

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1234770

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 #			API No. 15		
Name:			Spot Description:		
Address 1:			Sec	TwpS. R	East West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □SE □SW	
CONTRACTOR: License #			GPS Location: Lat:	, Long: _	
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84	
Purchaser:			County:		
Designate Type of Completion:			Lease Name:	W	/ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			1		
GSW	Permit #:		Operator Name:		
_ _			Lease Name:	License #:_	
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East _ West
Recompletion Date		Recompletion Date	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 Approved by: Date:

Page Two



Operator Name:				Lease N	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whethe with final cha	er shut-in pre art(s). Attach	essure reac n extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, fluid re	ecovery,
Final Radioactivity Lo files must be submitte						ogs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electr	onic log
Drill Stem Tests Taker (Attach Additional		Yes	☐ No				on (Top), Depth ar		Sampl	
Samples Sent to Geo	logical Survey	Yes	□No		Nam	е		Тор	Datum	1
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No							
List All E. Logs Run:										
				RECORD	Ne					
		1				ermediate, product		T	I	
Purpose of String	Size Hole Drilled		Casing n O.D.)	Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used	Type and Pe Additive	
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of	Cement	# Sacks	Used		Type and F	ercent Additives		
Perforate Protect Casing	100 20111111									
Plug Back TD Plug Off Zone										
1 lug 011 20110										
Did you perform a hydrau	ulic fracturing treatment	on this well?				Yes	No (If No, ski	ip questions 2 ar	nd 3)	
Does the volume of the t							= :	p question 3)		
Was the hydraulic fractur	ring treatment information	on submitted to	the chemical	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot		ION RECORD Footage of Eac					cture, Shot, Cement			epth
	open,					,,				
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR. F	Producing Met	hod: Pumpin	a	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat			Gas-Oil Ratio	Gra	avity
	1									
	ON OF GAS:		en Hole	METHOD OF			mmingled	PRODUCTION	ON INTERVAL:	ļ
Vented Solo	I Used on Lease bmit ACO-18.)		en noie _	Perf.	(Submit		mmingled mit ACO-4)			

Form	ACO1 - Well Completion
Operator	Empire Energy E&P, LLC
Well Name	Drake 4-9
Doc ID	1234770

All Electric Logs Run

Borehole Compensated Sonic Log
Corrected Microresistivity Log
Dual Compensated Porosity Log
Dual Induction Log

TILL NULLUUUUUT **ENERGY SERVICES** PAGE CUST NO YARD # INVOICE DATE 1007035 1718 10/07/2014 INVOICE NUMBER

91615282

Pratt

(620) 672-1201

B EMPIRE ENERGY E&P LLC

I PO BOX 548

_ GREAT BEND

KS US

67530

o ATTN:

KIM HOFFMAN

LEASE NAME

Drake 4 - 9

LOCATION

COUNTY

Barton

STATE

KS

I

JOB DESCRIPTION T

Cement-New Well Casing/Pi

JOB CONTACT

JOB #	EQUIPMENT #	PURCHASI	E ORDER NO.		TERMS	DUE DATE
40773500	19905				Net - 30 days	11/06/2014
·			QTY	U of	UNIT PRICE	INVOICE AMOUN
For Service Dates.	: 10/06/2014 to 10	/06/2014		М		
0040773500						
171811207A Cemer	nt-New Well Casing/Pi 10)/06/2014				
Cement 5 1/2" Longs	string					
AA2 Cement			300.00	ĖA		
Celloflake			75.00	EA		
C-41P			57.00	EA		
Salt			1,381.00	EA		
Cement Friction Redu	cer		85.00	EA		
FLA-322			141.00	EA		
Gilsonite			1,500.00	EA		
Mud Flush			500.00	EA		
"Latch Down Plug & I			1.00	EA		
"Auto Fill Float Shoe 5			1.00	EA		
"Turbolizer, 5 1/2"" (E			10.00	EA		
"5 1/2"" Basket (Blue)			1.00	EA		
"Unit Mileage Chg (PU			85.00	MI		
Heavy Equipment Mile	-		170.00	MI	92.	
"Proppant & Bulk Del.			1,199.00	EA		
Depth Charge; 3001-4			1.00	EA	741	
Blending & Mixing Serv	•		300.00	BAG		31
Plug Container Util. Ch			1.00	EA		
Service Supervisor, fi	rst 8 hrs on loc.		1.00	EA		
	AFE# OIL	34				
	9208	44	tarthug/			
	AFE# 011 9208 10/04/14 Ruhwd M.	I make	10/15/14			· · · · ·
	Kilwa W.	sury				e e

