



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1090169
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1090169

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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Coleman 1-21
Doc ID	1090169

All Electric Logs Run

Dual IND
Dual Com. Porosity
Micro
Sonic

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 09, 2012

Kevin Wiles SR
American Warrior, Inc.
3118 Cummings Rd
PO BOX 399
GARDEN CITY, KS 67846

Re: ACO1
API 15-159-22685-00-00
Coleman 1-21
NE/4 Sec.21-19S-10W
Rice County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Kevin Wiles SR

ALLIED OIL & GAS SERVICES, LLC 053606

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Capitol Hill, KS

DATE <u>5-11-12</u>	SEC. <u>21</u>	TWP. <u>19S</u>	RANGE <u>10W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00</u>	JOB FINISH <u>7:00</u>
LEASE <u>Coleman</u>		WELL # <u>1-21</u>		LOCATION <u>Ellinwood, KS 12 E 2 3/4</u>		COUNTY <u>Rice</u>	STATE <u>Kansas</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>1/4 west into</u>			

CONTRACTOR Duke #8 OWNER _____

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. _____

CASING SIZE 4 1/2 DEPTH 300.07

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 ft

PERFS. _____

DISPLACEMENT 18.15 bbls freshwater

EQUIPMENT

PUMP TRUCK CEMENTER Dustin C

398 HELPER Kerry R

BULK TRUCK _____

376 DRIVER Toel M

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

See Cement Log

Plug Down @ 4:45 p.m.

CHARGE TO: American Warrior

STREET _____

CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X STEVE H STEPHENS

SIGNATURE [Signature]

Thank You!!

CEMENT

AMOUNT ORDERED 250 yds Class H 37.5 cc

24 gel

COMMON 250 @ 16.25 4062.50

POZMIX _____ @ _____

GEL 4 @ 21.25 85.00

CHLORIDE 9 @ 58.20 523.80

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 270.33 @ 2.10 567.69

MILEAGE 12.33 x 15 x 2.35 434.93

TOTAL 5673.62

SERVICE

DEPTH OF JOB 300.

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE _____ @ _____

MILEAGE Hum 15 @ 7.00 105.00

MANIFOLD _____ @ _____

Hum 15 @ 4.00 60.00

_____ @ _____

TOTAL 1290.00

PLUG & FLOAT EQUIPMENT

Wood Plug @ 92.00 92.00

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES 7055.62

DISCOUNT 1.763.90

IF PAID IN 30 DAYS

5.291.72



CHARGE TO: American Warrior
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 N° 23665

PAGE 1 OF 2

SERVICE LOCATIONS
 1. new city KS WELL/PROJECT NO. 1-21 LEASE Coleman COUNTY/PARISH RICE STATE KS CITY Chase DATE 17 MAY 12 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR DUKE RIG NAME/NO. SHIPPED VIA DELIVERED TO location ORDER NO.
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement long string WELL PERMIT NO. WELL LOCATION 21-145-10W
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	70	mi			6.00	420.00
578		1			Pump Charge	1	ea			1500.00	1500.00
402		1			Centralizer	5 1/2	in	8	ea	70.00	560.00
403		1			Cement Basket	5 1/2	in	1	ea	250.00	250.00
406		1			Catch down plug & baffle	5 1/2	in	1	ea	250.00	250.00
407		1			Insert float shoe w/AUTO FILL	5 1/2	in	1	ea	350.00	350.00
419		#			Rotating head rental	5 1/2	in	1	ea	200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X [Signature]
 DATE SIGNED TIME SIGNED A.M. P.M.
 0445

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	1	3330.00
	2	5557.63
subtotal		8887.63
Rice TAX 7.3%		436.27
TOTAL		9323.90

