

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

RELEASED

FEB 28 2001

CONFIDENTIAL

API NO. 15- 175 21783 0000 ORIGINAL

County Seward

C - N2 - NE - Sec. 14 Twp. 33 Rge. 32 E X W

Operator: License # 04782

Name: Ensign Operating Co.

Address P. O. Box 2161

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

Purchaser: Duke Energy

Operator Contact Person: Wes Willimon

Phone (316) 626-8131

Contractor: Name: Cheyenne Drlg., Inc.

License: 5382

Wellsite Geologist: None

Designate Type of Completion
 New Well Re-Entry Workover

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

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

Operator: FEB 17 2000

Well Name: CONFIDENTIAL

Comp. Date Old Total Depth

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

11/19/99 11/21/99 01/19/2000
Spud Date Date Reached TD Completion Date

660 Feet from S (circle one) Line of Section

1,320 Feet from E (circle one) Line of Section

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

Lease Name City of Liberal Well # 1-14

Field Name Kismet

Producing Formation Chase Group

Elevation: Ground 2783 (2795 E.L.G.) 2788 (2791 E.L.G.)

Total Depth 2825 PBSD 2779

Amount of Surface Pipe Set and Cemented at 661 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 cmt.

Drilling Fluid Management Plan ALT 1 3/27/01 (B)
(Data must be collected from the Reserve Pit)

Chloride content 7,800 ppm Fluid volume 6,500 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 Wes Willimon

Title Production Supt. Date Feb. 17th, 2000

Subscribed and sworn to before me this 17th day of February, 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)

NOTARY PUBLIC - State of Kansas
WILLIAM L. WALDORE
My Appt. Exp. 09-19-2002

Operator Name Ensign Operating Co. Lesse Name City of Liberal Well # 1-14
 Sec. 14 Twp. 33 Rge. 32 East West
 County Seward

CONFIDENTIAL

INSTRUCTIONS: Show important tops and base of formations penetrated. 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.)

Name	Top	Datum
Herrington	2591'	+197
Upper Krider	2626'	+162
Lower Krider	2658'	+130
Winfield	2724'	+ 64

List All E.Logs Run: GR - Neutron Only
Bond Log

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#	661'	Class C Lite	125 180	2%CC, 1/4#/Sx Flo
Production	7-7/8"	4 1/2"	10.5#	2825'	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	2596, 2598, 2600, 2608, 2629, 2635, 2638, 2641, 2644, 2669, 2671, 2673, 2675, & 2685.	AZ w/1125 Gals. 7 1/2% MCA(75 Gals./ft) w/30 Gals.Morflo III, 2 Gal. HC-2, 2 Gal./HAI-81, 10% Ferchek.
		Foam Frac'ed w/11,214 28% HCL Acid & 150,000 SCF N2.

TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2-3/8"	2711'	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Recorded Production: SWD or LK		Producing Method		<input type="checkbox"/> Flowing <input checked="" 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		50	20		N/A	.70

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: 2596 - 2685'

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ORIGINAL

DRILLER'S LOG

RELEASED
FEB 28 2001

FROM CONFIDENTIAL

ENSIGN OIL & GAS, INC.
CITY OF LIBERAL #1-14
SECTION 14-T33S-R32W
SEWARD COUNTY, KANSAS

COMMENCED: 11-19-99
COMPLETED: 11-21-99

KCC

FEB 17 2000

CONFIDENTIAL

SURFACE CASING: 661' OF 8 5/8" CMTD
W/180 SKS 35:65 POZ + 6% GEL + 2%CC +
1/4#/SK FLOCELE. TAILED IN W/125 SKS
CLASS C + 3% CC + 1/4#/SK FLOCELE.

FORMATION	DEPTH
SURFACE HOLE	0 - 661
RED BED	661 - 1050
GLORIETTA	1050 - 1190
RED BED	1190 - 2535
CHASE	2535 - 2825 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


WRAY VALENTINE

STATE OF KANSAS: ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 22ND DAY OF NOVEMBER, 1999.

