

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

Operator: License # #5269

Name: KANSAS NATURAL GAS, INC.

Address P.O. Box #815

Sublette, Ks. 67877

City/State/Zip Sublette, Ks. 67877

Purchaser: Williams-Amoco Pipeline

Operator Contact Person: Mr. Steve Lehning

Phone (316) 675-8185

Contractor: Name: Cheyenne Drilling Co.

License: #5382

Wellsite Geologist: Mr. Ron Ostebuhr

Designate Type of Completion
 New Well Re-Entry Workover

Oil SVD SIOW Temp. Abd.
 Gas ENHA SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

11-13-2000 11-14-2000 11-28-2000
Spud Date Date Reached TD Completion Date.

API NO. 13- 055-21703-0000 ORIGINAL

County Finney County, Kansas

App. C SW 1/4 Sec. 10 Twp. 26 Rng. 32 W

1320' Feet from N (circle one) Line of Section

3960' Feet from W (circle one) Line of Section

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

Lease Name Lightner Well # #1-2

Field Name Hugoton- Chase Series

Producing Formation Chase Series

Elevation: Ground 2857.88' KB 2862.88'

Total Depth 2695' KB PBTD 2689' KB

of Surface Pipe Set and Cemented at 526.42' Feet

Multiple Stage Cementing Collar Used? Yes No

show depth set _____ Feet

Alternate II completion, cement circulated from 526.42'
feet depth to Surface w/ 285 ex cnt.

Drilling Fluid Management Plan ALT 2 KGR 7/17/07
(Data must be collected from the Reserve Pit)

Chloride content N/A ppm Fluid volume N/A bbls

De-watering method used Remove and Backfill

Location of fluid disposal if hauled offsite: _____

Operator Name K & L Tank Company

Lease Name Morris B-1 SWD License No. #8757

Quarter 19 Sec. 19 Twp. 24 Rng. 31 E/W

County Finney Co. Docket No. C-16812 96,930

CONSERVATION DIVISION
Wichita, Kansas

DEC 6 2000

RECEIVED
KANSAS CORPORATION COMMISSION

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 Steve M. Lehning, Supt.
Title NCTA Superintendent Date 12-4-2000
Subscribed and sworn to before me this 4th day of December.
Notary Public Frankie S. Yung
Date Commission Expires 10-12-2002

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input type="checkbox"/>	KCC	<input type="checkbox"/> SWB/Rep
<input type="checkbox"/>	KBS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NEPA
<input type="checkbox"/>		<input type="checkbox"/> Other
(Specify)		

Operator Name Kansas Natural Gas, Inc. Lease Name Lightner Well # #1-2

Sec. 10 Twp. 26 Rge. 32 East West County Finney County

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests give interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static low hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra she 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	Top Cement	GL	+2863'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	T/Permian	852'	+2011'
List All E.Logs Run:		T/Cedar Hills	1390'	+1473'
Gamma-Ray Dual Spaced Neutron Collar Log		B/Stone Corral	1925'	+ 938'
		T/Hollenberg	2588'	+ 275'
		T/Herrington	2616'	+ 247'
		T/Krider	2637'	+ 226'
		T/Winfield	2672'	+ 191'
		Rotary TD	2695'	+ 168'
		Log Total Depth	2689'	+ 174'
		Plug Back T.D.	2692'	+ 167'
		Casing Total Depth	2694'	+ 169'

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
Surface Case							
Surface Case	12 1/4"	8 5/8"	24#	532KB	C Lite	285	2% Cal.
Production Casing	7 7/8"	5 1/2"	14#	2694'KB	Class C	570	2% Cal.
Note: Circulated Cement on Surface and Production Casing.							

