

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

API NO. 15. 175-21796-0000

County Seward

NE SW NE Sec. 13 Twp. 33S Rge. 32 E

Operator: License # 04782

1700 Feet from S (circle one) Line of Section

Name: Ensign Operating Co.

1440 Feet from E/W (circle one) Line of Section

Address P. O. Box 2161

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

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

Lease Name Kane Well # 2-13

Purchaser: Duke Energy

Field Name Kismet

Operator Contact Person: Wes Willimon

Producing Formation Chase

Phone (316) 626-8131

Elevation: Ground 2749' KB 2759'

Contractor: Name: Cheyenne Drlg., Inc

Total Depth 2850' PBDT 2814'

License: 5382

Amount of Surface Pipe Set and Cemented at 630 Feet

Wellsite Geologist: NONE

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion
 New Well Re-Entry Workover

If yes, show depth set _____ Feet

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

If Alternate II completion, cement circulated from _____

feet depth to _____ ex cat.

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

Drilling Fluid Management Plan ALT 1 09/01-10-01
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 20,000 ppm Fluid volume 2875 bbls

Well Name: _____

Dewatering method used Hauled To Disposal.

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

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

Operator Name West Sun Set Disposal

Lease Name Roeher #2 License No. 32462

05/22/2000 05/25/2000 06/13/2000
Spud Date Date Reached TD Completion Date

Quarter Sec. 36 Twp. 34 S Rng. 36 E/W

County Stevens Docket No. E-25-363

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.

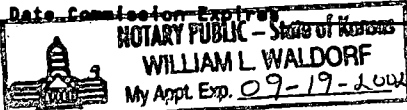
Signature Wes Willimon

Title Production Supt. Date 09/15/2000

Subscribed and sworn to before me this 15th day of Sept. 2000

Notary Public William L. Waldorf

Date Commission Expires Sept. 19th 2002



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)

Operator Name Ensign Operating Co.

Lease Name Kane

Well # 2-13

Sec. 13 Twp. 33S 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 Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Herrington	2536'	
Winfield	2666'	

List All E.Logs Run: GAMMA RAY/NEUTRON

See attached

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
(Used) Surface	12 1/4"	8-5/8"	25#	630'	Lite Class C	190 125	2% CC; 1/4#/Sx Folcele
(New) Production	7-7/8"	4 1/2"	10.5#	2856'	50/50 Poz Class C	240 150	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 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
1 JSPF	2544, 2546, 2548, 2550, & 2552'	Az w/1125 Gal. of 7.5% MCA Acid containing
1 JSPF	2576, 2578, 2580, 2582, 2584, 2586, 2588, 2590, 2592, & 2594'	30 Gal. Morflo III, 2 Gal. HC-2, & 2 Gal. HAI-81.
		(SEE ATTACHED FRAC DATA INFO)

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-3/8"	2550'	NA	

Date of First, Resumed Production, SWD or Inj. 06/13/2000 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	351	16	NA	

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 2544 - 2594'

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06/03/00 OPERATIONS @ 7:00 A.M. : PBD: 2814', HERRINGTON PERFS 1 JSPF 2544', 2546', 2548', 2550 & 2552', UPPER KRIDER PERFS 1 JSPF 2576', 2578', 2580', 2582', 2584', 2586', 2588', 2590', 2590', 2592' & 2594'. FTP 14 PSI ON 1/2" CK, SICP 160 PSIG. FLOW TEST.

KCC

WORK DONE 06/02/00 (DAY 3) 14 HR SITP 265 PSIG, SICP 265 PSIG. HES ACID FRAC HERRINGTON & UPPER KRIDER PERFS THRU 2-3/8" TBG & DOWN TBG/CSG ANNULUS AS FOLLOWS.

