

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

API NO. 15- 175-21680-0000 APR 09 1999
County Seward
Approx. FROM CONFIDENTIAL
C - SE - Sec. 22 Twp. 32S Rge. 32 X U

Operator: License # 04782 ORIGINAL

Name: Ensign Operating Co.

Address P. O. Box 2161 CONFIDENTIAL

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

Purchaser: KN Energy

Operator Contact Person: Wes Willimon

Phone (316) 626-8131

Contractor: Name: Cheyenne Drlg. Inc

License: 5382

Wellsite Geologist:

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD S10W Temp. Abd.
X Gas ENHR SIGW
Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: KCC

Well Name: MAR 4

Comp. Date Old TO: CONFIDENTIAL

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

11/29/97 12/01/97 12/22/97
Spud Date Date Reached TD Completion Date

1250 Feet from S/W (circle one) Line of Section
1250 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 Roehr Well # 1-22
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 2821' KB 2826'
Total Depth 2900' PBDT 2848'
Amount of Surface Pipe Set and Cemented at 642 Feet
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set Feet
If Alternate II completion, cement circulated from feet depth to w/ ex cnt.

Drilling Fluid Management Plan ALT 1 87 7-7-98
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 6,800 bbls

Dewatering method used Evaporation & Backfill To Original Contour.
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.

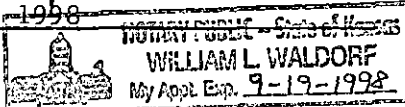
Signature Marion W. Willimon

Title Production Supt. Date 03/04/98

Subscribed and sworn to before me this 4th day of March 19 98.

Notary Public William L. Waldorf

Date Commission Expires Sept. 19, 1998



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution 3-9-98
KCC SWD/Rep NGPA
KGS Plug Other (Specify)

Operator Name Ensign Operating Co. Lease Name Roehr Well # i-22
 Sec. 22 Twp. 32S Rge. 32 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Glorietta	1142'	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base of Stone Corral	1711'	
List All E.Logs Run:		Herrington	2622'	
See attached		Upper Krider	2654'	
		Lower Krider	2686'	
		Winfield	2736'	
		Towanda	2791'	
		DTD	2900'	
		LTD	2908'	

MICRO RESISTIVITY
 COMPENSATED DENSITY/NEUTRON
 DUAL INDUCTION
 CEMENT BOND

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 1/2"	8-5/8"	24#	642'	Pre Plus Lite	200	2% CC & 1/2# / Sk.Flocele
Production	7-7/8"	5 1/2"	15.5#	2898'	Pre Plus Lite	300	Pre Plus Cnt. 100 2%# / Sk.Flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
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 JSPF	2688-2700' (Lower Krider)	600 Gal. of 15% HCL Acid Cont'g 10# Ferphex II Iron Control, 1 Gal. HAI-81, & 1 Gal. HC2	
1 JSPF	2626, 2628, 2630, 2646, & 2648' (Herrington)	500 Gal. of 15% HCL Acid Cont'g 1 Gal. HC2 & 1 Gal. HAI-81.	
1 JSPF	2656, 2658, 2660, 2662, & 2664' (Upper Krider)		

TUBING RECORD		Size	Set At	Packer At	Liner Run	Foam Frac'd Herrington & Upper Krider Zones (See Attachment)		
		2-3/8"	2607'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj.				Producing Method				
01/30/98				<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	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
		N/A		160		0	N/A	

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: 2626 to 2700'

REGION North America	NWA/COUNTRY Mid Continent	BDA / STATE KS	COUNTY Seward
MBU ID / EMP # LT0105 63601	EMPLOYEE NAME D. M. Kane	PSL DEPARTMENT Cement	
LOCATION Liberal	COMPANY Leavanne Drilling	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	RELEASED
WELL LOCATION Kane	DEPARTMENT Cement	JOB PURPOSE CODE 010	APR 09 1999
LEASE / WELL # Kriehr 1-22	SEC / TWP / RNG 22 31 32 W		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
E. McDonald H9295			
B. Tomlinson J1832			
M. Longworth G9510			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
38242	56						
52398-7131	56						
50737-6612	50						

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Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	11-29-97	11-29-97	11-29-97	11-29-97
TIME	1330	1500	2038	2105

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar Insert 8 5/8	1	H
Float Shoe		
Guide Shoe 8 5/8	1	O
Centralizers 8 5/8	3	
Bottom Plug		W
Top Plug 8 5/8	1	
Head PIC 8 5/8	1	C
Packer		
Other w/d-A	1	O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	1	24	8 5/8	K13	G46	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
	KCC			See Job Log
	MAR 4			
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

