KOLAR Document ID: 1371656

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:	SecTwpS. R East
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	NE □NW □SE □SW
CONTRACTOR: License #	
Name:	
Wellsite Geologist:	
Purchaser:	
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
□ Deepening □ Re-perf. □ Conv. to EOR □ Conv. to S □ Plug Back □ Liner □ Conv. to GSW □ Conv. to F	Drining Fluid Management Fluir
	Chloride content:ppm Fluid volume:bbls
□ Commingled Permit #: □ Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	
EOR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date 6	QuarterSec TwpS. R East West
Recompletion Date Recompletion Date Recompletion Date	

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:

KOLAR Document ID: 1371656

Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether 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	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	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					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	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:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
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	Δ+-	Packer At:				
TODING RECORD:	. 3126.		n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	PARIS 2-7
Doc ID	1371656

Tops

Name	Тор	Datum
Anhydrite	2134	+666
B Anhydrite	2165	+635
Heebner Sh	3962	-1162
Lansing	4004	-1204
Stark Sh	4385	-1485
Pawnee	4487	-1687
Ft Scott	4537	-1737
Cherokee Sh	4563	-1763

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	PARIS 2-7
Doc ID	1371656

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	266	Class A	165	2% gel, 3% CC, 1/4#/sk flocele
Production	7.875	4.5	11.6	4672	EA-2	150	7#/sk gilsoniate, 1/4#/sk flocele



CHARGE TO:	LARDON Enginoceing
ADDRESS	0 0
CITY, STATE, 2	ZIP CODE

TICKET 30554

Seri	rices,	Inc.	Ī	ITY, STATE,	ZIP CC	DE								PA	3E 1	OF 1	
SERVICE LOCATIONS 1. HEND CA	y KS	WELLIPROJECT	10. 2-7		ASE	Paris	COUNTY/PARISH LAKE		ATE KS	Digh	ton		1-	TE 7' JUL 1	ow	NER	
2.		SERVICE SALES	CONTRACT			SOUTHWIND	RIG NAME/NO.		IPPED	DELIVERED TO	acat.	m		RDER NO.		· · · · · · · · · · · · · · · · · · ·	
4. REFERRAL LOCATION		WELL TYPE	OI/			1 1 1	ment Sireface	7ìpe		WELL PERMIT	NO.		WE	ELL LOCATION 7 -	19	- 28	
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5765			1			Pump Char	ge				eg			800	20	800	po
325			1		<u> </u>	5-tayland	coment		\Box	165	sk			12	125	2021	25
279			+		<u> </u>	Bontonite	gel		_	300	16	3	<u>sk</u>	25	00	75	00
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290			+;		_	Tocala	<u> </u>			<u>251</u> 21	-				F3 8		25
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START OF WORK OR DE	LIVERY OF GOOD	S	IOR IO			P.O. BC	X 466	WE OPERAT	TED TH DRMED ONS	E EQUIPMENT JOB	†			1.50		ברו	170
X DATE SIGNED	- I	TIME SIGNED		A.M.	-	NESS CITY,		ARE YOU'S		D WITH OUR S		NO NO	L	1-21	וע	110	<u> </u>
<u></u>				□ P.M. yX30	_	785-798				OMER DID NOT	WISH TO	RESPOND		TOTAL		3821	16
SWIFT OPERATOR		CUSTOM	ER ACCE		OF MA PROVA	TERIALS AND SERVICES	The customer hereby acknowledge	owledges receip	of the	e materials and	services	listed on th	is ticket.			Thank ?	Youl
<u> </u>				<i>₩₩</i>												IIIIIIK I	<u>w:</u>

