320 Feet from EW (circle one) Line of Section

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

Lease Name Schaffter Well # 1-6

Field Name Wildcat

Producing Formation Chase

Elevation: Ground 2857' KB 2870'

Total Depth 6950' PBTB 2771'

Amount of Surface Pipe Set and Cemented at 1640 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.

Drilling Fluid Management Plan ALT 1 997 10-20-95  
(Data must be collected from the Reserve Pit)

Chloride content 1800 ppm Fluid volume 5,550 bbls

Dewatering method used Evaporation & Backfill

Location of fluid disposal if hauled offsite:           

Operator Name           

Lease Name            License No.           

           Quarter Sec. NOV 2 E Twp. 35S Rng. 33 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 Reed Wacker

Title Production Supt. Date 11/22/94

Subscribed and sworn to before me this 22nd day of November, 19 94.

Notary Public William L. Waldorf

Date Commission Expires September 19, 1998

NOTARY PUBLIC - State of Kansas  
WILLIAM L. WALDORF  
My Appt. Exp. 9-19-98

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
STATE CLERK  
Distribution  
KCC  SWD/Rep  NSGA  
KGS  Plug  Other  
(Specify)  
NOV 23 1994  
STATE CLERK

Operator Name Ensign Operating Co. Lease Name Schaffter Well # 1-6  
 Sec. 6 Twp. 35S Rge. 33  East  West  
 County Seward

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E.Logs Run:				
See attached		See attached		

CASING RECORD <input checked="" 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#	1640'	Prem.Plus LT. Glass C	650 150	2% cc, & 1/4# / Sx Flocele
Production	7-7/8"	4 1/2"	10.5#	2818'	Prem.Plus LT.	150 125	1/4# / Sx Flocele

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/ID				
<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
1 JSPF	2706-11'	500 Gal., 7 1/2 % MCA 2706-11'
1 JSPF	2632-36'; 2640-46'; 2664-76'	1100 Gal., 7 1/2 % MCA 2632-76'
		22,300 Gal., 28% Fe/Hcl & Nitrogen 2632-76'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	2646'	NA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Estimated Production Per 24 Hours	Oil Bble.	Gas Mcf 310	Water Bbls. 0	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: 2632-2711'

## FORMATION TOPS

Ensign Operating Co.  
No. 1-6 Schaffter  
C SE Sec. 6, T35S, R33W  
Seward County, Kansas

G.L. 2857' K.B. 2870'	Comparison Well NE NE 6-35S-33W K.B. 2866'	Drill Time And Samples	Wire Line Logs
<b>Tertiary</b>	Surface +2855'	Surface +2857'	Surface +2857'
<b>Permian</b>			
<b>Glaudalupian</b>			
White Horse	716' +2150'	670' +2200'	690' +2180'
<b>Leonardian</b>			
Nipewalla Gr.			
Blaine	940' +1926'	920' +1950'	918' +1952'
Cedar Hills	1076' +1790'	1076' +1794'	1088' +1782'
Sumner Gr.			
Stone Corral	1559' +1307'	1572' +1298'	1570' +1300'
Ninnescah	1628' +1238'	1641' +1640'	1640' +1230'
Wellington	2142' +724'	2156' +714'	2156' +714'
Hutchinson	2202' +664'	2216' +654'	2216' +654'
<b>Wolfcampian</b>			
Chase Gr.			
Herington	2613' +253'	2609' +261'	2628' +242'
Krider	2678' +188'	2677' +193'	2696' +174'
Winfield	2737' +129'	2227' +143'	2755' +115'
Towanda	2794' +72'	2786' +84'	2814' +56'
Fort Riley	2852' +14'	2831' +39'	2866' +4'
Wreford	2938' -72'	2919' -49'	2954' -84'
Council Grove Gr.	3078' -212'	3102' -232'	3091' -221'
<b>Pennsylvanian</b>			
<b>Virgilian</b>			
Wabaunsee Gr.	3496' -630'	3524' -654'	3512' -642'
Shawnee Gr.			
Douglas Gr.			
Heebner	4339' -1473'	4369' -1499'	4356' -1486'
Toronto	4356' -1490'	4385' -1515'	4374' -1504'