Avail. _____ Used _____

AVERAGE RATES IN BPM

Disp. _____ Overall _____

CEMENT LEFT IN PIPE

Reason: 5 loc Joint

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	200	DL Lite	B	2% CC 1/4% SK Glacite	2.06	14.2
	100	Prac Plus	B	2% CC	1.32	14.8

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp. BBI - Gal 38.5
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI 73 TC 23.5
 Total Volume Gal - BBI _____

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
 THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER'S REPRESENTATIVE SIGNATURE _____

JOB LOG

REGION North America	NWAI 271 Calvert	FRY 733024	BDA / STATE KS	COUNTY Summit
MBU ID / EMP # 17115 C3601	EMPLOYEE NAME D. M. Chase	PSL DEPARTMENT Cement	RELEASED	
LOCATION Liberal	COMPANY Chevron Drilling	CUSTOMER REP / PHONE		
TICKET AMOUNT	WELL TYPE	API / UWI #	APR 09 1999	
WELL LOCATION Liberal	DEPARTMENT Cement	JOB PURPOSE CODE	FROM CONFIDENTIAL	
LEASE / WELL # 2060 1-22	SEC / TWP / RNG 22 31 32 W			

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
F. D. H 119285			
B. Tomlinson 11832			
M. Longworth 69510			

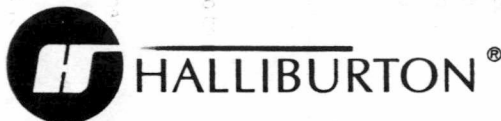
CONFIDENTIAL ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1730							Job Ready
	1730							Called for Job
	1800							on location Rig still Drilling Set up Pump truck
	1715							Rig through Drilling
	1730							Trp out D.P.
	1815							Start Csg & float Equip.
	1857							Csg on Bottom Unit on Cat for Bulk tank
	1859							Hook up PIC & Circulating Iron
	1905							Start Circulating
	2035							through Circulating
	2037							Hook up to Halliburton
								Job Procedure 8 1/2 Surface Pipe
	2038	6.5	7.3	✓		0/100		Start Lead Cement @ 12.0 #/Gal
	2048	6.5	23.5	✓		100/100		Start Tail Cement @ 14.2 #/Gal
	2050							through mixing Cement
	2052							Shut Down / Release Plug
	2053	6.5	38.5	✓		0/100		Start Displace ment
	2055			✓		100/200		Caught Cement 20 Bbls on RGC
	2059			✓		200/175		Sp. Down Rate
	2105			✓		300/200		Plug Loaded
	2106							Release float
	2107							Start lift
								Circulated 35 Bbls Cut to Pit
								95 sks to Pit
								Thank You for Calling Halliburton
								Drone & Bryan & Mike

MAR 4
CONFIDENTIAL

MAR 4 1999

CONSERVATION DIVISION
Wichita, Kansas



HALLIBURTON ENERGY SERVICES

1906-Q

CHARGE TO: Cheyenne Drilling
 ADDRESS: Box 916
 CITY, STATE, ZIP CODE: Garden City KS 67046

CUSTOMER COPY

TICKET

RELEASED

No.

232094 - 5

APR 09 1999

PAGE 1 OF 2

SERVICE LOCATIONS 1. 0255410	WELL/PROJECT NO. 1-22	LEASE Roehr	COUNTY/PARISH Seward	STATE KS	CITY/OFFSHORE LOCATION N Liberal	DATE 1129 97	OWNER
2. 025535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Cheyenne Drilling	RIG NAME/NO. 8	SHIPPED VIA CT	DELIVERED TO Well Site	ORDER NO.
3.	WELL TYPE 02	WELL CATEGORY 01	JOB PURPOSE 010	WELL PERMIT NO.	WELL LOCATION Land		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
			LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
	000-117					MILEAGE	56	MI	RT	3.20	179.20
	000-119					cross Mileage	56	MI	RT	1.95	109.20
	001-016					Pump Charge	646	EA	6 HR	1025.00	1025.00
	030-018					5 more Plug	24	EA	1 EA	143.00	143.00
	16A	230 2171				Tx Rth on Grade	24	EA	1 EA	233.00	
	24A	815.19502				Insert Float	24	EA	1 EA	188.00	188.00
	27	815.19415				Fill Ass	15	EA	1 EA	70.00	70.00
	41	806.61048				Centralizers	24	EA	3 EA	68.00	204.00
	66	706.72750				Limit Clamp	24	EA	1 EA	23.50	23.50
	350	890.15802				Weld-A	1	EA	1 EA	16.75	16.75

ORIGINAL

CONFIDENTIAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

X DATE SIGNED Castillo TIME SIGNED A.M. P.M.

