

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	SUMMER 1
Doc ID	1476915

All Electric Logs Run

Dual Induction Log
Compensated Density-Neutron PE Log
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	SUMMER 1
Doc ID	1476915

Tops

Name	Top	Datum
Heebner	3887	-1888
Brown Lime	4060	-2061
Lansing	4075	-2076
Stark	4338	-2339
Base KC	4462	-2463
Pawnee	4528	-2529
Cherokee	4565	-2566
Viola	4610	-2611
Simpson	4751	-2752
Sand	4786	-2787

QUALITY WELL SERVICE, INC.

7165

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

*Int
C-2016*

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-12-19	33	29S	15W	PRATT	Ks		
Lease	SUMMER		Well No.	1			
Contractor	WW Delg Rig # 14			Location PRATT, Ks. W on 54 Hwy to 140th Rd			
Type Job	L.S			Owner 10 S to 100th Rd 1 E to 130th Rd 1 S			
Hole Size	7 7/8			To Quality Well Service, Inc. 1/2 S E 117			
Csg.	5 1/2			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Tbg. Size				Charge To Gaffin			
Tool				Street			
Cement Left in Csg.	21.20			City			
Meas Line	Displace 111.30			State			
EQUIPMENT				The above was done to satisfaction and supervision of owner agent or contractor.			
Pumptrk	8 No. DEEK			Cement Amount Ordered 200 & POC			
Bulktrk	15 No. KEITH/TJ			2 1/2 GAL 10 1/2 SALT 5 1/4 KOLSEAL			
Bulktrk				Common 200			
Pickup				Poz. Mix			
JOB SERVICES & REMARKS				Gel. 376 lbs			
Rat Hole	30 SI			Calcium			
Mouse Hole	20 SX			Hulls			
Centralizers	1-2-3-4-5-6			Salt 22 SX			
Baskets				Flowseal			
D/V or Port Collar				Kol-Seal 1000 lbs			
Run 121 # 5 1/2 17" CSG SET @ 4818				Mud CLR 48 500 GAL			
CSG ON Bottom TAG Hook up to CSG				CFL-117 or CD110 CAF 38 CC-1 10 GAL			
BREAK CIRC W/ 218 DROP BALL CIRC W/ 218				Sand			
START Pumping 5 Bbls PO 12 Bbls MF 5 Bbls TRS				Handling 226			
START PLOG R-M HOLES 50 SX				Mileage 25			
START mix Pump 150 scd CSG @ 4.8" / gal				5 1/2 FLOAT EQUIPMENT			
SHUT DOWN CLEAR Pump LINES RELEASE LOP				Guide Shoe HEAD & MANIFOLD.			
START DISO 2% KCL				Centralizer 6 EA-			
Lift PS. 95 out 700'				Baskets			
Land Plog 1200'				AFU Inserts			
PS. TRSSG 1500'				Float Shoe 1 EA			
RELEASE & HELD				Latch Down 1 EA			
1/2 Bbl BACK				SERVICE SWP			
Good circ thru JCS				LMV 25			
THANK YOU				Pumptrk Charge LS			
PLEASE CALL AGAIN				Mileage 50			
Signature <i>AWA</i>				Tax			
				Discount			
				Total Charge			

*Tom Deek
TJ Keith*

QUALITY WELL SERVICE, INC.