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
Perforate					
Protect Casing					
Plug Back TD					
Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plug Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
(4)	2618'-2628' KB	10' Zone	Acid: 2200 Gal. of 15% FE-MSA acid	
(4)	2639'-2647' KB	8' Zone	Average Rate 8 BPM injection	
(2)	2674'-2678' KB	4' Zone	Frac: 35,000# 16/30 Ottawa Sand and 200,000 SCF N2 Nitrogen Foam	

TUBING RECORD	Size 2 3/8" EUE	Set At 2673' GL	Packer At None	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
----------------------	--------------------	--------------------	-------------------	--

Date of First, Resumed Production, SVD or Inj. Pending Pipeline Connection Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
			NA	Pending	Pipeline Connection			NA

Disposition of Gas: Vented Sold Used on Lease (if vented, submit ACO-1B.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval:
2618'-2628'
2639'-2647'
2674'-2678'

ORIGINAL

DRILLING & GEOLOGICAL SUMMARY

OPERATOR: Kansas Natural Gas, Inc. KCC #: 5269
 WELL NAME: Lightner #1-2 API #: 15-055-21703
 LOCATION: 1320' FSL, 1320' FWL sec10-T26S-R32W COUNTY: Finney
 ELEVATIONS: GL-2858', KB-2863' TOTAL DEPTH: 2695'
 SPUD DATE: 11/13/00 DRILLING COMPLETED: 11/14/00
 DRILLING CONTRACTOR: Cheyenne Drlg.-Rig#8 KCC #: 5382

SURFACE CASING SIZE: 8 5/8" WEIGHT: 24# GRADE: J-55 DEPTH: 532'
 CEMENT: 160sx class "C" lite, 125sx class "C"

CASING EQUIPMENT: "Texas" pattern shoe, baffle plate, 2 centralizers

COMMENTS: circulated 42sx cement to pit. Deviation-1°.

PRODUCTION CASING SIZE: 5.5" WEIGHT: 14# GRADE: J-55 DEPTH: 2694'
 1st STAGE CEMENT: 420sx class "C" lite, 150sx class "C".

2nd STAGE CEMENT:

CASING EQUIPMENT: guide shoe w/integral latch-down baffle, 8 centralizers, cement basket.
 COMMENTS: displaced plug with 250 gallons of 10% acetic acid and water. circulated 111sx cement to pit. Deviation-1°.

OPEN-HOLE LOGS: none

CASED-HOLE LOGS: G/R-CCL-DSN

SIGNIFICANT DEPTHS: (log depths measured from-KB @ 2863')

horizon	depth	datum	remarks
T/Cement	GL	+2863'	circulated 111sx
T/Permian	852'	+2011'	
T/Cedar Hills	1390'	+1473'	
B/Stone Corral	1925'	+ 938'	
T/Hollenberg	2588'	+ 275'	
T/Herington	2616'	+ 247'	perforated 2618'-2628', 4spf
T/Krider	2637'	+ 226'	perforated 2639'-2647', 4spf
T/Winfield	2672'	+ 191'	perforated 2674'-2678', 2spf
Rotary total depth	2695'	+ 168'	
Log Total depth	2689'	+ 174'	
Casing total depth	2694'	+ 169'	
Plugged-back depth	2692'	+ 167'	

PERFORATIONS: 2618'-2628', 2639'-2647' (all w/4spf); 2674'-2678' (2spf)

ACID TREATMENTS: 2200 gallons 15% FE-MSA acid at avg 8 bpm. maximum pressure was 1600#. ISIP was a vacuum.

FRACTURE TREATMENTS: 35,000# 16/30 "ottawa" sand; 200,000scf N₂; 195 bbls treated water.

REMARKS: ran tubing, rods, and pump on 11/28/00. shut in, waiting on flow test.



prepared by: Ronald G. Osterbuhr
 11/30/00

SOLD TO

SHIP TO



Halliburton Energy Services, Inc.