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

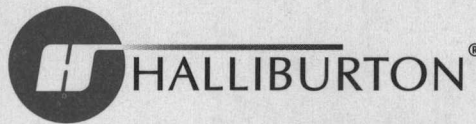
TYPE LOCK	SUB SURFACE SAFETY VALVE WAS <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		PAGE TOTAL 1958.65
BEAN SIZE	TYPE OF EQUALIZING SUB.	CASING PRESSURE	FROM CONTINUATION PAGE(S) 5280.35
DEPTH	TUBING SIZE	TUBING PRESSURE	WELL DEPTH 7239.00
SPACERS	TREE CONNECTION	TYPE VALVE	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Dominico Castillo</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X Castillo</u>	HALLIBURTON OPERATOR/ENGINEER <u>D. McKane</u>	EMP # <u>63601</u>	HALLIBURTON APPROVAL
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CUSTOMER COPY

RELEASED



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE

APR 09 1997 HALLIBURTON ENERGY SERVICES, INC.

INVOICE NO.	DATE
234279	12/01/1997

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION	STATE	OWNER	
RGEHR 1-22		SEWARD	KS	SAME	
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
LIBERAL		SHOWN BELOW		12/01/1997	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	WES WILLIMON			COMPANY TRUCK	34206

ORIGINAL

DIRECT CORRESPONDENCE TO:

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

P O BOX 1598
LIBERAL KS 67901

CONFIDENTIAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASINO					
000-117	MILEAGE CEMENTING ROUND TRIP	50 MI		3.20	160.00
		1 UNT			
000-119	MILEAGE FOR CREW	50 MI		1.95	97.50
		1 UNT			
001-016	CEMENTING CASINO	2903 FT		1,680.00	4,680.00
		1 UNT			
030-016	CEMENTING PLUG SW ALUM TOP	5 1/2 IN		66.00	66.00
		1 EA			
001-018	CEMENTING CASINO - ADD HRS	2 HR		291.00	582.00
		1 UNT			
001-018	CEMENTING CASINO - ADD HRS	1 HR		291.00	N/C
		1 UNT			
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1 EA		121.00	121.00
825.205					
24A	INCERT FLOAT VALVE - 5 1/2" 8RD	1 EA		121.00	121.00
815.19251					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1 EA		76.00	76.00
815.19311					
50	CENTRALIZR-TURBD-5-1/2 X 8-1/2	6 EA		84.00	504.00
806.60122					
66	CLAMP-LINIT-5 1/2-FRICT-W/DOGS	1 EA		16.80	16.80
806.72730					
018-303	CLAYFIX II, PER GAL	2 GAL		30.50	61.00
504-050	CEMENT - PREMIUM PLUS	150 SK		14.01	2,101.50
504-120	CEMENT - HALL. LIGHT PREM PLUG	300 SK		11.52	3,456.00
507-210	FLOCELE	113 LB		1.90	214.70
500-207	BULK SERVICE CHARGE	490 CFT		1.55	759.50
500-306	MILEAGE CMTG MAT DEL OR RETURN	867.13 TMI		1.18	1,023.21

KCC
MAR 4
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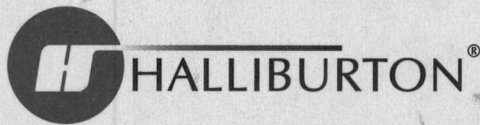
STATE OF KANSAS

MAR 9 1997

***** 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



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES, INC.

INVOICE NO.	DATE
234279	12/01/1997

WELL LEASE NO./PROJECT ROEHR 1-22		WELL/PROJECT LOCATION SEWARD		STATE KS	OWNER SAME
SERVICE LOCATION LIBERAL		CONTRACTOR	JOB PURPOSE SHOWN BELOW		TICKET DATE 12/01/1997
ACCT. NO. 273943	CUSTOMER AGENT WES WILLIMON	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 34206

ORIGINAL

DIRECT CORRESPONDENCE TO:

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

P O BOX 1598
LIBERAL KS 67901

CONFIDENTIAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL				11,040.21
	INVOICE SUBTOTAL				11,040.21
	DISCOUNT-(BID)				2,630.76
	INVOICE BID AMOUNT				8,409.45
	*-KANSAS STATE SALES TAX				311.06
	*-LIBERAL CITY SALES TAX				63.49
	*-SEWARD COUNTY SALES TAX				95.22
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$8,879.22

RELEASED

APR 09 1999

FROM CONFIDENTIAL

KCC

MAR 4

CONFIDENTIAL

MAR 9 1999

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.