7157

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish		
7-4-19	33	29S	1SW	PRATT	KS				
Lease	Summer		Well No.	1				Location	PRATT KS W on Hwy 54 to 140 th Rd
Contractor	W W Dalg Rig 14			Owner				10 S to 100 th ST 1E to 130 th Rd	
Type Job	SURFACE			To Quality Well Service, Inc.				1 1/2 S. E. S into	
Hole Size	12 1/4		T.D.	269'				You are hereby requested to rent cementing equipment and furnish	
Csg.	8 5/8		Depth	268'				center and helper to assist owner or contractor to do work as listed.	
Tbg. Size			Depth					Charge To	Griffin
Tool			Depth					Street	
Cement Left in Csg.	25'		Shoe Joint	25'				City	State
Meas Line			Displace	15.5				The above was done to satisfaction and supervision of owner agent or contractor.	
				Cement Amount Ordered				275 SK Common	
EQUIPMENT				2 1/2 GEL 3 1/2 CC 1/2" PS					
Pumptrk	8	No.	TS		Common				275
Bulktrk	15	No.	JAKE		Poz. Mix				
Bulktrk		No.			Gel.				517 lbs
Pickup		No.			Calcium				776 lbs
JOB SERVICES & REMARKS				Hulls					
Rat Hole				Salt					
Mouse Hole				Flowseal				137.5 lbs	
Centralizers				Kol-Seal					
Baskets				Mud CLR 48					
DV or Port Collar				CFL-117 or CD110 CAF 38					
Don 6 1/2" 8 5/8 2 3/4 Csg set d				Sand					
Csg on Bottom Hook into Csg				Handling				296	
BREAK circ w/ RIG				Mileage				25 / 7250	
START Pumping 10 bbls H ₂ O				8 5/8 FLOAT EQUIPMENT					
start mix! Pump 275 SK Common				Guide Shoe				HEM: man. bld 1 EA	
2 1/2 GEL 3 1/2 CC 1/2" PS d 14.8" / gal				Centralizer				WOODEN PLUG 1 EA	
SHUT DOWN RELEASE 8 5/8 WOODEN PLUG				Baskets					
SNG Disp				AFU Inserts					
SHUT DOWN				Float Shoe					
CLOSE Valve on Csg 200' 15.5 bbls				Latch Down					
Good circ thru JOB				SERVICE Sqr.					
Circ CUT TO DIT				LMV 25					
				Pumptrk Charge				Surface	
				Mileage				50	
Thank you PLEASE CALL AGAIN TOM TS JAKE Josh Zim								Tax	
								Discount	
								Total Charge	
X Signature									

OPERATOR

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

Contact Geologist:
Contact Phone Nbr:
Well Name: #1 Summer
Location: Section 33-29S-15W
API: 15-151-22495
Pool:
State: Kansas

Field: Wildcat
Country: USA

Scale 1:240 Imperial

Well Name: #1 Summer
Surface Location: Section 33-29S-15W
Bottom Location:
API: 15-151-22495
License Number:
Spud Date: 7/4/2019
Region: Pratt County
Drilling Completed: 7/11/2019
Surface Coordinates: 990' FSL & 1980 FWL
Bottom Hole Coordinates:
Ground Elevation: 1988.00ft
K.B. Elevation: 1999.00ft
Logged Interval: 3800.00ft
Total Depth: 4830.00ft
Formation:
Drilling Fluid Type: Chemical (MudCo)

Time: 1:15 PM

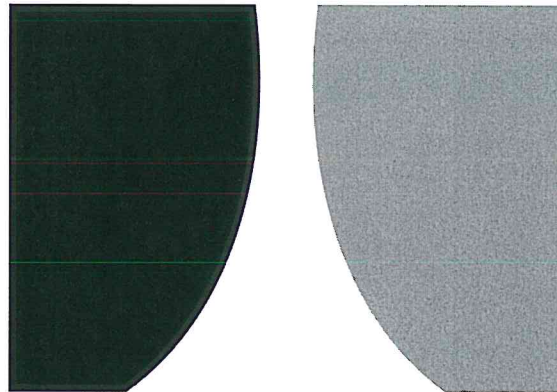
Time: 9:15 AM

To: 4830.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude:
Latitude:
N/S Co-ord: 990' FSL
E/W Co-ord: 1980 FWL

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 #:	14		
Rig Type:	mud rotary		
Spud Date:	7/4/2019	Time:	1:15 PM
TD Date:	7/11/2019	Time:	9:15 AM
Rig Release:	7/12/2019	Time:	5:00 PM

ELEVATIONS

K.B. Elevation:	1999.00ft	Ground Elevation:	1988.00ft
K.B. to Ground:	11.00ft		

NOTES

Surface Casing: 8-5/8" at 269'
 Production Casing: 5-1/2" at 4818'

Daily Penetration:

07/04/19	Spud @ 1:15 PM
07/05/19	536'
07/06/19	2568'
07/07/19	2821'
07/08/19	2821'
07/09/19	2821'
07/10/19	3480'
07/11/19	4694' RTD @ 9:15 AM
07/12/19	4830' Rig released @ 5:00 PM