JOLENE K. RUSSELL

Jolene K. Russell
NOTARY PUBLIC

 JOLENE K. RUSSELL
Notary Public - State of Kansas
My Appt. Expires 9-13-03

RECEIVED
STATE CORPORATION COMMISSION

FEB 22 2000

CONSERVATION DIVISION
Wichita, Kansas

API 15-175-21783-00-00

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RELEASED

Schlumberger

Dowell

FEB 23 2000

Dowell a Division of Schlumberger Technology Corporation
 204 S Missouri
 Ulysses, KS 67880
 Tel: 316 356 1272
 Fax: 316 356 1911

FROM CONFIDENTIAL

INVOICE

COPY

Service Date	11/19/1999	Job Number	20133169	Invoice Date	11/21/1999	Invoice	9090395788
Bill To: CHEYENNE DRILLING 3728 WEST JONES AVENUE GARDEN CITY KS 67846				Remit To: Dowell a Division of Schlumberger Technology Corporation PO Box 201556 Houston TX 77216-1556			
<p style="text-align: center;">KCC FEB. 7 2000 CONFIDENTIAL</p>				Tax Registration Number: 22-1692661 We can invoice you EDI. Call (281) 285 4230 for more information.			
Terms 30 Days Net				Service Description DW Cementing-Case,Cement Surface			
Customer PO		Contract		AFE		Price Reference Dowell US	
Well CITY OF LIBERAL 1-14		State KS		County/Parish/Block Seward		Legal Location SEC:14 T:33 R:32	
Field		Customer or Authorized Representative Domoso Castillo				Nig CHEYENNE 8	

Item	Description	Quantity	List Price	Disc	Net Price	Net Amount
49100000	Service Chg Cement Matl Land All DW Fur	332.000 CF	1.85	-45.000 %	1.0175	337.81
49102000	Transportation Cement Ton Mile	586.000 MI	1.33	-45.000 %	0.7315	428.66
59200002	Mileage, All Other Equipment	40.000 MI	3.47	-45.000 %	1.9085	76.34
59697000	PACR Treatment Analysis Recorder	1.000 JOB	220.00	-45.000 %	121.0000	121.00
102871010	Casing Cmnt 501-1000' 1st 6hr *Sub-Total Services	1.000 EA	1,034.00	-45.000 %	568.7000	568.70 1,532.51
53003085	Insert, Orifice Fill	1.000 EA	440.00	-45.000 %	242.0000	242.00
56011085	Centralizer, Regular	3.000 EA	99.00	-45.000 %	54.4500	169.35
56704085	Plug, Top Rubber Alum Core	1.000 EA	209.00	-45.000 %	114.9500	114.95
D020	Bentonite Extender D20	959.000 LB	0.20	-45.000 %	0.1100	105.49
D029	Callophane Flakes D29	76.000 LB	2.02	-45.000 %	1.1110	84.44
D132	Extender, Cement D132	4,977.000 LB	5.17	-44.960 %	0.0360	179.27
D903	Cement, Class C D903	242.000 CF	12.03	-45.000 %	6.8165	1,601.19
K232	Thread Locking Compound Kit K232	1.000 EA	34.00	-45.000 %	18.7000	18.70
S001	Calcium Chloride 77% S1 *Sub-Total Products	555.000 LB	0.51	-45.000 %	0.2805	155.66 2,665.07
*Total before tax						4,197.58
*Tax, USState/CanGST 4.900%						151.60
*Tax, US City 1.000%						30.93
*Total Amount Due on or Before 12/21/19 PAYABLE IN USD FUNDS						4,380.11

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CONSERVATION DIVISION
Wichita, Kansas

Please reference invoice number 9090395788 on payment.

Thank-you for calling Dowell

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MAR 23 2001

Schlumberger

Service Authorization

FROM CONFIDENTIAL

19-Nov-99

Dowell

Dowell, A Division of Schlumberger Technology Corp.
204 S Missouri
Ulysses, KS

Job Number
211510

Invoice Mailing Address:
CHEYENNE DRILLING

3728 WEST JONES AVENUE
GARDEN CITY, KS 67846
US

KCC
FEB 17 2000
CONFIDENTIAL

ARRIVE LOCATION 11/19/99 3:00 PM

Service Instructions
Safety cement Cement 656 Surface Casing As requested with :
180 SK LEAD @ 12.3 PPG
125 SK TAIL @ 14.8 PPG

Service Description
Cementing - Cem Surface Casing

Customer PO 0	Contract 0	API 0	Rig CHEYENNE 8
Well CITY OF LIBERAL 1-14	State/Province KS	County/Parish/Block SEWARD	Legal Location SEC 1433S-32W
Field	Customer or Authorized Representative Domoso Castillo		

Dowell will furnish and customer shall purchase materials and services required in the performance of the following service instructions in accordance with the general terms and conditions as printed on the reverse side of this service order and/or attached to this service order.

