

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

API NO. 15- 055-21702-0000 **ORIGINAL**
County Finney County

Operator: License # #5269
Name: Kansas Natural Gas, Inc.
Address P.O. Box #815
Sublette, Ks.
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

App. C. NE. 1/4 Sec. 03 Twp. 26 Rng. 32 W
5760' Feet from (N) (circle one) Line of Section
1320' Feet from (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(SE) SE, NW or SW (circle one)
Lease Name Miller Well # #1-2
Field Name Hugoton- Chase Series
Producing Formation Chase Formation
Elevation: Ground 2839.19' KB 2844.19' KB
Total Depth 2680' KB PSTD 2670' KB
Amount of Surface Pipe Set and Cemented at 536' Feet
Multiple Stage Cementing Collar Used? Yes XX No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 536'
feet depth to Surface w/ 270 sks. ex cnt.

Designate Type of Completion
XX New Well _____ Re-Entry _____ Workover
X Oil _____ SWD _____ SIGW _____ Temp. Abd.
X Gas _____ ENHR _____ SIGW
_____ Dry _____ Other (Core, WBV, Expl., Cathodic, etc)

Drilling Fluid Management Plan ALT 2 KJR 7/17/01
(Data must be collected from the Reserve Pit)
Chloride content NA ppm Fluid volume NA bbls
Cementing method used Remove and Backfill
Disposition of fluid disposal if hauled offsite:
Operator Name K & L Tank Company
Lease Name Morris B-1 SWD License No. #8757
Quarter Sec. 19 Twp. 24 S Rng. 31 E/W
County Finney Co. Decket No. C-16812 96,930

If Workover/Re-Entry: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
_____ Deepening _____ Re-perf. _____ Conv. to SWD / SWD
_____ Plug Back _____ PSTD
_____ Cemented _____ Decket No. _____
_____ Dual Completion _____ Decket No. _____
_____ Other (SWD or Inj?) _____ Decket No. _____
11-09-2000 11-11-00 11-28-00
Spud Date Date Reached TD Completion Date.

RECEIVED
STATE CORPORATION COMMISSION
Oil & Gas Conservation Division
Wichita, Kansas
DEC 6 2000

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 Steven M. Lehning, Supt.
Title Superintendent Date 12-04-00
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	Letter of Confidentiality Attached	
C	Wireline Log Received	
C	Geologist Report Received	
Distribution		
_____	KCC	_____
_____	SWD/Rep	_____
_____	Plug	_____
_____	NSPA	_____
_____	Other	_____
(Specify)		

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 sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	T/Cement	GL	+2844'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	T/Permian	867'	+1977'
List All E.Logs Run:		T/Cedar Hills	1385'	+1459'
Gamma Ray Dual Spaced Neutron		B/Stone Corral	1924'	+ 920'
Collar Log		T/Hollenberg	2575'	+ 269'
		T/Herrington	2605'	+ 239'
		T/Krider	2626'	+ 218'
		T/Winfield	2661'	+ 183'
		Rotary T.D.	2680'	+ 164'
		Log T.D.	2670'	+ 174'
		Plug Back T.D.	2675'	+ 169'
		Casing T.D.	2677'	+ 167'

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.S.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24#	541' KB	C-Lite	270	2% Cal.
Production	7 7/8"	5 1/2"	14#	2677KB	Class C	570	2% Cal.
Casing	Note: Circulated Cement on Surface and Production Casing.						

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
(4)	2605'-2615'	KB 10' Zone	Acid: 2200 Gal of 15% FF-MSA acid	
(4)	2627'-2635'	KB 8' Zone	Avg. rate 8 BPM injection	
(2)	2661'-2665'	KB 4' Zone	Frac: 37,000# of 16/30 Ottawa sand and 200,000 SCF Nitrogen Foam	

TUBING RECORD Size 2 3/8" EUE Set At 2659' GL Packer At None Liner Run Yes 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	Conneciton		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:
 2605-2615'
 2627-2635'
 2661-2665'

DRILLING & GEOLOGICAL SUMMARY

ORIGINAL

OPERATOR: Kansas Natural Gas, Inc. KCC #: 5269
 WELL NAME: Miller #1-2 API #: 15-055-21702
 LOCATION: 5760' FSL, 1320' FEL sec3-T26S-R32W COUNTY: Finney
 ELEVATIONS: GL-2839', KB-2844' TOTAL DEPTH: 2680'
 SPUD DATE: 11/09/00 DRILLING COMPLETED: 11/11/00
 DRILLING CONTRACTOR: Cheyenne Drlg.-Rig#8 KCC #: 5382

SURFACE CASING SIZE: 8 5/8" WEIGHT: 24# GRADE: J-55 DEPTH: 541'
 CEMENT: 145sx class "C" lite, 125sx class "C"

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

COMMENTS: circulated 27sx cement to pit. Deviation-1/2°.

