

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample 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

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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	ADDIE 2
Doc ID	1466452

All Electric Logs Run

Sonic Log
Dual Induction Log
Micro Log
Sonic Cement Bond Log
Compensated Density/Neutron Log

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	ADDIE 2
Doc ID	1466452

Tops

Name	Top	Datum
Heebner	3896	-1905
Brown Lime	4058	-2067
Lansing	4075	-2084
Stark	4337	-2346
B/KC	4461	-2470
Pawnee	4522	-2531
Cherokee	4560	-2569
Mississippi	4587	-2596
Viola	4640	-2649
Simpson	4764	-2773

OPERATOR

Company: Charles N. Griffin
Address: PO Box 347
Pratt, KS 67124

Contact Geologist:
Contact Phone Nbr:

Well Name: #2 Addie
Location: Section 28-29S-15W
Pool:
State: Kansas

API: 15-151-22487
Field: Croft
Country: USA

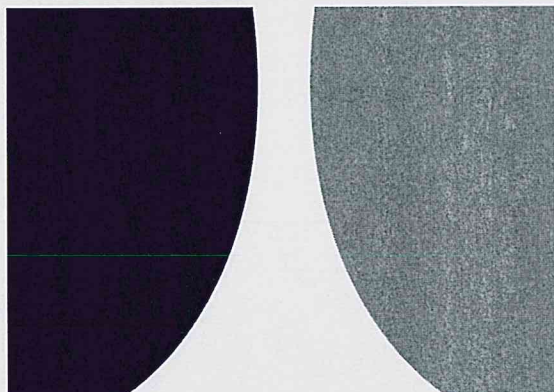
Scale 1:240 Imperial

Well Name: #2 Addie
Surface Location: Section 28-29S-15W
Bottom Location:
API: 15-151-22487
License Number:
Spud Date: 4/12/2019 Time: 5:45 PM
Region: Pratt County
Drilling Completed: 4/17/2019 Time: 8:30 PM
Surface Coordinates: 1190' FSL / 790' FWL
Bottom Hole Coordinates:
Ground Elevation: 1980.00ft
K.B. Elevation: 1991.00ft
Logged Interval: 3800.00ft To: 4806.00ft
Total Depth: 4806.00ft
Formation:
Drilling Fluid Type: Chemical (MudCo)

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: Latitude:
N/S Co-ord: 1190' FSL / 790' FWL
E/W Co-ord:

LOGGED BY



TERRATECH
ENERGY SERVICE, LLC

Company: TerraTech Energy Service LLC.
Address: 1632 S. West St. Suite 12
Wichita, KS 67208

Phone Nbr: 316-617-3959
Logged By: Geologist

Name: Bruce Reed

CONTRACTOR

Contractor: WW Drilling
 Rig #: 4
 Rig Type: mud rotary
 Spud Date: 4/12/2019
 TD Date: 4/17/2019
 Rig Release: 4/18/2019

Time: 5:45 PM
 Time: 8:30 PM
 Time: 11:45 PM

ELEVATIONS

K.B. Elevation: 1991.00ft Ground Elevation: 1980.00ft
 K.B. to Ground: 11.00ft

NOTES

Surface Casing: 8-5/8" at 267'
 Production Casing: 5-1/2" at 4807'

Daily Penetration: 04/12/19 Spud @ 5:45 PM
 04/13/19 267'
 04/14/19 2020'
 04/15/19 3180'
 04/16/19 4135'
 04/17/19 4587' RTD @ 8:30 PM
 04/18/19 4806' Rig released @ 11:45 PM

FORMATION TOPS

Formation	Sample Top	Datum	Log Top	Datum	Comparison*
Heebner	3896'	-1905	3902'	-1911	-11
Brown Lime	4058'	-2067	4064'	-2073	-11
Lansing	4075'	-2084	4078'	-2087	-9
Stark	4337'	-2346	4342'	-2351	-13
Base KC	4461'	-2470	4066'	-2075	-4
Pawnee	4522'	-2531	4528'	-2537	-4
Cherokee	4560'	-2569	4563'	-2572	-2
Mississippi	4587'	-2596	4588'	-2597	+33
Viola	4640'	-2649	4645'	-2654	-4
Simpson	4764'	-2773	4668'	-2677	-12