PAGE,NO. JOB TYPE, TICKET NO. 30554

DESCRIPTION OF OPERATOR SWIFT Services, Inc. JOB LOG TOMER Engineering CUSTOMER WELL NO. PARIS PUMPS PRESSURE (PSI) VOLUME TIME TUBING CASING 165 sk Standard 2% gel 3% CC/4 floods 6 joints 85 x 20# casing 264 TD=265" onloc Tex 114 0130 stat 8 gr 20th casing in well 0210 circulate well 0258 mix STD 2%3% 165 \$ 14.7 pgg 0310 0330 0340 RACZ up jubraiplite 0420

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SERVICE LOCATIONS 1.	CFL	WELL/PROJECT N	0.	LEASE		COUNTY/PARISH	STATE	CITY D	<u>~]</u>	<u> </u>		TE		NER	
,	0 -	TICKET TYPE TO	ONTRACTO	<u> </u>		LAVE_	KS		7.	on_		14 Jul 1	<u>7L</u>		
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283			11		500/-			1000	77		 ^_		 		1 —
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x A					NESS CITY,	KS 67560	SATISFACTORILY ARE YOU SATISFI	?			L	lane 20		464	<u>51</u>
DATE SIGNED		TIME SIGNED		A.M.	785-79		AND TOU SATISFI	YES		NO				,	
				e(L1)	100-13	0-2300	TI CHS	TOMER DID NOT	T WISH T	DESDOND		TOTAL		00K	154