PLEASE REMIT TO:

SEND OTHER CORRESPONDENCE TO:

DALLAS, TX 75284-1903

BASIC ENERGY SERVICES, LP PO BOX 841903 BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102

SUB TOTAL

TAX

INVOICE TOTAL





10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

FIELD SERVICE TICKET

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DATE	TICKET NO		

	PRESSUF	RE PUMPIN	JG & WIRELINE					DATE	TICKET NO	<u> </u>	
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TREATMENT REPORT

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	tion Annulus	Vol.	From		То					HHP Use	d		-	Annulus	Pressure		
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HLE VIL34 PAGE TST NO INVOICE DATE YARD # KSBA000304 007035 1718 10/02/2014 INVOICE NUMBER 91612402 ENERGY

B EMPIRE ENERGY E&P LLC

PO BOX 548

GREAT BEND

KS US

Pratt

67530

o ATTN:

KIM HOFFMAN

J LEASE NAME Drake

4-9

LOCATION

COUNTY

Russell Barton

STATE

KS

JOB DESCRIPTION T

Cement-New Well Casing/Pi

JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO).	TE	RMS	DUE DATE
40771795	. 20920			Net -	30 days	11/01/2014
		QTY	U of	UNIT	PRICE	INVOICE AMOUNT
For Service Dates.	: 10/01/2014 to 10	/01/2014	M			
0040771795			,			
171811481A Cemer Cement 8 5/8 Surface	nt-New Well Casing/Pi 1 e	0/01/2014				
A-Cn Blend Common		175.	00 EA		-	; :::: ; :::::::::::::::::::::::::::::
Common Cement Celloflake		175.				
Calcium Chloride		88. 825.				
"Top Rubber Cmt Plug	g, 8 5/8"""		DO EA			
"Baffle Plate Alum., 8		1	DO EA		7	
"Unit Mileage Chg (PL		85.	о мі			
Heavy Equipment Mile		170.				
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PLEASE REMIT TO:

SEND OTHER CORRESPONDENCE TO:

BASIC ENERGY SERVICES, LP BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903

801 CHERRY ST, STE 2100 FORT WORTH, TX 76102

SUB TOTAL

TAX

INVOICE TOTAL





TREATMENT REPORT

Customer	Mist -	E. 1900	355	Lea	se No.					Date			
Lease	WAKE		 ′	We	# _{]/.}	7				1 1	<u>- 0/ ~</u>	-14	
Field Order #	Station	P.211	沙丁	160			Casin	g Dep	the Co	County	ussel	/ 	State
Type Job	1 8 5/8	- Son	Streec					Formatio	n			Description	-73
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Well Connection				Го					HHP Use	d		Annulus	Pressure
Plug Depth	Packer Dept	h From		Го		Flu			Gas Volu	me		Total Loa	d
Customer Repre	esentative	<u> </u>			Station	Man	ager / <u>/</u> ///	nt Scott		Treater	Short	1.11.	-5
Service Units Driver	3 <u>2900 :</u>	33701	2092				199/s-						
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BASIC** ENERGY SERVICES