Comments

Service Order/ authorize work to begin as per service instructions in accordance with terms and conditions printed on the reverse side of this form and/or attachment to this form and represent that I have authority to accept and sign this order

Signature of Customer or Authorized Representative

Noel Perez
Domoso Castillo

Signature of Dowell Representative

Jeffrey Dutton

Thank you for Calling Dowell

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Wichita, Kansas

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MAR 28 2001 FEB 17 2000

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Cementing Service Report

Schlumberger
Dowell

CHEYENNE DRILLING
20133159

Well		Location (Legal)		Dowell Location		Job Start	
CITY OF LIBERAL 1-14		SEC 14-336-32W		Ullyses, KS		11/19/99	
Field		Formation Name/Type		Deviation		Well TVD	
		SURFACE		0		650 ft	
County		State/Province		BHP		Pore Pres. Gradient	
SEWARD		KS		psi		psi/ft	
Rig Name		Drilled For		Service Via		Casing/Liner	
CHEYENNE 8		Gas		Land			
Offset Zone		Well Class		Well Type		Depth, ft	
		New		Development		650	
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe	
Bentonite		9.2 lb/gal		32 cp		Depth, ft	
Service Line		Job Type		Depth, ft		Size, in	
Cementing		Cem Surface Casing		0		24	
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure		Wellhead Connection		Grade	
psi		psi		8 5/8 HS8M		Thread	
Service Instructions		Top, ft		Bottom, ft		No. of Shots	
Safely cement Cement 85/6 Surface Casing As requested with : 180 SK LEAD @ 12.3 PPG 125 SK TAIL @ 14.8 PPG						Total Interval	
						ft	
		Treat Down		Displacement		Packer Type	
		Casing		36 bbl		None	
		Tubing Vol.		Casing Vol.		Packer Depth	
		0 bbl		40 bbl		ft	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure: 267 psi		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Other		Squeeze Type	
No. Contractors: 3		Top Plugs: 1		Bottom Plugs: 0		Shoe Depth: 650 ft	
Cement Head Type: Single		Stage Tool Type		Tool Depth: 0 ft		Stage Tool Depth: 0 ft	
Job Scheduled For: 11/19/99 15:00		Arrived on Location: 11/19/99 15:00		Leave Location: 11/19/99 19:30		Tail Pipe Size: 0 in	
		Cement Type: Auto-Fill		Tail Pipe Depth: 0 ft		Collar Depth: ft	
		Squeeze Total Vol: 0 bbl					
Time	Cumulative	Density	Pressure	Temperature	Tool Joint	Message	
24 H Clock	Vol	PPG	psi	Fem	psi		
17:52	0	0	0	0	0	START ACQUISITION	
17:52	0.	-6.25	-3727	0.	0.		
17:53	5.75	8.39	141.9	5.7	5.75		
17:54	5.75	8.39	141.9	5.7	5.75	[CumVol]=8.62 bbl	
17:54	5.75	8.39	141.9	5.7	5.75	Reset Volume	
17:54	5.75	8.39	141.9	5.7	5.75	Start Mixing Lead Slurry	
17:54	2.79	12.75	206.	5.73	11.5		
17:55	3.53	12.33	206.	5.7	17.25		
17:56	14.27	12.36	192.3	5.7	22.99		
17:57	20.02	12.36	183.2	5.7	28.73		
17:58	25.76	12.13	164.8	5.73	34.48		
17:59	31.51	12.05	151.1	5.7	40.23		
18:00	37.26	12.48	151.1	5.73	45.97		
18:01	43.	12.55	146.5	5.73	51.71		
18:02	48.74	12.67	146.5	5.7	57.46		
18:03	54.48	12.23	137.4	5.73	63.2		
18:04	60.23	12.29	141.9	5.73	68.94		
18:05	65.98	12.45	132.8	5.7	74.69		
18:06	71.72	12.3.	132.8	5.7	80.44		
18:07	71.72	12.3	132.8	5.7	80.44	[CumVol]=72.3 bbl	
18:07	71.72	12.3	132.8	5.7	80.44	Reset Volume	
18:07	71.72	12.3	132.8	5.7	80.44	End Lead Slurry	