785-79

Thank You! -

CUSTOMER DID NOT WISH TO RESPOND

SWIFT OPERATOR

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DESCRIPTION OF OPERATION AND MATERIALS OFFICE OFFICE OFFICE OF THIS CASH OF CASH OFFICE STRUCK OF OPERATION AND MATERIALS OFFICE OFFI	STOME	R Noom S.	nimou	WELL NO.		LEASE		JOB TYPE CEMENT IN STEIN TICKET NO. 30558
1000 6 2007/ 1000 0000 00000 00000 00000 00000 00000 0000	HART		RATE O	l volume l	PUMPS	PRESSU		DESCRIPTION OF OPERATION AND MATERIALS
924 1/2 1/4	NO.		(8PM)	(BBL) (GAL)	T C			
on be TPX 114 080 CIRCUBTE - Chop ball - ROTATE DADO 5 15 200 Punp 15 tol KCI flush 5 12 200 Punp 5 tol KCI flush 5 5 Plug Fth - MH 202 - 202 Drop 14th down plug Wash out punps line 1003 Plug And plug Lease pressure to think - dried 1009 RACK up 1040 Job couplate TCL								2005k EAL comet w/ 6. Koute & Hocele
on to TPX 114 080 CIRCULTE - drop ball · ROTATE DATE DAT								45x 11.6# 114jts 467391 shrest 41.95
CIRCUlate - drop ball - ROTATE DADO 5 15 200 Fun 15 bbl KCI flush 5 12 200 Fun Freek 500 KCI flush 5 5 200 Ping 5 bbl KCI flush spacer Plug RH - MH 200 - 200 Mix EA 2 cement 2500 € 15.3 gg Drop 1 Atch down plug Wash out pungs line 0933 6 56 200 1000 6 2007/ 1003 Rulease pressure to third - direct 1009 Rack up 040 Job couplate Rack up								PC 2092'
CIRCUlate - drop ball - ROTATE DADO 5 15 200 Fun 15 bbl KCI flush 5 12 200 Fun Freek 500 KCI flush 5 5 200 Ping 5 bbl KCI flush spacer Plug RH - MH 200 - 200 Mix EA 2 cement 2500 € 15.3 gg Drop 1 Atch down plug Wash out pungs line 0933 6 56 200 1000 6 2007/ 1003 Rulease pressure to third - direct 1009 Rack up 040 Job couplate Rack up								
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200 Fun 151011 KCL flush 5 12 200 Punp F Keck 50001 5 5 7 200 Punp 5 bis KCL flush spaces 7 Plug RH-MH 202 - 205 200 Mix EA 2 coment 2500 € 15.3 pc 201 Stan out pung line 202 Displace plug 203 Land plug 204 Land plug 205 Land plug 206 Reck up 207 Displace pressure to third divided 207 Reck up 208 Displace pressure to third divided 209 Reck up 200 Displace pressure to third divided 200 Displace plug 200 Displace p		0745						onloc TRX 114
200 Fun 1566 RCL flush 5 12 200 Pun 1566 RCL flush 5 12 200 Pun Freek 500 RCL flush spacer 7 Plug RH-MH 200 - 200 BAN 42 40 200 Mix EA-2 cement 2500 @ 15.3 pm SAH Drop latch down plug Wash out pungs line 0928 6 56 200 1000 6 2007/ Page Land plug 1003 Rulease pressure to third-dried 1009 Rack up Pack up O40 jdb couplate		0800		, ,				Circulate - drop ball - ROTATE
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Phy RH-MH 202 - 208 10915 42 40 200 Mix EA-2 cement 2500 € 15.3 pm Drop / Atch down play wash out purps line 1000 6 1000		2400	5	15			200	Puro 15/06/ KCL fleele
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1009 Release pressure to trick - dried Rack up job auglise 1040		1000		4900	2/		المصدا	
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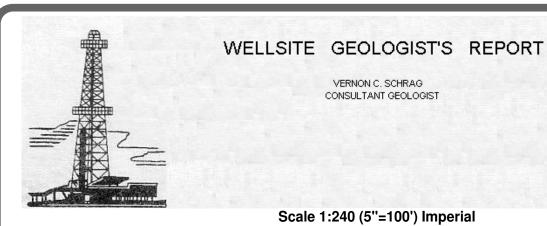
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Services, Inc.					ZIP CO	PCODE									PAC	OF L	F 1	
SERVICE LOCATIONS 1. PESS	City 115	WELUPROJECT N TICKET TYPE C	7		\SE C	aris		COUNTY/PARISH		STATE		ton			7-20-17	low	NER Seine	
3.		SERVICE SALES WELL TYPE	Frit	zler]	IT LEZ LL CAT	Ling	JOB PURF	RIG NAME/NO.		SHIPPEI VIA CT		ውነ.			RDER NO.			
4. REFERRAL LOCATION		INVOICE INSTRUC	TIONS	1	<u>)eve</u>	elopment		ment 4%	" Por	+ Collar	THE COMM		-	<u> </u>	Dighton -	4	125, E/N) into
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but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.					WE UNDERSTO MET YOUR NEI				WE UNDERSTOO MET YOUR NEED	D AND IS?				10%		-664	190	
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO				-						THOUT DELAY?				30	_	5984	110	
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DATE SIGNED -20-	17	TIME SIGNED	<u> </u>	A.M. E-r.m.]		5-798-		,0	ARE YOU SATISI	FIED WITH OUR YES	SERVICE	? □ NO		TOTAL		/ nni/	

David Kuchr

CUSTOMER DID NOT WISH TO RESPOND

Thank You!

B LO			WELL NO.			LEASE PRESSU	1 000	JOB TYPE	7-20-17 1					
Larson Engineering			*)	-7		Pa	v iS	Port Coller	TICKET NO. # 30707					
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUN					RATION AND MATERIALS					
	000	(OFW)	(BBL) (GAL)	'	С	TUBING	CASING	on location	23/6 * 41/3					
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								P.C 2092'						
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								Open P.C.						
i					_			·						
	0430	3	5	/		300		Injection Rule						
	0940	31/2	147			400		mix 265 sks SMC Circulate cement t) w/ /4* Flo @ 11.2.					
		·						circulate cement t	o Surface					
	1015	3	7½	1		450		Displace Coment						
]		-			Close P.C.	· · · · · · · · · · · · · · · · · · ·					
					,									
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								wash up truck						
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	1115						,	Job Complete						
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								72	Preston Isacc					
								- Vave	Moston Lauc					