PRODUCTION CASING SIZE: 5.5" WEIGHT: 14# GRADE: J-55 DEPTH: 2677'
 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 95 sx cement to pit. Deviation -3/4°.

OPEN-HOLE LOGS: none

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

SIGNIFICANT DEPTHS: (log depths measured from-KB @ 2844')

horizon	depth	datum	remarks
T/Cement	GL	+2844'	circulated 95sx
T/Permian	867'	+1977'	
T/Cedar Hills	1385'	+1459'	
B/Stone Corral	1924'	+ 920'	
T/Hollenberg	2575'	+ 269'	
T/Herington	2605'	+ 239'	perforated 2605'-2615', 4spf
T/Krider	2626'	+ 218'	perforated 2627'-2635', 4spf
T/Winfield	2661'	+ 183'	perforated 2661'-2665', 2spf
Rotary total depth	2680'	+ 164'	
Log Total depth	2670'	+ 174'	
Casing total depth	2677'	+ 167'	
Plugged-back depth	2675'	+ 169'	

PERFORATIONS: 2605'-2615', 2627'-2635' (all w/4spf); 2661'-2665' (2spf)

ACID TREATMENTS: 2200 gallons 15% FE-MSA acid at avg 8 bpm at avg 230#, with maximum pressure of 1388#. ISIP was vacuum.

FRACTURE TREATMENTS: 37,000# 16/30 "ottawa" sand; 200,000scf N₂; 189 bbls treated water.

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

Ronald G. Osterbuhr

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

SOLD TO

SHIP TO



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

WELL OPERATOR
H & P MILLER 1-2, FINNEY
LEASE NAME / OFFSHORE AREA
MILLER
WELL NUMBER
1-2
WELL PERMIT NO.
ADDRESS
*
CITY, STATE, ZIP CODE
GARDEN CITY KS 67846 US

ORIGINAL

Halliburton Energy Services, Inc.

TICKET TYPE	COMPANY CODE	HALLIBURTON ORDER NO.
Services	1100	977645
CUSTOMER P.O. NO.	JOB DATE	PRIMARY SERVICE LOC.
N/A	11/09/2000	Liberal, KS, USA

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

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

FIELD COPY
CEMENT
SURFACE
PIPE

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

TOTAL FROM THIS PAGE	381.94
TOTAL FROM NEXT PAGE(S)	6,365.32
SUBTOTAL	6,747.26
TAXES	279.66
GRAND TOTAL	7,026.92
	US Dollars

9777.74

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	1,778.00	1,778.00
			1.00	EA	604.52-	604.52-
			1.00	EA	1,173.48	1,173.48
		001-016				
		With the following configuration:				
		DEPTH		540		
		FEET/METRES (FT/M)		FT		
50	132	PORTABLE DAS,/DAY/JOB,ZI				
		Liberal, KS, USA Hwy 54 West	1.00	JOB	829.00	829.00
			1.00	JOB	281.86-	281.86-
			1.00	JOB	547.14	547.14
		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



ORIGINAL

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	3.00	EA	88.00	264.00
	Liberal, KS, USA Hwy 54 West		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	1.00	EA	18.43	18.43
	Liberal, KS, USA Hwy 54 West		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	145.00	SK	14.75	2,138.75
	Hugoton, KS, USA		145.00	SK	5.02-	727.18-
			145.00	SK	9.73	1,411.57
		504-120				
150	100012205	Cement- Class C / Premium Plus (Bulk)	125.00	SK	17.95	2,243.75
	Hugoton, KS, USA		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	5.00	SK	54.00	270.00
	Hugoton, KS, USA		5.00	SK	18.36-	91.80-
			5.00	SK	35.64	178.20
		509-406890.50812 CALCIUM CHLORIDE - HI TEST PELLETT - 94-97% CACL 2 - 80# BAG				