G.L. 2857' K.B. 2880'	Comparison Well NE NE 6-35S-33W K.B. 2866'	Drill Time And Samples	Wire Line Logs
<b>Missourian</b>			
Lansing Gr.	4493' -1627'	4520' -1650'	4510' -1640'
Kansas City Gr.	4782' -1916'	4809' -1939'	4797' -1927'
<b>Demoinesian</b>			
Marmaton Gr.	5192' -2326'	5204' -2334'	5199' -2329'
Cherokee Gr.	3499' -2633'	5531' -2661'	5530' -2660'
Atokaian	5678' -2812'	5700' -2830'	5700' -2830'
<b>Morrowian</b>			
L. Morrow	5861' -2995'	5894' -3024'	5894' -3024'
Chester	6140' -3274'	6164' -3294'	6160' -3290'
Orange Marker	6177' -3311'	6201' -3331'	6199' -3329'
	6404' -3538'	6435' -3565'	6418' -3548'
<b>Mississippian</b>			
<b>Meramecian</b>			
Ste. Genevieve	6698' -3832'	6608' -3738'	6605' -3735'
<b>Total Depth</b>	6931' -4065'	6950' -4080'	6951' -4081'

ORIGINAL

GABBERT-JONES, INC.  
WICHITA, KANSAS

- DRILLERS' WELL LOG -

WELL NAME: Schaffter #1-6  
C-SE/4 Sec 6-35S-33W  
Seward County, Kansas

CONFIDENTIAL

COMMENCED: 9/22/94  
COMPLETED: 10/7/94  
OPERATOR: Ensign Operating Co.

DEPTH		FORMATION	REMARKS
From	To		
0	720	Sand-Clay	
720	1023	Redbed	
1023	1205	Glorietta Sand	Ran 37 jts of 24# 8 5/8" csg LD @ 1640' w/650 sks
1205	1620	Redbed	Prem Plus Lt - 1/4# Floseal
1620	1640	Anhy	2% CC - 150 sks Class C
1640	1845	Anhy-Redbed	2% CC
1845	2220	Redbed-Shale	PD @ 5:30AM 9/24/94
2220	6195	Lime-Shale	
6195	6320	Lime	<b>RELEASED</b>
6320	6535	Lime-Shale	Ran 63 jts of 10 1/2# 4 1/2" csg LD @ 2818' w/150
6535	6600	Shale-Lime	JAN 1 7 1996
6600	6770	Lime-Shale	sks Prem Plus Lt - 1/4# Floseal - 125 sks Class C
6770	6845	Lime	PD @ 7:30PM 10/7/94
6845	6950	Lime-Shale	RR @ 10:00PM 10/7/94

6950 TD

NOV 22  
CONFIDENTIAL

STATE OF KANSAS ]  
COUNTY OF SEDGWICK ]

I, the undersigned, being sworn on oath, state that the above Drillers' Well log is true and correct to the best of my knowledge and belief and according to the records of this office.

GABBERT-JONES, INC.

*[Signature]*  
James S. Sutton, II President

Subscribed & sworn to before me this 12th day of October, 1994

*[Signature]*  
Shirley A. Pelz, Notary Public  
My commission expires:  
October 18, 1997





INVOICE

ORIGINAL

INVOICE NO.	DATE
635166	09/23/1994

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
SCHAFFTER 1-6	SEWARD	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL	GABBERT & JONES	CEMENT <sup>Surface</sup> PRODUCTION CASING	09/23/1994
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
273943	RICHARD O. BERG		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	77655

CONFIDENTIAL

DIRECT CORRESPONDENCE TO:

ENSIGN OPERATING COMPANY  
1515 AIR PARK AVENUE  
P.O. BOX 2161  
LIBERAL, KS 67905-2161

OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2000  
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	1	MI	2.75	2.75
		1	UNT		
001-016	CEMENTING CASING	1640	FT	1,320.00	1,320.00
		1	UNT		
030-018	CEMENTING PLUG 5W, PLASTIC TOP	8	IN	130.00	130.00
		1	EA		
16A	CASING SHOE - 8 5/8" 8RD THD.	1	EA	161.00	161.00
830.2171					
24A	INSERT FLOAT VALVE - 8 5/8" 8RD	1	EA	171.00	171.00
815.19502					
27	FILL-UP UNIT 7"- 8 5/8"	1	EA	55.00	55.00
815.19415					
40	CENTRALIZER - 8-5/8 X 12-1/4	3	EA	65.00	195.00
806.61048					
66	CLAMP-LIMIT-8-5/8 HINGED	1	EA	13.75	13.75
806.72050					
350	HALLIBURTON WELD-A	1	EA	14.50	14.50
890.10802					
504-050	CEMENT - PREMIUM PLUS	150	SK	11.19	1,678.50
504-120	CEMENT - HALL. LIGHT PREM PLUS	650	SK	10.02	6,513.00
507-210	FLOCELE	163	LB	1.65	268.95
509-406	ANHYDROUS CALCIUM CHLORIDE	16	SK	36.75	588.00
500-207	BULK SERVICE CHARGE	843	CFT	1.35	1,138.05
500-306	MILEAGE CMTG MAT DEL OR RETURN	1170.033	TMI	.95	1,111.53