*Griffin Management, #1 Addie, 1850' FSL & 260'FWL Section 28-29S-15W, Pratt County, Kansas

ROCK TYPES

 Cht
  Lmst fw7>
 Dolprim
  shale, gry
  Carbon Sh
 Ss

OTHER SYMBOLS

INTERVALS

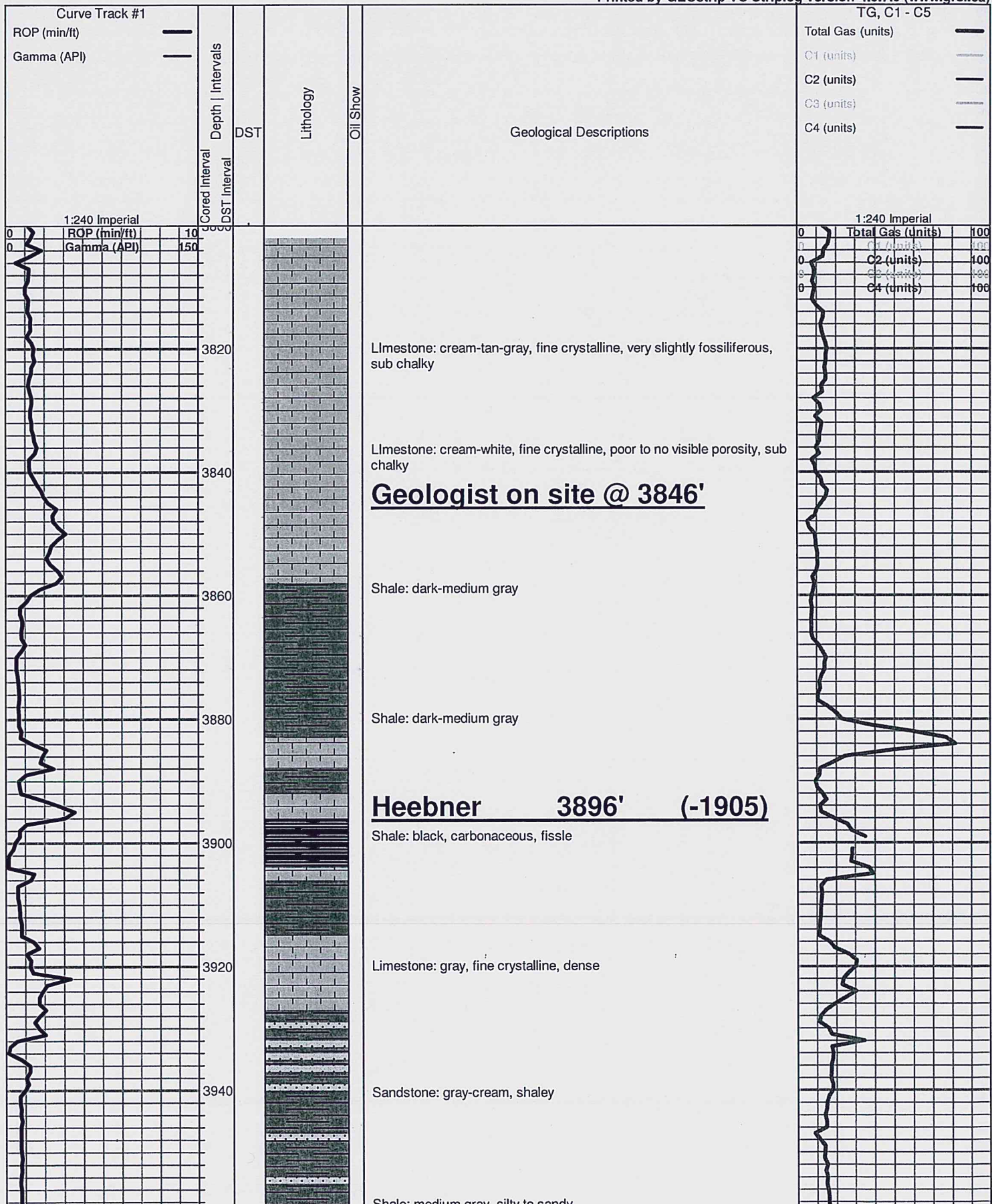
Oil Show

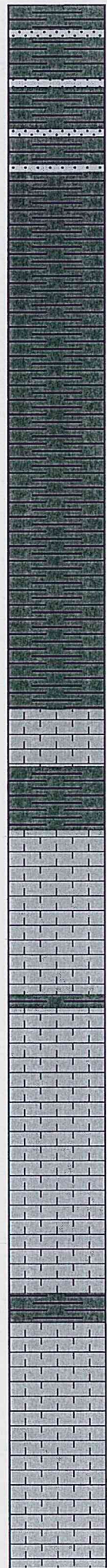
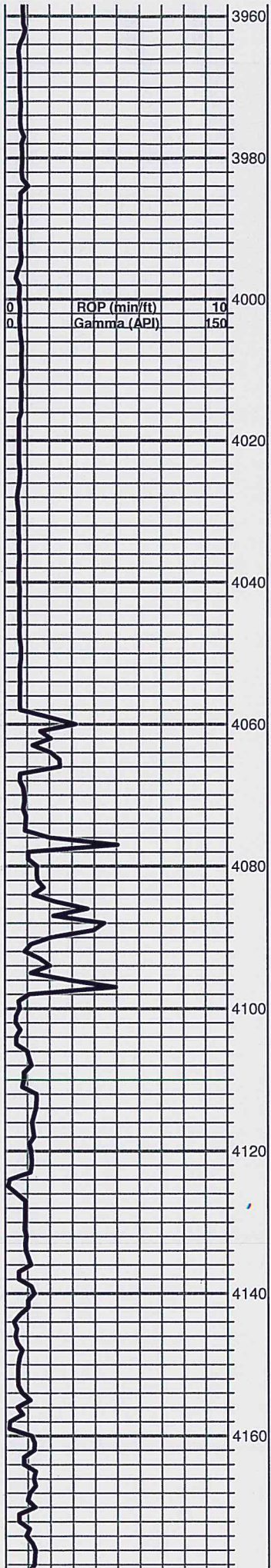
DST

■ Core
 · DST

● Good Show
 ● Fair Show
 ● Poor Show
 ○ Spotted or Trace
 ○ Questionable Stn
 D Dead Oil Stn