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FEB 22 2000
CONSERVATION DIVISION
Wichita, Kansas

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ORIGINAL

MAR 28 2001

Well		Field				Service Date	Operator	Job Number
CITY OF LIBERAL #1-14							CHEYENNE DRILLING	20133100
Time	Qwt/Pl	Density	Pressure	Temperature	Yield	Message		
24 hr clock	bbf	ppg	psi	°F	bbf			
18:07	71.72	12.3	132.8	5.7	80.44	0	0	Start Mixing Tail Slurry
18:07	5.07	14.87	192.3	5.7	86.18	0	0	
18:08	10.82	14.87	192.3	5.7	91.93	0	0	
18:09	16.56	15.03	178.6	5.73	97.67	0	0	
18:10	22.3	14.74	178.6	5.7	103.4	0	0	
18:11	28.05	14.75	169.4	5.7	109.2	0	0	
18:12	33.79	14.96	169.4	5.7	114.9	0	0	
18:13	33.79	14.96	169.4	5.7	114.9	0	0	Shutdown
18:13	39.2	15.35	9.16	0.	120.3	0	0	
18:14	39.2	15.35	9.16	0.	120.3	0	0	Drop Top Plug
18:14	39.2	15.35	9.16	0.	120.3	0	0	Start Displacement
18:14	39.2	15.35	9.16	0.	120.3	0	0	(Cum Vol)=39.2 bbl
18:14	39.2	15.35	9.16	0.	120.3	0	0	Reset Volume
18:14	3.04	10.11	105.3	5.7	123.4	0	0	
18:15	8.79	8.52	73.26	5.7	129.1	0	0	
18:16	14.53	8.35	87.	5.7	134.8	0	0	
18:17	20.27	8.39	109.9	5.73	140.6	0	0	
18:18	20.27	8.39	109.9	5.73	140.6	0	0	Start Sensor Check
18:18	20.27	8.39	109.9	5.73	140.6	0	0	Returns at Surface
18:18	26.02	8.1	146.5	5.7	146.3	0	0	
18:19	31.49	7.91	119.	2.26	151.8	0	0	
18:20	31.49	7.91	119.	2.26	151.8	0	0	Lower Pump Rate
18:20	33.74	8.4	100.7	2.24	154.1	0	0	
18:21	35.99	8.4	141.9	2.24	156.3	0	0	
18:22	36.88	8.41	155.7	0.	157.2	0	0	
18:23	36.88	8.41	155.7	0.	157.2	0	0	Bump Top Plug
18:23	36.88	8.41	105.3	0.	157.2	0	0	
18:25	37.26	8.4	128.2	1.65	157.6	0	0	
18:26	38.14	8.4	-4.58	0.	158.4	0	0	
18:27	39.14	8.36	210.6	5.68	159.5	0	0	

KCC
FEB 17 2000
CONFIDENTIAL

Post Job Summary

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	M2	MWD	Maximum Rate	Total Slurry	Mud	Spacer	M2
5.5	0	0	5.6	112	0	10	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
1000	1000	140	1000	0		0 bbl	0 lb/gal
Avg. M2 Percent	Designated Slurry Volume	Displacement	MW Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 23 bbl <input type="checkbox"/> Washed Three Ports To 0 ft			
0 %	99 bbl	36 bbl	70 °F				
Customer or Authorized Representative			Downhole Supervisor		<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		
Domoso Castillo			Jeffrey Dutton				