FORMATION TOPS

Formation	Sample Top	Datum	Log Top	Datum	Comparison*
Heebner	3887'	-1888	3888'	-1889	-6
Brown Lime	4060'	-2061	4060'	-2061	-8
Lansing	4075'	-2076	4075'	-2076	-7
Stark	4338'	-2339	4338'	-2339	-8
Base KC	4462'	-2463	4465'	-2466	-7
Pawnee	4528'	-2529	4528'	-2529	-6
Cherokee	4565'	-2566	4566'	-2567	-9
Viola	4610'	-2611	4611'	-2612	-9
Simpson	4751'	-2752	4751'	-2752	-5
Sand	4786'	-2787	4786'	-2787	-7

*Imperial Oil Company, #1-33 Gillam, C SE SW, Section 33-29S-15W, Pratt County, Kansas

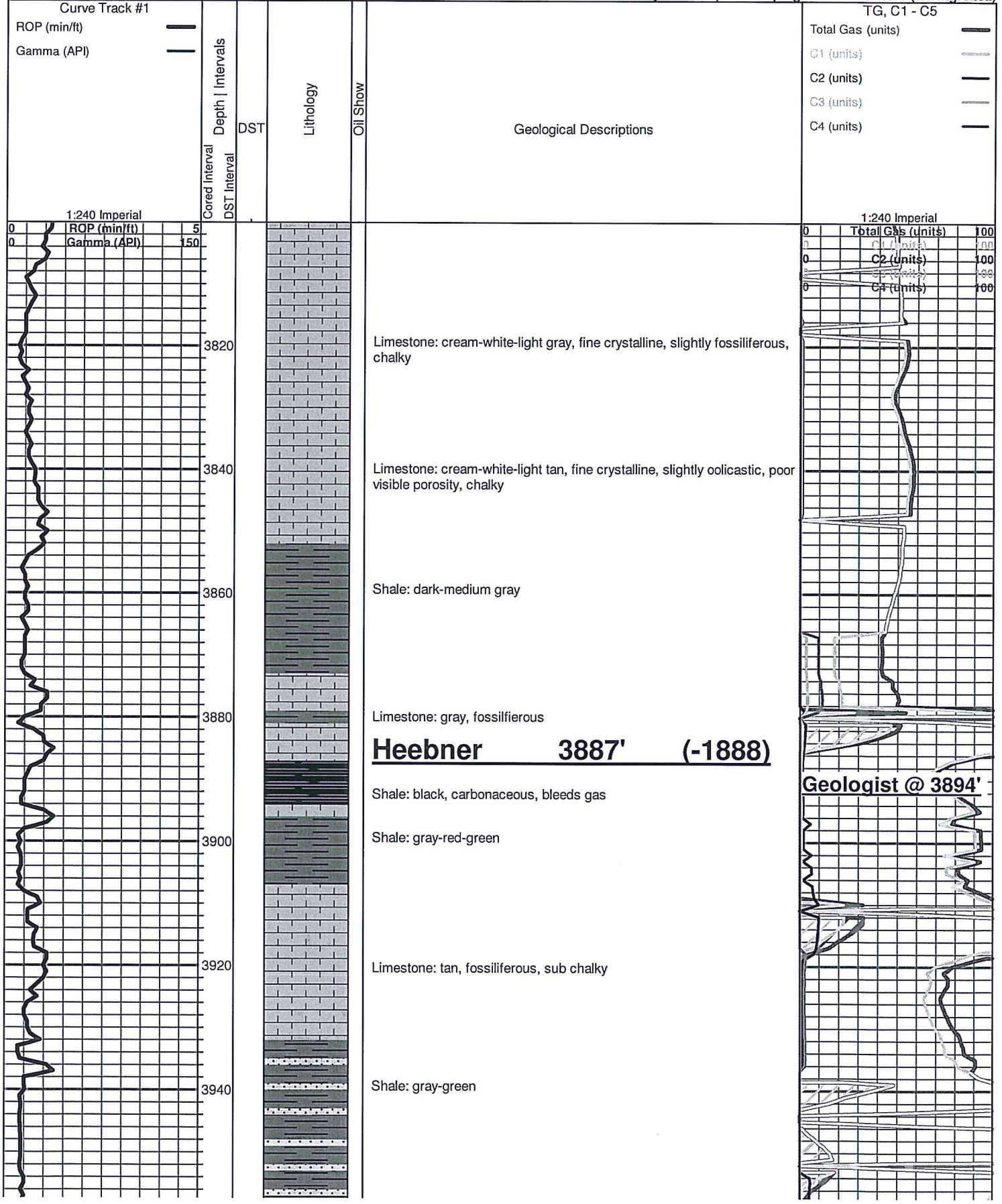
ROCK TYPES

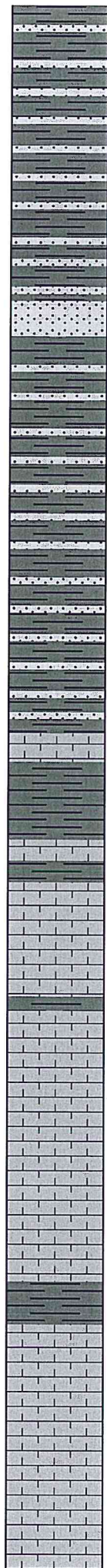
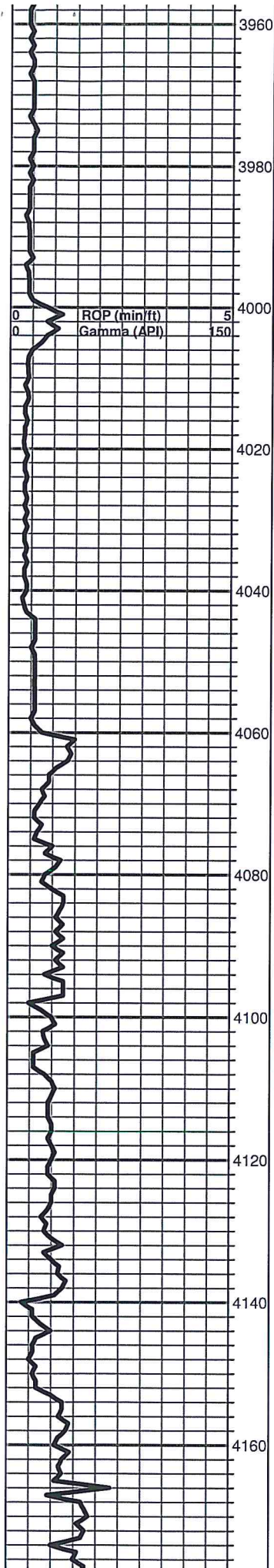
 Cht	 Lmst fw7> shale, gry	 Carbon Sh