 ■ Fluorescence
 * Gas

■ DST Int
 ■ DST alt
 ■ Core
 || tail pipe





Shale: medium gray, silty to sandy

Shale: medium gray, silty to sandy

Shale: dark-medium gray

Shale: as above

Shale: as above

Brown Lime 4058' (-2067)

Limestone: light brown, tan, fine crystalline, no visible porosity, dense

Lansing 4075' (-2084)

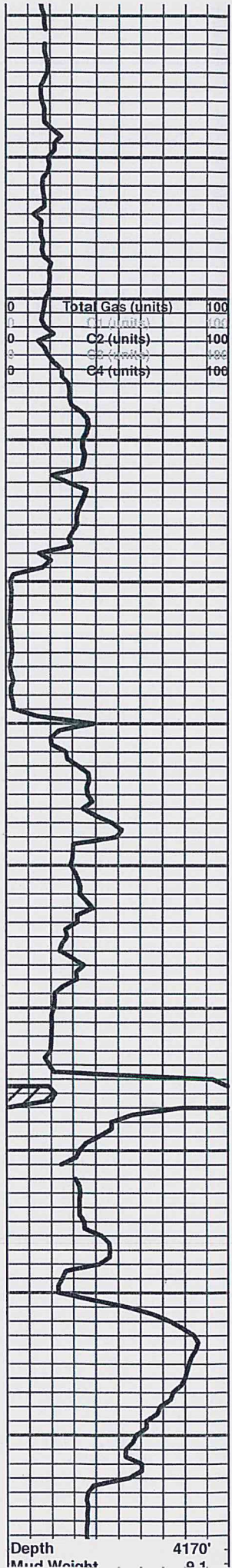
Limestone: cream-gray, fine crystalline, slightly fossiliferous, dense

