KOLAR Document ID: 1497093

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 #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from  North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □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: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)  Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
•	If Alternate II completion, cement circulated from:
Operator:	•
Well Name:	feet depth to: sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	·
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec. Twp. S. 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 Drill Stem Tests Received							
Geologist Report / Mud Logs Received							
UIC Distribution							
ALT I II Approved by: Date:							

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#### Page Two

Operator Name: _				Lease Name:			Well #:		
Sec Twp.	S. R.	Ea	ast West	County:					
	flowing and shu	ıt-in pressures, w	hether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	. Digital electronic log	
Drill Stem Tests Ta			Yes No		_	on (Top), Depth ar		Sample	
Samples Sent to G	Geological Surv	ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		R			New Used	on, etc.			
Purpose of Strir		Hole	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / S	QUEEZE RECORD	I			
Purpose:		epth Ty	pe of Cement	# Sacks Used	ed Type and Percent Additives				
Protect Casi									
Plug Off Zon									
<ol> <li>Did you perform a</li> <li>Does the volume o</li> <li>Was the hydraulic</li> </ol>	of the total base f	luid of the hydraulic	fracturing treatment	_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three (	,	
Date of first Producti Injection:	ion/Injection or Re	esumed Production	/ Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			N INTERVAL: Bottom	
	_	on Lease	Open Hole			mmingled mit ACO-4)	Тор	Bottom	
,	, Submit ACO-18.)				· · · · · · · · · · · · · · · · · · ·				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid	Fracture, Shot, Cer (Amount and Kind	menting Squeeze  I of Material Used)	Record	
TUBING RECORD:	Size:	Set /	At:	Packer At:					
. 5213 (1200) 10.	JIEG.			. 30.0.71					

Form	ACO1 - Well Completion							
Operator	Patterson Energy LLC							
Well Name	BRUEGGEMAN 1-15							
Doc ID	1497093							

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	240	Common	150	3%CC
Production	7.875	5.5	17	3800	Common	160	3%

## QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1724

Date 10-9-19 Sec.	Twp. Range	Roc	County	KState	On Location	Finish 12:00 AW
Date 1		Location	$\Omega$	-45 to	AA Rd, 15	F 54 ato
Lease Bruegory	man Well No. 1-1	5			sell	E, EINIO
Contractor Mucfin	# S	<u> </u>	To Quality Oils	well Cementing, Ir	ic.	
Type Job Surfice			You are hereb cementer and	y requested to re helper to assist o	nt cementing equipmen wner or contractor to de	t and furnish o work as listed.
Hole Size 12141	T.D. 240'		Charge To	Herson.	Energy	
Csg. 85/8"	Depth 2401		Street	11000	211099	
Tbg. Size	Depth		City		State	
Tool	Depth		The above was	done to satisfaction	and supervision of owner	agent or contractor.
Cement Left in Csg. 15	Shoe Joint 15		Cement Amou	1		c 2% bel
Meas Line	Displace 1414	BUS				
EQUIPM			Common /2	0		* **
	m		Poz. Mix 30	2		
Bulktrk / No. Driver Mo. Driver	ke		Gel. 3			
Buller D. Wo. Driver Pro	K		Calcium 6			
JOB SERVICES	& REMARKS		Hulls			
Remarks: Cenert did	Circulat	e	Salt	*		
Rat Hole			Flowseal			
Mouse Hole			Kol-Seal			
Centralizers			Mud CLR 48			
Baskets			CFL-117 or CE	D110 CAF 38		
D/V or Port Collar			Sand			
			Handling /5	9		
14.8			Mileage			
				FLOAT EQUIP	MENT	
			Guide Shoe			
	4		Centralizer			-
h AN	/		Baskets			
X NV.		-14	AFU Inserts			
		4/	Float Shoe		D = 100	
	N 191		Latch Down			
						A STANSON AND A
	A		100	N ED BE -	н 2	
			Pumptrk Charg	e Surface	e	
			Mileage 37			
					Tax	
	1				Discount	
X Signature / Mon //	M				Total Charge	

# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1804

97 <sub>1887</sub> 36 =	Sec.	Twp.	Range	(	County	State	On Location	Finish			
Date 10-14-19	15	10	20	Roo	KSO	K5		5,00Am			
				Locati	on take &	15 AARD /1/2E	Silito				
Lease Bruegge	man		Well No. /-/-	5	Owner	31	307				
Contractor Montin #	8	Bot	tom Stage	2	To Quality Oilwell Cementing, Inc.						
Type Job DV Tob				N <sub>a</sub> .	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Hole Size 778	T.D.	305	195	Charge Pattersa Every							
Csg. 5/2 174	Depth	3803		Street							
Tbg. Size	Depth			City State							
Tool Di Tool \$15.	Depth	1635	1	The above wa	s done to satisfaction an	d supervision of owner	agent or contractor.				
Cement Left in Csg. 43	50	Shoe J	oint 43.52	>	Cement Amo		m101.50/4	22			
Meas Line		Displac	e 87/4BC	_	51. Cits	enite seogal	mid clear & 22	BY KCL			
	EQUIPM	/			Common/5	'o '		-			
Pumptrk /8 No. Cemer Helper	nter	and			Poz. Mix			W. 41			
	mide	el.			Gel.						
Bulktrk 21 No. Driver Driver	Lance				Caleium /	CL 2 ga	0				
JOB SEF	RVICES 8	& REMA	RKS	_	Hulls			2. 27			
Remarks:		V			Salt /3	97 15 G	10	*			
Rat Hole	West and an arrange of the same				Flowseal						
Mouse Hole					Kol-Seal 750#						
Centralizers	***	91			Mud CLR 48 500 000						
Baskets					CFL-117 or CD110 CAF 38						
D/V or Port Collar			2		Sand		-	8			
5 /2 set@ 3	803	Ball	ea 3759	150	Handling/7	0		*			
Bst. Crwlation	- Pom	D = 20	soal mude	Mar	Mileage						
+ 10BL KCL. Mi	X 150	95KY	Disidour Du	u.		FLOAT EQUIPME	NT				
Dissoce with	多过	water	BER	2	Guide Shoe						
Mud + leBi war	6 to	land	shig.		Centralizer	7					
121 10BL KCL. 1	Pha	landa	DP 15004	t-	Baskets 3	9 89		_ = 102 +0			
Lifa pressure 7	wit.				AFU Inserts	DU Tool	180 180				
1				14	Float Shoe	/					
Drop Darty	Ben	Sil	Tel.	le:	Latch Down /	/		1			
	4 75		be				* *	n. 2 m. a			
	1	Trav	19	14. 1			Rot	ton			
			7		Pumptrk Char	ge prod Str	ing st	4088			
	\\\/				Mileage	P					
	. Y	F					Tax	f +			
4 1			5 8 2				Discount				
X Signature <i>Ohn We</i>	aven	long					Total Charge				

# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1805

Csg. 5/2 pt Depth 380 3 Street  Tog. Size Depth City State  The above was done to satisfaction and supervision of owner agent or contractor.  Common Left in Csg. Shop Joint Common 350 0 0 Mpc  EQUIPMENT Common 350 0 0 Mpc  FUNDITY OF THE STATE COMMON COM	W v v 6	Sec. T	wp.	Range	1	County	State	On Location	Finish			
Lease Drug age were Well No. 1/5 Contractor Mushin ##8 Type Job D J Tbb  Hole Size 7/8 T.D. 586.5 Size Depth 38.3 Sixee Depth 38.3 Sixee Depth City State Tod D J J Depth City State Tod D J J Depth City State Depth City State The above was done to satisfaction and supervision of owner agent or contractor. Cement Left in Csg. Shoe Joint Cement Amount Ordered \$2.50 Mpc Pumptri \$ No. Cements History Amue Sulkink \$ No. Depth Get Amue Sulkink \$ No. Dept	Date 10-12/-19	Date 10-14-19 15 10 20 K		Roc	oks	K5		645An				
Lease Drug age were Well No. 1/5 Contractor Mushin ##8 Type Job D J Tbb  Hole Size 7/8 T.D. 586.5 Size Depth 38.3 Sixee Depth 38.3 Sixee Depth City State Tod D J J Depth City State Tod D J J Depth City State Depth City State The above was done to satisfaction and supervision of owner agent or contractor. Cement Left in Csg. Shoe Joint Cement Amount Ordered \$2.50 Mpc Pumptri \$ No. Cements History Amue Sulkink \$ No. Depth Get Amue Sulkink \$ No. Dept	0	-	_		Location	on Palco	45 ARRO 1/2	E Sinto				
Tipe Job Date	Lease Brue agen	ncen	_ \	Well No. /-/5	_	Owner			20.00			
Common 3	Contractor Mundin #	8 -	10	D Stage	41 43	To Quality Oi	lwell Cementing, Inc.	cementing equipmen	t and furnish			
To Case 5/2 PT Depth 3803 Street  Too. Size Depth City State  Tool Depth Depth City State  Tool Depth Depth City State  The above was done to satisfaction and supervision of owner agent or contractor. Cement Left in Csq. Shoe Joint Cement Amount Ordered 3 Depth Vitable Displace 38.8 Cement Ordered 3 Depth Vitable Displace 39.8 Cement Ordered 3 Depth Vitable Displace 39.8 Cement Ordered 3 Depth Vitable Displace 39.8 Cement Ordered 30.8 Cement Ordered 30.8 Cement Ordered 30.8 Cement Orde	Type Job Du 506				73 _ 04	cementer and	helper to assist own	ner or contractor to do	o work as listed.			
Tog. Size  Depth	Hole Size 77/8	T.E	). <del>-</del>	3805			atterson En	and .				
Tool Differ   Depth   1835   The above was done to satisfaction and supervision of owner agent or contractor.  Cement Left in Csg.   Shoe Joint   Cement Amount Ordered   Store Can   Left in Csg.    Bulking   Depth   Left in Csg.   Common   350 % Q M C    Pumptrix   Store   Store   Store   Common   350 % Q M C    Pumptrix   Store   Common   350 % Q M C    Poz. Mix   Helioper   Helioper    Poz. Mix   Gel.    Poz. Mix   Gel.    Poz. Mix   Helioper   Calcium    Poz. Mix   Helioper   Calcium    Pos. Store   Cal	Csg. 51/2 17	De De	pth	3803		Street		37	4_2			
Cement Left in Csg.  Shoe Joint  Displace 38B4  EQUIPMENT  Common 350 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tbg. Size	De	pth		0.00	City		State				
Meas Line    Displace   SBBC	Tool De Tael	De	pth	1635		The above wa	s done to satisfaction a	nd supervision of owner	agent or contractor.			
Pumptrk No. Common 350 20 Q MDC Pumptrk No. Common 350 20 Q MDC Bulktrk No. Driver Day Gel.  Bulktrk No. Driver Jack Colcium  JOB SERVICES & REMARKS Hulls  Remarks:  Rat Hole 3954  Mouse Hole 1554  Centralizers  Mud CLR 48  Baskets  Driver Port Collar  Port Port Collar  Phys. Larboll & Marchole  Larboll & With 32554  Geide Shoe  Latch Down  Pumptrk Charge Prod String  Float Shoe  Latch Down  Pumptrk Charge Prod String  Tax  Discount	Cement Left in Csg.	Sh	oe Jo	oint	* 8.3	Cement Amo	unt Ordered 3	20 8%20 QMIX	1/4#10			
Pumptrk No. Cementer Bulktrk No. Driver Mark Balktri Salt Flowseal 8 7 A  Kol-Seal  Kol-Seal Centralizers Mud CLR 48  Baskets Baskets DV or Port Collar  Why Rathell o Markhok Handling 350  When to he work a session of the sessio	Meas Line			e 38BC	_	3						
Pumptrik 8   Helper   Poz. Mix   Bulktrik 9   No. Driver   Poz. Mix   Bulktrik 2   No. Driver   Poz. Mix   Bulktrik 2   No. Driver   Poz. Mix   JOB SERVICES & REMARKS   Hulls   Salt   Rat Hole   Sosic   Mouse Hole   Sosic   Mouse Hole   Sosic   Centralizers   Baskets   Diver   Poz. Mix   Diver   Poz. Mix   Mouse Hole   Sosic   Centralizers   Baskets   Diver   Port Collar   Diver   Poz. Mix			T			Common 3	5030 QMD	Ċ				