 Dolprim	 shale, gry	 Ss

OTHER SYMBOLS

INTERVAL S	Oil Show	DST
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- Core
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- * Gas
- DST Int
- DST alt
- Core
- || tail pipe





Shale: as above, scattered cream-light gray sandstone, micaceous

Shale and sandstone: as above

Sandstone: cream, fine grained, poorly friable, no shows

Shale: gray with sandstone, cream, fine grained, no shows

Shale and sandstone: as above

Brown Lime 4060' (-2061)
Limestone: tan-brown, fine crystalline, dense

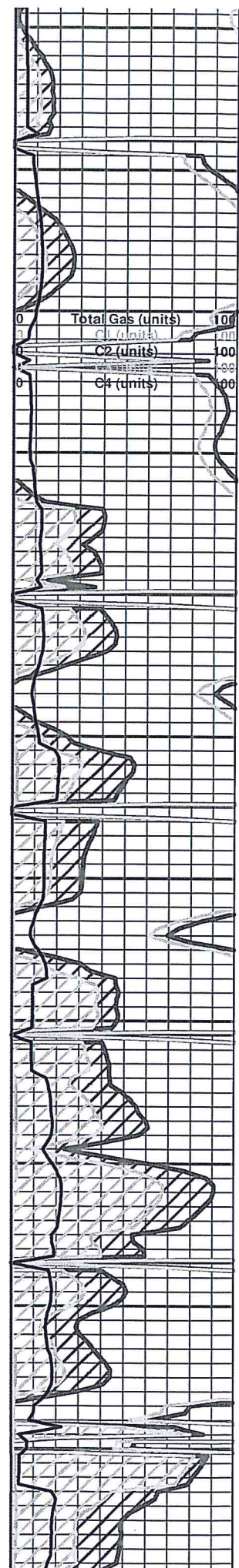
Lansing 4075' (-2076)
Limestone: gray, fine crystalline, dense, sub shaley