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- 1) P 20,000 GALS (10,000 GALS) 28% GELLED ACID COMINGLED W/ 50 QUALITY FOAM. FLUID RATE 5 BPM, N2 RATE 2430 SCFM, MTP 1002 PSIG, ATP 970 PSIG, AIR 10 BPM.
- 2) P 4000 GALS 2% KCL FLUSH COMINGLED W/ 50 QUALITY FOAM. FLUID RATE 5 BPM, N2 RATE 2450 SCF/M, MTP 1066 PSIG, ATP 1040 PSIG, AIR 10 BPM. ISIP 757 PSIIG, 15 MIN 574 PSIG, 30 MIN 533 PSIG, 45 MIN 513 PSIG & 60 MIN 499 PSIG.

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DEC 17, 2001

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STATE CORPORATION COLLECTION**

SEP 18 2000

**ENSIGN OPERATING CO
KANE # 2-13
1700' FNL - 1440' FEL
SEC 13 - T33S - R32W
SEWARD CO, KS**

**G .749' KB: 2759'
RTD: 2850'
PBD: 2814'**

**HERRINGTON PERFS: 2544', 2546', 2548', 2550 & 2552'
KRIDER 2576', 2578', 2580', 2582', 2584', 2586', 2588'
2590', 2592', 2594'**

**PRODUCTION CSG 4-1/2" 10.5#/FT, CSA 2856'
AFE NUMBER: 00D010
API: NUMBER: 1756-217960000**

COMPLETION REPORT

06/02/00 (CONT)

- 3) LEFT WELL SI FOR 60 MIN TO ALLOW FRACTURE TO CLOSE. SICP & SITP 499 PSIG AFTER 60 MIN SI.
- 4) P 8400 GALS (2800 GALS) 28% GELLED ACID COMINGLED W/ 66 QUALITY FOAM. FLUID RATE 1BPM, N2 RATE 548 SCF/M. MTP 750 PSIG, ATP 640 PSIG, AIR 3 BPM.

P 2000 GALS 2% KCL WTR(1000 GALS) COMINGLED W/ 66 QUALITY FOAM. FLUID RATE 1 BPM, N2 RATE 670 SCF/M, MTP 750 PSIG ATP 730 PSIG, AIR 3 BPM. ISIP 671 PSIG, 30 MIN SIP 617 PSIG. BAWTR 305, BLWTR 36, 170,000 SCF. INSTALL ADJUSTABLE CK. START FLOWING UP TBG THRU 32/48" CK TO SW TANK. RECOVERED 37 BLW & 5 BAW IN 4 HRS. 4 HR SICP 260 PSIG, FTP 50 PSIG. LEFT FLOWING TO FRAC TANK O/N. RECOVERED 27 BAW IN 14 HRS. 273 BAWTR.

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JOB SUMMARY

TICKET # **629147** ORDER NO. 70006
TICKET DATE **5-22-00**

REGION **North America** NWAC **USA** BDA / STATE **KJ** ORIGIN **SPWARD** COUNTY **SPWARD**

MBU ID / EMP # **MLL10103 106394** EMPLOYEE NAME **TYE MOUIS** PSL DEPARTMENT **22**

LOCATION **LIPR01 K** COMPANY **Cheyenne MINING** CUSTOMER REP / PHONE **Bruce Escudero**

TICKET AMOUNT _____ WELL TYPE **02** API / UWI # _____

WELL LOCATION **L911 E. LIPR01** DEPARTMENT **22** SEP 15 2000 JOB PURPOSE CODE **010**

LEASE / WELL # **Kamp. 2-13** SEC / TWP / RNG _____

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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
T. OUV 106394							
S. FAYE 106994							
K. MOUIS 204458							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
54218-78202	20						
52417-6619	20						

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

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar 8 5/8	1	H
Float Shoe		U
Guide Shoe		
Centralizers 54 1"	3	
Bottom Plug		W
Top Plug 3W 1"	1	
Head P.C.	1	C
Packer		
Other		0

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		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	5-22-00	5-22-00	5-22-00	5-22-03
TIME	1200	1500	1800	1900

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U.	25	8 5/8	108	637	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				CMT
				8 5/8
				S.P.
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED Disp. _____ Overall _____

CEMENT LEFT IN PIPE

FEET **47** Reason **S.T**

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	190	PFLT	B	22cc 1/4" Floccle.	2.06	12.7
1	125	PT	B	22cc 1/4" Floccle.	1.32	14.2