Bulktrk 1 No. Driver Michael Gel.  JOB SERVICES & REMARKS Hulls  Remarks:  Rat Hole 35%  Mouse Hole 155%  Centralizers  Baskets  DV or Port Collar  Phys. Rathole 3 140%  Mileage  FLOAT EQUIPMENT  Guide Shoe  Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String  Mileage  Mileage 37  Tax  Discount	Pumptrk / R Helper	1	5_			Poz. Mix			ä,			
Bulktrik Al Driver Land Calcium  JOB SERVICES & REMARKS  Hulls  Remarks:  Rat Hole 35%  Mouse Hole 155%  Centralizers  Mud CLR 48  Baskets  DN or Port Collar  Handling 350  Henry Structure Guide Shoe  Play landel 14xx*  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod Strung  Tax  Discount	Bulktrk / Driver	Mari d				Gel.	a = * ±	(G) (g)	* *			
Remarks:  Rat Hole 3954  Mouse Hole 1554  Kol-Seal  Kol-Seal  Centralizers  Baskets  DIN or Port Collar  Handling 380  Liment 512 with 32554  Mileage  Plus land of 14654  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Proof String  Tax  Discount		Lance			7.1	Calcium						
Flowseal 87 P  Mouse Hole 153 R  Kol-Seal  Kol-Seal  Centralizers  Baskets  D/V or Port Collar  Phys Larbek & Maschok  Ement 5/2 with 3255K  Mileage  FLOAT EQUIPMENT  Guide Shoe  Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge prod String  Tax  Discount	JOB SEF	RVICES & R	EMAI	RKS	*	Hulls			-			
Mouse Hole 155R  Centralizers  Baskets  DN or Port Collar  Phys Ratholl & Musebok  India 15 2 with 3255K  Guide Shoe  Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String  Mileage  Mileage 37  Tax  Discount	Remarks:	N° W		1.2		Salt						
Mud CLR 48  Baskets  CFL-117 or CD110 CAF 38  DN or Port Collar  Sand  Handling 350  Ement 5/2 with 3255K  Mileage  FLOAT EQUIPMENT  Guide Shoe  Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String  Mileage 37  Tax  Discount	Rat Hole 39814	1 8	02.5	_ 11 11		Flowseal 87 #						
Baskets  DN or Port Collar  Phys. Rathole & Maschole  Ement 5 /2 upith 3255K  Mileage  FLOAT EQUIPMENT  Guide Shoe  Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String  Mileage 37  Tax  Discount	Mouse Hole 1534			in the		Kol-Seal						
DN or Port Collar  Sand  Handling, 350  Hench 5/2 with 32556  Mileage  FLOAT EQUIPMENT  Guide Shoe  Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String 35 age  Mileage 37  Tax  Discount	Centralizers					Mud CLR 48						
Phys Retables Marsebok  I ment 5/2 with 3255K  Mileage  FLOAT EQUIPMENT  Guide Shoe  Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String  Tax  Discount	Baskets	F				CFL-117 or CD110 CAF 38						
Mileage  FLOAT EQUIPMENT  Guide Shoe  Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String  Mileage 37  Tax  Discount	D/V or Port Collar					Sand	gr sta	9 2				
FLOAT EQUIPMENT  Guide Shoe  Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String Stage  Mileage 37  Tax  Discount	The Rotholes	Marsch	ok			Handling,35	So					
Centralizer  Plug landed 14004  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String Stage  Mileage 37  Tax  Discount	Cement 5/2	with	3	253K-		Mileage			¥ =			
Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String Stage  Mileage 3.7  Tax  Discount	Displace Ple	49					FLOAT EQUIPMI	ENT				
Centralizer  Baskets  AFU Inserts  Float Shoe  Latch Down  Pumptrk Charge Prod String Stage  Mileage 3.7  Tax  Discount	Climent Ci	rivlat	ec	51,		Guide Shoe						
AFU Inserts Float Shoe Latch Down  Pumptrk Charge Proof String Stage Mileage 37  Tax Discount	D: 1			197		Centralizer	8 8					
AFU Inserts Float Shoe Latch Down  Pumptrk Charge Proof String Stage Mileage 37  Tax Discount	Phog lande	0 14	0°#	5		Baskets	B B B					
Latch Down  Pumptrk Charge Proof String Stage  Mileage 37  Tax  Discount	J				.101	AFU Inserts	a Y =					
Pumptrk Charge Prod String Stage Mileage 37  Tax Discount						Float Shoe						
Mileage 37  Tax  Discount					a.	Latch Down	v	1 · · · · · · · · · · · · · · · · · · ·				
Mileage 37  Tax  Discount												
Mileage 37  Tax  Discount	V.	20 30	<sup>2</sup> qās					To	0			
Tax Discount						Pumptrk Char	rge Provide St	Fring 5th	ieac			
Tax Discount					11							
	24			18			· ·	Tax				
Signature A Du Total Charge								Discount				
	X Signature	Du	1.00	14				Total Charge				