ORIGINAL



ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
170	100005049	Chemical - Flocele (25 lb sk)				
	Hugoton, KS, USA		68.00	LB	2.39	162.52
			68.00	LB	0.81-	55.26-
			68.00	LB	1.58	107.26
		XXXXXXXX 890.50071				
		FLOCELE - 3/8 - 25 LB SACK				
180	3965	HANDLE&DUMP SVC CHRG, CMT&ADDITIVES,ZI				
	Hugoton, KS, USA		294.00	CF	1.94	570.36
			294.00	CF	0.66-	193.92-
			294.00	CF	1.28	376.44
		500-207				
		With the following configuration:				
		NUMBER OF EACH	294	each		
190	16119	MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN				
	Hugoton, KS, USA		576	MI	1.39	800.64
			576	MI	0.47-	272.22-
			576	MI	0.92	528.42
		500-306				
		MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN				
		With the following configuration:				
		NUMBER OF TONS	1	ton		
		INVOICE AMOUNT				6,747.26
		Sales Tax - State				227.62
		Sales Tax - County				5.61
		Sales Tax - City/Loc				46.43
		INVOICE TOTAL				7,026.92
						US Dollars
						2640.82
						9717.74

16092

add hrs 9 hrs

453.00
- 154.02
298.98

CEMENT SURFACE PIPE

ORIGINAL

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



61
24
Ks. Nat.

COMPANY CHEYENNE DRILLING	OWNER H&P	DATE 11/9/00
BILLING ADDRESS		
CONTRACTOR CHEYENNE #8	API	SEC, TWN, RNG SEC. 2-26S-32W
LEASE MILLER	WELL NO. 1-2	COUNTY/ STATE FINNEY CO, KS RT MILEAGE 90/45
DIRECTIONS SUBLETTE, KS--NORTH ON HWY 83 TO PLYMEL SCHOOL, CONTINUE 1 NORTH, 3 3/4 EAST SOUTH TO LOCATION.		

Cement Surface Pipe

QUOTE: 20518614	SO--977645	KB--977646
SURFACE YES	INTER.	LONG STRING
SQUEEZE	WHIPSTOCK	OTHER
CASING SIZE 8 5/8	WEIGHT 24#	THREAD 8 RD
TBG / DP SIZE	WEIGHT	THREAD
PLUG CONT YES	SWAGE YES	CSG SWIVEL
TD 540	% EXCESS 100%	MUD WT
TOP PLUG PLASTIC	BOTTOM PLUG	HOLE SIZE 12 1/4

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

REMARKS

# OF SACKS 145	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
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CASING SIZE 8 5/8	CASING WEIGHT 24#	THREAD 8 RD	GUIDE SHOE	LATCH DOWN PLUG & BAFFLE
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INSERT FLOAT SHOE	FLOAT SHOE	FLOAT COLLAR	INSERT FLOAT 1 EACH W/ FILL TUBE
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CENTRALIZER-QTY 3 EACH	SIZE 8 5/8 X 12 1/4	TYPE SERIES 41
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WALL CLEANERS-QTY	TYPE	DV TOOL	DV PLUG SET
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LIMIT CLAMPS	WELD-A 1 EACH	CMT BASKET	OTHER
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REMARKS

ORDERED BY: DAMASO	TIME OF CALL: 0900 11/9/00
CALL TAKEN BY: SMITH	TIME READY: 1500 11/9/00
CREW CALLED: KORBE--ZIMMERMAN--BULK	TIME:



JOB LOG

ORDER NO. 70006

TICKET #

977645 ORIGINAL

TICKET DATE

REGION North America	NWA/COUNTRY MidCont U.S.A.	BDA / STATE Ks	COUNTY Pawnee
MBU ID / EMP # MCL10110 106328	EMPLOYEE NAME Nick Kerbo	PSL DEPARTMENT 21	
LOCATION Liberal	COMPANY Cheyenne Poly (Ks Nat)	CUSTOMER REP / PHONE Damese	
TICKET AMOUNT \$702692	WELL TYPE 02	API / UWI #	
WELL LOCATION 24N, 46E P Sw 1/4	DEPARTMENT Connect	JOB PURPOSE CODE 010	
LEASE / WELL # Miller #1-2	SEC / TWP / RNG 2-26S-32W		