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI Gal **37.2**
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI **70 L.G.** **29 L.G.**
 Total Volume Gal - BBI _____

REGION North America	WVA/COUNTRY	BDA / STATE ORIGINAL	COUNTY
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL #	SEC / TWP / RNG		

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
200458			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1230							Called out for job.
	1501							On loc. Kill drilling.
	1545							Start SBP.
	1630							out of hole with kill up to 2000 ft CSY.
	1700							Start 8" CSY & F.F. RELEASED
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	1747							CSY on 130 ft hook up 8" F.F. 3000 ft CSY.
	1753							Unit size with.
1805								Then cell hook down to pit.
1808								5.1 FPS IRON.
	1811	6.5	70		✓	100		Pump 190x pt at 12.3"
	1823	6.5	29		✓	140		Pump 125x pt at 14.5"
	1828	0	99		✓	0		Shut down 130x pt
	1829	6.0	37.2		✓	80		Pump 115x
	1835	5.0	37.2		✓	120		20 bbls in cell to pit
	1837	2.0	37.2		✓	120		30 bbls in cell rate.
	1840	2.0	37.2		✓	15750		Lead plug.
	1842	0	37.2		✓	250		Shut in pit.
	1900				✓			Job over
								17 bbl cell size to pit
								465x cell size to pit



Halliburton Energy Services, Inc.

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ENSIGN OPERATING COMPANY
 1225 SEVENTEENTH STREET SUITE 1900
 DENVER CO 80202
 USA

WELL OPERATOR
ENSIGN OPER. KANE 2-13, SEWARD
 LEASE NAME / OFFSHORE AREA
KANE
 WELL NUMBER
2-13
 WELL PERMIT NO.
SEC13-33S-32W
 ADDRESS
 *
 CITY, STATE, ZIP CODE
LIBERAL KS 67901 US

ORIGINAL

TICKET TYPE	COMPANY CODE	HALLIBURTON ORDER NO.
Services	1100	639465
CUSTOMER P.O. NO.	JOB DATE	PRIMARY SERVICE LOC.
N/A	05/24/2000	Liberal, KS, USA

SALES OFFICE	WELL TYPE	WELL CATEGORY	RIG NAME / NO.
Mid-Continent BD	Oil	Development	ENSIGN OPERATING COMPANY

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
10	7523	PSL-CMT CEMENT PRODUCTION CASING-BOM Liberal, KS, USA Hwy 54 West JP035	1.00	JOB	0.00	0.00
20	1	MILEAGE FROM NEAREST HES BASE,/UNIT Liberal, KS, USA Hwy 54 West	20	MI	4.05	81.00
			20	MI	1.62-	32.40-
			20	MI	2.43	48.60
		000-117				
		With the following configuration: Number of Units	1	unit		
30	2	MILEAGE FOR CEMENTING CREW,ZI Liberal, KS, USA Hwy 54 West	20	MI	2.38	47.60
			20	MI	0.95-	19.04-
			20	MI	1.43	28.56
		000-119				
		With the following configuration: Number of Units	1	unit		

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INVOICE INSTRUCTIONS	
PAYMENT TERMS	HALLIBURTON APPROVAL
Net due in 20 days	
HALLIBURTON OPERATOR / ENGINEER	CUSTOMER SIGNATURE

TOTAL FROM THIS PAGE	77.16
TOTAL FROM NEXT PAGE(S)	6,445.36
SUBTOTAL	6,522.52
TAXES	376.12
GRAND TOTAL	6,898.64
	US Dollars