INVOICE SUBTOTAL

13,361.03

DISCOUNT-(BID)  
INVOICE BID AMOUNT

3,267.59-  
10,093.44

\*-KANSAS STATE SALES TAX

442.73

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

TERMS: 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 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.

CUSTOMER COPY



HALLIBURTON

ORIGINAL

REMIT TO:

P.O. BOX 951046  
DALLAS, TX 75395-1046

INVOICE

INVOICE NO.	DATE
635166	09/23/1994

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
SCHAFETER 1-6		SEWARD		KS	SAME
SERVICE LOCATION	CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL	GABBERT & JONES		CEMENT PRODUCTION CASING		09/23/1994
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	RICHARD O. BERG <i>Non. 28 yet</i>			COMPANY TRUCK	77655

DIRECT CORRESPONDENCE TO:

ENSIGN OPERATING COMPANY  
1515 AIR PARK AVENUE  
P.O. BOX 2161  
LIBERAL, KS 67905-2161

OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2000  
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	*-SEWARD COUNTY SALES TAX				90.36
<b>CONFIDENTIAL</b>					
<b>RELEASED</b>					
<b>JAN 17 1996</b>					
<b>FROM CONFIDENTIAL</b>					
<b>NOV 22 1995</b>					
<b>CONFIDENTIAL</b>					
<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====&gt;</b>					<b>\$10,626.53</b>

TERMS: 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 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.



# JOB SUMMARY

HALLIBURTON DIVISION

MED Cont

HALLIBURTON LOCATION

LEBERAL Ks

BILLED ON TICKET NO.

635166

## WELL DATA

FIELD \_\_\_\_\_ SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RNG. \_\_\_\_\_ COUNTY SEWARD 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 1640

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>24</u>	<u>8 5/8</u>	<u>K.B.</u>	<u>1664.6</u>	
LINER						
TUBING						
OPEN HOLE			<u>12 1/4 G.L.</u>	<u>1640</u>		SHOTS/FT.
PERFORATIONS						
PERFORATIONS			<b>ORIGINAL</b>			
PERFORATIONS						

## JOB DATA

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSERT W/F.I.I</u>	<u>1</u>	<u>H</u>
FLOAT SHOE		<u>0</u>
GUIDE SHOE <u>TEXAS PATT</u>	<u>1</u>	<u>W</u>
CENTRALIZERS <u>S.4</u>	<u>3</u>	<u>C</u>
BOTTOM PLUG		<u>H 0</u>
TOP PLUG <u>S-WEPER</u>	<u>1</u>	<u>0</u>
HEAD <u>Q.C.P.E</u>	<u>1</u>	<u>W</u>
PACKER <u>LIMIT CLAMP</u>	<u>1</u>	<u>C</u>
OTHER <u>WELD A</u>	<u>1</u>	<u>0</u>

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-23-94</u>	DATE <u>9-23-94</u>	DATE <u>9-24-94</u>	DATE <u>9-24-94</u>
TIME <u>18:30</u>	TIME <u>21:20</u>	TIME <u>04:17</u>	TIME <u>05:25</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Elwood</u>	<u>40075</u>	<u>LEBERAL Ks</u>
<u>D. 4360</u>	<u>P.U.</u>	<u>LEBERAL Ks</u>
<u>D. NEEFEAT</u>	<u>52938</u>	
<u>E 1591</u>	<u>7848 (P)</u>	<u>"</u>
<u>D. HAMILTON</u>	<u>4673</u>	
<u>G. 3090</u>	<u>4515 (B)</u>	<u>Hugoton Ks</u>
<u>J. BOOTH</u>	<u>50866</u>	
<u>G. 9511</u>	<u>7649 (B)</u>	<u>"</u>

**CONFIDENTIAL**

DEPARTMENT SOUL CONT  
 DESCRIPTION OF JOB 8 5/8 SURFACE  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE Robert Elwood  
 HALLIBURTON OPERATOR ROBERT ELWOOD COPIES REQUESTED \_\_\_\_\_

