



SIDE TWO

Operator Name Kansas Natural Gas Lease Name Hamlin Well # 2 CG-32

Sec. 32 Twp. 24S Rge. 34  East  West County Finney

WELL LOG

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

Drill Stem Tests Taken  Yes  No  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

Name	Top	Bottom
Herrington	2498'	
Krieder	2515'	
Winfield	2551'	
Ft. Piley	2610'	
Florence	2674'	
Werford	2751'	
Council Grove	2771'	
Cottonwood	2911'	
T.D. Log	2948'	

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	12 1/2"	8 5/8"	24#	688-93'	C Lite	300	2% CC, 1# Flocel per sk
Production		5 1/2"	14-15#	2991'	H Lite	300	1# Flocel
					50/50poz	200	2% gel, 10% salt
							4/10 of 1% Halide

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

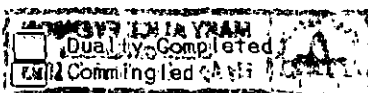
TUBING RECORD Size Set At Packer at Liner Run  Yes  No

Date of First Production Producing Method  Flowing  Pumping  Gas Lift  Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio	Gravity

METHOD OF COMPLETION Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease



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

Operator: License # 5269  
Name Kansas Natural Gas  
Address Box 428  
City/State/Zip Eureka, KS 67045

Purchaser K.N. RORRY

Operator Contact Person Kevin Hough  
Phone (316) 583-5202

Contractor: License # 5422  
Name Abercrombie Drilling, Inc.

Wellsite Geologist Kevin E. Hough  
Phone 316-583-5202

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

If OWD: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

Spud Date 7-11-89 Date Reached TD 7-15-89 Completion Date 12/9/89

Total Depth 2992' PBTD 688.93'

Amount of Surface Pipe Set and Cemented at...feet  
Multiple Stage Cementing Collar Used? Yes No  
If yes, show depth set...feet  
If alternate 2 completion, cement circulated from...feet depth to...w/...SX cmt  
Cement Company Name  
Invoice #

API NO. 15-055-20,868-0000

County Finney

C. N/2 NE NW Sec 32 Twp 24S Rge 34 East X West

5230 Ft North from Southeast Corner of Section  
3454 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

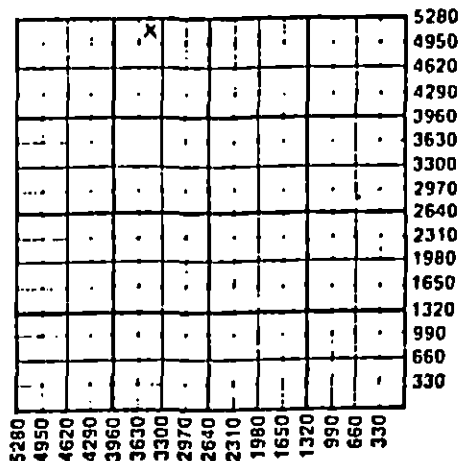
Lease Name Hamlin Well # 2 CG-32

Field Name Panama

Producing Formation Council Grove

Elevation: Ground 2979' KB 2984'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal  
Docket # Repressuring

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717  
Source of Water:  
Division of Water Resources Permit #

Groundwater...Ft North from Southeast Corner  
(Well) ...Ft West from Southeast Corner of  
Sec Twp Rge East West

X Surface Water 3432 Ft North from Southeast Corner  
(Stream, pond etc.) 792 Ft West from Southeast Corner  
Kearney Sec 14 Twp 24S Rge 35 East X West

Other (explain) (purchased from city, R.W.D. #)

Dale Unruh

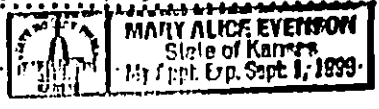
INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential 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 drillers time log shall be attached with this form. 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 [Signature] Drilling Superintendent Date 11-2-89

Subscribed and sworn to before me this 2nd day of November 1989.

