

Operator Name: Kansas Natural Gas Operating, Inc. Lease Name: Voshell Well #: 1-A (Replace)
 Sec. 19 Twp. 29 S. R. 32 East West County: Haskell

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dual - Spaced Gamma Ray Neutron	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>B/Stone Corral</td> <td>+1088'</td> <td>1839'</td> </tr> <tr> <td>T/Hollenberg</td> <td>+331'</td> <td>2596'</td> </tr> <tr> <td>T/Herrington</td> <td>2635'</td> <td>+292'</td> </tr> <tr> <td>T/Krider</td> <td>2654'</td> <td>+273'</td> </tr> <tr> <td>T/Winfield</td> <td>2716'</td> <td>+211'</td> </tr> <tr> <td>Rotary Total Depth</td> <td>2740'</td> <td>+187'</td> </tr> <tr> <td>Log Total Depth</td> <td>2741'</td> <td>+186'</td> </tr> </table>	Name	Top	Datum	B/Stone Corral	+1088'	1839'	T/Hollenberg	+331'	2596'	T/Herrington	2635'	+292'	T/Krider	2654'	+273'	T/Winfield	2716'	+211'	Rotary Total Depth	2740'	+187'	Log Total Depth	2741'	+186'
Name	Top	Datum																							
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CASING RECORD <input 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 Pipe	12 1/4"	8 5/8"	23#	728'	Common	320	10% Salt - 5% Calset
Production Pipe	7 7/8"	5 1/2"	14#	2739'	Common	350	10% Salt - %5 Calset

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				

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Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record	Depth
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	
4 Shots P/Foot	2640' - 2648' KB	Acid: 2,500 Gallons of 15% Fe-MCA Acid	
	2658' - 2668' KB	and 120 Bbls. of 2% KCL.	
	2684' - 2690' KB		
	KB = 7' (96 Holes)	Frac: 60,000# of 16/30 Sand Nitrogen foam	
		at 45 Bbls. per minute at 1# - 5# per gallon.	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8" EUE 8 Rd Tubing	2686'	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			Producing Method		
Pending Pipeline Connection			<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
		NA	NA		0.7206

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2640' - 2648' KB, 2658' - 2668' KB
(If vented, Submit ACO-18.) Other (Specify) _____ 2684' - 2690' KB

DRILLING & GEOLOGICAL SUMMARY

ORIGINAL

OPERATOR: Kansas Natural Gas, Inc.

KCC #: 5269

WELL NAME: Voshell #1-A

API #: 15-081-21579

LOCATION: 250' FSL, 4697' FEL sec19-T29S-R32W

COUNTY: Haskell

ELEVATIONS: GL-2920', KB-2927'

TOTAL DEPTH: 2740'

SPUD DATE: 04/27/2005

DRILLING COMPLETED: 04/28/2005

DRILLING CONTRACTOR: Cheyenne Drlg.-Rig#8

KCC #: 33375

SURFACE CASING SIZE: 8 5/8" **WEIGHT:** 23#

GRADE: J-E

DEPTH: 728'

CEMENT: 195sx of A-Con, 125sx of Common

CASING EQUIPMENT: "Texas" pattern shoe, baffle plate, 3 centralizers

COMMENTS: circulated 67sx cement to pit. Deviation-3/4°

PRODUCTION CASING SIZE: 5.5" **WEIGHT:** 14# **GRADE:** J-55 **DEPTH:** 2739'

1st STAGE CEMENT: 200sx A-Con, 150sx AA-2

2nd STAGE CEMENT:

CASING EQUIPMENT: guide shoe w/integral latch-down baffle, 10 centralizers.

COMMENTS: circulated 60 sx cement to pit. Deviation - 2°

OPEN-HOLE LOGS: none

CASED-HOLE LOGS: GRN-CCL

SIGNIFICANT DEPTHS: (log depths measured from-KB @ 2927')

horizon	depth	datum	remarks
B/Stone Corral	1839'	+1088'	
T/Hollenberg	2596'	+ 331'	
T/Herington	2635'	+ 292'	perforated 2640'-2648'
T/Krider	2654'	+ 273'	perforated 2658'-68', 2684'-90'
T/Winfield	2716'	+ 211'	
Rotary total depth	2740'	+ 187'	
Log Total depth	2741'	+ 186'	

PERFORATIONS: 2640'-2648', 2658'-2668', 2684'-2690', (all w/4spf).

ACID TREATMENTS: 2500 gallons 15% FE-MCA acid at average rate of 5.9 bpm at average pressure of 124#, with maximum pressure of 957#. ISIP was 0#.

FRACTURE TREATMENTS: 60,000# 15-30 sand; 288 bbls treated water; 245,000 scf N₂.