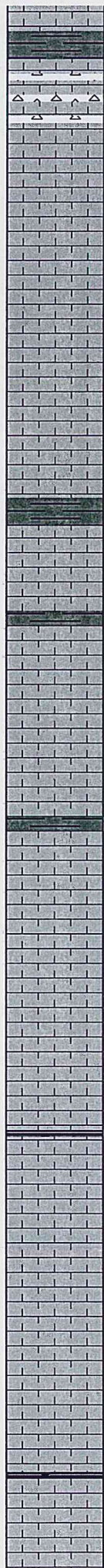
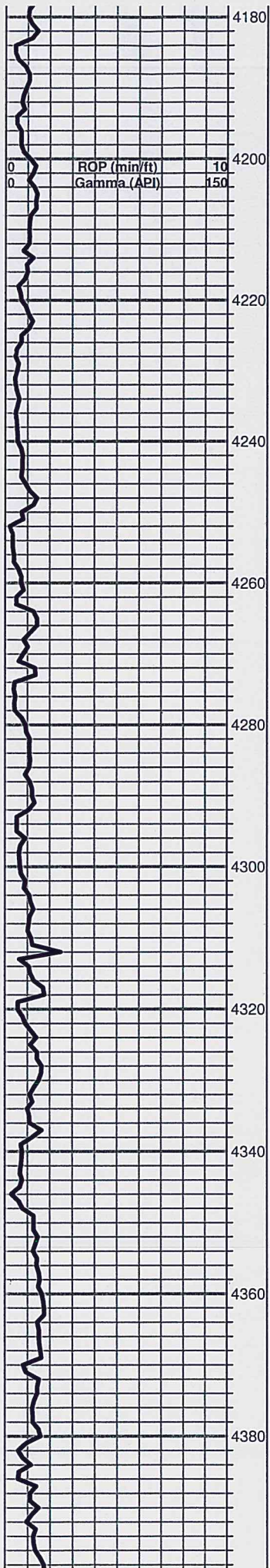
Limestone: cream-gray, fine crystalline, chalky, sub shaley

* Limestone: cream-gray-light tan, fine crystalline, some visible porosity, slight odor in fresh, rare gas bubble

Limestone: as above, decrease in odor or shows

Limestone: light tan-white, fine crystalline, chalky, samples wash white





Limestone: light tan-cream, fine crystalline, slightly fossiliferous, poor visible porosity

Limestone: cream-light tan, fine crystalline, slightly fossiliferous, poor visible porosity, chalky to very slightly cherty

Limestone: gray-light tan, fine crystalline, slightly fossiliferous

Limestone: cream-gray, highly fossiliferous, poor to fair visible porosity

Limestone: gray-cream-white, fine crystalline to fossiliferous, chalky

Limestone: gray-white, fine crystalline, slightly fossiliferous, chalky

Limestone: light tan-cream-white, fine crystalline to fossiliferous, poor to fair visible porosity, chalky