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. Kerbo 106328 15			
A. Zimmerman 202875 12			
R. Howard 209544 21			
J. Thomas 198516 19			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1100							called out
	1530							Hold Safety only
	1600							Rig delp Rig broke down Rig running again
								ST FE Break circ
	0651					1500		Test lines
	0707	37	0			75		st wtr
	0721	7	3/0			150		st lead cont 145 sks @ 12.3" / min
	0742	7	5/0			175		st tail cont 135 sks @ 14.8" / min
	0757		30					rod cont
	0758							ref plug
	0759	35	0			50		st disp
	0759	7	13			75		catcher mt
	0724	28	24			150		down rate
	0729	24	34			200		Bump plug
	0730							ref plug Don't hold
								circ h/o bbls to pit 27 sks
								Job complete Thank you Nick & crew



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 MILLER 1-2, FINNEY
LEASE NAME / OFFSHORE AREA
MILLER
WELL NUMBER
1-2
WELL PERMIT NO.
ADDRESS
*
CITY, STATE, ZIP CODE
GARDEN CITY KS 67846 US

ORIGINAL

TICKET TYPE	COMPANY CODE	HALLIBURTON ORDER NO.
Services	1100	980307
CUSTOMER P.O. NO.	JOB DATE	PRIMARY SERVICE LOC.
N/A	11/11/2000	Liberal, KS, USA

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

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
10	7523	CEMENT PRODUCTION CASING - BOM Liberal, KS, USA Hwy 54 West	1.00	JOB	0.00	0.00
		JP035				
20	1	MILEAGE FROM NEAREST HES BASE,/UNIT Liberal, KS, USA Hwy 54 West	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	MILEAGE FOR CEMENTING CREW,ZI Liberal, KS, USA Hwy 54 West	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		

*Field Copy
CEMENT
PRODUCTION
CASING
11-12-00*

INVOICE INSTRUCTIONS	
PAYMENT TERMS	HALLIBURTON APPROVAL
Net due in 20 days	
HALLIBURTON OPERATOR / ENGINEER	CUSTOMER SIGNATURE
	<i>Steve Lanning for Cheyenne Drilling</i>

TOTAL FROM THIS PAGE	335.65
TOTAL FROM NEXT PAGE(S)	10,647.23
SUBTOTAL	10,982.88
TAXES	501.37
GRAND TOTAL	11,484.25
	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	467.16-	467.16-
			1.00	JOB	448.84	448.84
		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	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				
90	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				

ORIGINAL



ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	LOCATION					
100	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				
110	100004614	BSKT,CEM,5 1/2 CSG,SLIP-ON,STL BWS,CANV				
	Liberal, KS, USA Hwy 54 West		1.00	EA	211.00	211.00
			1.00	EA	88.62-	88.62-
			1.00	EA	122.38	122.38
		806.71430				
		BASKET - CEMENT - 5-1/2 CSG - SLIP-ON				
		- STEEL BOWS - CANVAS				
120	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				
130	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				
140	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				

ORIGINAL



ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
170	14241 Hugoton, KS, USA	SBM Halliburton Light Premium Plus	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			
210	100012205 Hugoton, KS, USA	Cement- Class C / Premium Plus (Bulk)	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			
220	100005049 Hugoton, KS, USA	Chemical - Flocele (25 lb sk)	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			
230	100003646 Hugoton, KS, USA	CHEMICAL - HALAD-322 - 50 LB SACK	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			
240	3965 Hugoton, KS, USA	HANDLE&DUMP SVC CHR, CMT&ADDITIVES,ZI	605.00	CF	1.94	1,173.70
			605.00	CF	0.81-	492.95-
			605.00	CF	1.13	680.75
			500-207 With the following configuration: NUMBER OF EACH			
			605	each		

ORIGINAL



ORIGINAL

Halliburton Energy Services, Inc.

ITEM	MATERIAL	DESCRIPTION	QTY.	UNIT	UNIT PRICE	AMOUNT
250	16119	MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN				
	Hugoton, KS, USA		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		
260	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.				
	INVOICE AMOUNT					10,982.88
	Sales Tax - State					408.29
	Sales Tax - County					9.74
	Sales Tax - City/Loc					83.34
	INVOICE TOTAL					11,484.25
						US Dollars

ORIGINAL

COMPANY CHEYENNE DRILLING	OWNER KANSAS NAT	DATE 11/9/00
BILLING ADDRESS		
CONTRACTOR CHEYENNE #8	API	SEC, TWN, RNG SEC. 2-26S-32W
LEASE MILLER	WELL NO. 1-2	COUNTY/STATE FINNEY CO, KS RT MILEAGE 90/45
DIRECTIONS SUBLETTE, KS--NORTH ON HWY 83 TO PLYMEL SCHOOL, CONTINUE 1 NORTH, 3 3/4 EAST SOUTH TO LOCATION.		