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature] APPROVAL

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 23665

CUSTOMER American Warrior WELL Coleman DATE 1-21 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M		
325		1				Standard cement (FOREA-2)	175	sk			13.50	2362.50
284		1				calseal	800	lb	8	sk	35.00	280.00
283		1				salt	900	lb			0.20	180.00
292		1				halad-322	125	lb			7.75	968.75
276		1				flocele	50	lb			2.00	100.00
281		1				mudflush	500	gal			1.25	625.00
221		1				KCL liquid	2	gal			25.00	50.00
581		1				SERVICE CHARGE	175				2.00	350.00
583		1				MILEAGE CHARGE	18325	TOTAL WEIGHT	70	LOADED MILES	641.38	641.38

CONTINUATION TOTAL 5557.63

JOB LOG

SWIFT Services, Inc.

DATE 17 MAY 12 PAGE NO.

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
American Warrior		1-21		Coleman		Commut long string		23665	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
									175 sks EA-2 w/ 1/4" # floacle 5 1/2" 14# casing RTD 3400' LTD 3402' 108 jts 3403 pipe #62 cut Shoe jt 19.29 Cont 2,5,7,9,11,13,15,17 fresh #4
	0000								on loc TRK 114
	0120								start 5 1/2" 14# casing in well
	0245								Drop ball - circulate - ROTATE
	0315	4 3/4	12				300		Pump 500 gal mud flush
		4 3/4	20				300		Pump 20 bbl RCL flush
			7						Plug RH - MH 20 sks 20 sks
	0330	4 3/4	35				350		Mix EA-2 cement 125 sks @ 15.3 ppg
	0340								Drop latch down plug wash out pump & line
	0343	6 3/4					350		Displace plug
		6 3/4	75				750		
	0400	6 3/4	83				1500		hand plug
	0403								Release pressure to truck - dried up
	0408								wash truck
									Rack up
	0445								job complete Thanks Rob Dawe & Blaine

OPERATOR

Company: American Warrior, Inc.
 Address: 3118 Cummings Rd
 PO BOX 399
 Garden City, KS 67846

Contact Geologist:
 Contact Phone Nbr: 620-275-2963
 Well Name: Coleman #1-21
 Location: 8 5/8" @ 300'
 Pool:
 State: Kansas, Rice Co.

API: 15-159-226585-00-00
 Field: Chase-Silica
 Country: USA



Musgrove

**PETROLEUM
 CORPORATION**
 Claflin, Kansas

Scale 1:240 Imperial

Well Name: Coleman #1-21
 Surface Location: 8 5/8" @ 300'
 Bottom Location:
 API: 15-159-226585-00-00
 License Number:
 Spud Date: 5/11/2012 Time: 1:34 PM
 Region: Sw-Ne-Se-Ne 21-19s-10w
 Drilling Completed: 5/16/2012 Time: 10:50 AM
 Surface Coordinates: 1660' From North Line & 650' From East Line
 Bottom Hole Coordinates:
 Ground Elevation: 1763.00ft
 K.B. Elevation: 1771.00ft
 Logged Interval: 2600.00ft To: 3400.00ft
 Total Depth: 3400.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical Mud Displaced at 2550'

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1660' From North Line
 E/W Co-ord: 650' From East Line

LOGGED BY

Company: Musgrove Petroleum Corp.
 Address: 212 Main St.
 Claflin, KS 67525
 Phone Nbr: 620-546-3960
 Logged By: Geologist Name: Josh Austin

CONTRACTOR

Contractor: Duke Drilling Co, Inc.
 Rig #: 8
 Rig Type:
 Spud Date: 5/11/2012 Time: 1:34 PM
 TD Date: 5/16/2012 Time: 10:50 AM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1771.00ft Ground Elevation: 1763.00ft

NOTES

On the Basis of the drill stem test and after reviewing the electric logs, it was recommended by all parties involved in the Coleman #1-21, that 5 1/2" production casing be set and cemented at the rotary total depth 3400' to further test the following zones; Arbuckle, Conglomerate Sand, Lansing, and Douglas Sand.