Limestone: as above, more fine crystalline, poor visible porosity, dense

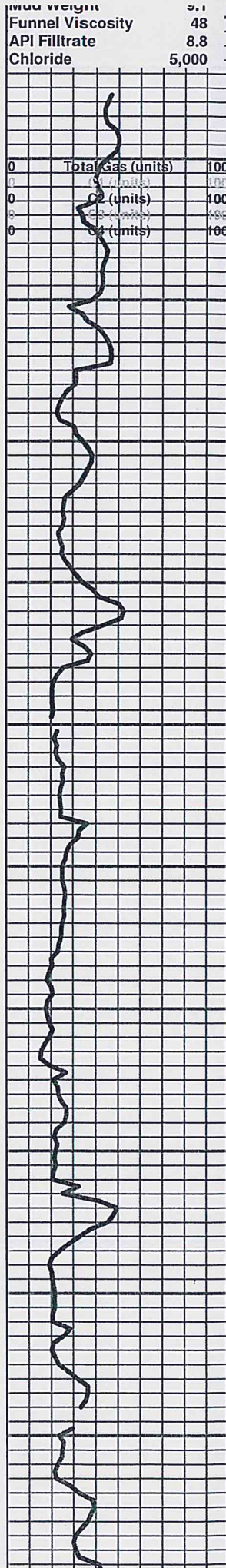
Stark **4337'** **(-2346)**

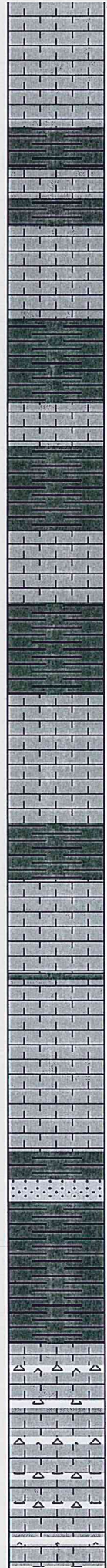
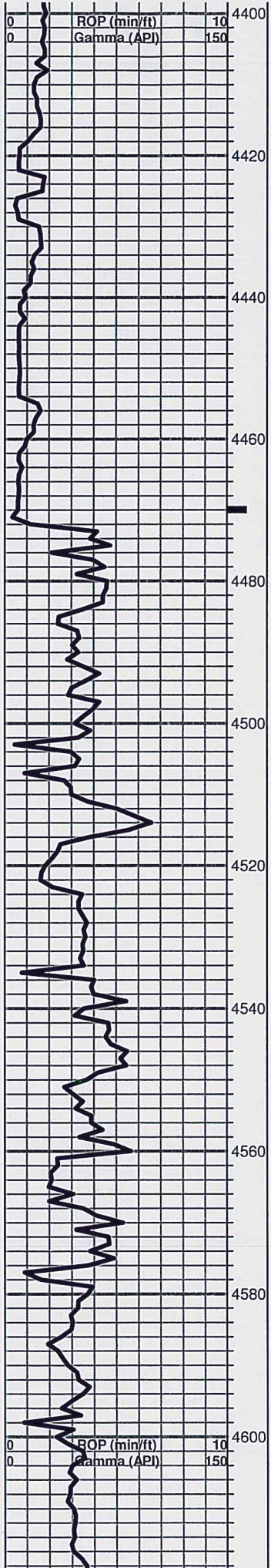
Shale: black-dark gray

Limestone: light-tan-cream-white, fine crystalline, trace oolitic piece, poorly developed, very chalky, faint odor, no show free oil

Limestone: light tan-white, fine crystalline, decrease in chalky material

Limestone: cream-gray, fine crystalline, few pieces highly fossiliferous





Limestone: cream-gray, fine crystalline, few pieces highly fossiliferous, both odor and slight show free oil when broken, sub chalky

Flood gray-green shale

Limestone: cream-light gray, fine crystalline to slightly fossiliferous, few medium crystalline piece, odor in fresh, no show free oil

B/KC 4461' (-2470)

Circulated at 4470' Flood light gray-green silty shale

Limestone: gray, fine crystalline, very dense

Shale: varicolored

Limestone: cream-gray, fine crystalline, dense

Limestone: as above

Shale: dark-medium gray

Pawnee 4522' (-2531)

Limestone: cream-medium gray, fine crystalline, poor to visible porosity, dense

Limestone: as above, trace dark gray-black shale

Limestone: cream-gray-white, fine crystalline, very slightly fossiliferous, sub chalky