10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

FIELD SERVICE TICKET

1718 1111 A

DATE OF PROD DISTRICT New Year	JUB	(C DI	STRICT		NEW D	OLD. 🗆	PROD CINI	□ WDW □ S	CUSTOMER	 R
ADDRESS COUNTY / STATE SERVICE CREW / JOB TYPE: COUPMENT# HRS EQUIPMENT# HRS EQUIPMENT# HRS EQUIPMENT# HRS STRUCK CALLED PATE MM TO ARRIVED AT JOB ARRIV									DRDER NO).:
AUTHORIZED BY EQUIPMENT\$ HRS EQUIPMENT\$ HRS EQUIPMENT\$ HRS TRUCK CALLED DATE MY TO ARRIVED AT JOB MY TO ARRIVED A			Company Control	///					WELL N	10.
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ARRIVED AT JOB PM START OPERATION AM TRISH OPERATION TO WELL The undersigned is authorised to excelle this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services, me undersigned agrees and acknowledges that this contract tor services. SINDLE TORDATION TORDA		T# HRS	EQUIPMENT#	HRS	EQUIPMENT#					
START OPERATION AM INITIAL PRINCE OPERATION AM INITIAL PRINCE OF A CONTRACT CONDITIONS: (This contract must be signed before the job is commonced or merchandise is delivered). CONTRACT CONDITIONS: (This contract must be signed before the job is commonced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, merchands a part of this contract without the written consent of an officer of Basic Energy Services LP. SIGNED: (WELL OWNER, OPERATOR, CONTRACTOR OR A				-			ARRIVED AT	JOB	- 	
CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an appart of the customer, As such, the undersigned agrees and acknowledges that this contract for services, may obtain a part of this contract without the written consent of an officer of Basic Energy Sovices LP. SIGNED: WELL OWNER, OPERATOR, CONTRACTOR OR A REF. NO. MATERIAL, EQUIPMENT AND SERVICES USED WINT QUANTITY UNIT PRICE **AMOUNT CONTRACTOR OR A REF. NO. **AMOUNT CONTRACTOR OR A REF.	1681/174	(3)				+-	START OPER	RATION		
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CHEMICAL / ACID DATA: SERVICE & EQUIPMENT %TAX ON \$ MATERIALS %TAX ON \$	(1)	1 10 m				10	79 %		G ()	1
CHEMICAL / ACID DATA: SUB TOTAL SERVICE & EQUIPMENT %TAX ON \$ MATERIALS %TAX ON \$	(1)	Twice of T				10	79 %		G ()	1
CHEMICAL / ACID DATA: SERVICE & EQUIPMENT %TAX ON \$ MATERIALS %TAX ON \$	(1) 1/2 () 0) - 70 (2)		or retring			(b (b (b (b (b (b (b (b (b (b	79 % 7 17 1		1, 10, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,)
CHEMICAL / ACID DATA: SUB TOTAL SERVICE & EQUIPMENT %TAX ON \$ MATERIALS %TAX ON \$	- (12 - (17) - (0) - (17)	$\frac{f(x, y, y, y)}{f(x, y, y,$	or or program			(b (b (b (b (b (b (b (b (b (b	79 % 7 17 1		5 18 1, 08, 1, 08	7 7 7
CHEMICAL / ACID DATA: SUB TOTAL SERVICE & EQUIPMENT %TAX ON \$ MATERIALS %TAX ON \$	- (12 - (10) - (10) - (10) - (10)	$\frac{f(x,y,y,y)}{f(x,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y$	or or program		5 1/2	(b) (b) (b) (b) (c) (c) (c) (c)	(5) (5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		5 tv	
SERVICE & EQUIPMENT %TAX ON \$ MATERIALS %TAX ON \$	- (12 - (10) - (10) - (10) - (10)	$\frac{f(x,y,y,y)}{f(x,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y,y$	or or program		5 1/2	(b) (b) (b) (b) (c) (c) (c) (c)	(5) (5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		5 tv	
SERVICE & EQUIPMENT %TAX ON \$ MATERIALS %TAX ON \$	- 112 - 101 - 101 - 101 - 101 - 101 - 101	$\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$ $\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$ $\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$	er in Proges er proges see		5 1/2	(b) (b) (b) (b) (c) (c) (c) (c)	() () () () () () () () () () () () () (
SERVICE & EQUIPMENT %TAX ON \$ MATERIALS %TAX ON \$	- (12 - (20) - (20) - (30) - (30) - (30) - (30)	$\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$ $\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$ $\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$	er in Proges er proges see		5 1/2	(b) (b) (b) (b) (c) (c) (c) (c)	() () () () () () () () () () () () () (
SERVICE & EQUIPMENT %TAX ON \$ MATERIALS %TAX ON \$	- (12 - (20) - (20) - (30) - (30) - (30) - (30)	$\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$ $\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$ $\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$	er in Proges er proges see		5 1/2	(b) (b) (b) (b) (c) (c) (c) (c)	() () () () () () () () () () () () () (
MATERIALS %TAX ON \$	(12 (12) (10) (13) (13) (13) (13)	$\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$ $\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$ $\frac{f(x, y, y)}{f(x, y)} = \frac{f(x, y, y)}{f(x, y)}$	er in Proges er proges see		5 1/2	(b) (b) (b) (b) (c) (c) (c) (c)	() () () () () () () () () () () () () (
	- (1) - (0) -		er in Proges er proges see		5 1/2	(b) (b) (b) (b) (c) (c) (c) (c)	() () () () () () () () () () () () () (SUB TOTAL		
TOTAL	(1) (1/2) (1/2) (1/2) (1/2) (1/2)		er in Proges er proges see		SERVICE & EQUIP			f(t)		
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		er in Proges er proges see		SERVICE & EQUIP		() () () () () () () () () ())/(/) DN \$		