CHEYENNE DRILLING INC
3728 WEST JONES AVENUE
GARDEN CITY KS 67846-9762
USA

WELL OPERATOR
KANSAS NAT. LIGHTNER 1-2,HASKELL
LEASE NAME / OFFSHORE AREA
LIGHTNER
WELL NUMBER
1-2
WELL PERMIT NO.
SEC10-26S-32W
ADDRESS
*
CITY, STATE, ZIP CODE
GARDEN CITY KS 67846 US

ORIGINAL

TICKET TYPE	COMPANY CODE	HALLIBURTON ORDER NO.
Services	1100	982047
CUSTOMER P.O. NO.	JOB DATE	PRIMARY SERVICE LOC.
N/A	11/13/2000	Liberal, KS, USA

SALES OFFICE	WELL TYPE	WELL CATEGORY	RIG NAME / NO.
Mid-Continent BD	Gas	Development	CHEYENNE DRILLING INC

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
10	7521	CEMENT SURFACE CASING - BOM	1.00	JOB	0.00	0.00
		Liberal, KS, USA Hwy 54 West				
		JP010				
20	1	MILEAGE FROM NEAREST HES BASE,/UNIT	90	MI	4.05	364.50
		Liberal, KS, USA Hwy 54 West	90	MI	1.38-	123.93-
			90	MI	2.67	240.57
		000-117				
		With the following configuration:				
		Number of Units	1	unit		
30	2	MILEAGE FOR CEMENTING CREW,ZI	90	MI	2.38	214.20
		Liberal, KS, USA Hwy 54 West	90	MI	0.81-	72.83-
			90	MI	1.57	141.37
		000-119				
		With the following configuration:				
		Number of Units	1	unit		

(Surface Cement)

INVOICE INSTRUCTIONS	
PAYMENT TERMS	HALLIBURTON APPROVAL
Net due in 20 days	
HALLIBURTON OPERATOR / ENGINEER	CUSTOMER SIGNATURE
<i>John Woodard 105848</i>	

TOTAL FROM THIS PAGE	381.94
TOTAL FROM NEXT PAGE(S)	6,782.66
SUBTOTAL	7,164.60
TAXES	293.70
GRAND TOTAL	7,458.30
	US Dollars

ORIGINAL



ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
40	16091	CSG PUMPING,0-4 HRS,ZI				
	Liberal, KS, USA Hwy 54 West		1.00	EA	1,963.00	1,963.00
			1.00	EA	667.42-	667.42-
			1.00	EA	1,295.58	1,295.58
		001-016				
		With the following configuration:				
		DEPTH		600		
		FEET/METRES (FT/M)		FT		
50	132	PORTABLE DAS,/DAY/JOB,ZI				
	Liberal, KS, USA Hwy 54 West		1.00	JOB	916.00	916.00
			1.00	JOB	311.44-	311.44-
			1.00	JOB	604.56	604.56
		045-050				
		With the following configuration:				
		NUMBER OF DAYS		1 Days		
60	100003163	PLUG-CMTG-TOP PLASTIC-8-5/8				
	Liberal, KS, USA Hwy 54 West		1.00	EA	196.00	196.00
			1.00	EA	66.64-	66.64-
			1.00	EA	129.36	129.36
		402.15781				
		PLUG - CMTG - TOP PLASTIC - 8-5/8				
		24-49#				
70	100004702	VALVE ASSY-INSERT FLOAT-8-5/8				
	Liberal, KS, USA Hwy 54 West		1.00	EA	328.00	328.00
			1.00	EA	111.52-	111.52-
			1.00	EA	216.48	216.48
		24A- 815.19502				
		VALVE ASSY - INSERT FLOAT - 8-5/8 8RD				
		CSG 24#				
80	100013933	FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8				
	Liberal, KS, USA Hwy 54 West		1.00	EA	45.00	45.00
			1.00	EA	15.30-	15.30-
			1.00	EA	29.70	29.70
		815.19405				