Cherokee 4560' (-2569)

Shale: gray-green-black, few sandstone clusters, white, fine grained, moderately friable, very slight odor, no show free oil

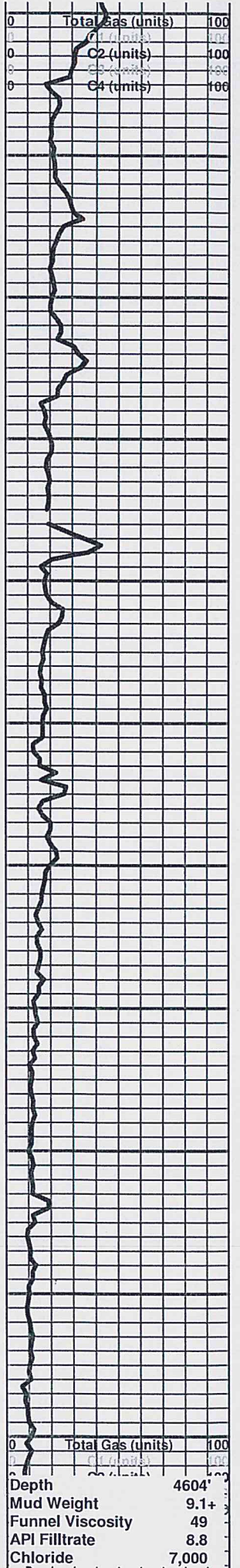
Varicolored shales

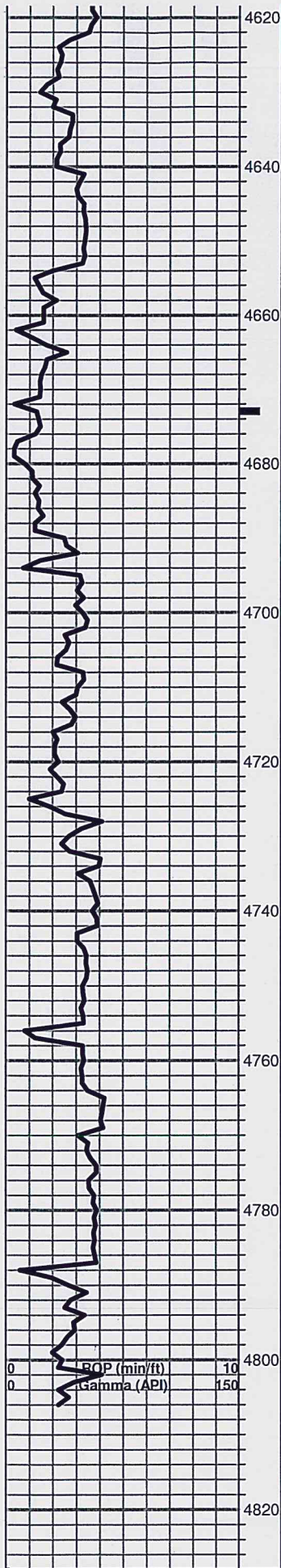
Mississippian 4587' (-2596)

Limestone: white-cream, fine crystalline, very chalky, some vitreous cream chert

Limestone: chalky white, very cherty, no shows

Limestone: cream-white, lots of white-amber vitreous chert, trace chalky, no shows





Limestone: cream-pale green, dense, mostly vitreous chert

Chert: 90% vitreous, white-off white-amber, few pieces weathered, no shows

Viola 4640' (-2649)

Limestone: white, very chalky

Limestone: cream-white, fine crystalline, poor to no visible porosity, sub chalky, scattered vitreous chert, sharp and blocky, odor in fresh sample, some bright yellow fluorescence, no show free oil

Dolomite: light tan, fine crystalline, sucrosic, poor visible inter-crystalline porosity, some vitreous chert, odor