American Warrior, Inc. well comparison sheet

DRILLING WELL					COMPARISON WELL			
Coleman 1-21					Herr Estate 2			
1771 KB					1762 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Anhydrite	396	1375	434	1337	445	1317		
Heebner	2824	-1053	2825	-1054				
Toronto	2840	-1069	2846	-1075				
Douglas	2853	-1082	2857	-1086				
Brown Lime	2943	-1172	2946	-1175	2947	-1185	13	10
Lansing	2968	-1197	2970	-1199	2974	-1212	15	13
Base KC	3242	-1471	3247	-1476				
Conglomerate	3253	-1482	3255	-1484				
Arbuckle	3300	-1529	3303	-1532	3320	-1558	29	26
Total Depth	3400	-1629	3402	-1631	3341	-1579		



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior INC

21-19s-10w

3118 Cummings RD
Po Box 399
Gardencity KS 67846
ATTN: Cecil Obrate/ Josh A

Coleman # 1-21

Job Ticket: 47743 DST#: 1

Test Start: 2012.05.15 @ 18:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 22:18:15
Time Test Ended: 05:23:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Staats
Unit No: 47

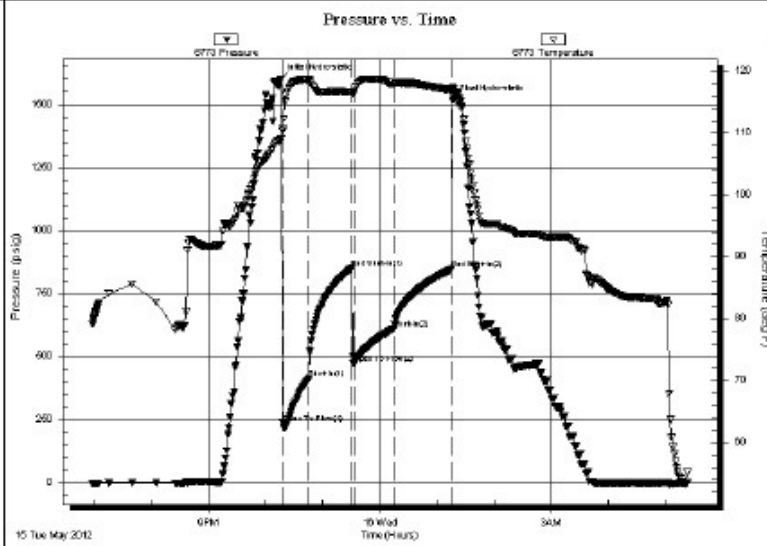
Interval: 3240.00 ft (KB) To 3308.00 ft (KB) (TVD)
Total Depth: 3308.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1771.00 ft (KB)
1763.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6773 Outside
Press@RunDepth: 609.50 psig @ 3240.00 ft (KB)
Start Date: 2012.05.15 End Date: 2012.05.16
Start Time: 18:58:05 End Time: 05:23:30

Capacity: 8000.00 psig
Last Calib.: 2012.05.16
Time On Btm: 2012.05.15 @ 22:15:45

TEST COMMENT: IF: Strong blow BOB 30 sec
 IS: Weak blow back 2"
 FF: Strong blow BOB 1 min
 FST: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.15	109.01	Initial Hydro-static
3	234.10	110.77	Open To Flow (1)
30	412.92	118.60	Shut-In(1)
75	849.09	116.63	End Shut-In(1)
77	471.35	116.33	Open To Flow (2)
119	609.50	118.16	Shut-In(2)
180	844.65	117.03	End Shut-In(2)
181	1515.58	117.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2350' GP	0.00
1240.00	OIL 100%	17.39
558.00	O,G,M 10% oil 45% gas 45% mud	7.83