ORIGINAL



ORIG

Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	LOCATION					
		FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8 INSERT FLOAT VALVE				
90	100004521	CENTRALIZER ASSY - 8-5/8 CSG X 12-1/4				
	Liberal, KS, USA Hwy 54 West		3.00	EA	88.00	264.00
			3.00	EA	29.92-	89.76-
			3.00	EA	58.08	174.24
		40806.61048 CENTRALIZER ASSY - 8-5/8 CSG X 12-1/4 HOLE - HINGED - W/WELDED STANDARD BOWS				
100	100005045	HALLIBURTON WELD-A KIT				
	Liberal, KS, USA Hwy 54 West		1.00	EA	18.43	18.43
			1.00	EA	6.27-	6.27-
			1.00	EA	12.16	12.16
		HALLIBURTON WELD-A KIT				
110	14241	SBM Halliburton Light Premium Plus				
	Hugoton, KS, USA		160.00	SK	14.75	2,360.00
			160.00	SK	5.02-	802.40-
			160.00	SK	9.74	1,557.60
		504-120				
150	100012205	Cement- Class C / Premium Plus (Bulk)				
	Hugoton, KS, USA		125.00	SK	17.95	2,243.75
			125.00	SK	6.10-	762.88-
			125.00	SK	11.85	1,480.87
		504-050516.00265 CEMENT - CLASS C - PREMIUM - BULK				
160	100005053	Chemical - Calcium Chloride Hi Test Plt				
	Hugoton, KS, USA		6.00	SK	54.00	324.00
			6.00	SK	18.36-	110.16-
			6.00	SK	35.64	213.84
		509-406890.50812 CALCIUM CHLORIDE - HI TEST PELLETT - 94-97% CACL 2 - 80# BAG				

ORIGINAL



ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL LOCATION	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
170	100005049 Hugoton, KS, USA	Chemical - Flocele (25 lb sk)	72.00	LB	2.39	172.08
			72.00	LB	0.81-	58.51-
			72.00	LB	1.58	113.57
		XXXXXXX 890.50071 FLOCELE - 3/8 - 25 LB SACK				
180	3965 Hugoton, KS, USA	HANDLE&DUMP SVC CHRGR, CMT&ADDITIVES,ZI	310.00	CF	1.94	601.40
			310.00	CF	0.66-	204.48-
			310.00	CF	1.28	396.92
		500-207				
		With the following configuration: NUMBER OF EACH		1 each		
190	16119 Hugoton, KS, USA	MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN	608	MI	1.39	845.12
			608	MI	0.47-	287.34-
			608	MI	0.92	557.78
		500-306				
		MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN				
		With the following configuration: NUMBER OF TONS		1 ton		
		INVOICE AMOUNT				7,164.60
		Sales Tax - State				239.26
		Sales Tax - County				5.61
		Sales Tax - City/Loc				48.83
		INVOICE TOTAL				7,458.30
						US Dollars

ORIGINAL

CONTINENT NWA-CEMENTING CALL FOR SALES & SERVICE
 KE SAFETY A CORE VALUE IN YOUR LIFE!
 EASE WORK & DRIVE SAFELY!

ORIGINAL  HALLIBURTON

COMPANY CHEYENNE DRILLING	OWNER KANSAS NAT	DATE 11/13/00
BILLING ADDRESS		
CONTRACTOR CHEYENNE #8	API	SEC, TWN, RNG SEC. 10-26S-32W
LEASE LIGHTNER	WELL NO. 1-2	COUNTY/STATE FINNEY CO, KS RT MILEAGE 90/45
DIRECTIONS SUBLETTE, KS--NORTH ON HWY 83 TO PLYMEL SCHOOL, 3 EAST, 3/4 SOUTH, EAST TO		

QUOTE: 20520376 SO--982047 KB--982048

SURFACE YES	INTER.	LONG STRING	LINER	PLUG BACK	PTA		
SQUEEZE	WHIPSTOCK	OTHER					
CASING SIZE 8 5/8	WEIGHT 24#	THREAD 8 RD	PLUG CONT YES	SWAGE YES	CSG SWIVEL	TOP PLUG PLASTIC	BOTTOM PLUG
TBG / DP SIZE	WEIGHT	THREAD	TD 600 FT	% EXCESS 100%	MUD WT	HOLE SIZE 12 1/4	