APL 15-175-21783-00-00

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Wichita, Kansas

Schlumberger

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Cementing Job Report

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FRISM V2.23

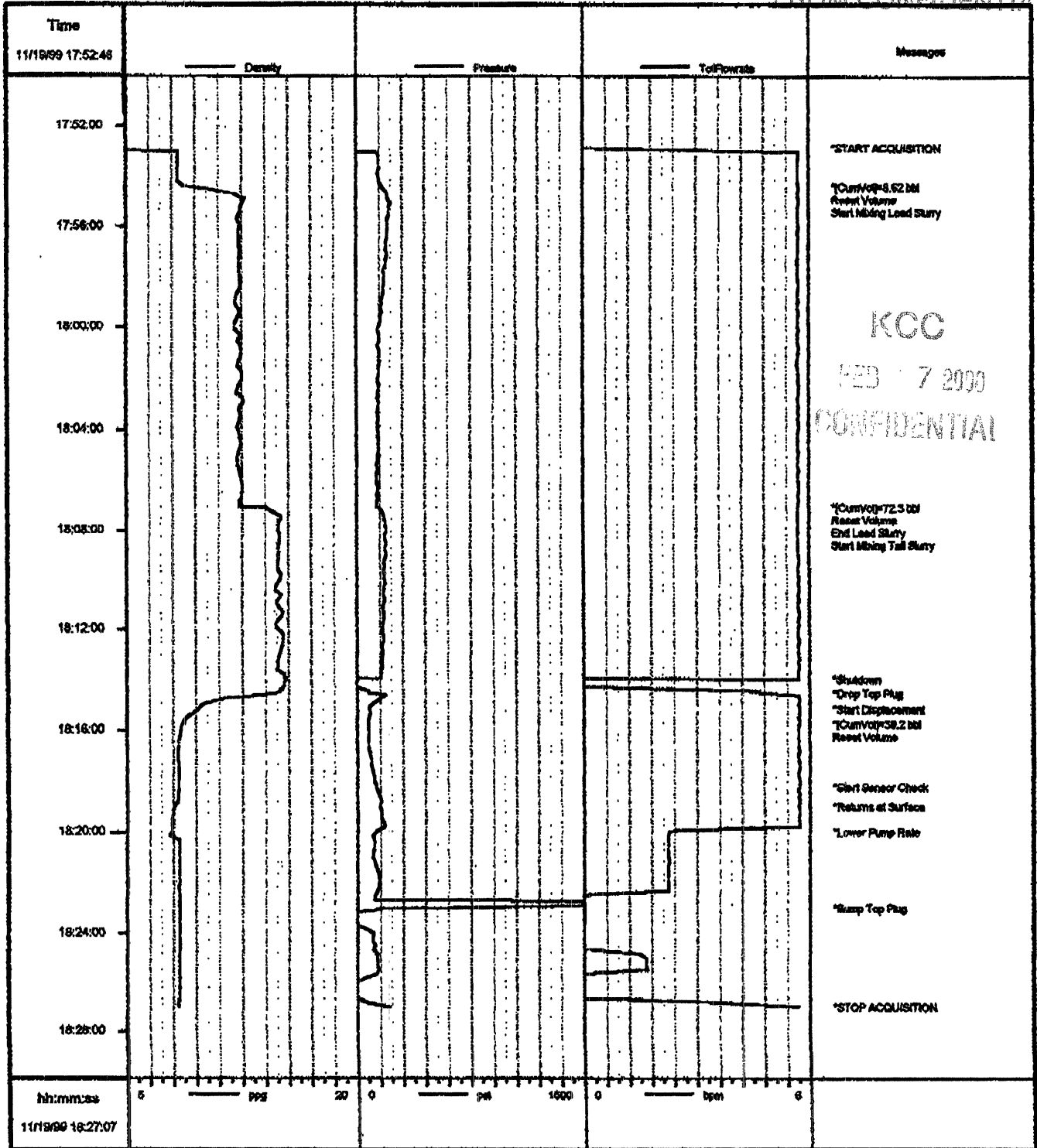
Dowell

Well	City of Liberal	Client	Cheyenne Drilling
Field		SIR No.	20133169
Country	USA	Job Date	11/19/99 5:52:48 PM

RELEASED

FEB 23 2001

FROM CONFIDENTIAL



Job: 0103169

11/19/99 18:29:01

hh:mm:ss
11/19/99 18:27:07

* Mark of Schlumberger

RECEIVED
STATE CORPORATION COMMISSION

APR 15 475.21783.00.00

FEB 22 2000

CONSERVATION DIVISION
Wichita, Kansas



Halliburton Energy Services, Inc.