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

ROCK TYPES

Congl	Dolsec	shale, gry	Ss
Chtcong	Lmst fw7>	Carbon Sh	

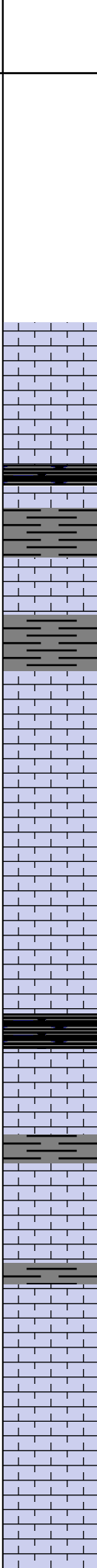
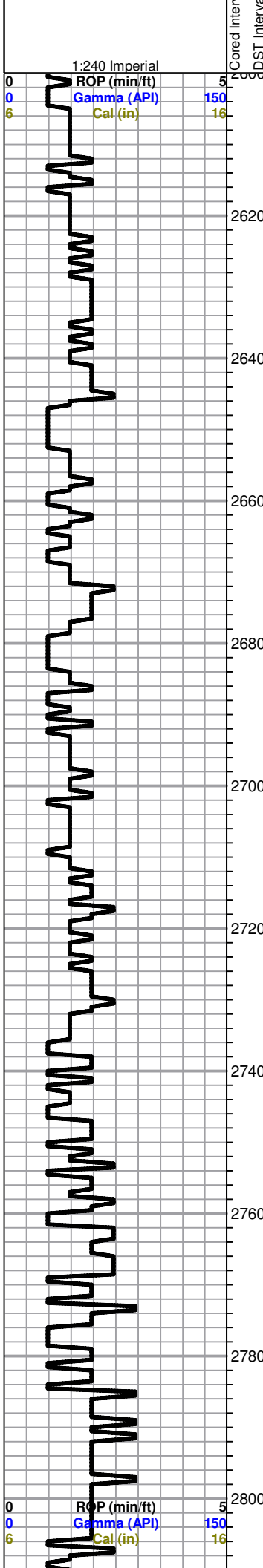
ACCESSORIES

FOSSIL
 Oomoldic

OTHER SYMBOLS

DST
 DST Int
 DST alt
 Core
 tail pipe

Curve Track #1	Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions
ROP (min/ft)					
Gamma (API)					
Cal (in)					
					TG, C1 - C5
					Total Gas (units)
					C1 (units)
					C2 (units)
					C3 (units)
					C4 (units)



Limestone; cream-buff, fine xln, chalky, fossiliferous in part, few mottled pieces, poor porosity, no shows

black carboniferous shale

Shale; grey

grey-green-maroon shale

Limestone; cream-lt. grey, fine xln, chalky in part, poorly developed porosity, no shows

Limestone; cream, fossiliferous/oolitic, chalky in part. dense, slightly cherty, plus cream boney chert