Circulated at 4672' Dolomite: light-tan-brown, fine crystalline, sucrosic, poor to fair inter-crystalline porosity with some scattered vugs, chert white, semi weathered on edges, cavernous porosity, good strong odor in fresh, show free oil, gas bubble, bright fluorescence with acid

Cherty dolomite as above

Dolomite: light tan-brown, fine crystalline, sucrosic, some visible porosity, scattered chert, weathered on edge with cavernous porosity, good strong odor, show free oil, bright yellow fluorescence after acid

Cherty dolomite: light brown-sucrosic, little tighter, chert appears more cream-white 50/50 mix vitreous and weathered, slight decrease in odor, fair fluorescence, show free oil

Cherty dolomite: more light gray-light tan, fine crystalline, sucrosic, looks tite, very cherty, speckled, no odor, very slight show free oil, spotted fluorescence

Cherty dolomite

Cherty dolomite, no show

Cherty dolomitic limestone: light gray, appears sandy, some chalky white material, no shows

Cherty dolomitic limestone as above, no shows

No significant change

Simpson 4764' (-2773)

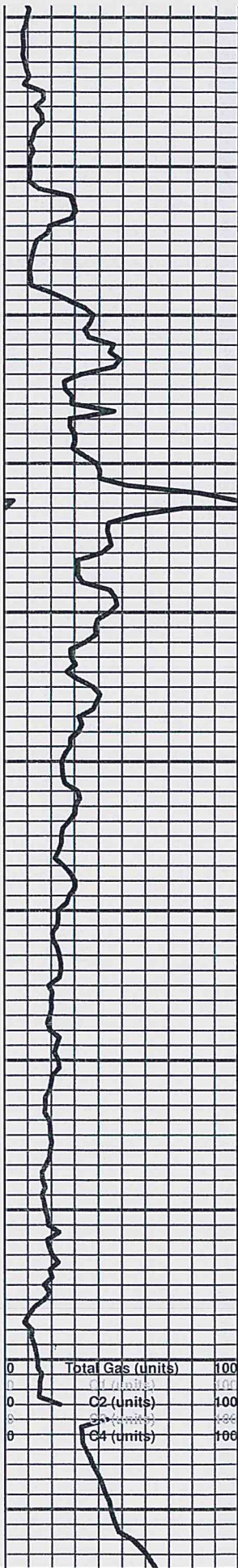
Few pieces pale-green shale

Flood Simpson type shale

Simpson type shale

Simpson type shale

Simpson type shale with minor cluster sandstone, dirty, no shows



QUALITY WELL SERVICE, INC.

7101

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

*Inv
C-2008*

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-18-19	20	29S	15W	PRATT	Ks		
Lease Addie	Well No. #2	Location PRATT Ks W on Hwy 54 to 140 th Rd					
Contractor W.W. Delg Rig #14	Owner 10 S to 100 th Rd 1 E to 135 th Rd 9/85			To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job 5 1/2 L.S.	T.D. 4311			Charge To Raffin			
Hole Size 7 7/8	Depth			Street			
Csg. 5 1/2 15.5'	Depth			City State			
Tbg. Size	Depth			City State			
Tool	Depth			City State			
Cement Left in Csg. 20.20	Shoe Joint 20.20			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace 113.97			Cement Amount Ordered 2008x PROC			
EQUIPMENT				2 1/2 FEL 101 SALT 5 1/2x KOSEAL			
Pumptrk 8 No.	TS			Common 2008x			
Bulktrk 10 No.	JAKE			Poz. Mix			
Bulktrk No.				Gel. 4 SK			
Pickup No.				Calcium			
JOB SERVICES & REMARKS				Hulls			
Rat Hole 30 SK				Salt 22 SK			
Mouse Hole 20 SK				Flowseal			
Centralizers 1-2-3-4-5-6				Kol-Seal 1000 #			
Baskets				Mud CLR 48 500 gal			
D/V or Port Collar				CFL-117 or CD110 CAF 38 CGI 10 gal			
Run 4 1/2 5 1/2 15.5' csg set				Sand			
csg on Bottom Hook up to csg + BREAK				Handling 220			
circ wt rig 1 hr deep ball				Mileage 25			
START Pumping 12 Bbl MF 5 Bbl H ₂ O				5 1/2 FLOAT EQUIPMENT			
START Plug P.M Holes 30 SK				Guide Shoe			
START Mix + Pump 150 SK ↓ csg 14.8 1/4 gal 1.50 H ₂ O				Centralizer 6 EA			
SHUT DOWN Clear Pump Lines RELEASE LD Plug				Baskets			
START Disp 2 1/2 KCL				AFU Inserts			
Lift ps. 97 out 650				Float Shoe 1 EA			
Land Plug 1300 # 113.97 out				Latch Down 1 EA			
PS up 1500'				SERVICE SPP.			
RELEASE HELD 1/2 Bbl BACK				LMV 25			
Good circ thro JOB				Pumptrk Charge LS.			
Thank you				Mileage 50			
Please Call AGAION				Tax			
JM 1000 TS JAKE				Discount			
X Signature				Total Charge			