SOLD TO

SHIP TO

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

CONFIDENTIAL

WELL OPERATOR
 ENSIGN OPER. CITY OF LIB.1-14, SEWARD
 LEASE NAME / OFFSHORE AREA
 CITY OF LIBERAL
 WELL NUMBER
 #1-14
 WELL PERMIT NO.
 *
 ADDRESS
 SEC14-33S-32W
 CITY, STATE, ZIP CODE
 LIBERAL KS 67905 US

ORIGINAL

TICKET TYPE	COMPANY CODE	HALLIBURTON ORDER NO.
Services	1100	296977
CUSTOMER P.O. NO.	JOB DATE	PRIMARY SERVICE LOC.
N/A	11/25/1999	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	1.00	JOB	0.00	0.00
		Liberal, KS, USA Hwy 54 West				
		JP035				
20	1	MILEAGE FROM NEAREST HES BASE,/UNIT,ZI	20	MI	3.65	73.00
		Liberal, KS, USA Hwy 54 West				
		000-117				
		With the following configuration:				
		Number of Units	1	unit		
30	2	MILEAGE FOR CEMENTING CREW,ZI	20	MI	2.15	43.00
		Liberal, KS, USA Hwy 54 West				
		000-119				
		With the following configuration:				
		Number of Units	1	unit		

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

TOTAL FROM THIS PAGE	69.60
TOTAL FROM NEXT PAGE(S)	5,702.14
SUBTOTAL	5,771.74
TAXES	252.50
GRAND TOTAL	6,024.24
	US Dollars

CONFIDENTIAL

ORIGINAL

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KCC

FEB 7 2000

FROM CONFIDENTIAL

FEB 28 2001

RELEASED

CONSERVATION DIVISION
 Wichita, Kansas
 FEB 22 2000
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 STATE CORPORATION COMMISSION



HALLIBURTON

CONFIDENTIAL

HALLIBURTON ORDER NO: 296977 Cont. ENSIGN OPERATING

ORIGINAL Page 2 of 5

Halliburton Energy Services, Inc.

APE 15-175-21783-00-00

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
40	11	CEMENT CASING DEPTH CHARGE				
		Liberal, KS, USA Hwy 54 West	1.00	UN	1,798.00	1,798.00
			1.00	UN	719.20-	719.20-
			1.00	UN	1,078.80	1,078.80
		001-016				
		With the following configuration:				
		CHARGE BY FT OR RANGE OF FEET	2,825	ft		
50	132	PORTABLE DAS,/DAY/JOB,ZI				
		Liberal, KS, USA Hwy 54 West	1.00	JOB	760.00	760.00
			1.00	JOB	304.00-	304.00-
			1.00	JOB	456.00	456.00
		045-050				
		With the following configuration:				
		NUMBER OF DAYS	1	Days		
130	14239	SBM PREMIUM PLUS 50/50 POZ				
		Hugoton, KS, USA	240.00	SK	10.60	2,544.00
			240.00	SK	4.24-	1,017.60-
			240.00	SK	6.36	1,526.40
		504-132				
170	100005049	FLOCELE - 3/8 - 25 LB SACK				
		Hugoton, KS, USA	60.00	LB	2.09	125.40
			60.00	LB	0.84-	50.16-
			60.00	LB	1.25	75.24
		XXXXXXX 890.50071				
		FLOCELE - 3/8 - 25 LB SACK				
180	100012205	CLASS C CEMENT				
		Hugoton, KS, USA	150.00	SK	15.69	2,353.50
			150.00	SK	6.28-	941.40-
			150.00	SK	9.41	1,412.10
		504-050516.00265				
		CEMENT - CLASS C - PREMIUM - BULK				

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KCC

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FEB 20 2001

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CONSERVATION DIVISION
Wichita, Kansas

FEB 22 2000

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HALLIBURTON ORDER NO: 296977 Cont. ENSIGN OPERATING

ORIGINAL
Page 3 of 5

Halliburton Energy Services, Inc.

APR 15 175 21783-00-00

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
190	3965	HANDLE&DUMP SVC CHR, CMT&ADDITIVES,ZI				
	Hugoton, KS, USA		399.00	CF	1.66	662.34
			399.00	CF	0.66-	264.94-
			399.00	CF	1.00	397.40
		500-207				
		With the following configuration:				
		NUMBER OF EACH	1	each		
200	3975	MILEAGE,CMTG MTLs DEL/RETURNED,ZI				
	Hugoton, KS, USA		349.0	TMI	1.25	436.25
			349.0	TMI	0.50-	174.50-
			349.0	TMI	0.75	261.75
		500-306				
		With the following configuration:				
		NUMBER OF TONS	1.00	ton		
230	100003140	PLUG - CMTG - TOP ALUM - 4-1/2				
	Liberal, KS, USA Hwy 54 West		1.00	EA	50.00	50.00
			1.00	EA	20.00-	20.00-
			1.00	EA	30.00	30.00
		402.1502				
		PLUG - CMTG - TOP ALUM - 4-1/2				
		9.5-15.1#				
240	100004722	SHOE - GUIDE - 4-1/2 8RD				
	Liberal, KS, USA Hwy 54 West		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				
250	100004698	V ASSY,INSR FLOAT,4 1/2,8RD,10.5,15.1#				
	Liberal, KS, USA Hwy 54 West		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#				