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ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	PRICE	AMOUNT
40	16091	CSG PUMPING,0-4 HRS,ZI				
		Liberal, KS, USA Hwy 54 West	1.00	EA	1,962.00	1,962.00
			1.00	EA	784.80-	784.80-
			1.00	EA	1,177.20	1,177.20
		001-016				
		CSG PUMPING,0-4 HRS,ZI				
		With the following configuration:				
		DEPTH	2,850			
		FEET/METRES (FT/M)		FT		
50	86954	FUEL SURCHG-CARS/PICKUPS<1 1/2TON/PER/MI				
		Liberal, KS, USA Hwy 54 West	20	MI	0.08	1.60
		FUEL SURCHG-CARS/PICKUPS<1 1/2TON/PER/MI				
		With the following configuration:				
		Number of Units	1	unit		
60	86955	FUEL SURCHG-HEAVY TRKS >1 1/2 TON/PER MI				
		Liberal, KS, USA Hwy 54 West	20	MI	0.24	4.80
		FUEL SURCHG-HEAVY TRKS >1 1/2 TON/PER. MI				
		With the following configuration:				
		Number of Units	1	unit		
70	132	PORTABLE DAS,/DAY/JOB,ZI				
		Liberal, KS, USA Hwy 54 West	1.00	JOB	829.00	829.00
			1.00	JOB	331.60-	331.60-
			1.00	JOB	497.40	497.40
		045-050				
		With the following configuration:				
		NUMBER OF DAYS	1	Days		
80	7	ENVIRONMENTAL SURCHARGE,/JOB,ZI				
		Liberal, KS, USA Hwy 54 West	1.00	JOB	60.00	60.00
		000-150				
90	100003140	PLUG - CMTG - TOP ALUM - 4-1/2				
		Liberal, KS, USA Hwy 54 West	1.00	EA	53.15	53.15
			1.00	EA	21.26-	21.26-
			1.00	EA	31.89	31.89

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ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
		402.1502 PLUG - CMTG - TOP ALUM - 4-1/2 9.5-15.1#				
100	100004722 Liberal, KS, USA Hwy 54 West	SHOE - GUIDE - 4-1/2 8RD	1.00	EA	105.00	105.00
			1.00	EA	42.00-	42.00-
			1.00	EA	63.00	63.00
		12A - 825.201 SHOE - GUIDE - 4-1/2 8RD				
110	100004698 Liberal, KS, USA Hwy 54 West	V ASSY,INSR FLOAT,4 1/2,8RD,10.5,15.1#	1.00	EA	110.00	110.00
			1.00	EA	44.00-	44.00-
			1.00	EA	66.00	66.00
		24A815.19101 VALVE ASSY - INSERT FLOAT - 4-1/2 8RD 10.5-15.1#				
120	100013930 Liberal, KS, USA Hwy 54 West	FILUP ASSY,1.250 ID,4 1/2,5 IN INSR	1.00	EA	60.00	60.00
			1.00	EA	24.00-	24.00-
			1.00	EA	36.00	36.00
		27815.19113 FILLUP ASSY - 1.250 ID - 4-1/2 - 5 IN. INSERT FLOAT VALVE				
130	100004491 Liberal, KS, USA Hwy 54 West	CTRZR ASSY,TURBO,API,4 1/2 CSG X 7 7/8	6.00	EA	70.00	420.00
			6.00	EA	28.00-	168.00-
			6.00	EA	42.00	252.00
		40 806.60104 CENTRALIZER ASSY - TURBO - API - 4-1/2 CSG X 7-7/8 HOLE - HINGED - W/WELDED IMPERIAL BOWS AND FLUID DEFLECTOR FINS				

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HALLIBURTON ORDER NO: 639465 Cont. ENSIGN OPERATING