NUMBER AND TYPE TRUCKS WANTED **RCM & BULK**

REMARKS

# OF SACKS 160	TYPE PP HLC C	ADDITIVES 2% CC, 1/4# FLOCELE
# OF SACKS	TYPE	ADDITIVES 12.3# 2.05 CF 11.37 GAL
# OF SACKS 125	TYPE PREM PLUS	ADDITIVES 2% CC, 1/4# FLOCELE
# OF SACKS	TYPE	ADDITIVES 14.8# 1.34 CF 6.3 GAL
# OF SACKS	TYPE	ADDITIVES
# OF SACKS	TYPE	ADDITIVES

SPACER TYPE	QUANTITY	REMARKS
SPACER TYPE	QUANTITY	REMARKS
KCL	CLAYFIX II	LO-SURF CLASTA-XP

CASING SIZE 8 5/8	CASING WEIGHT 24#	THREAD 8 RD	GUIDE SHOE	LATCH DOWN PLUG & BAFFLE
-----------------------------	-----------------------------	-----------------------	------------	--------------------------

INSERT FLOAT SHOE	FLOAT SHOE	FLOAT COLLAR	INSERT FLOAT 1 EACH W/ FILL TUBE
CENTRALIZER-QTY 3 EACH	SIZE 8 5/8 X 12 1/4	TYPE SERIES 41	

WALL CLEANERS-QTY	TYPE	DV TOOL	DV PLUG SET
LIMIT CLAMPS	WELD-A 1 EACH	CMT BASKET	OTHER

REMARKS **(SURFACE CEMENT)**

ORDERED BY: DAMASO	TIME OF CALL: 0800 11/13/00
CALL TAKEN BY: SMITH	TIME READY: 1500 11/13/00
CREW CALLED: WOODROW--WOODS--BULK	TIME:

JOB LOG

ORDER NO. 70006

TICKET #

TICKET DATE

BDA / STATE

COUNTY

North America

NWA / COUNTRY

PSL DEPARTMENT

EMP #

EMPLOYEE NAME

CUSTOMER REP / PHONE

JN

COMPANY

API / UWI #

NET AMOUNT

WELL TYPE

JOB PURPOSE CODE

WELL LOCATION

DEPARTMENT

HES FACILITY (CLOSEST TO WELL SITE)

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

CHART NO.

TIME

RATE (BPM)

VOLUME (BBL)(GAL)

PUMPS T C

PRESS (psi) Tbg Csg

JOB DESCRIPTION/REMARKS

1500

1600

1730

1530

1630

1700

1706

1716

1826 5.0

1830

6.0

58.0

29.0

500

9150

100

9100

160

300

JOB READY
CALLED OUT FOR JOB

PUMP TRUCK ON LOCATION - HAVE PRE-JOB
SITE ASSIGNMENT - SPOT EQUIPMENT -
RIG STILL DRILLING

LAY DOWN DRILL PIPE
START RUNNING 8 1/8 CASING * FLOAT EQUIPMENT
CASING ON BOTTOM 536'
HOOK UP 8 1/8 P/C & CIRCULATING IRON
START CIRCULATING WITH RIG PUMP
PUMP UP PUMP TRUCK
THROUGH CIRCULATING - HOOK UP TO PUMP TRUCK

JOB PROCEEDURE

TEST PUMPS LINES
START MIXING 165 SKS PWD ENT AT 13.2 151 gal
START MIXING 125 SKS TAIL ENT AT 14.8 140 gal
THROUGH MIXING ENT - SHUT DOWN

RELEASE PLUG - START DISPENSING
HAVE 15 GNS OUT - HAVE GMA RETURNS TO SURFACE
MAX LIFT PRESSURE BEFORE MIXING PLUG

PLUG DOWN - RELEASE FLOAT
FLOAT HELD

(CIRCULATED 15 GNS 42 SKS TO SURFACE)

(SURFACE CONTROL)
THANK YOU FOR CALLING ILLIBURTON

WENDY SCREW



Halliburton Energy Services, Inc.