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Wichita, Kansas

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HALLIBURTON ORDER NO: 296977 Cont. ENSIGN OPERATING

ORIGINAL Page 4 of 5

Halliburton Energy Services, Inc.

APL 15-175-21783-00'00

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
260	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
			XXXXXXX	806.72720		
		CLAMP - LIMIT - 4-1/2 - FRICTION - W/DOGS				
270	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
			890.10802			
		HALLIBURTON WELD-A KIT				
280	100001585 Liberal, KS, USA Hwy 54 West	CHEMICAL - KCL POTASSIUM CHLORIDE -	100.00	LB	0.43	43.00
			100.00	LB	0.17	17.20
			100.00	LB	0.26	25.80
			70.15302			
		CHEMICAL - KCL POTASSIUM CHLORIDE - 50 LB SACK OR BAG				
290	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				
	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 -				

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FEB 20 2001

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Wichita, Kansas
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HALLIBURTON ORDER NO: 296977 Cont. ENSIGN OPERATING

ORIGINAL

Page 5 of 5

Halliburton Energy Services, Inc.

APC 15-175-21783-00-00

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
------	----------	-------------	-----	------	------------	--------

W/WELDED IMPERIAL BOWS AND FLUID DEFLECTOR FINS

INVOICE AMOUNT

5,771.74

Sales Tax - State

203.67

Sales Tax - County

7.27

Sales Tax - City/Loc

41.56

INVOICE TOTAL

6,024.24

US Dollars

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FEB 7 2000

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FEB 22 2000

CONSERVATION DIVISION
WICHITA, KANSAS

ORIGINAL



JOB SUMMARY 4239

ORIGINAL

TICKET #

296778

CONFIDENTIAL

TICKET DATE

11-21-99

REGION North America	NWA/COUNTRY MidCont USA	BDA / STATE KS	COUNTY Seward
MBU ID / EMP # 11110 116228	EMPLOYEE NAME Nick Karbe	PSL DEPARTMENT 21	
LOCATION Liberal	COMPANY Ensign Oper	CUSTOMER REP / PHONE Mrs Willman KCC	
TICKET AMOUNT 11294.67	WELL TYPE 01	API / UWI # 15-175-21783-00-00	
WELL LOCATION 240416 Liberal	DEPARTMENT Cement	JOB PURPOSE CODE 035	FEB 17 2000
LEASE / WELL # 240416 Liberal 1-14	SEC / TWP / RNG 14-33N-22W		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
Karbe 116228 5.2			
McElroy 116003 5.2			
Swartz 116125 4.2			
Elkins 116125 4.2			

MAR 28 2001

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
121270	35						
19218/19207	35						
19251/19091	90						
19071/19221	90						

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 4 1/2	1	H
Float Shoe 4 1/2	1	H
Guide Shoe 4 1/2	1	H
Centralizers 4 1/2	6	4
Bottom Plug 4 1/2	1	
Top Plug 4 1/2	1	60
Head 4 1/2	1	
Packer 4 1/2	1	
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 _____ In	
Perpac Balls _____ Qty. _____	
Other _____	
Other _____	
Other _____	
Other _____	

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
11-21-99	1430	1600	1730	1830

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	NEW	10.5	4 1/2	0	280'	2000
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	
11-21-99	5 1/2 hrs	11-21-99	1 hr	0.5.5
TOTAL	5 1/2 hrs	TOTAL	1 hr	

ORDERED _____ HYDRAULIC HORSEPOWER _____
 TREATED _____ AVERAGE RATES IN BPM _____
 FEET 45 _____ CEMENT LEFT IN PIPE _____
 Reason shift.

