

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

API NO. 15- 095-20721 0001

County Kingman

N/2 - SE - SE - Sec. 20 Twp. 27S Rge. 10 X X W

Operator: License # 32119

1200 Feet from (S)N (circle one) Line of Section

Name: Northern Natural Gas

800 Feet from (E)W (circle one) Line of Section

Address P.O. Box 178

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

City/State/Zip Cunningham, KS 67035

Lease Name Cannon Well # 20-33

Field Name Cunningham

Purchaser: N/A

STORAGE

~~Reservoir~~ Formation Simpson/Viola

Operator Contact Person: Dan Dobbins

Elevation: Ground 1712 KB 1721

Phone (316)298-5111

Total Depth 4419 PBDT 4403

Contractor: Name: Pratt Well Service

Amount of Surface Pipe Set and Cemented at 1466 Feet

License: 5893

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: None

If yes, show depth set _____ Feet

Designate Type of Completion

If Alternate II completion, cement circulated from 1466

New Well Re-Entry X Workover

feet depth to Surface w/ 650 sx cmt.

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry X Other (Core, WSW, Expl., Cathodic, etc)
Gas Storage

Drilling Fluid Management Plan REWORK JH 12-22-97
(Data must be collected from the Reserve Pit)

If Workover:

Chloride content 14,000 ppm Fluid volume 220 bbls

Operator: Northern Natural Gas

Dewatering method used N/A

Well Name: Cannon 20-33

LOCATION OF FLUID DISPOSAL

Comp. Date 7-25-78 Old Total Depth 4343

Location of fluid disposal if hauled offsite:

XXX RAN LINER INTO LOWER PART OF HOLE

DEC 15 1997 12-15-97

X Deepening XXX Re-perf. Conv. to Inj/SWD

Operator Name Geary Mud Disposal

Plug Back PBDT

CONSERVATION DIVISION
Lease Name Gray License No. 284168

Commingled Docket No. _____

XXX Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

Quarter Sec. 15 Twp. 14N Rng. 7W

9-13-97 9-15-97 9-23-97
Date of START Date Reached TD Completion Date of
of WORKOVER WORKOVER

County Garfield, OK Docket No. 284168

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 Dan Dobbins

Title Sr. Reservoir Analyst Date 12-10-97

Subscribed and sworn to before me this 10th day of December, 1997.

Notary Public Karen Elliott

Date Commission Expires January 25, 1999

NOTARY PUBLIC - State of Kansas
KAREN ELLIOT
My Appl. Exp. 1-25-99

K.C.C. OFFICE USE ONLY
F X Letter of Confidentiality Attached
C X Wireline Log Received
C _____ Geologist Report Received

Distribution
X KCC _____ SWD/Rep _____ NGPA
_____ KGS _____ Plug _____ Other
(Specify)

SIDE TWO

Operator Name Northern Natural Gas Lease Name Cannon Well # 20-33
 Sec. 20 Twp. 27S Rge. 10 East County Kingman West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Viola	4266	-2545
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Simpson	4358	-2637

List All E.Logs Run:
 Cement Bond Log
 Dual Induction Laterolog
 Compensated Density Dual Spaced Neutron

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
Conductor	20"	13 3/8"	48#	114	Common	145	-----
Surface	12 1/4"	8 5/8"	24#	1466	Reg Poz	650	1/4 Flo 3%CC 18% Salt
Production	7 7/8"	5 1/2"	15 1/2#	4343	Reg Poz		1/4 Flo 3% CC 18% Salt

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose: Set Liner	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	4300-4419	Standard	25	5# Gil, 18% Salt, 1/4# Flocele Calseal

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
	4	4351-4367		
4	4268-4288			

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	4333	4300	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. Storage Observation Well	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
----------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: Other (Specify) _____

ORIGINAL



Natural gas. Electricity.
Endless possibilities.™

December 11, 1997

Kansas Corporation Commission
130 South Market #2078
Wichita, KS 67202-3802

RECEIVED
STATE BOARD OF CORPORATION COMMISSION

DEC 15 1997

RE: Form AC0-1

CONSERVATION DIVISION
WICHITA, KS 67202

Please find enclosed the completion reports for the Greider 35-21, Cannon 20-33, House 2-34, and Funke 25-11 in our storage field. The cementing tickets and electrical logs are also included. There will not be any geologist well report filed as we did not have a geologist on site for the well deepening.

If you need more information please call me at 316-257-5146 or 316-298-5111.

Thanks,

A handwritten signature in cursive script that reads "Rebecca Mosshart".

Rebecca Mosshart
Sr. O & M Tech

ORIGINAL



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

INVOICE

HALLIBURTON ENERGY SERVICES, INC.