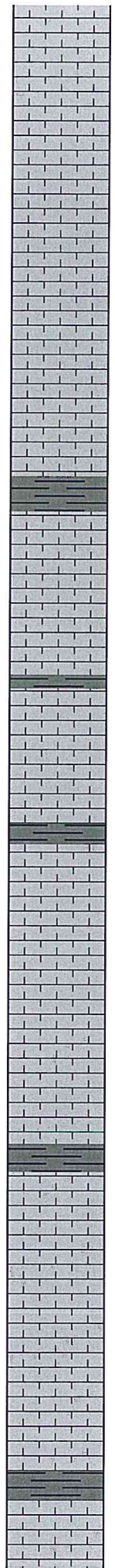
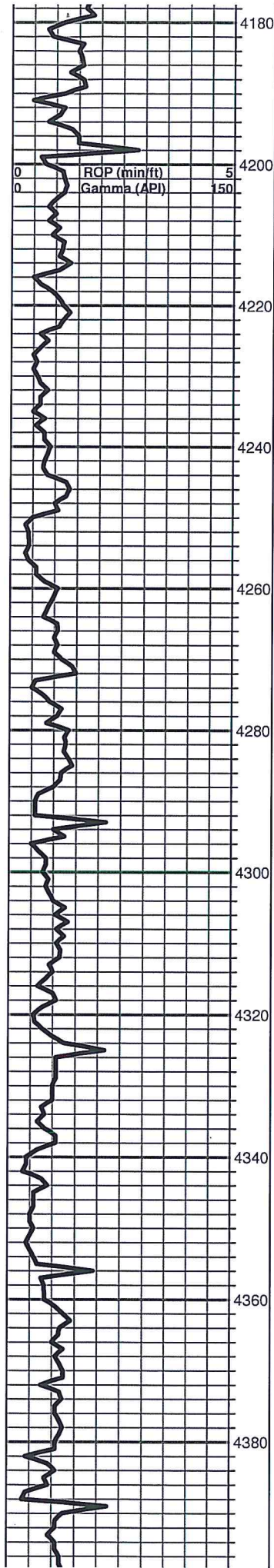
Limestone: cream-gray, fine crystalline, dense

Limestone: cream-white-light tan, fine crystalline, slightly fossiliferous, sub chalky

Shale: medium-dark gray

Limestone: light tan, fine crystalline, to slightly fossiliferous, dense





Limestone: cream-light tan, gray, fine crystalline, poor to no visible porosity, dense

Limestone: light tan-cream, fine crystalline, slightly fossiliferous, sub chalky

Limestone: cream-white-light tan, fine crystalline, really chalky, poor visible porosity

Limestone: more light-tan-cream, fine to slightly medium crystalline, poor visible porosity

Limestone: cream, fine crystalline, sub shaley

Limestone: cream-white-gray, fine crystalline, slightly fossiliferous, dense, sub shaley

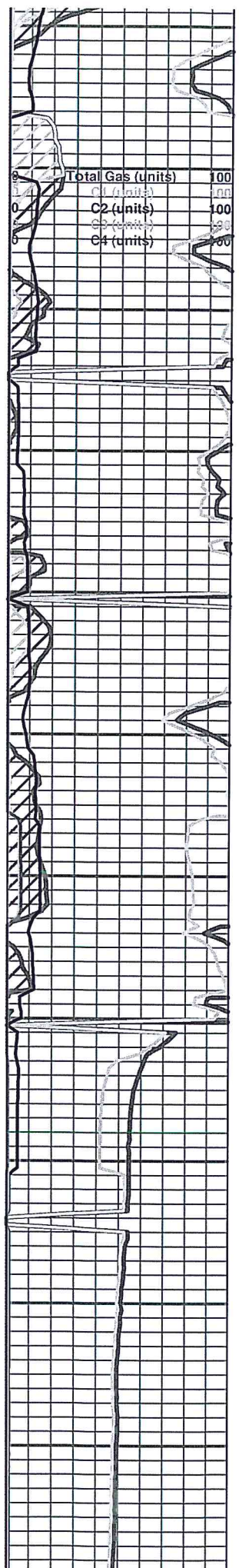
Limestone: cream-white-light tan, fine crystalline, poor visible porosity, sub chalky