Location: SE SW NW NW SEC. 07-19S-28W Region: Lane Co., KS Drilling Completed: July 13, 2017

Licence Number: API: 15-101-22595
Spud Date: July 06, 2017
Surface Coordinates: 1180' FNL & 619' FWL **Bottom Hole**

Coordinates:

Well Name: PARIS #2-7

Coordinates:
Ground Elevation (ft): 2790' K.B. Elevation (ft): 2800
Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4675'
Formation: Mississippi Dolomite
Type of Drilling Fluid: Chemical Premix (Displaced)
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

Type of Drilling Fluid: Chemical Premix (Displaced) Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com													
OPERATOR: Company: Larson Engineering Inc. Address: 562 West State Road 4 Olmitz, KS 67564-8561													
DRILLING CONTRACTOR: Southwind Drilling Co., Rig #8 DP 4.5" XH (16.6#); DC 6-1/4" x 2-3/8", 495.88, Kelly 41.00', Tool Joint 5.5"; Bit: Reed R22AP, 7-7/8", standard jets 14-14-14; rpm 85, WOB 35k; Kelly Bushing 10' above ground level; Bill Sanders (tool pusher), Doug Roberts (daylight driller).													
CASING: Ran 6 jts new 8-5/8" 20# R3 STC 8rd csg. Tallied 253', set @ 266' KB. Ran 114 jts new API Tenaris N-80 R3 LTC 8rd csg. Tallied 4673.91', set @ 4672' KB.													
CIRCULATION SYSTEM:													
Continental EMSCO D-375, duplex, 6 x 14, 58 spm, Chemical, premix, earth pits, MudCo/Service Mud, Inc., Jason Whiting OPEN HOLE LOGS:													
OPEN HOLE LOGS: DN, DI (SP), ML (stacked tools); No Sonic; 5" detail LTD-3600; 2" DI to suface casing; Pioneer Wireline, Hays, KS, LTD 4673', RTD 4675'.													
None. ROP Total Gas													
ROP ROP (min/ft) ——— Five ——— Ten ———	Lithology Perosity and Show	ų.	Geological Descriptions	F	G (un ifty ne	nits)	To	otal	Gas	i	<u>-</u>		- -
	Lithc	Depth		0				Hot-V	Vire				100
START DIGITAL ROP 8:34 am, 07/11													
0 ROP 15		3800		0				Hot-V	Vire				100
			LS: grayish brown; vf-xtal; chalky, argill.; poor apparent porosity; N.S.										
	8	3850	LS: It gray; mic-vf xtal; chalky; rough textured; poor apparent porosity; N.S. LS: grayish brown; vf-xtal; sli. fos-frag.; poor										
			porosity; N.S.										
			LS: grayish brown; vf-xtal; dense in part; includes sli fos, opaq. chert; no visible porosity, N.S.										
	Ø	3900	LS: grayish brown; mic-vf xtal; chalky; sli fos-frag; poor vugular & int frag. porosity; N.S.										
	Ø		LS: grayish brown vf-xtal; dense; no visible porosity; N.S.										
			LS: grayish brown; mic-vf xtal; chalky in part; sli pyritic; poor apparent porosity; N.S.										
		3950	LS: grayish brown; vf-xtal; dk brown shaley streaks; poor porosity; N.S.										
HEEBNER			HEEBNER SH 3962 (-1162) (Corrected Top) Shale: black; carbonaceous; few chips 3980. Shale: green, gray; silty in part; weak expression										
TORONTO	F		3990. LS: white; mic-vf xtal; dense with chalky portions; minor opaq. chert; dull mineral fluor.; no visible porosity; N.S.; 4000, incr 4010.										
		4000	LS: as above. LS: white, It gray; vf-xtal; dense; no visible porosity; N.S.										
0 ROP 15 LANSING	0	40	Shale: green, grays LANSING 4004 (-1204) LS: It brown; vf-xtal; dense; med. oolitic in part; tight int-ool porosity at best; dull fluor.; N.S.; 4030.					Hot-V	vire				100