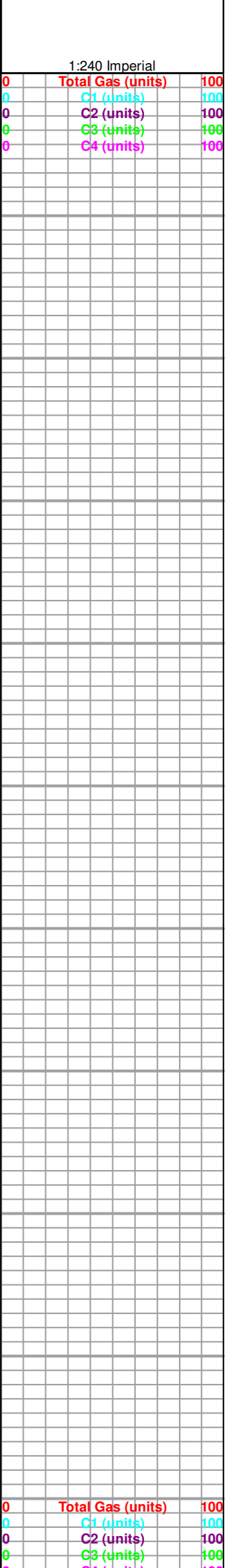
black carboniferous shale

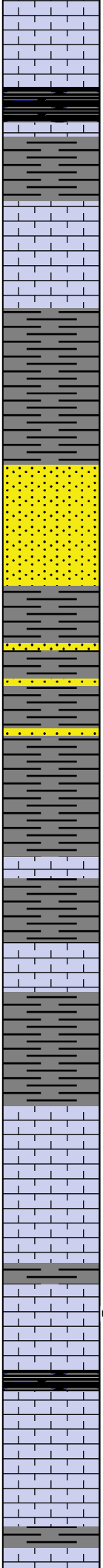
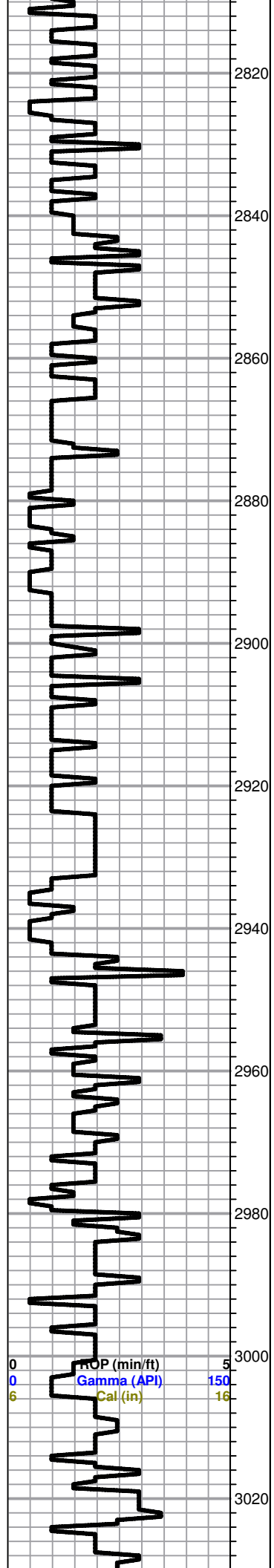
Limestone; cream-tan, fine-medium xln, granular in part, fossiliferous, no shows

Limestone; cream-buff, fine-medium xln, dense, fossiliferous/oolitic, few scattered inter xln-finely vuggy type porosity, questionable trace golden brown stain, NSFO, no odor

Limestone; cream-grey, fine xln, dense, poor visible porosity, few fossiliferous pieces, no shows

Limestone; cream-tan, fine xln, slightly fossiliferous, dense, cherty in part





fossiliferous, dense, cherty in part

HEEBNER 2824 (-1053)
black carboniferous shale

TORONTO 2840 (-1069)
Limestone; cream-white fine xln, chalky, trace pin-point porosity, no shows
Plus buff, dolomitic, LS; sucrosic, no shows

DOUGLAS 2853 (-1082)
Shale; grey-marroon-green

Shale; grey-green, micaceous, silty in part

Sand; grey, very fine grained, sub angular, sub rounded, friable, dark brown-black stain, spotty SFO, fair "gassy" odor

Sand as above plus silty micaceous shale

Shale; grey-dark grey, soft, micaceous in part

BROWN LIME 2943 (-1172)
Limestone; tan-brown, fine xln, dense, cherty, fossiliferous in part

Shale; grey-greyish green

LANSING 2968 (-1197)
Limestone; cream, fine xln, dense, sparry calcite in porosity, no shows