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ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
140	100004638 Liberal, KS, USA Hwy 54 West	CLAMP-LIMIT-4 1/2-FRICT-W/DOGS	1.00	EA	17.65	17.65
			1.00	EA	7.06-	7.06-
			1.00	EA	10.59	10.59
			XXXXXXXX 806.72720			
		CLAMP - LIMIT - 4-1/2 - FRICTION - W/DOGS				
150	100005045 Liberal, KS, USA Hwy 54 West	HALLIBURTON WELD-A KIT	1.00	EA	18.43	18.43
			1.00	EA	7.37-	7.37-
			1.00	EA	11.06	11.06
			HALLIBURTON WELD-A KIT			
160	14239 Hugoton, KS, USA	SBM PREMIUM PLUS 50/50 POZ	240.00	SK	11.27	2,704.80
			240.00	SK	4.51-	1,081.92-
			240.00	SK	6.76	1,622.88
			504-132			
200	100012205 Hugoton, KS, USA	Cement- Class C / Premium (Bulk)	150.00	SK	16.68	2,502.00
			150.00	SK	6.67-	1,000.80-
			150.00	SK	10.01	1,501.20
			504-050516.00265			
		CEMENT - CLASS C - PREMIUM - BULK				
210	100005049 Hugoton, KS, USA	Chemical - Flocele (25 lb sk)	60.00	LB	2.22	133.20
			60.00	LB	0.89-	53.28-
			60.00	LB	1.33	79.92
			XXXXXXXX 890.50071			
		FLOCELE - 3/8 - 25 LB SACK				
220	100001585 Hugoton, KS, USA	CHEMICAL - KCL POTASSIUM CHLORIDE (50 #)	100.00	LB	0.46	46.00
			100.00	LB	0.18-	18.40-
			100.00	LB	0.28	27.60

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ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
		70.15302 CHEMICAL - KCL POTASSIUM CHLORIDE - 50 LB SACK OR BAG				
230	87605 Hugoton, KS, USA	FUEL SURCHG-CMT & CMT ADDITIVES/PER TNM 347.000 TNM			0.08	27.76
		FUEL SURCHG-CMT & CMT ADDITIVES/PER TNM With the following configuration: NUMBER OF TONS		1.00 ton		
240	3965 Hugoton, KS, USA	HANDLE&DUMP SVC CHRГ, CMT&ADDITIVES,ZI 500-207	401.00 401.00 401.00	CF CF CF	1.76 0.70- 1.06	705.76 282.30- 423.46
		With the following configuration: NUMBER OF EACH		1 each		
250	3975 Hugoton, KS, USA	MILEAGE,CMTG MTLs DEL/RETURNED,ZI 500-306	347.0 347.0 347.0	TMI TMI TMI	1.39 0.56- 0.83	482.33 192.93- 289.40
		With the following configuration: NUMBER OF TONS		1.00 ton		
260	3 Liberal, KS, USA Hwy 54 West	DERRICK CHARGE 000-121	1.00 1.00 1.00	EA EA EA	436.00 174.40- 261.60	436.00 174.40- 261.60
		INVOICE AMOUNT				6,522.52
		Sales Tax - State				288.49
		Sales Tax - County				28.74
		Sales Tax - City/Loc				58.89
		INVOICE TOTAL				6,898.64
						US Dollars

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DEC 17 2001
RELEASE

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SOLD TO

SHIP TO

Halliburton Energy Services, Inc.

ENSIGN OPERATING COMPANY
1225 SEVENTEENTH STREET SUITE 1900
DENVER CO 80202
USA

WELL OPERATOR
ENSIGN OPER. KANE 2-13, SEWARD
LEASE NAME / OFFSHORE AREA
KANE
WELL NUMBER
2-13
WELL PERMIT NO.
SEC13-33S-32W
ADDRESS
*
CITY, STATE, ZIP CODE
LIBERAL KS 67901 US

ORIGINAL

TICKET TYPE	COMPANY CODE	HALLIBURTON ORDER NO.
Services	1100	639465
CUSTOMER P.O. NO.	JOB DATE	PRIMARY SERVICE LOC.
N/A	05/24/2000	Liberal, KS, USA

SALES OFFICE	WELL TYPE	WELL CATEGORY	RIG NAME / NO.
Mid-Continent BD	Oil	Development	ENSIGN OPERATING COMPANY

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
10	7523	PS-CMT CEMENT PRODUCTION CASING-BOM Liberal, KS, USA Hwy 54 West JP035	1.00	JOB	0.00	0.00
20	1	MILEAGE FROM NEAREST HES BASE,/UNIT Liberal, KS, USA Hwy 54 West	20	MI	4.05	81.00
			20	MI	1.62-	32.40-
			20	MI	2.43	48.60
		000-117				
		With the following configuration: Number of Units	1	unit		
30	2	MILEAGE FOR CEMENTING CREW,ZI Liberal, KS, USA Hwy 54 West	20	MI	2.38	47.60
			20	MI	0.95-	19.04-
			20	MI	1.43	28.56
		000-119				
		With the following configuration: Number of Units	1	unit		