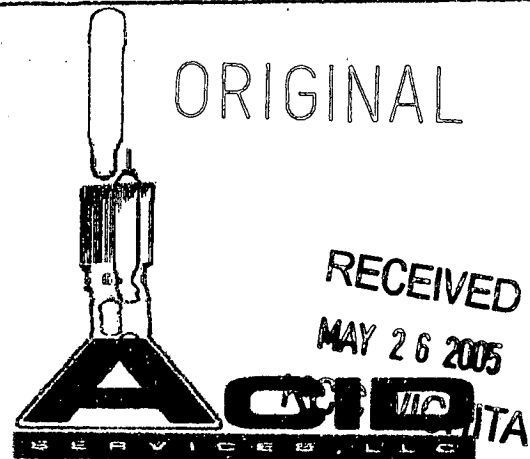
REMARKS:

Ron Osterbuhr
05/11/2005

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Cement Callsheet

COMPANY	Cheyenne Drilling		API NUMBER				
H2S WELL ?	CONTRACTOR	Cheyenne #8		COUNTY	Haskell	STATE	Ks
LEASE	Voshell	WELL #	#1A	SEC	24	TWP	29S
DIRECTIONS	Sublette, Kansas--2 miles North--1 mile West						

(8 5/8" SURFACE CEMENT JOB)

Surface	750'	Long String	Squeeze	Casing Size	8 5/8"	Thread	8rd	Weight	24#
PTA		Intermediate	Liner	Tubing /Drill Pipe Size		Thread		Weight	
Equipment	Pump truck & Bulk Truck			Packer		Bridge Plug		Plug Container	YES
				Swags	YES	Mud		Squeeze Manifold	

Remarks:

CEMENT DATA

LEAD	Weight PPG 12.3 ppg	Type	A-Con (common)		Additives:	3% CC, 1/4# cellflake		
Sacks	Excess	Yield Ft ³ /sk	Water Gal/sk					
195 sk	100%	2.36 cuft/sk	14.01 gallons					
TAIL	Weight PPG 14.8 ppg	Type	Class "A"		Additives:	2% CC, 1/4# cellflake		
Sacks	Excess	Yield Ft ³ /sk	Water Gal/sk					
125 sk	100%	1.37 cuft/sk	6.64 gallons					
LEAD	Weight PPG	Type	TOTAL CEMENT SLURRY - 134 BARRELS. TOTAL VOLUME WAS - 175 BARRELS.		Additives:	DISPLACEMENT VOLUME WAS 44 BARRELS BUMP PLUG 750 H.		
Sacks	Excess	Yield Ft ³ /sk	Water Gal/sk		CIRCULATED APPROXIMATELY 67 SACKS TO PIT			

FLOAT EQUIPMENT

PART #	SIZE	DESCRIPTION	#USED	#RETURNED
F800		Threadlock Kit	1 ea	
F145	8 5/8"	Top Rubber Plug	1 ea	
F233	8 5/8"	Flapper Type Insert Float Valve	1 ea	
F103	8 5/8"	Centralizers	3 ea	

Cement Callsheet



COMPANY	Cheyenne Drilling		API NUMBER						
H2S WELL ?	CONTRACTOR	Cheyenne #8		COUNTY	Haskell		STATE	Kansas	
LEASE	Voshell	WELL #	1-A	SEC	19	TWP	29S	RANGE	32S
DIRECTIONS									

5 1/2" PRODUCTION PIPE CEMENT JOB

Surface	Long String	2800'	Squeeze	Casing Size	5 1/2"	Thread	8rd	Weight	15.5#
PTA	Intermediate		Liner	Tubing /Drill Pipe Size		Thread		Weight	
Equipment	Pump truck & 2 Bulk truck			Packer		Bridge Plug		Plug Container	YES
				Swage	YES	Mud		Squeeze Manifold	

Remarks:
Loaded on 338 Side Load

CEMENT DATA

LEAD	Weight PPG	14.8 ppg	Type	AA-2 (common)		Additives:	10% Salt, 5% Calset, .2% Defoamer, .8% FLA-322, 1/4# cellflake		
Sacks	Excess	35%	Yield Ft ³ /sk	1.49 cuft/sk	Water Gal/sk	7.12 gallons			
TAIL	Weight PPG	12.3 ppg	Type	A-Con (common)		Additives:	3% CC, 1/4# cellflake		
Sacks	Excess	35%	Yield Ft ³ /sk	2.36 cuft/sk	Water Gal/sk	14.01 gallons			
LEAD	Weight PPG		Type			Additives:			
Sacks	Excess		Yield Ft ³ /sk		Water Gal/sk				

FLOAT EQUIPMENT

PART #	SIZE	DESCRIPTION	#USED	# RETURNED
F191	5 1/2	Regular Guide Shoe	1 ea	
F101	5 1/2"	Turbolizers	10 ea	
F171	5 1/2"	IR Latch Down Plug & Baffle	1 ea	
F800		Threadlock Kit	1 ea	
C302		Mud Flush	500 gallons	