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. \_\_\_\_\_ IN  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

**NOV 22 1994**  
**CONFIDENTIAL**  
**RELEASED**  
**JAN 17 1996**

**FROM CONFIDENTIAL**

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>650</u>	<u>Prem + LITE</u>	<u>C</u>	<u>B</u>	<u>2% C.C., 1/4 #/SK Flucelc</u>	<u>2.06</u>	<u>12.3</u>
	<u>150</u>	<u>Prem +</u>	<u>C</u>	<u>B</u>	<u>3% C.C.</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. 102.98  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY (BBL) GAL. 238.45 + 35.26 = 273.71  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 45.34 REASON SHOE JOINT

CUSTOMER Ensign Oper  
 LEASE Schaeffer  
 WELL NO. 1-6  
 JOB TYPE 8 5/8 SURFACE  
 DATE 9-23-94





HALLIBURTON ORIGINAL

DATE 3-93-94 PAGE NO. 1

JOB LOG HAL-2013-C

CUSTOMER Ensign Oper WELL NO. 1-6 LEASE Schaffner JOB TYPE 8 5/8 Surface TICKET NO. 635166

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS T C, PRESSURE (PSI) TUBING CASING, DESCRIPTION OF OPERATION AND MATERIALS. Includes entries for 18:30, 21:20, 2:30, 3:30, 3:50, 4:17, 4:20, 4:56, 5:02, 5:03, 5:24, 5:25.

CIRC to Pit  
32 BBLs  
87 SKS

NOV 22

RELEASED

CONFIDENTIAL

JAN 17 1996

FROM CONFIDENTIAL

THANK YOU FOR CALLING  
HALLIBURTON  
ROBERT E. CREW

CONFIDENTIAL



INVOICE

ORIGINAL

INVOICE NO.	DATE
635168	10/07/1994

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
SCHAFFTER 1-6		SEWARD		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
LIBERAL		GABBERT & JONES		CEMENT PRODUCTION CASING	
ACCT. NO.		CUSTOMER AGENT		VENDOR NO.	
273943		RICHARD D. BERG			
CUSTOMER P.O. NUMBER		SHIPPED VIA		FILE NO.	
		COMPANY TRUCK		78447	
				TICKET DATE	
				10/07/1994	

DIRECT CORRESPONDENCE TO:

ENSIIGN OPERATING COMPANY  
1515 AIR PARK AVENUE  
P.O. BOX 2161  
LIBERAL, KS 67905-2161

OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2000  
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	1	MI	2.75	2.75
		1	UNT		
001-016	CEMENTING CASING	2829	FT	1,455.00	1,455.00
		1	UNT		
50	CENTRALIZR-TURBO-4-1/2 X 7-7/8	5	EA	57.00	285.00
806,60104					
80	FORM PKR SHOE FLAP VLV 4 1/2	1	EA	2,300.00	2,300.00
855.128					
82	FILL-UP UNIT	1	EA	75.00	75.00
855.02549					
504-050	CEMENT - PREMIUM PLUS	125	SK	11.19	1,398.75
504-120	CEMENT - HALL. LIGHT PREN PLUS	150	SK	10.02	1,503.00
507-210	FLOCELE	38	LB	1.65	62.70
500-207	BULK SERVICE CHARGE	278	CFT	1.35	375.30
500-306	MILEAGE CMTG MAT DEL OR RETURN	422.75	TMI	.95	401.61

INVOICE SUBTOTAL

7,859.11

DISCOUNT-(BID)

1,891.87-

INVOICE BID AMOUNT

5,967.24

CONFIDENTIAL

- \*-KANSAS STATE SALES TAX
- \*-LIBERAL CITY SALES TAX
- \*-SEWARD COUNTY SALES TAX

235.25  
48.00  
48.00

KUL

NOV 2 2

CONFIDENTIAL

INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>

\$6,298.49

TERMS: 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 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.