Geologist's Report

Company: **Empire** Energy E&P, LLC

Lease: **Drake** #4-9

Field: <u>Trapp</u>

Surface Location: ocation: <u>SW-SE-NE-SE (1474' FSL 7 343' FEL)</u> Twp: <u>17S</u> Rge: <u>13W</u>

Sec: $\underline{4}$

County: Barton State: Kansas

GL: 1924'

> KB: 1937'

Spud: Contractor: Ninnescah Drilling Rig #101 9/29/14 Comp: 10/5/14

RTD: <u>3550'</u> Mud Up: ± +/- 2500' LTD: <u>3541'</u> Mud Type: Chemical Displaced

Drilling Time Kept From: 2700' to RTD

Samples Saved From: 2700' to RTD

Samples Examined: <u>2800' to RTD</u>

Geoloigcal Supervision: ision: <u>2800' to RTD</u> <u>Kurt Talbott</u>

Geologist on Well:

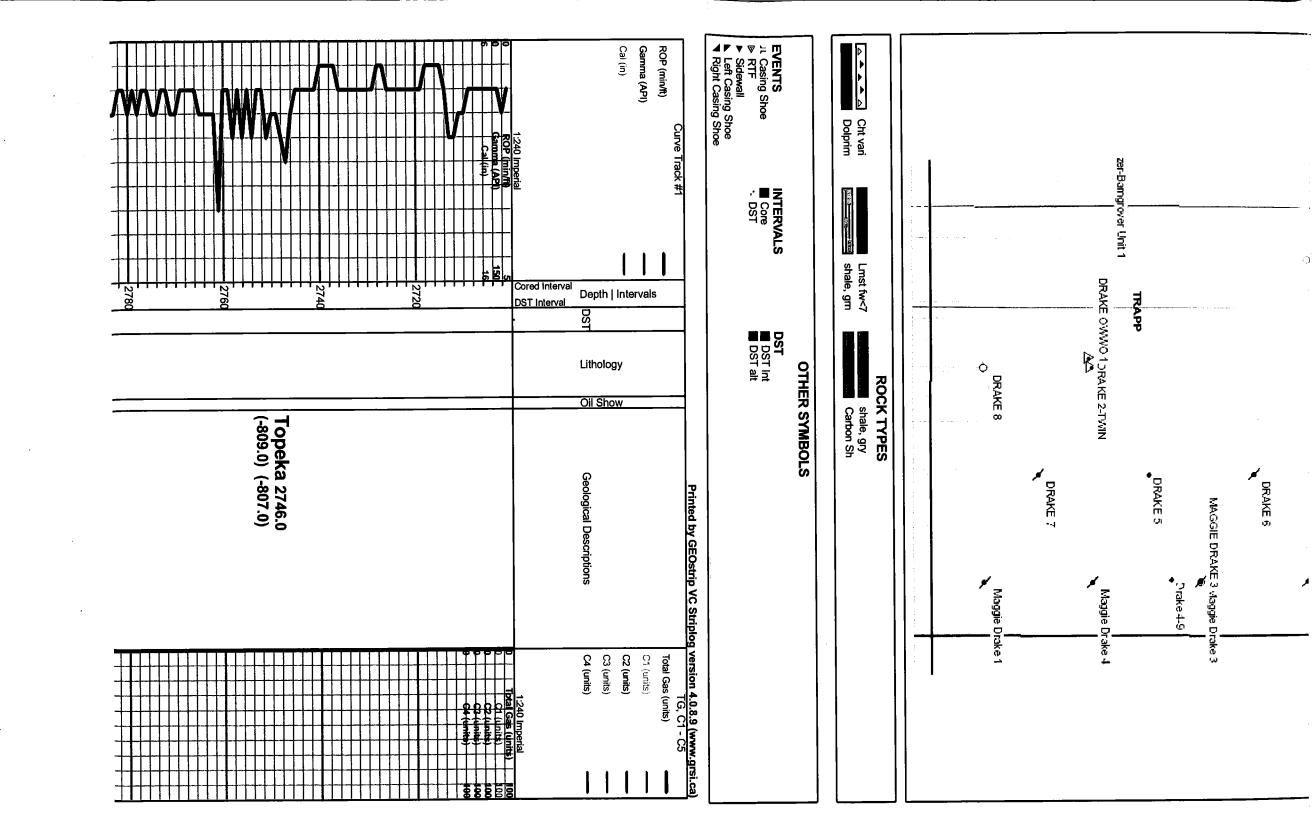
Surface Casing: 8 5/8"@ 860"