CONFIDENTIAL

Halliburton Energy Services

RELEASED

APR 09 1999

ORIGINAL

FROM CONFIDENTIAL

DATE:12-01-1997 TIME:11:01:45 SERVICE TICKET: 234279
 HUGOTON-25535 BULK TICKET ONLY: 800790

JOB PURPOSE:LONG STRING
 COMPANY TRUCK::~~75817~~⁵⁷⁴² 6610 DRIVER: D.Corpeneing J.Jrost

CUSTOMER: Ensign Operating LEASE & WELL#:Roehr 1-22

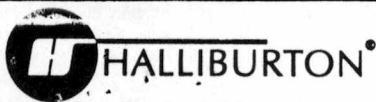
KCC
MAR 4
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504-050	PREMIUM PLUS CEMENT	150	SKS.	14.01	2101.50
504-120	HLC PREMIUM PLUS	300	SKS.	11.52	3456.00
507-210	FLOCELE	113	LBS.	1.90	214.70
500-207	SERVICE CHARGES	490	CU FT	1.55	759.50
TOTAL					6531.70
500-306	WEIGHT: 42299	MILES: 41	TON MILES: 867.13	1.18	1023.21
TOTAL BOOK PRICE OF BULK TICKET:					\$ 7554.91

500-225 RETURN SERVICE CHARGES _____ 20% COST OF RET. MATERIALS
 1.55

500-306 WEIGHT: _____ RETURN MILES: 41 TON MILES: _____ 1.18

MAR 7
 CONSERVATION DIVISION
 Wichita, Kansas



JOB SL...MARY 4239-1

TICKET # 23 279 TICKET DATE 12-1-97

REGION North America	NWA/COUNTRY	BDA / STATE KS	COUNTY Seward
MBU ID / EMP # L10002	EMPLOYEE NAME 59179 Donald Case	PSL DEPARTMENT 5861	RELEASED
LOCATION Liscuh	COMPANY Ensign Operating	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	APR 09 1999
WELL LOCATION NE of Liscuh	DEPARTMENT 901 Cement	JOB PURPOSE CODE 035 5 1/2 Prod Strg	CONFIDENTIAL
LEASE / WELL 1-22 Roche	SEC / TWP / RNG 22 / 31 S / 32 W		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
Case 59179	Company 42441		
STelrod 114817			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420041	50	4037 5742	41				
53552-78202	50						

CONFIDENTIAL

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	12-1	12-1	12-1	12-1
TIME	0930	1130	1810	1930

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Float Collar	1	Hercos
Float Shoe	1	
Guide Shoe	1	
Centralizers	6	
Bottom Plug		
Top Plug		
Head	1	
Packer	1	
Other		

WELL DATA						
	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		153	5 1/2	K13	2903	77
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			7 7/8	640	2900	SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS		
Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
		KCC		5 1/2 Prod Strg
		MAR 4		
TOTAL		TOTAL		

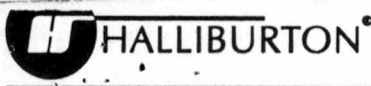
HYDRAULIC HORSEPOWER
 Avail. _____ Used _____
 AVERAGE RATES IN BPM
 Disp. _____ Overall _____
 CEMENT LEFT IN PIPE
 Reason: Stack bit

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	300	Room Plus	12WT	1/2 # Roche	2.06	12.3
	150	Room Plus		1/4 # Roche	1.32	1.06

Circulating _____ Displacement _____ Preflush: Gal - BBI 10
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI
 Average _____ Frac Gradient _____ Treatment Gal - BBI
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI 145 32
 Total Volume Gal - BBI _____

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE



JOB LR

4239-5

TICKET # 2-7777
TICKET DATE 3-1-99

REGION North America	NW/ JNTRY	BDA/STA1 K	COUNTY Searcy
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	RELEASED
TICKET AMOUNT	WELL TYPE	API / UWI #	APR 09 1999
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL #	SEC / TWP / RNG		FROM CONFIDENTIAL