INVOICE NO.	DATE
307982	09/17/1997

WELL LEASE NO./PROJECT	WELL PROJECT LOCATION	STATE	OWNER		
JANNON 20-33	KINGMAN	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
PRATT	PRATT WELL SERVICE	SHOWN BELOW	09/17/1997		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	PILE NO.
534280	W A MERRICK		L 4420 7 008	COMPANY TRUCK	30330

NORTHERN NATURAL GAS CO
BOX 178
CUNNINGHAM, KS 67035

ORIGINAL

DIRECT CORRESPONDENCE TO:
1102 E. 8TH
HAYS KS 67601
913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION LINER					
000-117	MILEAGE CEMENTING ROUND TRIP	36 MI		3.20	115.20
		1 UNT			
000-119	MILEAGE FOR CREW	36 MI		1.95	70.20
		1 UNT			
009-407	CEMENTING LINERS/SHORT CASING	4394 FT		2,019.00	2,019.00
009-019		1 UNT			
504-308	CEMENT - STANDARD	50 SK		10.83	541.50
508-291	GILSONITE BULK	125 LB		.50	62.50
509-968	SALT	300 LB		.17	51.00
507-775	HALAD-322	14 LB		7.70	107.80
507-970	D-AIR 1, POWDER	6 LB		3.65	21.90
509-406	ANHYDROUS CALCIUM CHLORIDE	1 SK		46.90	46.90
507-210	FLOCELE	6 LB		1.90	11.40
508-127	CAL SEAL 60	1 SK		28.00	28.00
500-207	BULK SERVICE CHARGE	61 CFT		1.55	94.55
500-306	MILEAGE CMTG MAT DEL OR RETURN	47.43 TMI		1.18	110.00MN
JOB PURPOSE SUBTOTAL					3,279.95
INVOICE SUBTOTAL					3,279.95
DISCOUNT - (BID)					655.99-
INVOICE BID AMOUNT					2,623.96
*- KANSAS STATE SALES TAX					EXEMPT
*- PRATT COUNTY SALES TAX					EXEMPT
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$2,623.96

RECEIVED
STATE COMPTROLLER COMMISSION

DEC 15 1997

CONSERVATION DIVISION
Wichita, Kansas

Simpson Project 543828 Leon Fisher

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer



TICKET CONTINUATION

CUSTOMER COPY

TICKET No. _____

HALLIBURTON ENERGY SERVICES

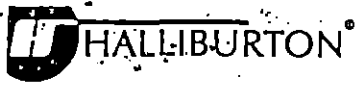
FORM 1911 R-10

CUSTOMER: Northern Natural Gas Co WELL: Canon 20-23 DATE: 7-12-97 PAGE: 2 OF: 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-308	516.00261	1			Standard Cement	50	SK			10.83	541.50
508-291	516.00337	1			Calsonite Bld 5#/SK	125	SK			50	6250
509-968	516.00158	1			Salt Bld 18.70	300	LS			17	5100
507-775	516.00144	1			Haled-322 Bld 6.70	14	LS			7.90	1078
507-970	890.15764	1			D-A, 1 Bld .25.70	6	LS			3.65	2190
509-406	890.50812	1			Calcium Chloride Bld 1.70	1	SK			46.90	46.90
507-210	890.50071	1			Flocal Bld .25#/SK	6	LS			1.90	11.40
508-127	890.50131	1			Calson Bld 5.70	1	SK			28.00	28.00
					Loaded on TRK # 52530 - Front						
					ORIGINAL						
500-207		1			SERVICE CHARGE	CUBIC FEET		61			94.50
500-306		1			MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	Minimum Charge		110.00
						5270	18				

No. B 338309

CONTINUATION TOTAL



JOB LOG 4.00-3

TICKET #	307, 382	TICKET DATE	7-17-97
REGION	North America	NW/COUNTRY	USA
BDA / STATE	KS	COUNTY	Kingman
BU ID / EMP #	61622	EMPLOYEE NAME	JOE A. SERRA
LOCATION	MATT 25555	PSL DEPARTMENT	SLFM
TICKET AMOUNT	279.95	COMPANY	UNIGE
WELL TYPE	OS	CUSTOMER REP / PHONE	ALC MERRICK
AP / UWI #		JOB PURPOSE CODE	055 ORIGINAL
WELL LOCATION	CUNNINGHAM LS	DEPARTMENT	CMT
EASE / WELL #	ROUND 20-33	SEC / TWP / RANG	

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
SERRA 61622 1.5	BAKER 65447 1.5	B. JOHNSON	1.5

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
1	16:00							CALLED OUT
	16:15							ON LOC SAFETY MTG
	16:15							RES T.T. H. WITH LINIC / AMVIC
	16:50							LINIC ON BOTTOM BLOCK GCL WITH PLUID PUMP
	16:55							Hook up to WLL
	16:29	2	18					PUMP 18 BBL'S 1790 KCL 1120
	16:39		3					PUMP 3 BBL'S FRESH H2O SPICER
	16:42		7.1					MTX: PUMP 25 SKJ CMT 19.7 PPG
	16:49							SHUT DOWN
								Clear LINES: RELEASE PLUG
	16:45	2						START Disp
	16:51		19			150		CAUGHT PRT
			19.9			700		SHUT LINIC PWS
								Cont Disp
	16:55		20.7					PLUG DOWN
								Don't see plug down
								TOH WITH Tbj
	17:30							WASH up Rinse up OFF LOC

THANK YOU
CALL ME
TODD
CERRA
12400