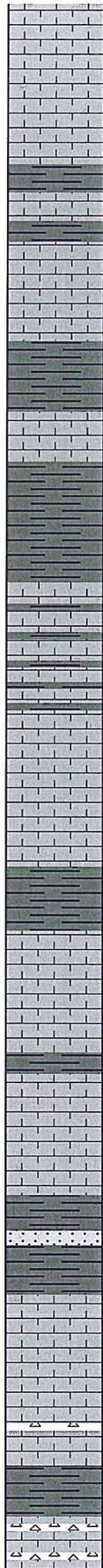
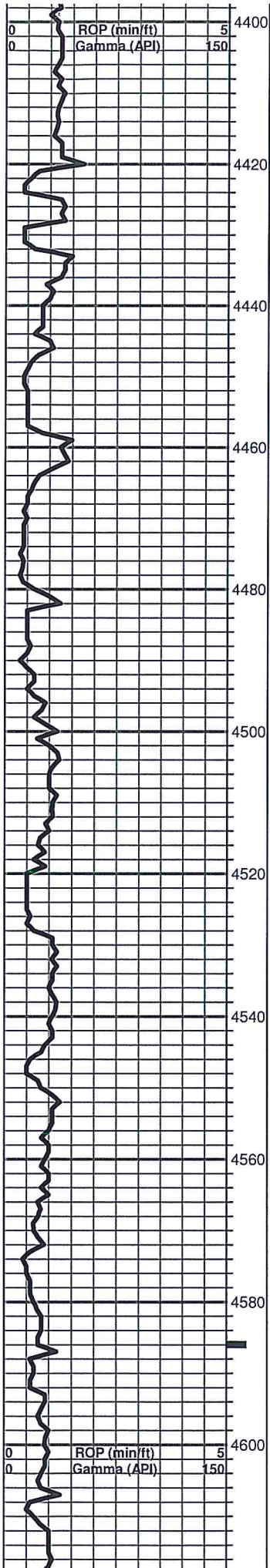
Limestone: medium tan-cream, fine crystalline, dense

Stark 4338' (-2339)
Shale: dark gray-green

Limestone: tan-cream, fine crystalline, dense, few pieces cream with visible porosity, no shows

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





Limestone: cream-light tan, fine to micro-crystalline, no visible porosity, dense

Limestone: as above

Limestone: cream-white-light tan, fine crystalline, chalky, sub shaley

Shales: dark-medium gray, trace limestone, dense

B/KC 4462' (-2463)

Shale: gray-green-brown

Limestone: cream-gray, fine crystalline, fossiliferous, dense, sub shaley

Limestone: gray, fine crystalline, dense

Pawnee 4528' (-2529)

Limestone: tan-cream, fine crystalline, dense, some gray-green-black shale

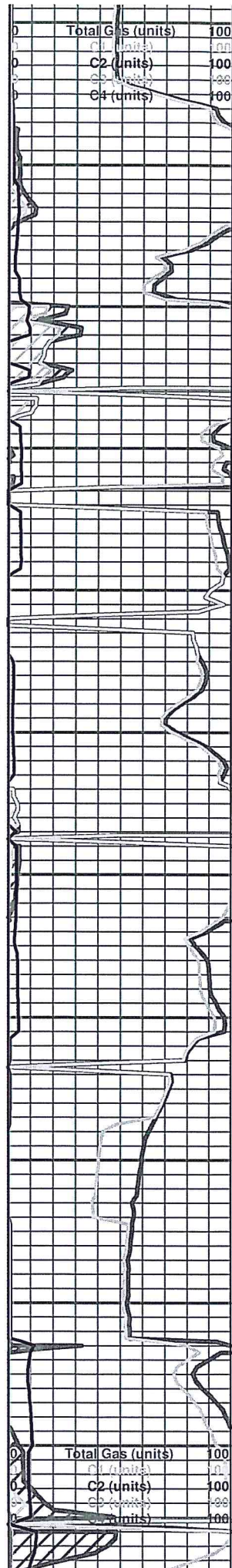
Limestone: cream-gray, fine crystalline, dense, sub shaley