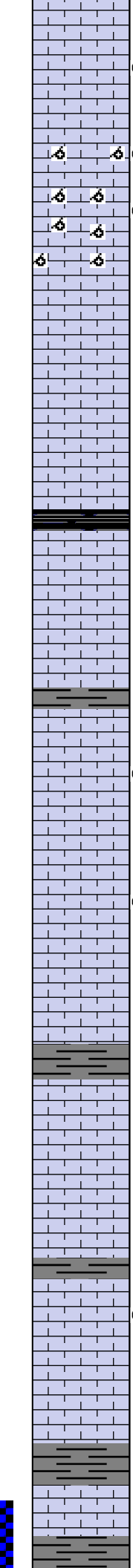
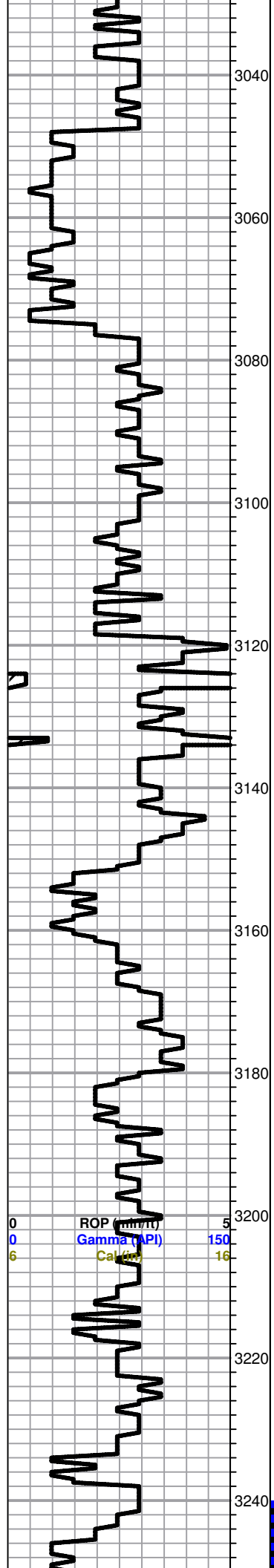
Limestone; cream-buff, fine xln, chalky in part, dense, few scattered vuggy-inter xln type porosity, brown stain, trace free oil, no odor

Limestone; cream, fine xln, finely oolitic-fossiliferous, chalky, poor visible porosity, no shows

Limestone; cream-tan, fine xln, highly oolitic, dense, poorly developed porosity, no shows

KB
1771

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



dense, poorly developed porosity, no shows

○ Limestone; as above trace vuggy-oolitic type porosity, brown stain, trace free oil

● Limestone; cream-tan, oomoldic, chalky, fair-good, oomoldic porosity, brown, stain spotty show free oil, faint odor.

○ Limestone; as above

Limestone; cream-buff-grey, fine xln, dense, slightly chalky poor visible porosity, plus buff-grey fossiliferous, boney; Chert

black carboniferous shale

Limestone; cream-lt. grey, fine xln, chalky, few fossiliferous pieces, no shows

Limestone; cream-white, highly oolitic, chalky in part, dense, cherty, poor porosity

○ Limestone; cream-buff, fine xln, slightly fossiliferous, few oolitic pieces, trace brown stain, no show of free oil, no odor

○ Limestone; cream, highly oolitic, chalky, poorly developed oolitic type porosity, trace brown stain, trace free oil, very faint odor

Limestone; cream-buff-white, fine xln, chalky in part, slightly fossiliferous, poor visible porosity, no shows

Limestone; cream-lt.grey, fine xln, chalky, slightly fossiliferous, dense, plus grey Chert