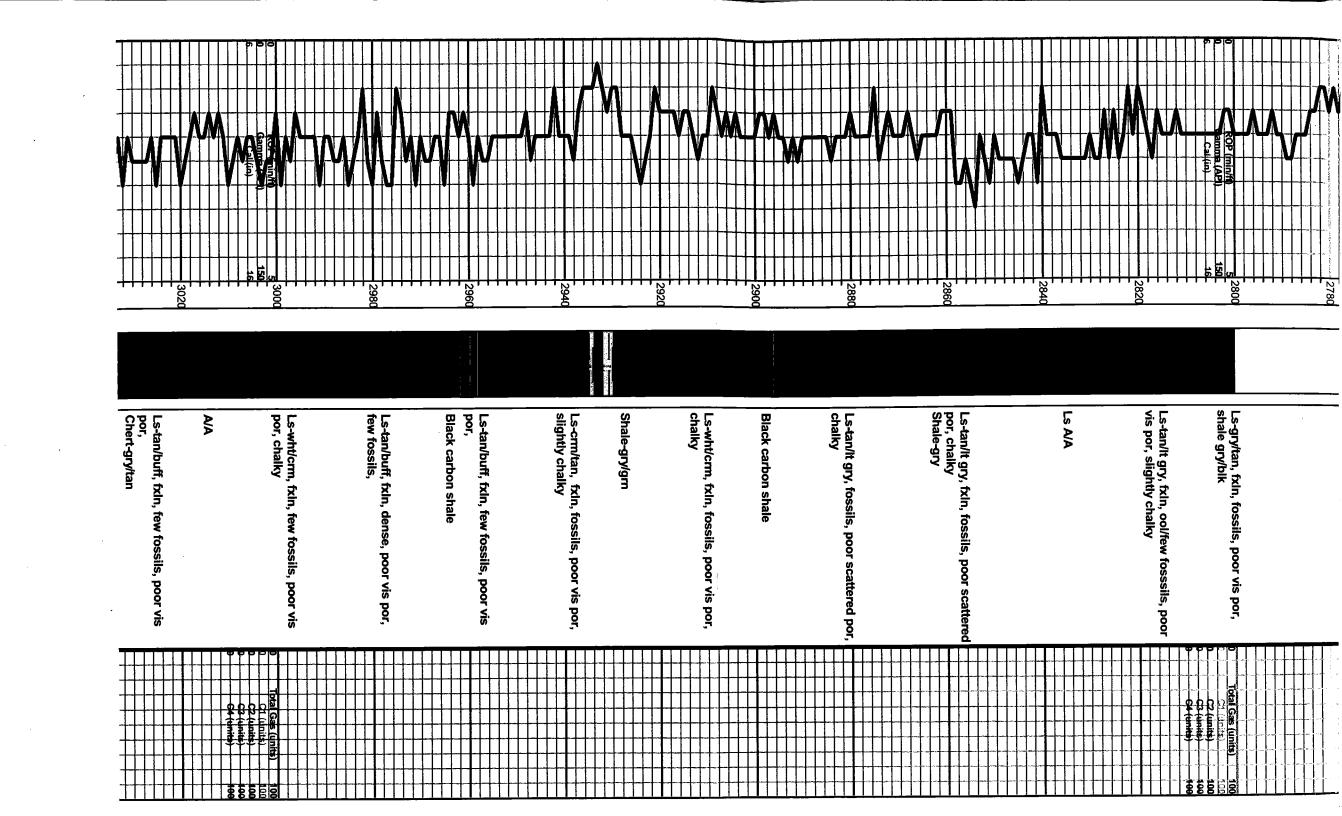
Production Casing: 51/2"@

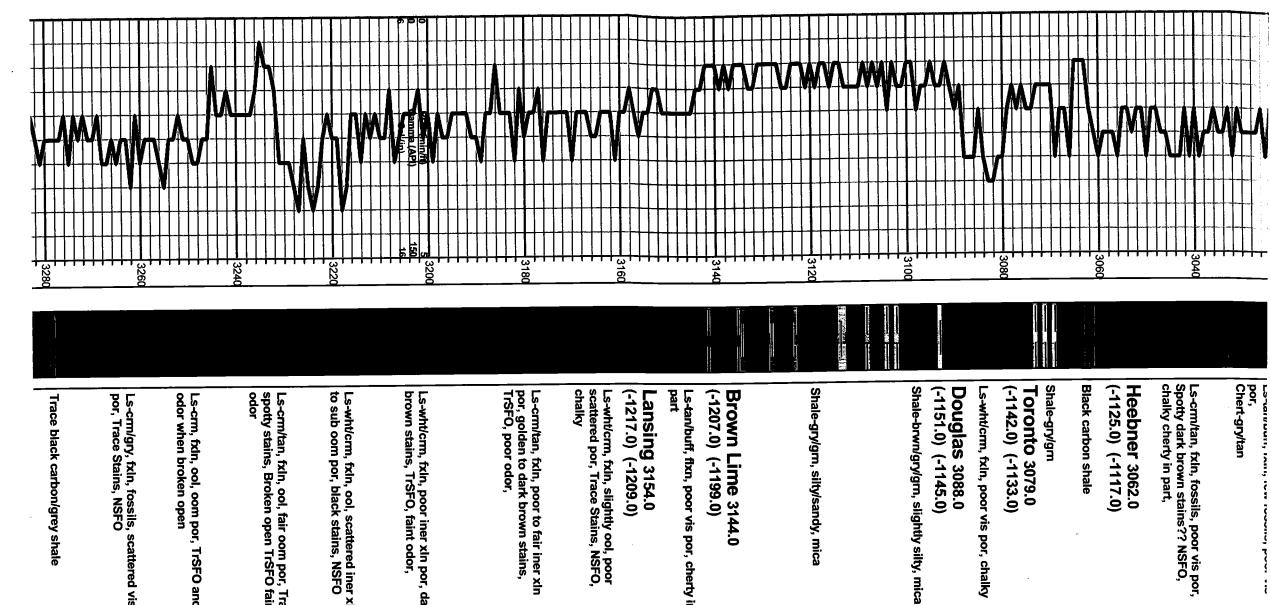
Wireline Logs: By Pioneer: CNL/CDL,

	WELL BE	WELL BEING DRILLED	9	OFFSET
		EMPIRE	<u> </u>	EMPIRE
	DRA	DRAKE #4-9	DRA	DRAKE #6
	19:	1937 KB	190	1907 KB
FORMATION	6	LD SS	MD	88
Topeka	2738	-807		
TORONTO	3070	-1133	3057	
ARBUCKLE	3377	-1440	3368	-1577









Ls-crm/tan, fxln, fossils, poor vis por, Spotty dark brown stains?? NSFO, chalky cherty in part,

Heebner 3062.0

Toronto 3079.0 (-1142.0) (-1133.0)

Ls-wht/crm, fxln, poor vis рог, chalky

Douglas 3088.0 (-1151.0) (-1145.0)

Shale-gry/gm, silty/sandy, mica

Brown Lime 3144.0 (-1199.0)

Ls-tan/buff, fixn, poor vis por, cherty in

Lansing 3154.0 (-1217.0) (-1209.0)

Ls-wht/crm, fxln, slightly ool, poor scattered por, Trace Stains, NSFO, chalky

Ls-crm/tan, fxln, poor to fair iner xln por, golden to dark brown stains, TrSFO, poor odor,