Notary Public [Signature] Date Commission Expires 1-1-93



K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C Wireline Log Received  
C Drillers Timelog Received  
Distribution  
KCC SWD/Rep NGPA  
KGS Plug Other (Specify)

Operator Name Kansas Natural Gas Lease Name Hamlin Well 2 CG-32

Sec. 32 Twp. 24S Rge. 34 County Finney  
 East  West

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PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
three	2796-2810'	3000 gal. acid/95,000	2796'
three	2913-2820'	gal. slick water with	to
two	2822-2826'	5000 lbs. 100 mesh sand	2826'
		180,000 lbs. 12/20 sand at 80 BPM	

TUBING RECORD

Size 2 3/8" Set At 2851' Packer at

Liner Run  Yes  No

Date of First Production

Producing Method

Flowing  Pumping  Gas Lift  Other (explain)

Estimated Production Per 24 Hours

Oil	Gas	Water	Gas-Oil Ratio	Gravity
Bbls	400,000 MCF	Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Sold  Used on Lease

Open Hole  Perforation  Other (Specify)

Dually Completed  Commingled

ORIGINAL

INVOICE

HALLIBURTON SERVICES

AUG 07 1989

131 MI 100  
P.O. BOX 951046  
DALLAS, TX 75395-1046

15-055-20868-0000

A Halliburton Company

INVOICE NO.	DATE
823123	07/12/19

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
MLIN 2CG-32		FINNEY		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
BERAL		ABERCROMBIE		CEMENT SURFACE CASING		07/12/198
CT. NO.	CUSTOMER AGENT		VENDOR NO.	CUSTOMER P.O. NUMBER		SHIPPED VIA
9428	KEVIN F HOUGH					COMPANY TRUCK
						FILE NO.
						8003

BERENTZ DRILLING CO  
BOX 428  
EUREKA, KS 67045

DIRECT CORRESPONDENCE TO:  
SUITE 600  
COLORADO DERBY BUILDING  
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	CASING AREA - MID CONTINENT				
0-117	MILEAGE	3 ✓ 40	MI	2.20	70.40 88.00
		1	UNT		
1-016	CEMENTING CASING	6 <sup>30</sup> 688	FT	550.20	527 550.20
		1	UNT		
0-016	CEMENTING PLUG SW ALUM TOP	8 5/8	IN	90.00	82. ✓ 90.00
		1	EA		
1-018	CEMENTING CASING - ADD HRS	2	HR	140.00	280.00
		1	UNT		
A	CASING SHOE - 8 5/8" 8RD THD.	1	EA	161.00	~ 161.00
30.2171					
A	INSERT FLOAT VALVE - 8 5/8" 8RD	1	EA	171.00	~ 171.00
15.19502					
15.19414	FILL-UP UNIT 7"- 8 5/8"	1	EA	29.00	~ 29.00
07.93059	CENTRALIZER 8-5/8" MODEL S-4	2	EA	53.00	~ 106.00
07.64056	FASGRIP LIMIT CLAMP 8 5/8"	1	EA	13.75	~ 13.75
4-120	HALL. LIGHT - PREMIUM PLUS	? 150	SK	6.29	~ 943.50
4-050	PREMIUM PLUS CEMENT	? 150	SK	7.08	~ 1,062.00
9-406	ANHYDROUS CALCIUM CHLORIDE	6	SK	25.75	77.25 154.50
7-210	FLOCELE	75	LB	1.21	45.98 90.75
0-207	BULK SERVICE CHARGE	312	CFT	.95	296.40
0-306	MILEAGE QMTG MAT DEL OR RETURN	569.760	TMI	.70	398.83
	INVOICE SUBTOTAL				4,434.93
	DISCOUNT-(BID)				975.66-
	INVOICE BID AMOUNT				3,459.27
	*-KANSAS STATE SALES TAX				116.59
	***** CONTINUED ON NEXT PAGE *****				

RECEIVED  
STATE CORPORATION COMMISSION  
DEC 27 1989  
CONSERVATION DIVISION  
Wichita, Kansas

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT. CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 2% OF THE AMOUNT OF THE UNPAID ACCOUNT.