QUOTE: 20519398	SO--980307	KB--980308					
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							

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	TYPE	ADDITIVES PUMP 250 GALLON 10% MSA ACID 1ST PART DISPL.		
# 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-XP	
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	
REMARKS				

*CEMENT PRODUCTION
 CASING
 11-12-00*

ORDERED BY: DAMASO	TIME OF CALL: 1800 11/9/00
CALL TAKEN BY: SMITH	TIME READY: 1630 11/11/00
CREW CALLED: DAVIS--HENRY--BULK--ACID TRANSPORT	TIME:

JOB LOG

ORDER NO. 70006

TICKET #	TICKET DATE
ORIGINAL	
BDA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE	

REGION North America	NWA/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
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		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1100							called out for job moved over from P1100 to P1100
	1400							OUT OF GOLF 1/2" RIG UP TO RUN 5/8" ID
								Start Logging Down 12" P
								OUT OF GOLF 1/2" RIG UP TO RUN 5/8" ID
	2100							Start Street E.F.F.
	0515							CJY ON BOLT Hook up 5/8" P.C. & CITE 1100
	0530							UPK CITE 1100
	0535							CITE 1100
	0600							Flow CITE 1100 from 1100
	0605							PA. FASE CITE
	0609	600	20			170		PUMP 1100 flush
	0613	600	154			170		PUMP 1100 191 13.3"
	0635	600	35			220		PUMP 1100 191 14.8"
	0648	0				0		Shut down down pump & wash up
	0655	600	6			150		PUMP 2.50 gal 1100 1100
	0659	600				200		PUMP 1100 1100
	0700	600	59			350		3.0 bbl in 1100 1100 *
	0706	200	59			750		47 bbl in 1100 1100
	0710	200				750		Long plug
	0716							1100 1100
	0720							Job over
								(Prints for cement log)
								Flow CITE

356 bbl cmt to pit
755 cmt in pit

Cement Log Starts
11-22-00



JOB SUMMARY

ORDER NO. 70006

TICKET #	980307	TICKET DATE	11-20-09
BDA / STATE	TX	COUNTY	ORIGINAL

REGION	North America	NWA/COUNTRY	USA
MBU ID / EMP #	MULTI003 106704	EMPLOYEE NAME	TYSON DAVIS
LOCATION	Liberty W	COMPANY	Cheyenne NP12
TICKET AMOUNT		WELL TYPE	02
WELL LOCATION	Liberty #56 C.S.	DEPARTMENT	Z.I
LEASE / WELL #	M1101 1-2	SEC / TWP / RNG	2-26-32
PSL DEPARTMENT	Z.I	CUSTOMER REP / PHONE	601-11950
API / UWI #		JOB PURPOSE CODE	035

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
TYSON DAVIS 106704			
TYSON DAVIS 212575			
BROWN			
J. L. ...			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
1029037	70						
27447	45						
...	45						

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		H
Float Shoe		
Guide Shoe 100# 5/8"	1	O
Centralizers 24	8	
Bottom Plug 6" BBI	1	W
Top Plug 6"	1	
Head P.S.	1	C
Packer		
Other 1395401	1	O

MATERIALS

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

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
11-11-2009	1130		11-11-2009	11-17-2009	11-17-2009
			1400		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5 7/8	43	2672	
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	
				Crust 5 7/8 L.S.
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	
	Disp.	Overall
FEET	CEMENT LEFT IN PIPE	
	Reason	

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	420	PT	13	1/4" Flovate	2.06	120
1	150	PT	13	.5% Hulsol 322 1/4" Flovate	1.32	140

Circulating	Displacement	35 BBLs, CEMENT TO PIT	Preflush:	Gal - BBI 20	Type	...
Breakdown	Maximum	95 SACKS	Load & Bkdn:	Gal - BBI	Pad:	BBI - Gal
Average	Frac Gradient		Treatment	Gal - BBI 750 P.S.	Disp:	BBI - Gal
Shut In: Instant	5 Min	15 Min	Cement Slurr	Gal - BBI 154		
			Total Volume	Gal - BBI		

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

THE INFORMATION STATED HERFIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____