Ls-wht/crm, fxln, poor iner xln por, dark brown stains, TrSFO, faint odor,

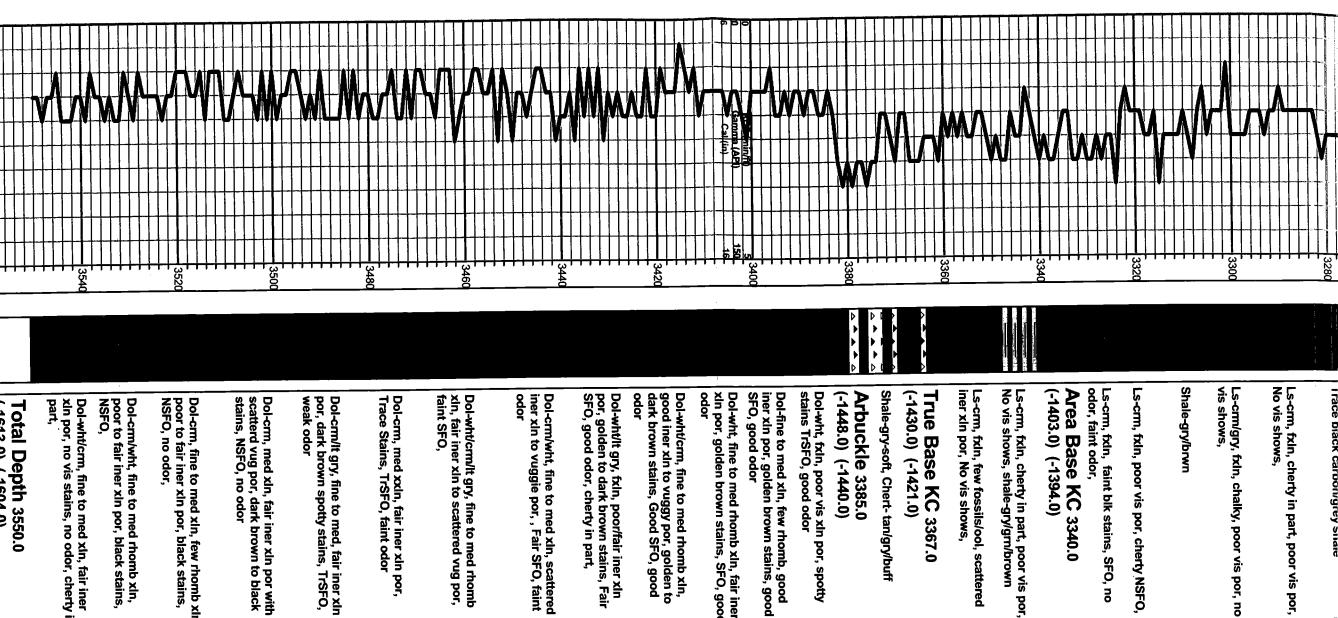
Ls-wht/crm, fxln, ool, scattered iner xln to sub oom por, black stains, NSFO

Ls-crm/tan, fxln, ool, fair oom por, Trace spotty stains, Broken open TrSFO faint odor

Ls-crm, fxln, ool, oom por, TrSFO and odor when broken open

Ls-crm/gry, fxln, fossils, scattered vis por, Trace Stains, NSFO

Trace black carbon/grey shale



Ls-crm, fxln, cherty in part, poor vis por, No vis shows,

Ls-crm, fxln, poor vis por, cherty NSFO,

faint blk stains, SFO, no

Area Base KC 3340.0

Dol-wht, fxln, poor vis xln por, spotty stains TrSFO, good odor

Dol-fine to med xln, few rhomb, good iner xln por, golden brown stains, good SFO, good odor

Dol-wht, fine to med rhomb xln, fair iner xln por, golden brown stains, SFO, good

good iner xin to vuggy por, golden to dark brown stains, Good SFO, good

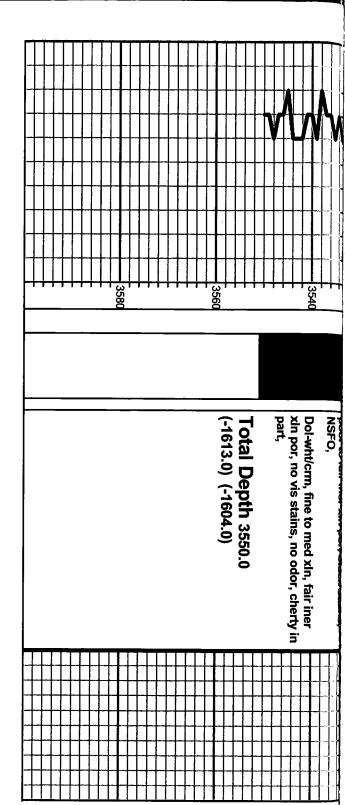
Dol-wht/lt gry, fxln, poor/fair iner xln por, golden to dark brown stains, Fair SFO, good odor, cherty in part,

Dol-crm, med xln, fair iner xln por with scatterd vug por, dark brown to black stains, NSFO, no odor

Dol-crm, fine to med xin, few rhomb xin, poor to fair iner xin por, black stains, NSFO, no odor,

xIn por, no vis stains, no odor, cherty in Dol-wht/crm, fine to med xln, fair iner

Total Depth 3550.0



Printed from NeuraView 10/08/14