**JOB LOG** HAL-2013-C

CUSTOMER <i>Ensign Oper</i>	WELL NO. <i>1-6</i>	LEASE <i>SCHAFETER</i>	JOB TYPE <i>4 1/2 Longstring</i>	TICKET NO. <i>635168</i>
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	14:00							CALLER OUT READY 17:00
	16:00							ON LOC Rig Rigging up CARRAS
	17:00							START Csg
	18:00							Csg on Bottom ORIGINAL
	18:10							Circ. w/Rig
	18:20							HOOK to Halliburton
	18:21							DROP PACKER SET BALL
	18:38				X		1100	SET PACKER
	18:39		10		X		0	START PRODUCTION (FRESH WATER)
	18:43		55.03		X		125	START LEAD CMT @ 12.3 #/gal
	18:51		29.38		X		200	START TAIL CMT @ 14.8 #/gal
	18:55				X		0	SHUT DOWN
	18:57				X		0	DROP CATCH DOWN PLUG
	18:57				X		0	WASH PUMPS & LEWES to Pit
	19:00		44.26		X		0	START H <sub>2</sub> O Displacement
	19:13				X		300	Plug Down & Holding
	19:14				X		1,000	Release Pressure
	19:14							Job Complete

NOV 22 1994  
 CONFIDENTIAL  
 NOV 22 1994  
 CONFIDENTIAL  
 JAN 17 1996  
 RELEASED  
 CONFIDENTIAL  
 FROM CONFIDENTIAL

It HAS BEEN A PLEASURE  
 to SERVE YOU.  
 Halliburton  
 ROBERT & CREW



# JOB SUMMARY

HALLIBURTON DIVISION

MED COAT

HALLIBURTON LOCATION

LIBERAL KS

BILLED ON TICKET NO.

635168

## WELL DATA

FIELD \_\_\_\_\_ SEC. 6 TWP. 25 S. RNG. 33.0 COUNTY SEWARD 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	10.5	4 1/2	R.B.	2829	
LINER						
TUBING						
OPEN HOLE			2 7/8	G.L.	6950	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		Howco
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>FLOCO MASTER</u>	<u>5</u>	
BOTTOM PLUG		
TOP PLUG <u>LATCH DOWN</u>	<u>1</u>	
HEAD <u>FREE FALL</u>	<u>1</u>	
PACKER <u>FORMATION</u>	<u>1</u>	
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-7-94</u>	DATE <u>10-7-94</u>	DATE <u>10-7-94</u>	DATE <u>10-7-94</u>
TIME <u>13:00</u>	TIME <u>16:00</u>	TIME <u>18:28</u>	TIME <u>19:13</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. ELWOOD</u>	<u>38242</u>	<u>LIBERAL KS</u>
<u>D. 4360</u>	<u>P.O.</u>	
<u>P. MARTINEZ</u>	<u>54947</u>	<u>"</u>
<u>G. 2731</u>	<u>75496 (P)</u>	
<u>P. BOONE</u>	<u>4449</u>	<u>HUGOTON KS</u>
<u>G. 9614</u>	<u>75505 (B)</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 \_\_\_\_\_

CONFIDENTIAL

RELEASED

DEPARTMENT 7 8861 - Coat

DESCRIPTION OF JOB 4 1/2 LONG STRING

FROM CONFIDENTIAL

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

CUSTOMER REPRESENTATIVE X Richard O. Berg

HALLIBURTON OPERATOR ROBERT ELWOOD COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>150</u>	<u>Prem P. 4</u>	<u>C</u>	<u>B</u>	<u>1/4" 1/2" Flo.</u>	<u>2.06</u>	<u>12.3</u>
	<u>125</u>	<u>C</u>	<u>C</u>	<u>B</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. 44.26

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY (BBL)-GAL. 55.03 + 29.38

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

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

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 45.12 REASON SHOE ST

CUSTOMER ELWOOD OPER

LEASE SEWARD

WELL NO. 1-6

JOB TYPE 4 1/2 LONG STRING

DATE 10-7-94



JOB LOG HAL-2013-C

CUSTOMER <i>Ensign Oper</i>	WELL NO. <i>1-6</i>	LEASE <i>SCHAFFNER</i>	JOB TYPE <i>4 1/2 Long string</i>	TICKET NO. <i>635168</i>
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	18:43		53.03				125	START LEAD CMT @ 12.3 #/gal
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	18:55						0	SHUT DOWN
	18:57						0	Drop Latch Down Plug
	18:57						0	WASH Pumps & LINES to Pit
	19:00		44.26				0	START H <sub>2</sub> O Displacement
	19:13						300	Plug Down & Holding
	19:14						1,000	Release Pressure
	19:14							Job Complete

RELEASED

FROM CONFIDENTIAL

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NOV 22  
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It HAS been a pleasure  
to serve you.  
Halliburton  
ROBERT & CREW