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(Circulated 30 BBS. / 60 SACKS BACK TO PIT)

Ordered By	Cheyenne #8	Date of Job	4-26-05
Call Taken By		Time Ready	

TREATMENT REPORT



Customer ID	Date
Customer <i>K'S NATURAL</i>	<i>4-29-05</i>
Lease <i>VOSHALL</i>	Lease No.
	Well # <i>1-A</i>

Field Order # <i>7790</i>	Station <i>LIBERAL</i>	Casing <i>5 1/2</i>	Depth <i>2793</i>	County <i>HASKELL</i>	State <i>KS</i>
Type Job <i>5 1/2 L.S (N.W.)</i>			Formation	Legal Description <i>19-245-375</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft		Acid <i>200 SX A-CON</i>		RATE	PRESS	ISIP
Depth <i>2793</i>	Depth	From	To	Pre-Pad <i>150 SX AA-2</i>		Max		5 Min.
Volume <i>6.5</i>	Volume	From	To	Pad <i>500 gal MUD FLUSH</i>		Min		10 Min.
Max Press <i>1500</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <i>PC</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush <i>WATER</i>		Gas Volume		Total Load

Customer Representative	Station Manager <i>JERRY BINNETT</i>	Treater <i>Shawn FREDERICK</i>
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Service Units	<i>114</i>	<i>227</i>	<i>338</i>	<i>575</i>			
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0200</i>					<i>ON LOCATION/RIGGING UP TO RUN CASING</i>
<i>0205</i>					<i>START IN W CASING / F.E.</i>
<i>0210</i>					<i>PRE-JOB SAFETY MEETING</i>
<i>0215</i>					<i>RIG UP PT.</i>
<i>0335</i>					<i>CASING ON BOTTOM / RIG UP PC</i>
<i>0350</i>					<i>BREAK C.I.</i>
<i>0410</i>					<i>Hook Lines To PT.</i>
<i>0412</i>	<i>250</i>		<i>5</i>	<i>4</i>	<i>Pump 5 BBLs WATER SPACER</i>
<i>0413</i>	<i>250</i>		<i>17</i>	<i>4</i>	<i>Pump 500 gal MUD FLUSH</i>
<i>0417</i>	<i>250</i>		<i>5</i>	<i>4</i>	<i>Pump 5 BBLs WATER SPACER</i>
<i>0418</i>	<i>250</i>		<i>103</i>	<i>4</i>	<i>Pump 200 SX A-CON @ 11.5"</i>
<i>0447</i>	<i>100</i>		<i>39</i>	<i>4</i>	<i>Pump 150 SX AA-2 @ 14.8"</i>
<i>0500</i>					<i>SHUT DOWN / DROP PLUG / CLEAR LINES</i>
<i>0505</i>	<i>100</i>		<i>65</i>	<i>5</i>	<i>Pump Disp</i>
<i>0510</i>	<i>500</i>			<i>5</i>	<i>3 Cont to PT / 30 BBL / 60 SX</i>
<i>0515</i>	<i>800</i>			<i>3</i>	<i>SLOW RATE</i>
<i>0520</i>	<i>1600</i>			<i>3</i>	<i>LAND PLUG</i>
<i>0521</i>					<i>RELEASE FLOAT - HELD</i>
<i>0600</i>					<i>JOB Complete</i>

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ORIGINAL

FIELD ORDER 9790



INVOICE NO.
Date 4-29-05
Customer ID

Subject to Correction

Lease WOSHILL	Well # 1-A	Legal 19-295-325
County HASKELL	State KS	Station LIBERAL
Depth	Formation	Shoe Joint 1
Casing 5 1/2	Casing Depth 2793	TD
Customer Representative		Job Type 5 1/2 L.S (NW)
		Treater Shaun FREDERICK

CHARGE

KS NATURAL

(CHEYENNE #8)

AFE Number	PO Number
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Materials Received by *X Gary [Signature]*

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D705	150 Sx	AA 2 (COMMON)				
D701	200 Sx	A-CON Blend				
C310	56.1 lb	CALCIUM CHLORIDE				
C194	83 lb	CELLULOSE				
C243	29 lb	DeLamer				
C195	113 lb	FLA-322				
C221	890 lb	SALT				
E191	1 ea	GUIDE Shoe REG				
E101	10 ea	TURBOLIZER				
E171	1 ea	TR LATCH DOWN P+B				
C302	500 gal	MUD FLUSH				
E100	30 mi	Units 1 miles 1-WAY				
E107	350 Sx	CONT SERVICE charge				
E104	494 Tm	10 Tons 16 miles 30				
E101	30 mi	P.U. Mileage				
R200	1 ea	CONT Pump 4 hrs				
R201	1 ea	CONT HEAD RENTAL				
		DISCOUNTED TOTAL PLUS TAX				8,910.62

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