FROM CONFIDENTIAL

DEC 17 2001

RELEASED

KCC
SEP 15 2000
CONFIDENTIAL

INVOICE INSTRUCTIONS	HALLIBURTON APPROVAL
PAYMENT TERMS Net due in 20 days	CUSTOMER SIGNATURE x <i>Temp Maxwell</i>
HALLIBURTON OPERATOR / ENGINEER <i>Nick Karbe</i>	

TOTAL FROM THIS PAGE	77.16
TOTAL FROM NEXT PAGE(S)	6,351.76
SUBTOTAL	6,428.92
TAXES	369.19
GRAND TOTAL	6,798.11
	US Dollars

7066.11

CONFIDENTIAL

ORIGINAL

HALLIBURTON
CONFIDENTIAL **JOB SUMMARY** ORDER NO. 70006
 TICKET # **639465** TICKET DATE **5-25-00**
 REGION **North America** NWA/COUNTRY **MidCont USA** BDA / STATE **KO** ORIGINAL COUNTY **Steward**
 MBU ID / EMP # **MCL10110 106328** EMPLOYEE NAME **Nick Korbe** PSL DEPARTMENT **21**
 LOCATION **Liberal** COMPANY **Ensign Operating** CUSTOMER REP / PHONE **Terry Maxwell/KCC**
 TICKET AMOUNT **\$6798.11** WELL TYPE **01** API / UWI # _____
 WELL LOCATION **12E, 3N of Liberal** DEPARTMENT **Cement** JOB PURPOSE CODE **035**
 LEASE / WELL # **Kane 2-13** SEC / TWP / RNG **13-335-32W** SEP 2000
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
N. Korbe 106328 15			
R. Ferguson 106154 15			
J. Lopez 198514 14			
K. Mausemer 14			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
421270	36						
54038/22941	36						
54029/6610	105						
52947/75819	105						

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

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar insert	1	H
Float Shoe filltube	1	O
Guide Shoe egg	1	W
Centralizers 5-4	6	C
Bottom Plug		
Top Plug 5W Alum	1	O
Head fasgrip	1	
Packer		
Other		

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		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	5-24-00	5-24-00	5-24-00	5
TIME	1930	2230		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	10.5	4 1/2	0	2861	2500
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						
Perforations						
Perforations						
Perforations						

RELEASED
 DEC 17, 2001
 SHOTS/FT. _____
 FROM CONFIDENTIAL

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
5-24-00	2 1/2 hrs	5-25-00	1 hr	035
5-25-00	12 1/2 hrs			
TOTAL	15 hrs	TOTAL	1 hrs	

HYDRAULIC HORSEPOWER
 ORDERED _____ Avail. _____ Used _____
AVERAGE RATES IN BPM
 TREATED _____ Disp. _____ Overall _____
CEMENT LEFT IN PIPE
 FEET **41** Reason **shift.**

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
L	240	50Koz "C"	B	2% gel, 1/2 flocc	193	12.2
T	150	Prent "C"	B	Neat	132	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 **45**
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI **83/35**
 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

ORDER NO. 70006

TICKET #	639465	TICKET DATE	5-25-00
BDA / STATE	KJ RIGGIN	COUNTY	Seward
PSL DEPARTMENT	21		
CUSTOMER REP / PHONE	Terry Maxwell/KCC		
API / UWI #			
JOB PURPOSE CODE	035		

REGION	North America	COUNTRY	MidCont U.S.A.
MPU ID / EMP #	MCL1010 106328	EMPLOYEE NAME	Nick Karbe
LOCATION	Liberal	COMPANY	Ensign Operating
TICKET AMOUNT	\$6798.11	WELL TYPE	01
WELL LOCATION	NE 3N of Liberal	DEPARTMENT	Cement
LEASE / WELL #	Kane 2-13	SEC / TWP / RNG	13-33S-32W