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0930							Time Collected
	1200							Time Released
	1130							Time Collected
	1640							Start Pumping
	1810							Casing in Hole
	1818							Hookup to Casedate Casing
	1820							Checkdate Casing w/ Log of Pump
	1833							Hookup to Pump Track
	1836	5				200		Start 2% Gel Ahead
	1838	6.3				250		Start Max Concret
	1851		110.06			200		Start Tail Concret
	1857		35.24			200		Finish All Concret
	1858		745.52			0		Start Pump
	1859							Wash Pump's Head
	1712	6.0				150		Start Deployment
	1930	3.6	68.0			700		Plug Down
								Float Held
								Checking Cost To PTT 8/13/99

Resch log open hole
KCC
CONFIDENTIAL
MAR 4
CONFIDENTIAL

Thanks For Calling
Halliburton
Energy
Dennis Gibson
Lew

MAR 9



CHARGE TO
ADDRESS *Ensign Operating*
CITY, STATE, ZIP CODE

RELEASED CUSTOMER COPY TICKET
No. 234279 - 1
APR 09 1999
PAGE 1 OF 1

1906-Q

FROM CONFIDENTIAL

SERVICE LOCATION: 1. *25540 Licanh Ks*
2. *25535 Hugon Ks*
3.
4.

WELL/PROJECT NO. *1-22 Roche*
LEASE *Roche*
COUNTY/PARISH *Seward*
STATE *Ks*
CITY/OFFSHORE LOCATION
DATE *12-1-97*
OWNER

TICKET TYPE SERVICE SALES
NITROGEN JOB? YES NO
CONTRACTOR
RIG NAME/NO. *Anyone Dely 8*
SHIPPED VIA *Loc*
DELIVERED TO
ORDER NO.
WELL TYPE
WELL CATEGORY
JOB PURPOSE *035 5 1/2 Long 5 FT*
WELL PERMIT NO.
WELL LOCATION *NE of Licanh Ks*

REFERRAL LOCATION
INVOICE INSTRUCTIONS *02 01*

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
			LOC	ACCT	DF			U/M		U/M	
000-117			1			MILEAGE	50	miles	3	20	160
000-119			1			Crab Mileage	50	miles	1	95	97
001-016			1			Pump change		FT			1680
030-016			1				1	Ear	5 1/2	66 ⁰⁰	66
001-018			1			Additional 1/2 hrs	2	Hours		291 ⁰⁰	582
001-018			1			"	1	Hours		291 ⁰⁰	NC
12 A	825-205		1			Guide shoe	1	Ear	5 1/2	121 ⁰⁰	121
24 A	815-A251		1			Insert Float	1			121 ⁰⁰	121
27	815-A311		1			Fillup	1			76 ⁰⁰	76
50	806-60122		1			Centralizers FMI	6			84 ⁰⁰	504
66	806-72730		1			Eas Grip	1			16 ⁰⁰	16
018-303			1			Chy Fil	2	81		30 ⁵⁰	61

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

x *Wes Williamson*
DATE SIGNED *12/01/97* TIME SIGNED *3:45* A.M. P.M.

do do not require IPC (Instrument Protection) Not offered

TYPE LOCK
SUB SURFACE SAFETY VALVE WAS PULLED & RETURN PULLED RUN

BEAN SIZE
TYPE OF EQUALIZING SUB. CASING PRESSURE

DEPTH
TUBING SIZE TUBING PRESSURE WELL DEPTH

SPACERS
TREE CONNECTION TYPE VALVE

PAGE TOTAL *3485.30*
FROM CONTINUATION PAGE(S) *2554191*
Subtotal *11640.21*
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

RELEASED
APR 09 1999

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) *Wes Williamson* CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) *x Wes Williamson* HALLIBURTON OPERATING ENGINEER *L10102 Dennis Coore* EMP # *59179* HALIBURTON APPROVAL

12/16/97 OPERATIONS @ 7:00 A.M. : PBD 2848', RBP @ 2675', LOWER KRIDER PERFS 2688'-2700', HERRINGTON PERFS 2626', 2628', 2630' 2646', 2648', 1 JSPF, UPPER KRIDER PERFS 2656', 2658', 2660', 2662' & 2664', 1JSPF. FLOW TEST TO RESERVE PIT.