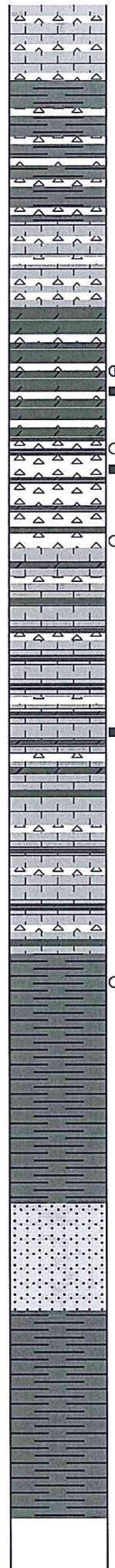
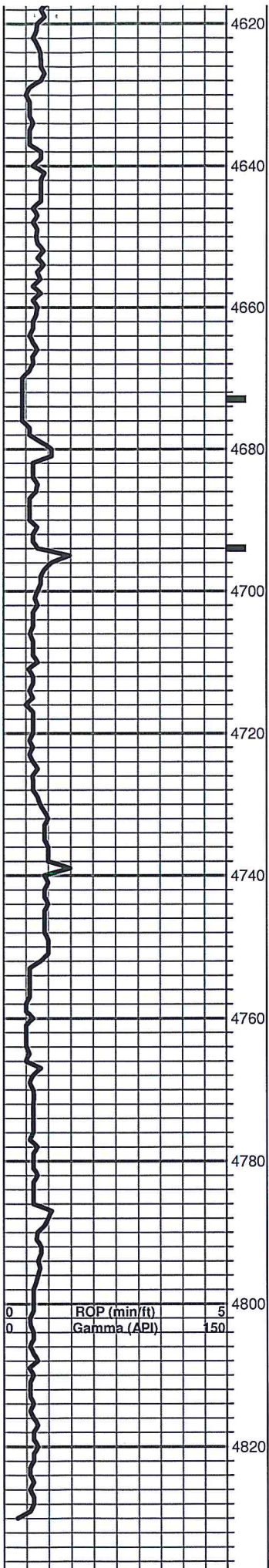
Cherokee 4565' (-2566)

Circulated at 4586' Shale: gray-green with few pieces sandstone, fine grained, poorly friable, some cream limestone, slightly fossiliferous, dull fluorescence, very slight show free oil

Limestone: cream, fine crystalline, chert: white-off white, vitreous, opaque, few pieces weathered, some porosity, black edge stain

Viola 4610' (-2611)





Limestone: pale green, fine crystalline, dense, scattered white-off white vitreous chert, no shows

Shales: red, some pieces scattered white chert, note samples wash red

Sample as above, some chalky white limestone, scattered white vitreous chert, no shows

Circulated at 4673' Chert/Dolomite: cream-white, weathered, slightly dolomitic, good visible porosity, some cream, dolomitic limestone, good odor, good fluorescence, slight show free oil

Sample as above

Circulated at 4694' Chert: cream-white, vitreous, opaque, sharp, dolomite: cream-gray, fine crystalline, sucrosic, soft, fair odor, medium to bright fluorescence, noted increase in cream-gray, sucrosic dolomite, very slight show free oil

Dolomitic limestone: cream-light gray, fine crystalline, finely sucrosic, increase in white, vitreous chert, faint odor, 10% fluorescence, decrease in show free oil

Limestone: cream-white, fine crystalline, dense, some dolomitic limestone, fine crystalline, increase in white vitreous chert, no shows

Simpson 4751' (-2752)

Few pieces turquoise, shale, mostly limestone, appears dolomitic, questionable show

Shale: turquoise

Simpson Sand 4786' (-2787)

Sandstone: cream, fine to medium grained, shale in pore space, no shows

Shale: pale green, turquoise blue, pyrite, sample carries lots of white-gray sandstone, micaceous, no shows