Customer <i>Mark N. Griffin</i>	Lease No.	Date <i>4-13-2019</i>	
Lease <i>Addie</i>	Well # <i>2</i>		
Field Order #	Station <i>Pratt KS # 1718</i>	Casing <i>5 7/8</i>	Depth <i>270</i>
Type Job <i>5 7/8 surface</i>	Formation	County <i>Pratt</i>	State <i>Ks.</i>
		Legal Description <i>25 275-15W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid #	RATE	PRESS	ISIP
Depth <i>270</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>141</i>	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>300</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>Justin Lockman</i>	Treater <i>Carl Bakovic</i>
Service Units <i>27163</i>	<i>21010 13768</i>	
Driver Names <i>Ron Pilley</i>	<i>Darin Franklin</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>7:00 AM</i>					<i>On location & rig up 7:00 AM</i>
					<i>Run 270 5 7/8 casing</i>
					<i>Break circulation with fresh water</i>
<i>1:00</i>	<i>50</i>		<i>3</i>	<i>4</i>	<i>Start fresh water</i>
	<i>100</i>		<i>85</i>	<i>5</i>	<i>Mix & ramp 400 5x class A + 2% IC</i>
	<i>100</i>		<i>16</i>	<i>2</i>	<i>Displace with 16 Bbls Freshwater</i>
<i>2:00</i>					<i>Start in casing</i>
					<i>Annulus/die circulate</i>
					<i>(not)</i>
<i>5:30 AM</i>					<i>wait 3 hours</i>
					<i>Run 40' 1" tubing</i>
					<i>on annulus</i>
<i>7:30 AM</i>	<i>300</i>		<i>4</i>	<i>3</i>	<i>Mix 200 5x class A + 2% IC</i>
					<i>+ circulate cement to surface</i>
					<i>Release from location</i>
					<i>8:00 AM</i>



GRIFFIN MANAGEMENT LLC

P.O. Box 347 • Pratt, KS 67124 • 620-672-9700

Kansas Corporation Commission
Conservation Division
130 S. Market, Room 2078
Wichita, KS 67202-3802

Re: Form ACO1 Confidential and Form CDP-5
Exploration & Production Waste Transfer
Addie #2
Pratt County, Kansas
API# 15-151-22487-00-00

Gentlemen:

Attached is the ACO1 Well Completion Form with Cement tickets, along with Geological Report. The Dual Induction Log, Compensated Density/Neutron Log & Sonic Log have been sent by emailed to the KCC requesting the logs be kept confidential.

Per the General Rules & Regulation Section 82-3-107 (e) (4), Griffin Management, LLC requests that page 2 of the ACO1 form for the above captioned well be held confidential for an additional 12 months.

I have also filed the Exploration & Production Waste transfer.

Should you have questions or need additional information, please contact me at the above letterhead address or telephone number.

Sincerely,

Charles N. Griffin *CF*