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
N. Karbe 106328	15						
B. Ferguson 106154	15						
J. Lopez 106514	14						
K. Mauson	14						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psl)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1930							called out
	2130							40 lbs Held safety mtg
								rig stuck on bottom
	0700							RELEASED
	1009							st FE 27jts in hole; try to circ down on bottom circ
								DEC 17, 2001
								FROM CONFIDENTIAL
	1027					2000		Test lines
	1030	4	0			125		st spacer
	1032	5.5	10/0			150		st lead cmt 240 sks @ 12.2 #
	1049	5.5	83/0			100		st Tail cmt 150 sks @ 14.5 #
	1056		35					end cmt
	1058							wash pump & lines
	1102							rel plug
	1103	6	0			50		st. disp
	1108	6	16			200		catch cmt
	1110	2	35			250		slow rate
	1114	2	45			450		Bump plug
	1115							rel plug flat held

Job complete
Thank you
Nick & crew

CONFIDENTIAL

ORIGINAL



HALLIBURTON

Work Order Contract

KCC

SEP 5 8 00 AM Order Number

639465

Halliburton Energy Services, Inc. Houston Texas 77056

CONFIDENTIAL

70012 SAP

TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BELOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING:

Well No. 2-13	Farm or Lease Kane	County Seward	State KS	Well Permit # DEC 17 2001
Customer Easign Operating		Well Owner Same	Job Purpose 0.35	

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

- A. CUSTOMER REPRESENTATION - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton Energy Services, Inc. (hereinafter "Halliburton").
- B. PRICE AND PAYMENT - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. 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 the 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, or Halliburton's actual attorneys fees, whichever is greater, plus all collection and court costs. Customer agrees that the amount of attorney fees set out herein are reasonable and necessary.
- C. RELEASE AND INDEMNITY - Customer agrees to RELEASE Halliburton Group from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by Customer and those persons and entities Customer has the ability to bind by contract or which are co-interest owners or joint ventures with Customer. Customer also agrees to DEFEND, INDEMNIFY, AND HOLD Halliburton Group HARMLESS from and against any and all liability, claims, costs, expenses, attorney fees and damages whatsoever for personal injury, illness, death, property damage and loss resulting from:

loss of well control; services to control a wild well whether underground or above the surface; reservoir or underground damage, including loss of oil, gas, other mineral substances or water; surface damage arising from underground damage; damage to or loss of the well bore; subsurface trespass or any action in the nature thereof; fire; explosion; subsurface pressure; radioactivity; and pollution and contamination and its cleanup and control.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations will apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of one or more members of the Halliburton Group, the unseaworthiness of any vessel or any defect in the data, products, supplies, materials or equipment furnished by any member or members of the Halliburton Group whether in the design, manufacture, maintenance or marketing thereof or from a failure to warn of such defect. "Halliburton Group" is defined as Halliburton Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants and agents. Customer's RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations apply whether the personal injury, illness, death, property damage or loss is suffered by one or more members of the Halliburton Group, Customer, or any other person or entity. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insureds on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.

EQUIPMENT LIABILITY - Customer shall at its risk and expense attempt to recover any Halliburton Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton Group. Customer shall be responsible for damage to or loss of Halliburton group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton group equipment damaged by corrosion or abrasion due to well effluents.

LIMITED WARRANTY - Halliburton warrants only title to the equipment, products, and materials supplied under this Contract and that same are free from defects in workmanship and materials for thirty (30) days from the date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON GROUP. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

GOVERNING LAW - The validity, interpretation and construction of this Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

DISPUTE RESOLUTION - Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules of the American Arbitration Association. The arbitration will take place in Houston, TX.

SEVERABILITY - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

MODIFICATIONS - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 4100 Clinton Drive, Houston, TX, 77020.

I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED: x Terry Maxwell CUSTOMER Authorized Signatory DATE: 5-25-00 TIME: 0600 A.M.P.M.

Customer Acceptance of Materials and Services

THE CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ON THE ATTACHED ORDER NUMBER 639465

x Terry Maxwell CUSTOMER Authorized Signatory

White-Office

Canary-Field Office

Pink-Customer

Green-Retain