WORK DONE 12/15/97 (DAY 11) 40 HR SITP 150 PSIG, SICP 50 PSIG. BLEW TBG DOWN IN 1 MIN SWAB TEST THRU 2-3/8" TBG. IFL @ 2300', MADE 3 RUNS REC 3 BLW. HES TREATED HERRINGTON PERFS & KRIDER PERFS DOWN 2-3/8" TBG & TBG/CSG ANNULUS W/ 4000 GALS 28% FE ACID CONT'G 3 GAL/M SGA HT

ORIGINAL

CONFIDENTIAL

RELEASED

KCC

APR 09 1999

MAR 4

FROM CONFIDENTIAL

CONFIDENTIAL

ENSIGN OPERATING CO
ROEHR # 1-22
1250' FEL - 1250' FSL
SEC 22 - T32S - R32W
SEWARD COUNTY, KS

GL: 2821' KB: 2826'
PTD: 2800'
DRILLING CONTRACTOR CHEYENNE DRILLING INC.
RIG # 8

PROSPECT: GRAY HALLADAY
AFE NUMBER: 97D033
API: NUMBER 175-21680-0000

DRILLING REPORT

GELLING AGENT, 3 GAL/M HC-2 SURFACTANT, 1 GAL/M HAI 81 CORROSION INHIBITOR, COMINGLED W/ 50 QUALITY FOAM AS FOLLOWS.

- 1) P 3000 GALS 28% GELLED ACID COMINGLED W/ 50 QUALITY FOAM. FLUID RATE 4 BPM, N2 RATE 1950 SCFM, TOTAL RATE 8 BPM, 395 SCF/BBL, 28,500 SCF. MTP 900 PSIG, ATP 880 PSIG, AIR 8 BPM.
- 2) P 550 GALS 2% KCL COMINGLED W/ 75 QUALITY FOAM. FLUID RATE .5 BPM, N2 RATE 650 SCF/M, TOTAL RATE 2 BPM, 1300 SCF/BBL, 17,000 SCF TO DISLP[LACE STAGE 1. MTP 800 PSIG, ATP 800 PSIG, AIR 2 BPM.
- 3) LEFT WELL SI FOR 30 MIN TO ALLOW FRACTURE TO CLOSE. SICP & SITP 800 PSIG AFTER 30 MIN SI.
- 4) P 1000 GALS 28% GELLED ACID COMINGLED W/ 50 QUALITY FOAM. FLUID RATE 4BPM, N2 RATE 1950 SCF/M, TOTAL RATE 8 BPM, 395 SCF/BBL, 9,000 SCF. MTP 860 PSIG, ATP 860 PSIG, AIR 8 BPM.
- 5) P 550 GALS 2% KCL WTR COMINGLED W/ 75 QUALITY FOAM. FLUID RATE 5 BPM, N2 RATE 650 SCF/M, 1300 SCF, MTP 900 PSIG ATP 900 PSIG, AIR 2 BPM. ISIP 870 PSIG, 30 MIN SIP 575 PSIG. TLTR 96 BAW, 26 BLW.

RU FLOWLINE TO RESERVE PIT. SET ADJ CK ON 48/64". START FLOWING BACK LOAD @ 1.00 P.M. 12/15/97. AFTER 3 HRS FCP 225 PSIG, FTP 10 PSIHG. LEFT WELL FLOWING SMALL STREAM OF WTR & FOAM TO PIT O/N.
DC:\$17,100 CC:\$145,500

DRILLERS LOG

RELEASED

ENSIGN OPERATING CO.
ROEHR 1-22
SECTION 22-T32S-R32W
SEWARD COUNTY, KANSAS

ORIGINAL

APR 09 1999

FROM CONFIDENTIAL

COMMENCED: 11-29-97
COMPLETED: 12-01-97

CONFIDENTIAL

SURFACE CASING: 642' OF 8 5/8" CMTD
W/200 SKS PREMIUM PLUS LITE + 2% CC
+ 1/4 #/SK FLOCELE. TAILED IN W/100 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE.

FORMATION

DEPTH

SURFACE HOLE	0 - 642
RED BED	642 - 1140
GLORIETTA	1140 - 1300
RED BED	1300 - 2642
CHASE	2642 - 2900 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.



WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 3RD DAY OF DECEMBER, 1997.

KCC

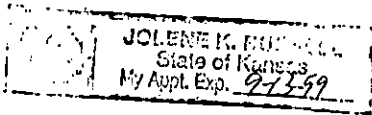
MAR 4

CONFIDENTIAL

JOLENE K. RUSSELL



NOTARY PUBLIC



APR 9 1999