SOLD TO

CHEYENNE DRILLING INC
 3728 WEST JONES AVENUE
 GARDEN CITY KS 67846-9762
 USA

SHIP TO

WELL OPERATOR
 KANSAS NAT. LIGHTNER 1-2,HASKELL
 LEASE NAME / OFFSHORE AREA
 LIGHTNER
 WELL NUMBER
 1-2
 WELL PERMIT NO.
 SEC10-26S-32W
 ADDRESS
 *
 CITY, STATE, ZIP CODE
 GARDEN CITY KS 67846 US

ORIGINAL

TICKET TYPE	COMPANY CODE	HALLIBURTON ORDER NO.
Services	1100	985370
CUSTOMER P.O. NO.	JOB DATE	PRIMARY SERVICE LOC.
N/A	11/15/2000	Liberal, KS, USA

SALES OFFICE	WELL TYPE	WELL CATEGORY	RIG NAME / NO.
Mid-Continent BD	Gas	Development	CHEYENNE DRILLING INC

ITEM	MATERIAL	LOCATION	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
10	7523	Liberal, KS, USA Hwy 54 West	CEMENT PRODUCTION CASING - BOM JP035	1.00	JOB	0.00	0.00
20	1	Liberal, KS, USA Hwy 54 West	MILEAGE FROM NEAREST HES BASE,/UNIT	90	MI	4.05	364.50
				90	MI	1.70-	153.09-
				90	MI	2.35	211.41
			000-117				
			With the following configuration: Number of Units	1	unit		
30	2	Liberal, KS, USA Hwy 54 West	MILEAGE FOR CEMENTING CREW,ZI	90	MI	2.38	214.20
				90	MI	1.00-	89.96-
				90	MI	1.38	124.24
			000-119				
			With the following configuration: Number of Units	1	unit		

*Long String
CEMENT*

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

TOTAL FROM THIS PAGE	335.65
TOTAL FROM NEXT PAGE(S)	10,678.05
SUBTOTAL	11,013.70
TAXES	497.81
GRAND TOTAL	11,511.51
	US Dollars

ORIGINAL



ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
40	16091	CSG PUMPING,0-4 HRS,ZI				
		Liberal, KS, USA Hwy 54 West	1.00	EA	2,167.00	2,167.00
			1.00	EA	910.14-	910.14-
			1.00	EA	1,256.86	1,256.86
		001-016				
		With the following configuration:				
		DEPTH	2,735			
		FEET/METRES (FT/M)		FT		
50	132	PORTABLE DAS,/DAY/JOB,ZI				
		Liberal, KS, USA Hwy 54 West	1.00	JOB	916.00	916.00
			1.00	JOB	384.72-	384.72-
			1.00	JOB	531.28	531.28
		045-050				
		With the following configuration:				
		NUMBER OF DAYS	1	Days		
60	12296	SBM 10% MSA Acid				
		Liberal, KS, USA Hwy 54 West	250.00	GAL	1.14	285.00
			250.00	GAL	0.48-	119.70-
			250.00	GAL	0.66	165.30
		208-108				
80	100003729	CHEM-CLAYFIX II - HALTANK				
		Liberal, KS, USA Hwy 54 West	5.00	GAL	38.83	194.15
			5.00	GAL	16.31-	81.54-
			5.00	GAL	22.52	112.61
		314-163 516.00472				
		CHEMICAL - CLAYFIX II - IN HAL TANK				
		BULK SHIPMENTS - FRESNO, TX. -				
		8.4545 LBS. PER GAL.				
90	100004723	SHOE - GUIDE - 5-1/2 8RD				
		Liberal, KS, USA Hwy 54 West	1.00	EA	190.00	190.00
			1.00	EA	79.80-	79.80-
			1.00	EA	110.20	110.20
		12A825.205				
		SHOE - GUIDE - 5-1/2 8RD				

ORIGINAL



Halliburton Energy Services, Inc.