ORIGINAL  
INVOICE

HALLIBURTON SERVICES

A Halliburton Company

REMIT TO  
P.O. BOX 951046  
DALLAS, TX 75395-1046

15-055-20868-0000

INVOICE NO.	DATE
823123	07/12/1989

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
LIN 2CG-32		FINNEY		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
GENERAL		ABERCROMBIE		CEMENT SURFACE CASING		07/12/1989
LINE NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA		FILE NO.
0428	KEVIN F HOUGH			COMPANY TRUCK		8003

BERENTZ DRILLING CO  
BOX 428  
EUREKA, KS 67045

DIRECT CORRESPONDENCE TO:  
SUITE 600  
COLORADO DERBY BUILDING  
WICHITA, KS 67202-0000

INVOICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	*-SEWARD COUNTY SALES TAX				27.44
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$3,603.30

3149.87

RECEIVED  
STATE CORPORATION COMMISSION  
DEC 27 1989  
CONSERVATION DIVISION  
Wichita, Kansas

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

ORIGINAL

INVOICE

# HALLIBURTON SERVICES

A Halliburton Company

P.O. BOX 951046  
DALLAS, TX 75395-1046

AUG 10 1989

15-055-20868-0000

INVOICE NO.	DATE
802925	07/15/1989

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
MLIN 2C6-32		FINNEY		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
BERAL	ABERCROMBIE DRLG	CEMENT PRODUCTION CASING		07/15/1989	
CT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
9428	KEVIN F HOUGH			COMPANY TRUCK	8000

BERENTZ DRILLING CO  
BOX 428  
EUREKA, KS 67045

DIRECT CORRESPONDENCE TO:  
SUITE 600  
COLORADO DERBY BUILDING  
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	DISCOUNT - (BID)				1,397.21-
	INVOICE BID AMOUNT				4,953.84
	*-KANSAS STATE SALES TAX				174.54
	*-SEWARD COUNTY SALES TAX				41.08
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$5,169.46

RECEIVED  
STATE CORPORATION COMMISSION  
DEC 27 1989  
CONSERVATION DIVISION  
Wichita, Kansas

**TERMS** INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

**AND  
 TICKET CONTINUATION**

FOR INVOICE AND  
 TICKET NO.

823123

15-055-20868-0000

DATE <b>7-11-89</b>	CUSTOMER ORDER NO.	WELL NO AND FARM <b>Hamlin 200-32</b>	COUNTY <b>Finney</b>	STATE <b>KS</b>
CHARGE TO <b>Barentz Drlg.</b>		OWNER <b>Same</b>	CONTRACTOR	No. <b>B 807247</b>
MAILING ADDRESS		DELIVERED FROM <b>Hugoton</b>	LOCATION CODE <b>50335</b>	PREPARED BY <b>Rick Rawlins</b>
CITY & STATE		DELIVERED TO <b>Loc. SE/Deerfield, KS</b>	TRUCK NO. <b>1544-7649</b>	RECEIVED BY <b>EBERSOLE</b>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-120		2	B	Halliburton Light Cement	150	sk			6.29	943 50	
504-050	516.00265	2	B	Premium Plus Cement	150	sk			7.08	1062 00	
509-406	890.50812	2	B	Calcium Chloride blended 2%	6	sk			25.75	154 50	
507-210	890.50071	2	B	Floccels blended 1/2 lb/sk	75	lb			1.21	90 75	
<b>THIS IS NOT AN INVOICE</b>											
				Returned Mileage Charge							
				TOTAL WEIGHT		LOADED MILES		TON MILES			
				SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET			
500-207		2	B	SERVICE CHARGE				CU. FEET	312 .95	296 40	
500-306		2	B	Mileage Charge				CU. FEET	569.76 .70	398 83	
				TOTAL WEIGHT <b>28488</b>		LOADED MILES <b>40</b>		TON MILES			
No. <b>B 807247</b>									CARRY FORWARD TO INVOICE	SUB-TOTAL	<b>2945 98</b>