Marc A. Downing	Geologic R	eport	Drilling Contractor  Commenced  10-8-19  Completed  10-13-19  Samples Saved From  3200  To  RTD			ww.grsi.ca)	to fit
Consulting Petroleum Geologist	Drilling Time and		Drilling Time Kept From 3100 To RTD Samples Examined From 3200 To RTD Geological Supervision From 3200 To RTD			sion 4.0.8.15 (v	OD State of the st
Operator Patterson End	ergy	Elevation KB 2185				og ver	
Lease Brueggeman	No. <b>1-15</b>	DF <b>2184</b> GL <b>2180</b>				Striple	why scale of the strong of the
API# 15-163-24401-00	000	Casing Record				rip VC	or see that the property of the set of the property of the pro
Field Marcotte		8 5/8" @ 240'	Summary and Recommendations			GEOSI	
Location 1605' FNL &	1800' FWL	5 1/2" @ 3804' Electrical Surveys	Due to structural position, sample evaluation, and log evaluation, it was decided to set 5 1/2" production casing for completion.			rinted by scriptions	12245)  Try, md xin and dns  Try, md xin and hore  Try, frod. Try  Try, frod. Try  Try, md xin and hore  Try, frod. Try  Try  Try  Try  Try  Try  Try  Try
Sec. 15 Twp. 1	10s Rge. 20w	CNDL, DIL	Decommended newforestions		ဟု	Cal Des	Sin by sin but while the bor, so and shift in part is start while the bor, so and shift in part is start while the bor, so and shift in part is start while the bor, so and shift in part is so and shift in part is so and shift in part is so and shift in part in p
County Rooks S	State Kansas	MEL	Recommended perforations: Arbuckle: 3725-28 (First, squeeze if wet)	red Sh	MBOI	Seologi	as at a sign and a sign and a sign as a sign a
Formation Sample	e tops Log Tops	Datum Struct Comp	3718-21 LKC K: 3631-34	Shale			
Top Anhydrite Base Anhydrite	1629 1668	+556 +9 +517 +8	J: 3615-19 I: 3598-3601	ROC	OTHEI  T SST Int SST alt Sore		wht, fin-wfn with with with with with with with with
Topeka 3202	2 3198	-1013 -1			Solution Signature in the second seco		I Sho of the Short
Heebner 3406	6 3402 0 3426	-1217 FL -1241 -2		gany	υ	aword liO	
Toronto         3430           LKC         3443           BKC         3658	3 3440	-1255 +2 -1469 +4		shale,	Report Photo nent ntal Log File .og File	Гі́фоюду	
Arbuckle 3721	1 3717	-1532 +2			Daily F Digital Digital Clink Horizo Core L Core II	DST	
Total Depth 3805	5 3805	-1620				slavietval Depth   Intervals	$\begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 $
			Respectfully Submitted,	fim - fw7>	%% %%		
			The state of the s	Dolp	50 - 74 125 - 56 11 - 25 - 56 11 - 25 10 - 74	rack #	
			Marc A. Downing	ie RAL	SHOWS	Curve 7	
Reference Well For Structural Cor Brueggeman #9, NE SW NW, Sec. 15-		Co.		MINE	OIL SHO  Even Str  Spotted O Spotted O Spotted O Spotted O Dead Oil  Fluoresc	ROP (r Gamm Cal (in)	