Limestone as above

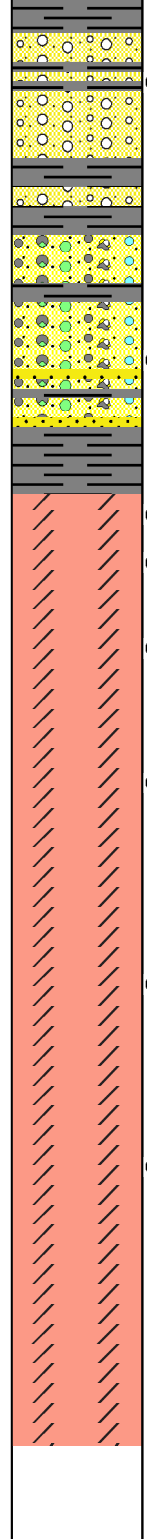
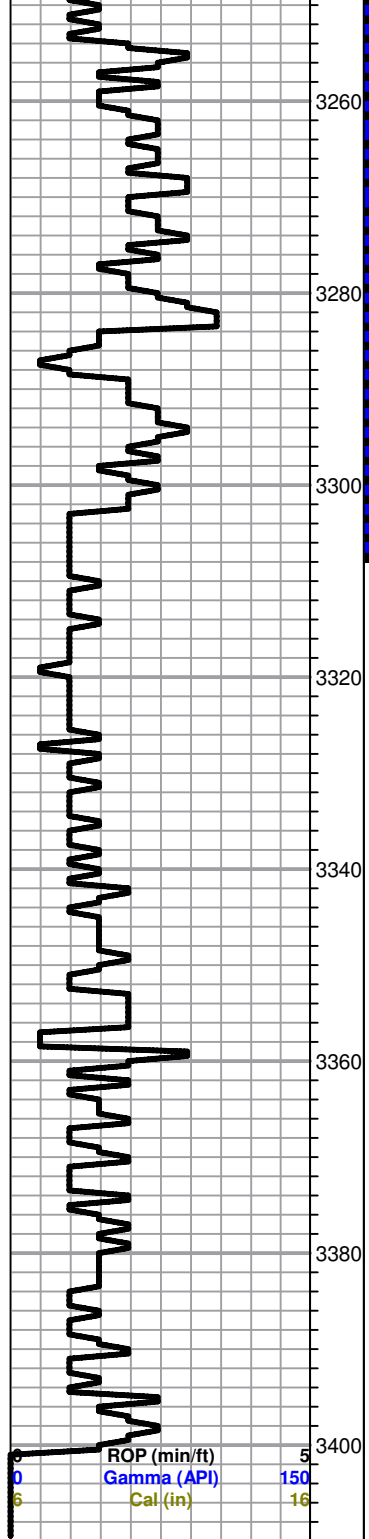
○ Limestone; cream; highly fossiliferous-oolitic, chalky, poorly developed porosity, trace brown stain, trace spotty free oil, no odor

grey shale

BASE KANSAS CITY 3242 (-1471)

Shale: grey-green. micaceous. silty

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



CONGLOMERATE 3253 (-1482)

Limestone; cream, fine-medium xln, granular in part, few fossils, questionable trace brown stain
Chert; variety of colors, boney
plus grey-green-brick red Shale

as above, trace Sand; very fine grained, black stain, trace free oil

ARBUCKLE 3300 (-1529)

Dolomite; tan-buff, fine xln, slightly sucrosic, dense, poorly developed porosity, brown stain, SFO in part, fair-good odor

Dolomite; cream-buff, fine-medium xln, sucrosic in part, fair inter xln porosity, coffee brown stain, trace free oil, fair odor

Dolomite; buff-cream-tan, fine-medium xln, sucrosic in part, scattered porosity, NSFO, faint-fair odor plus grey Chert, trace quartz

Dolomite; as above no shows, few pieces of Quartz

Dolomite; cream-lt. grey, fine-medium xln, inter xln type porosity, questionable trace spotty brown stain, NSFO, faint odor, plus lt. grey-white boney Chert

Dolomite; as above

ROTARY TOTAL DEPTH 3400 (-1629)

30-45-45-60
Blow; BOB in 30 sec
2" blow back
BOB in 1 min
no blow back

Recovery;
2350' GIP
1240' Oil
558' OGM
(45% gas 10% oil 45% Mud)

Pressures;
ISIP 849
FSIP 844
IFP 234-412
FFP 471-609
HSH 1597-1515

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100