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	YIELD	LBS/GAL
1	24	Water B	B	1.91	12.2
2	120	Neat	B	1.32	14.8

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FEB 22 2000

Circulating _____ Displacement _____
 Breakdown _____ Maximum _____
 Average _____ Frac Gradient _____
 Shut In: Instant _____ 5 Min _____ 15 Min _____

CONSERVATION DIVISION
 Wichita, Kansas

Gal - BBI _____ Type _____
 Gal - BBI _____ Pad: BBI - Gal _____
 Gal - BBI _____ Treatment _____ Disp: BBI - Gal _____
 Gal - BBI _____ Cement Slurr _____
 Gal - BBI _____ Total Volume _____

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

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____

JOB LOG 4239-5

REGION: North America
 NWA/COUNTRY: McKean USA
 MBU ID / EMP #: 116328
 EMPLOYEE NAME: Nick Kamber
 LOCATION: 116328
 COMPANY: F signal
 TICKET AMOUNT: 116328
 WELL TYPE: 11
 WELL LOCATION: 116328
 DEPARTMENT: 11
 LEASE / WELL #: 116328
 SEC / TWP / RNG: 11-23S-32W

TICKET #
 TICKET DATE
 BDA / STATE: KS
 COUNTY: ORIGINAL
 PSL DEPARTMENT
 CUSTOMER REP / PHONE: 71
 API / UWI #: 15-175-21783-00-00
 JOB PURPOSE CODE: 635
 RELEASED
 FEB 28 2001

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. Kamber 116328 11			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1430							well test
	1440							hold out for 10 min
	1445							250 Test lines
	1450							250 shut in, KCL
	1455							250 1st bit out 310 lbs @ 12.5"
	1500							250 2nd bit out 150 lbs @ 10.5"
	1505							250 shut in
	1510							250 1st bit out
	1515							250 2nd bit out
	1520							250 shut in
	1525							250 1st bit out
	1530							250 2nd bit out
	1535							250 shut in
	1540							250 1st bit out
	1545							250 2nd bit out
	1550							250 shut in
	1555							250 1st bit out
	1600							250 2nd bit out
	1605							250 shut in
	1610							250 1st bit out
	1615							250 2nd bit out
	1620							250 shut in
	1625							250 1st bit out
	1630							250 2nd bit out
	1635							250 shut in
	1640							250 1st bit out
	1645							250 2nd bit out
	1650							250 shut in
	1655							250 1st bit out
	1700							250 2nd bit out
	1705							250 shut in
	1710							250 1st bit out
	1715							250 2nd bit out
	1720							250 shut in
	1725							250 1st bit out
	1730							250 2nd bit out
	1735							250 shut in
	1740							250 1st bit out
	1745							250 2nd bit out
	1750							250 shut in
	1755							250 1st bit out
	1800							250 2nd bit out
	1805							250 shut in
	1810							250 1st bit out
	1815							250 2nd bit out
	1820							250 shut in
	1825							250 1st bit out
	1830							250 2nd bit out
	1835							250 shut in
	1840							250 1st bit out
	1845							250 2nd bit out
	1850							250 shut in
	1855							250 1st bit out
	1900							250 2nd bit out
	1905							250 shut in
	1910							250 1st bit out
	1915							250 2nd bit out
	1920							250 shut in
	1925							250 1st bit out
	1930							250 2nd bit out
	1935							250 shut in
	1940							250 1st bit out
	1945							250 2nd bit out
	1950							250 shut in
	1955							250 1st bit out
	2000							250 2nd bit out

Job complete
 Thank you
 Nick & crew

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 STATE CORPORATION COMMISSION

FEB 22 2000

CONSERVATION DIVISION
 Wichita, Kansas



HALLIBURTON

CONFIDENTIAL

Work Order Contract

RELEASED

ORIGINAL

Halliburton Energy Services, Inc. Houston Texas 77056

Order Number

Order Number box

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:

Table with columns: Well No., Farm or Lease, County, State, Well Permit #, Customer, Well Owner, Job Purpose

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.
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.
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.

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.

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.

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.

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.

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.

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.

RECEIVED

STATE CORPORATION COMMISSION

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

FEB 22 2000

SIGNED: [Signature] CUSTOMER Authorized Signatory CONSERVATION DIVISION DATE: 11-21-99 TIME: 1700 A.M./P.M. Wichita, Kansas

Customer Acceptance of Materials and Services

THE CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ON THE ATTACHED ORDER NUMBER 296978

[Signature] CUSTOMER Authorized Signatory

White-Office

Canary-Field Office

Pink-Customer

Green-Retain