ORIGINAL

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	LOCATION					
100	100013746	PLUG ASSY - 3 WIPER LATCH-DOWN - 5-1/2				
	Liberal, KS, USA Hwy 54 West		1.00	EA	355.30	355.30
			1.00	EA	149.23-	149.23-
			1.00	EA	206.07	206.07
		593 - 801.0374				
		PLUG ASSY - 3 WIPER LATCH-DOWN - 5-1/2				
		CSG				
110	100013747	BAFFLE ASSY - 5-1/2 8RD - LATCH-DOWN				
	Liberal, KS, USA Hwy 54 West		1.00	EA	150.00	150.00
			1.00	EA	63.00-	63.00-
			1.00	EA	87.00	87.00
		594 - 801.03743				
		BAFFLE ASSY - 5-1/2 8RD - LATCH-DOWN				
		PLUG				
120	100004614	BSKT,CEM,5 1/2 CSG,SLIP-ON,STL BWS,CANV				
	Liberal, KS, USA Hwy 54 West		1.00	EA	122.00	122.00
			1.00	EA	51.24-	51.24-
			1.00	EA	70.76	70.76
		806.71430				
		BASKET - CEMENT - 5-1/2 CSG - SLIP-ON				
		- STEEL BOWS - CANVAS				
130	100004476	CTRZR ASSY,5 1/2 CSG X 7 7/8 HOLE,HINGED				
	Liberal, KS, USA Hwy 54 West		8.00	EA	70.00	560.00
			8.00	EA	29.40-	235.20-
			8.00	EA	40.60	324.80
		806.60022				
		CENTRALIZER ASSY - API - 5-1/2 CSG X				
		7-7/8 HOLE - HINGED - W/WELDED				
		IMPERIAL BOWS				
140	100005045	HALLIBURTON WELD-A KIT				
	Liberal, KS, USA Hwy 54 West		1.00	EA	18.43	18.43
			1.00	EA	7.74-	7.74-
			1.00	EA	10.69	10.69
		HALLIBURTON WELD-A KIT				

ORIGINAL

ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	LOCATION					
150	13383	SBM MUD FLUSH,ZI				
	Liberal, KS, USA Hwy 54 West		840.00	GAL	0.91	764.40
			840.00	GAL	0.38-	321.05-
			840.00	GAL	0.53	443.35
		018-315				
		SBM MUD FLUSH,ZI				
180	14241	SBM Halliburton Light Premium Plus				
	Hugoton, KS, USA		420.00	SK	14.75	6,195.00
			420.00	SK	6.20-	2,601.90-
			420.00	SK	8.56	3,593.10
		504-120				
220	100012205	Cement- Class C / Premium Plus (Bulk)				
	Hugoton, KS, USA		150.00	SK	17.95	2,692.50
			150.00	SK	7.54-	1,130.85-
			150.00	SK	10.41	1,561.65
		504-050516.00265				
		CEMENT - CLASS C - PREMIUM - BULK				
230	100005049	Chemical - Flocele (25 lb sk)				
	Hugoton, KS, USA		143.00	LB	2.39	341.77
			143.00	LB	1.00-	143.54-
			143.00	LB	1.39	198.23
		XXXXXXX 890.50071				
		FLOCELE - 3/8 - 25 LB SACK				
240	100003646	CHEMICAL - HALAD-322 - 50 LB SACK				
	Hugoton, KS, USA		71.00	LB	8.81	625.51
			71.00	LB	3.70-	262.71-
			71.00	LB	5.11	362.80
		507-775516.00144				
		CHEMICAL - HALAD-322 - 50 LB SACK				
250	3965	HANDLE&DUMP SVC CHR, CMT&ADDITIVES,ZI				
	Hugoton, KS, USA		605.00	CF	1.94	1,173.70
			605.00	CF	0.81-	492.95-
			605.00	CF	1.13	680.75