			LS: It brown to gray; mic-vf xtal; sli. chalky; much opaq. chert; no visible porosity; N.S.										
4—B-zone	Ø		Shale: v-dk gray to black; fissile; trace 4050. LS: dk-gray; dense; indistinct; Shale: greenish-gray; silty; LS: It brown; vf-xtal; trace oolitic; sli. chalky; poor										
3		4050	apparent porosity; N.S. LS: It-md brown; vf-xtal; scattered dk-gray pellets; sli. cherty; chalky in part; no visible porosity; N.S.; 4070.										
			LS: even It-md brown; mic-vf xtal; sli chalky & cherty; no visible porosity; N.S.										
			LS: grayish brown; vf-xtal; shaley; no visible porosity; N.S. Shale: gray, dk gray;										
E-zone	•	4100	LS: It brown; vf-xtal; dense, platey; trace fine drusy vug porosity on plate edges; dull fluor.; spotted dk brown oil stain; 1-2 chips/tray; 4110.										
			LS: It brown; mic-vf xtal; scattered vug porosity; dull fluor.; N.S.										
G-zone			LS: It brown; vf-xtal; fine to med. oolitic & oomoldic porosity; dull fluor.; N.S. 4150 LS: It brown; vf-xtal; dense; sli oolitic in part; poor										
		4150	oomoldic porosity; N.S. LS: as above, w/soft chalky portions; N.S.										
			LS: It-md grayish brown; mic-vf xtal; dense, platey; no visible porosity; N.S.										
MUNCIE			MUNCIE CREEK 4184 (-1384)										
WORCE		0	Shale: black; carbonaceous; few chips 4200. LS: md-dk grayish brown; vf-xtal; sli. fos-frag; dense; no visible porosity; N.S., 4210. Shale: green. LS: It brown; vf-xtal; sli. oolitic & granular in part;										
0 ROP 15		4200	scattered vug porosity; dull mineral fluor.; N.S. LS: as above, more chalky; N.S.	0				Hot-V	Vire				100
			Shale: black; 4230, 4240. LS: md-dk brown; vf-xtal; dense, platey; no visible porosity; N.S., 4240.										
			LS: dk brown; vf-xtal; trace vug porosity w/spotted dk wet stain; no visible oil; poor dry staind; 4240. LS: lt grayish brown; vf-xtal; trace fine vug porosity, w/speckled wet stain, no visible oil, poor dry spotted										
J-zone	•	4250	stains; 4250. LS: It grayish brown; vf-xtal; coarse oom por., trace w/spotted stain; dull fluor., > 99% barren; no										
	0 1		visible oil; floods 4290; not improved dry. LS: as above. LS: It gray; mic-vf xtal; chalky in part; no apparent										
4—STARK			porosity; N.S. STARK SH 4385 (-1485) Shale: black; carbonaceous; 4310. LS: dk grayish brown; vf-xtal; dense; N.S.										
K-zone	•	4300	LS: It gray; vf-xtal; fair int granular & drusy vug porosity; spotted wet & dry stains; no visible oil; scattered soft brightly fluor. chalk; few chips, 4300, 4310-30m, trc oomoldic por. w/spotted stain 4320.										
4310			LS: It gray; mic-vf xtal; dense to chalky in part; no visible porosity; N.S. HUSHPUCKNEY 4323 (-1523)			RIP 20 S	STAND	S AT	4310.	CIRC	30 MIN	N -	
HUSH	•		Shale: black; carbon.; few chips 4340, 4350. LS: dk brown; vf-xtal; dense; trace vug por. w/subhedral calcites; spotted to sat. stain; no visible oil; 4350. LS: It brown; vf-xtal; blocky; rough textured; trace										
		4350	fine vug porosity w/lt stain; dull fluor.; no visible oil; looks tight; 4360. I.S: It gravish brown: mic-vf xtal; dense; sli chalky in										
■ BKC			LS: It grayish brown; mic-vf xtal; dense; sli chalky in part; minor semi-tran. chert; no visible porosity; N.S. LS: as above.										
			LS: md-dk grayish brown; vf-xtal; dense; no visible porosity; N.S. LS: It-md grayish brown; vf-xtal; sli fos; dense; no visible porosity; N.S.										
	•	ı	Shale: green, gray; sli. silty in part; LS: It-md grayish brown; vf-xtal; trace drusy vug porosity w/black spotted stain; no visible oil; dry										
0 ROP 15		4400	stain is poor; 4420. Shale: green; calcareous; maroon mottled;	0				Hot-V	Vire				100
			LS: It brown; mic-vf xtal; dense to chalky in part; no visible porosity; N.S. Shale: grays, greenish in part; silty; somewhat calcareous;										
			Shale: calcareous; as above.										
—ALT		4450	LS: It brown; vf-xtal; dense to sli chalky in part; no visible porosity; N.S. LS: It brown; vf-xtal; mixed w/much gray shale; N.S.										
			LS: It brown; vf-xtal; dense; sli chalky in part; pyritic; no visible porosity; N.S.										
PAW			LS: It grayish brown; vf-xtal; dense; includes minor orange-tinted, translucent cherts; no visible porosity; N.S.; 4490. PAWNEE 4487 (-1687)										
		4500	LS: It brown; vf-xtal; minor opaq. cherts; sli. chalky in part; no visble porosity; N.S. LS: It brown to md grayish brown; vf-xtal; dense; no visible poroisty; N.S.										
→ MYRICK			Shale: black; few chips 4520, incr 4530. LS: dk brown; vf-xtal; dense; N.S. Shale: gray, greenish gray, trace maroon;										
FT. SC.			LS: It brown; mic-vf xtal; chalky in part; platey; poor fine vug porosity; dull fluor., N.S. Shale: black; 4550, 4560. FT SCOTT 4537 (-1737)										
		4550	FT. SCOTT 4537 (-1737) LS: dk brown; vf-xtal; grain suptd med - coarse oolite in part; dense; no visible por.; N.S.										
+-CHER		4	LS: dk brown; vf-xtal; dense; oolitic; no visible porosity; N.S. CHER SHALE 4563 (-1763) Shale: black; LS: It brown to grayish brown; mic-vf xtal; dense to										
			LS: It brown to grayish brown; mic-vr xtar; dense to chalky in part; platey; no visible porosity; N.S. LS: as above.										
			LS: It-md grayish brown; vf-xtal; dense; platey; no visible porosity; N.S., w/greenish to gray shales; LS: It grayish brown; vf-xtal; dense; platey; no visible porosity: N.S.										

LS: It grayish brown; vf-xtal; dense; platey; no visible porosity; N.S.

LS: It grayish brown; vf-xtal; trace int fos-frag porosity w/dk brown stain; dull fluor., no visible oil; 1-2 chips 4620, 4630.

Shale: It green, gray, trace yellow; silty in part; 4530, incr 4640.

Conglomerate: various shale & cherts; w/ white &

Dol: calcitic; brown; vf-f xtal; tight int xtal porosity; N.S.

Dol: md brown; f-m xtal; fair int xtal & scattered fine vug porosity; N.S.

Shale: as above; w/incr green silty shale;

LS: It-md brown; vf-xtal; dense; N.S.

ROTARY TOTAL DEPTH 4675 (-1875)

green siltstones; N.S.

-SPERGEN_

-RTD 2:09 pm -07/13/2017Hot-Wire

TRIP OUT 16 STANDS, PUMP GASKET REPAIRS, T.I.H., -CIRC. 90 MIN, TRIP OUT FOR LOGS.

-BOARD: 4701.33--STRAP: 4699.88--SHORT: 2.05'-

PIONEER LTD 4673'

100