ORIGINAL



ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	LOCATION	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
			500-207				
			With the following configuration:				
			NUMBER OF EACH	1	each		
260	16119	Hugoton, KS, USA	MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN				
				1,194	MI	1.39	1,659.66
				1,194	MI	0.58-	697.06-
				1,194	MI	0.81	962.60
			500-306				
			MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN				
			With the following configuration:				
			NUMBER OF TONS	1	ton		
			INVOICE AMOUNT				
			Sales Tax - State				11,013.70
			Sales Tax - County				405.75
			Sales Tax - City/Loc				9.23
							82.83
			INVOICE TOTAL				11,511.51
							US Dollars

ORIGINAL

MID-CONTINENT NWA CEMENTING CALL FOR SALES & SERVICE
MAKE SAFETY A CORE VALUE IN YOUR LIFE!
PLEASE WORK & DRIVE SAFELY!



COMPANY CHEYENNE DRILLING		OWNER KANSAS NAT	DATE 11/13/00
BILLING ADDRESS			
CONTRACTOR CHEYENNE #8	API	SEC, TWN, RNG SEC. 10-26S-32W	
LEASE LIGHTNER	WELL NO. 1-2	COUNTY/STATE FINNEY CO, KS	RT MILEAGE 90/45
DIRECTIONS SUBLETTE, KS--NORTH ON HWY 83 TO PLYMEL SCHOOL, 3 EAST, 3/4 SOUTH, EAST TO			

QUOTE: 20522569	SO-985370	KB-985371					
SURFACE	INTER.	LONG STRING YES	LINER	PLUG BACK	PTA		
SQUEEZE	WHIPSTOCK	OTHER					
CASING SIZE 5 1/2	WEIGHT 15.5#	THREAD 8 RD	PLUG CONT YES	SWAGE YES	CSG SWIVEL	TOP PLUG 3-WIPER	BOTTOM PLUG
TBG / DP SIZE	WEIGHT	THREAD	TD 2735 FT	% EXCESS	MUD WT	HOLE SIZE 7 7/8	
NUMBER AND TYPE TRUCKS WANTED RCM & BULK				ACID TRANSPORT			

REMARKS		
# OF SACKS 420	TYPE PP HLC C	ADDITIVES 1/4# FLOCELE
# OF SACKS	TYPE	ADDITIVES 12.3# 2.02 CF 11.28 GAL
# OF SACKS 150	TYPE PREM PLUS	ADDITIVES .5% HALAD-322, 1/4# FLOCELE
# OF SACKS	TYPE	ADDITIVES 14.8# 1.32 CF 6.25 GAL
# OF SACKS 250 GA	TYPE 10% MSA	ADDITIVES (22 GAL FE-1A)PUMP AS 1ST PART DISPLACEMENT.
# OF SACKS	TYPE	ADDITIVES DISPLACE W/ 2% CLAYFIX WATER (5 GALLON)

SPACER TYPE MUD FLUSH	QUANTITY 20 BBL	REMARKS AHEAD OF CEMENT		
SPACER TYPE	QUANTITY	REMARKS		
KCL	CLAYFIX II 5 GALLON	LO-SURF CLASTA-XF		
CASING SIZE 5 1/2	CASING WEIGHT 15.5#	THREAD 8 RD	GUIDE SHOE REGULAR	LATCH DOWN PLUG & BAFFLE 3-WIPER & BAFFLE
INSERT FLOAT SHOE	FLOAT SHOE	FLOAT COLLAR	INSERT FLOAT	
CENTRALIZER-QTY 8 EACH	SIZE 5 1/2 X 7 7/8	TYPE S-4		
WALL CLEANERS-QTY	TYPE	DV TOOL	DV PLUG SET	
LIMIT CLAMPS	WELD-A 1 EACH	CMT BASKET 1 EACH	OTHER Cement Annular Casing	

ORDERED BY: DAMASO	TIME OF CALL: 1800 11/13/00
CALL TAKEN BY: SMITH	TIME READY: 300
CREW CALLED:	TIME: