KOLAR Document ID: 1474133

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:	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.xxxxxx) (e.gxxx.xxxxxx)
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)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
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: 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 #:	Location of hald disposal in hadica offsite.
GSW Permit #:	Operator Name:
_	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. 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:

KOLAR Document ID: 1474133

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.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	STEINLE 2
Doc ID	1474133

All Electric Logs Run

Density Neutron	
Cement Bond	
Micro	
Dual Induction	

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	STEINLE 2
Doc ID	1474133

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Production	7.88	5.5	15.50	3191	common	180	10% salt, 5% gilsonite, 500 gal mud clear
Surface	12.25	8.88	20	412	60/40 POS	190	4% cc, 2% gel

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

Phone 785-483-2025 Cell 785-324-1041

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

No. 1286

Date 5-14-19	7	wp.	Range	1	County Se/1	KS	е	On Location	Finish 1.5 Am
<i>-</i> ,	<u> </u>				on Bunke	11/11	-35 +	4 Corneis	Rd IF YU
Lease Steinle		Well	No. 2		Owner W/		00 (0	· corres	10112
Contractor Southwi	od #3	5	"1134	101240	To Quality Oil	vell Cemer	nting, Inc.	Çer substrad k. 1	
Type Job Surface				UP TI AN	cementer and	y requeste helper to a	d to rent ce assist owner	menting equipmen or contractor to de	t and turnish o work as listed.
Hole Size 121/4"	T.C). 10 14 14 1	412'	enthag s	Charge 1	DF	× ploca	+600	PAGENA-
Csg. 85/811	De	pth	412'		Street		771000	1.80	
Tbg. Size	De	pth	The same of the		City			State	To MIN to
Tool	De	pth	d lane vit	1 12 1 1 2 1		done to sati		supervision of owner	agent or contractor.
Cement Left in Csg.	Sh	oe Joint	15'		Cement Amou		190 60	1 4151	27,64
Meas Line		place	25	BUS		CECLE SA			
	EQUIPMEN	A second	que ecolo	iron.	Common	2 1994	y	61898 A. E. 12 01	cotopa galling
Pumptrk No. Cemen Helper	Jone	P.	C116615 018		Poz. Mix				GACTORY VIII
Bulktrk 14 No. Driver	Jack	18 1 1			Gel.	AUD +1	(3)407	per malana,	o to molior to lace
Bulktrk O.W. No. Driver	Rick	(17/8) 18		and to es	Calcium	794	3410 A 381	U RESOVER SEAR	
JOB SER	RVICES & R	EMARKS	tine visus	44 04 11	Hulls		11.38381.1	Aetto Juno.	1/R38=3
Remarks: Cement	did	C	icculo	de	Salt	your.	ac en aliva		Treated Agent on
Rat Hole	683	- Halisa	De fale mo	il sooke	Flowseal		LA	JO keed	
Mouse Hole			~~~		Kol-Seal		2.794		
Centralizers	A Henry A.			12162 1116	Mud CLR 48		and the state of	PAR RESERVED SERVED SEV	Maria de la compania del compania del compania de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania de la compania del compa
Baskets	rethe agent	ab to aa	al viovies :	r Acces	CFL-117 or CI	D110 CAF	38	sontiae nobision	h-10 (B)
D/V or Port Collar					Sand				and the second of the
or communication is a second				191111111	Handling				. 75 %
					Mileage				tood mole Guille The
					,	FLOAT	EQUIPMEN	П	on entry (1)A(x)
					Guide Shoe				7.1.2
					Centralizer		and the second	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
				MINITED IN	Baskets				
combination ex. 17 (e	1000			101 (2011)	AFU Inserts	10 100 0	MIT NO	Market Market Control	Control of Control
					Float Shoe	<u> </u>			- 10 yo bears
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		s la gama	menno io	V281(5)	Mileage	w s as beu	nienco e		pricholi (E)
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V		and the same	¥ 1116.11		Section 1		as min as	Discount	
X Signature	y 5	57700000	d was by	(), go (4)	salar : umco			Total Charge	Takb on the on

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

Phone 785-483-2025 Cell 785-324-1041

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

No. 1436

Sec. 30	Twp.	Range	0	County	State	On Location	Finish
54979 JO	17	12	KV5.		183	13 15	10egin
Lease Steinle	I v	Vell No. 2	Location	Owner	hill S 4 Gr		
Type Job Production Synne			VIEWS	You are here cementer ar	eby requested to ren	t cementing equipment wher or contractor to c	nt and furnish lo work as listed.
Hole Size	T.D. 3	210	.8=01156 8	Charge To	HOD BON	bration	F. 61 (3 3,0
Csg. 5/2 15.50	Depth_3	320.2	1 - 0.7 -	Street	177		P & St. St. Wite
Tbg. Size	Depth	W. H. 12 8	7.411	City		State	
Tool	Depth	, , ,	16/3 te 165	The above wa	as done to satisfaction	and supervision of owne	r agent or contractor.
Cement Left in Csg. 42.15	Shoe Jo	int 42.15			ount Ordered 188	ONTO 1 Salt 5	1. Cilsonite
Meas Line	Displace	75%	BL	500ga	I mud der		CMANARCH
EQUIPM	ENT	allogia od šir	o ras janus. Vitestrasis	Common /	80		
Pumptrk Helper	5			Poz. Mix	R MOTA	iD eo blas pas - 5:	general ed the
Bulktrk No. Driver Daw.				Gel.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Bulktrk 4 No. Driver Driver	R			Calcium		A CHARGES FRE	
JOB SERVICES	& REMAR	KS		Hulls			
Remarks: 12 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19			Ouvilo,	Salt 15	JA JOHN WALL SPACE	BK 1559 (AMONE SITE OF LETT.)	Sharra yeam us
Rat Hole 3051C	1 (6,75, 78) •	6 / S COSTO		Flowseal		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CITIES SOCIETA
Mouse Hole				Kol-Seal	00#	A second	
Centralizers	, M. 1. P. 1	Y; VAS VOIR		Mud CLR 48		6	ips to draw
Baskets	ASO PEL IN	and wings	ee Nave e	CFL-117 or	CD110 CAF 38	poliusion suffect of	RQA 80 (8)
D/V or Port Collar			en riam.	Sand		in a series	and to to also get
5125et 0 3202 }	affele	3159	86	Handling 7/	03	140 % ven en 178	
Est. Cinicilation Pul	AD 502	end not	e leas	Mileage	FEMALUS ESCU		o of consultries
10 BL Spare. Plus K	athele	30 sk		3.11	FLOAT EQUIPN	IENT	MED SHOW THE LAND
Cement 5/2 with	150	L Ola	<u></u>	Guide Shoe		, v	
lives a Displace D	his.			Centralizer .	3	a sea seafeen to move on	at the contract of
fre lange a Isant	Hr)v	1 for 15	men -	Baskets 5	2		STATE AND REFE
Kereje Prossue D	J.		THE LEGICAL VALUE OF THE PARTY	AFU Inserts			
Lift Dressure Zoot		B 41 144	7 (0)	Float Shoe	10 1 7. 7.4		124,40 pt 6000m
The state of the s				Latch Down		THE REPORT OF THE PARTY OF THE	
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		0 8 8 10	1. 70	Pumptrk Cha	arge Ora-Q	Steine	perdoor (A)
				Mileage /	5	J	VI IS SURED WHEN
econtrality is a management	n to done	esen ic alse		ALCONOMIC PROPERTY.	set trater readings,	to most regard Tax	. w YTHAUO va
of an exercise of the second or seco	o eg mgi	or gross negl		per hours on	ness is caused by the	Discount	
Signature Jun Muss	messaco	habita en be	Neg general	BANKA (C. C. J. A. Marian	pod like a IT 14 161 so	Total Charge	

H & D Exploration, LLC

Well Name: Steinle #2 GL Elevation: 1668' Location: 1830' FNL & 770' FEL KB: 1677' Section: 30-14S-12W Est. TD: 3300' County: Russell

Rig No. 3 Pusher (Jay Krier) 620-617-4477 Rig No. 3 (Doghouse) 620-566-7014 Southwind Drilling Office 620-564-3800

Conductor String: N/A API: 15-167-24092-00-00

Surface Casing: Ran 9 joints of new 20#, 8 5/8" casing, Tally @ 401.59', Set @ 412', used 190 sacks of 60/40 poz, 4% cc, 2% gel, cement circulated, by Quality (Ticket #1286), plug down @ 1:15 am on 05.14.19.

Production Info: Ran 76 joints of used 15.5#, 5 1/2" casing, Tally @ 3200.57', Set @ 3191', used 180 sacks of common, 10% salt, 5% gilsonite, 500 gal mud-clear, 30 sacks rat hole, cemented by Quality (Ticket #1436), job complete @ 10:00 pm on 05.19.19.

Rotary Total Depth: 3210'

W/V								tal Depth:					G	eoloaist:	Jim	Musgrove		
7:00 A.M. Depth:	32	10'					,				Ор	eration:				eg.e.re		
Spud Date & Time: 5/13/19 @ 4:00 PM		05/13/19 Day 1		05/14/19 Day 2		5/15/19 Day 3	(05/16/19 Day 4	0	5/17/19 Day 5	C	05/18/19 Day 6	C	05/19/19 Day 7	0	05/20/19 Day 8		Total
Total Depth (7:00am)		0		412		1812		2230		2895		2940		3210		3210		Total
Daily Progress		412		1400		418		665		45		270		0		0210		3210
Ft. Per Hr.		86.74		86.15		57.66		35.47		36.00		24.55		#DIV/0!		#DIV/0!		54.18
Current Operation (7:00am)		Rig Up		WOC		Drilling		TIH w/ bit	1.50	CFS		IH w/ bit		CTCH		ear Down		
Formation		Surface		Surface		ie / Shale		Tarkio		ne / Shale		Lansing		Arbuckle	_	Arbuckle		
Fuel Used (41.5 Gal/Inch)		124.50		332.00		290.50		332.00		249.00		373.50		124.50				1826.00
Survey (degree & depth)	1,	/4° @ 412'	L		1 1/2	2° @ 2230'							1 1/	'4° @ 3210'				
Mud Cost		\$0.00		\$0.00	\$3	3,443.64		\$0.00	\$	1,142.69		\$0.00	\$	1,498.32				\$6,084.65
Weight (39.6 / Gal Inch)		-		-		8.4		9.1		9.3		9.1		9.2				
Vis (Funnel) Water Loss (cc)		-		-		46 8.8		55		53 10.2		50 12.6		50 12.6				
	_		_			0.0				10.2	_	12.0	_	12.0	=			
Bit #1 Bit Make / Type	Π	JZ RR	Ι															
Bit Size		12 1/4																
Bit Hours		4.75																4.75
Bit #2			1/	arel HE-29	1/6	rel HE-29	1/	arel HE-29	1/-	rel HE-29	1/-	arel HE-29	\/-	rel HE-29				
Bit Make / Type Bit Size	\vdash		V.	7 7/8	val	7 7/8	V	7 7/8	va	7 7/8	va	7 7/8	va	7 7/8	\vdash		\vdash	
Bit Hours			t	16.25		7.25	T	18.75		1.25		11.00		0.00				54.50
Bit Cumulative Hours		4.75		16.25		7.25		18.75		1.25		11.00		0.00		0.00		59.25
Weight on Bit (WOB)		15,000		30,000		30,000		30,000		30,000		30,000		-				
RPM		120		80		80		80		80		80		-				
Pump Pressure		300		700		700		700		700		700		-				
Drilling (Rotating) Hours		4.75		16.25		7.25		18.75		1.25		11.00		0.00		0.00		59.25
			_			Davv	vork	Hrs. (Oper	ator'	s time)								
Rat Hole (>.75 Hrs)	Π		Π			zuj.		тиси (орси		<u> </u>								0.00
Wait on Cement		5.75		2.25														8.00
Short Trip						1.25						1.00						2.25
Trip	<u> </u>					5.00		0.50		10.50		1.00		2.50				19.00
Circulate Tool						1.00		3.50		3.50 2.00		8.25		2.00				19.50 3.00
Testing	1					3.00				6.25								9.25
Clean Floor after DST										0.25								0.25
Logging														3.50				3.50
Wait on Orders														0.50				0.00
LDDP / LDDC Run Casing / Circ / Cement	-	2.25												2.50 3.50				2.50 5.75
Bit Trip		2.20												3.50				0.00
Displace						2.00												2.00
Jet Cellar / Set Slips														0.50				0.50
Survey (Operator Request)	<u> </u>																	0.00
Nipple Down Billable Hours		8.00		2.25		14.50		3.50		22.50		10.25		1.00 15.50		0.00		1.00 76.50
billable nouts		0.00		2.23			ahle	Hours (Sou	ıthw			10.25		15.50		0.00		70.50
Rig Up / Tear Down	Π	8.25	Ι			NOII-BIII	2010	110013 (001		ina s time,				8.50				16.75
Wait on Cement (NB)																		0.00
Drill Rat Hole (<.75 hrs)		0.75																0.75
Drill Plug	_		₽		_		<u> </u>		_		_				<u> </u>		<u> </u>	0.00
Bit Trip Circulate / Trip (Surface)	1	0.75	-				 											0.00 0.75
Rig Repair		0.75	\vdash	1.00		0.75						1.25						3.25
Connections	L	1.25		3.50		1.25		1.75		0.25		1.00						9.00
Jet/Displace		-		1.00		0.25						0.50						1.75
Surveys	_		<u> </u>				<u> </u>								<u> </u>		_	0.00
Rig Check Trip Time (NB) / DST #3	1		<u> </u>				 		_		_				\vdash		\vdash	0.00
Lost Circulation (< 2 hrs)			\vdash				\vdash											0.00
Lay Down Kelly / MH & RH	L		L														L	0.00
Non-Billable Hrs.		11.25		5.50		2.25		1.75		0.25		2.75		8.50		0.00		32.25
Footage Cost	\$	4,532.00	\$	15,400.00	\$	4,598.00	\$	7,315.00	\$	495.00	\$	2,970.00	\$	-74.UU -	\$	7.00	\$	35,310.00
Daywork Cost	\$	2,680.00	\$	753.75	\$	4,857.50	\$	1,172.50	\$	7,537.50	\$	3,433.75	\$	5,192.50	\$		\$	25,627.50
Combined Est. Cost*	\$	7,212.00	\$	16,153.75	\$	9,455.50	\$	8,487.50	\$	8,032.50	\$	6,403.75	\$	5,192.50	\$	-	\$	60,937.50
*Please note that this is estimat	ted fo	otage & dayw	ork c	ost only. Add	litional	charges wil	II app	ly on invoice	fuel s	urcharge, wa	ter tr	ansfer pump,	etc)					
DST #1 Info -							DST	#2 Info -										
Footage Interval:	217	0' - 2230'		Tai	rkio		F	ootage Inte	rval:	2832' - 2895	5'			Lansing "A	۱-C" 2	Zones		
Dave	ELA:	اا					ı	D		4001.0	0.1							

Recovery: 5' Mud Recovery: 180' Gassy Oily Cut Mud

DST #4 Info -DST #3 Info -

Footage Interval: 2890' - 2940' Lansing "D - F" Zones Footage Interval: Recovery: 50' Oil Cut Mud Recovery:



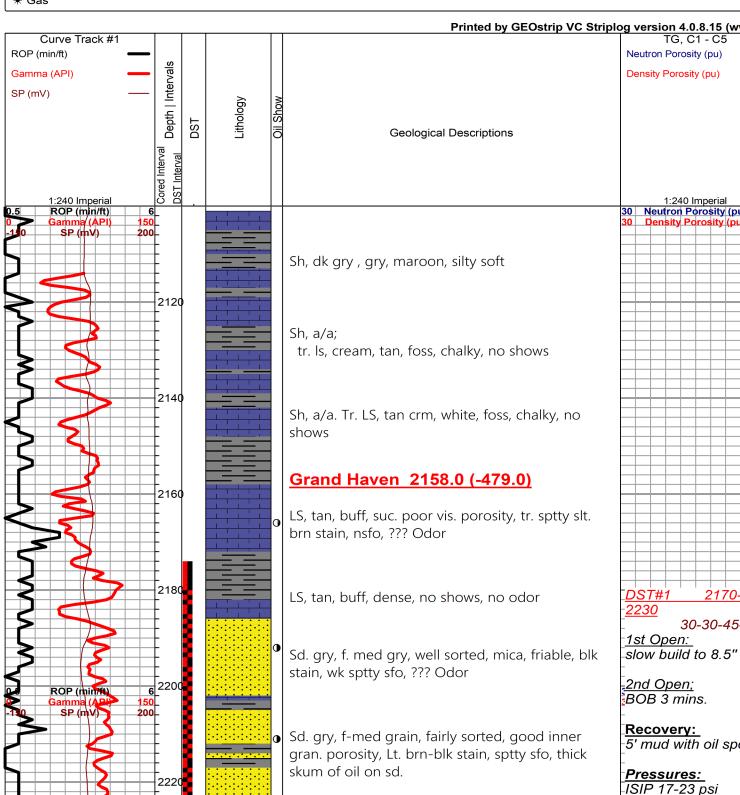
GEOLOGIST'S REPORT

	DRILLING IIM	ME AND SA	MPLE	LOG			
COMPANY H&D Explo	oration , LLC				ELEVAT	IONS	
LEASE Steinle #2				VD 16	79'		
FIELD Hall Gurne	V			1			
TILLU TIAN GAING	У			DF			
LOCATION SE-NW-S	SE-NE (1830' FI	NL& 770' F	EL)		1670'		
SEC30TWS	P 145 R	GE <u>12W</u>			rements		
COUNTY_Russell	STATE_K	ansas			KB		
CONTRACTOR Southw	vind Drilling, inc	c. (Ria#3	3)		CASIN	IG	
					8 5/8"@		
SPUD <u>05/13/2019</u>	_COMP05/19/	2019		PRODUCT	10N 5 1/	2"(0)32	08
RTD_3210'	LTD321	0'			TRICAL	SURVE	YS
			197 II 125		/ireline	NI /ONII	
MUD UP 2050'	TTPE MUD_	Chemical		Micro	, DIL, C	JL/CNL	
SAMPLES SAVED FRO	OM	2100'		TO	RTD		
DRILLING TIME KE	FROM	2100		10	KID		
SAMPLES EXAMINED	FROM	2100'		TO	RTD		
GEOLOGICAL SUPER	VISION FROM	2150'		TO	RTD		
GEOLOGIST ON WELL	_ · <u></u>	yatt Urba	<u>ın</u>				
FORMATION TOPS	LOG	SAW	PLE3				
Anhydrite	599 (+1080)	Lansing	2818 (-11	39)			
B. Anhydrite	634 (+1045)	120	3092 (-14				
Grand Haven	2158 (-824)	Congl.	3103 (-14	24)			
Dover	2182 (-503)	Arbuckle	3160(-14	81)		×	
2nd Tarkio Sd.	2192 (-513)	RTD	3210(-15	31)	20	1	
Tarkio Lime	2231 (-555)	LTD	3210(-15	31)	30		\neg
Topeka	2503 (-824)						
Heebner	2740 (-1061)		****		+	-+-	-
Toronto	2757 (-1078)						

2772 (-1093)

Douglas

LEGEND Oil Show **DST** Good Show TDST Int Fair Show DST alt Poor Show Core O Spotted or Trace II tail pipe O Questionable Stn D Dead Oil Stn Fluorescence * Gas Curve Track #1 TG, C1 - C5 ROP (min/ft) Neutron Porosity (pu) Depth | Intervals Gamma (API) Density Porosity (pu) SP (mV) DST Geological Descriptions



Tarkio Lime 2230.0 (-551.0)

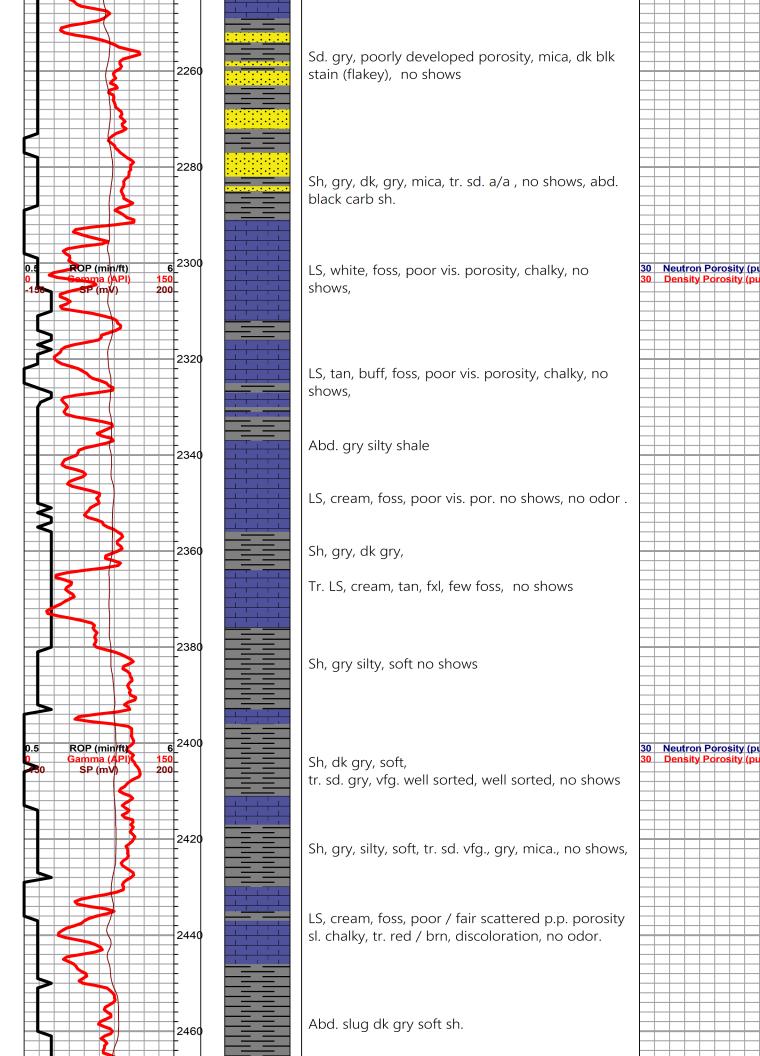
Tr. LS, tan, buff, sl. suc. no shows

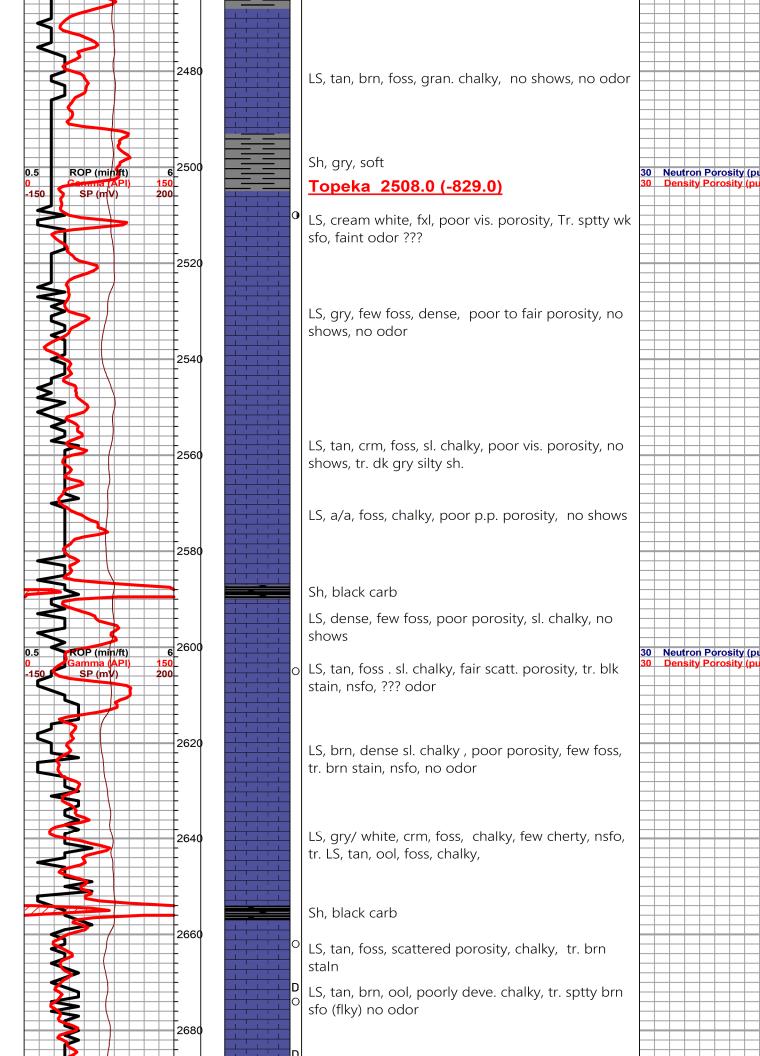
2240

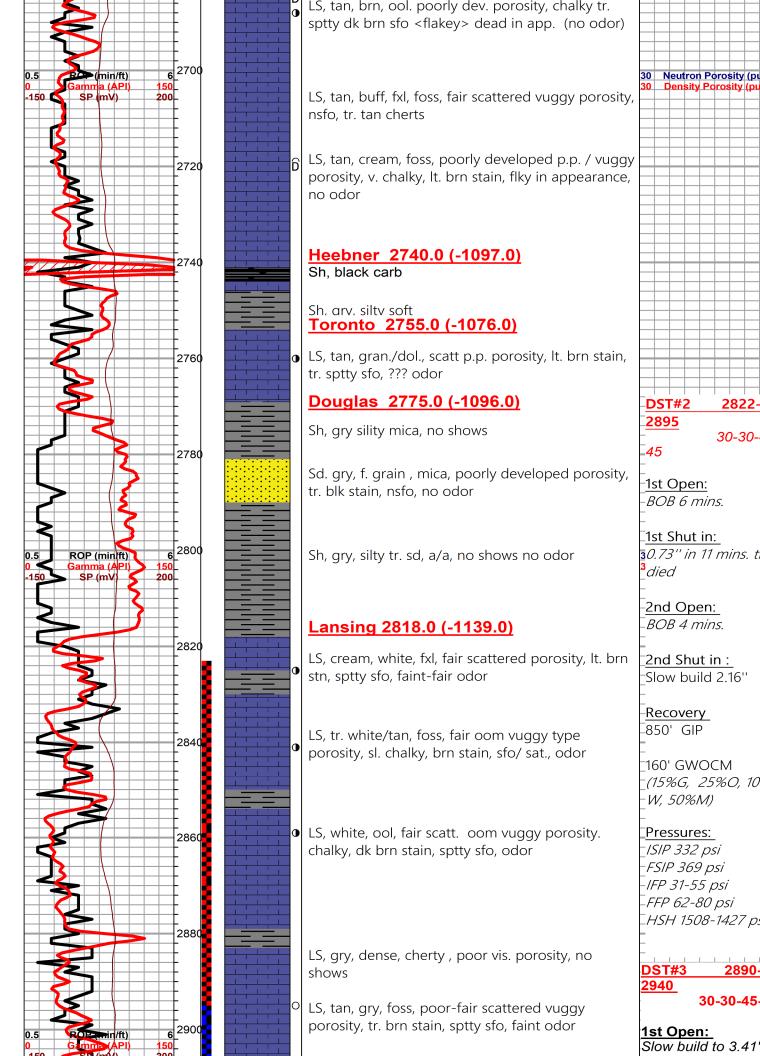
FSIP 225-30 psi IFP 17-23 psi

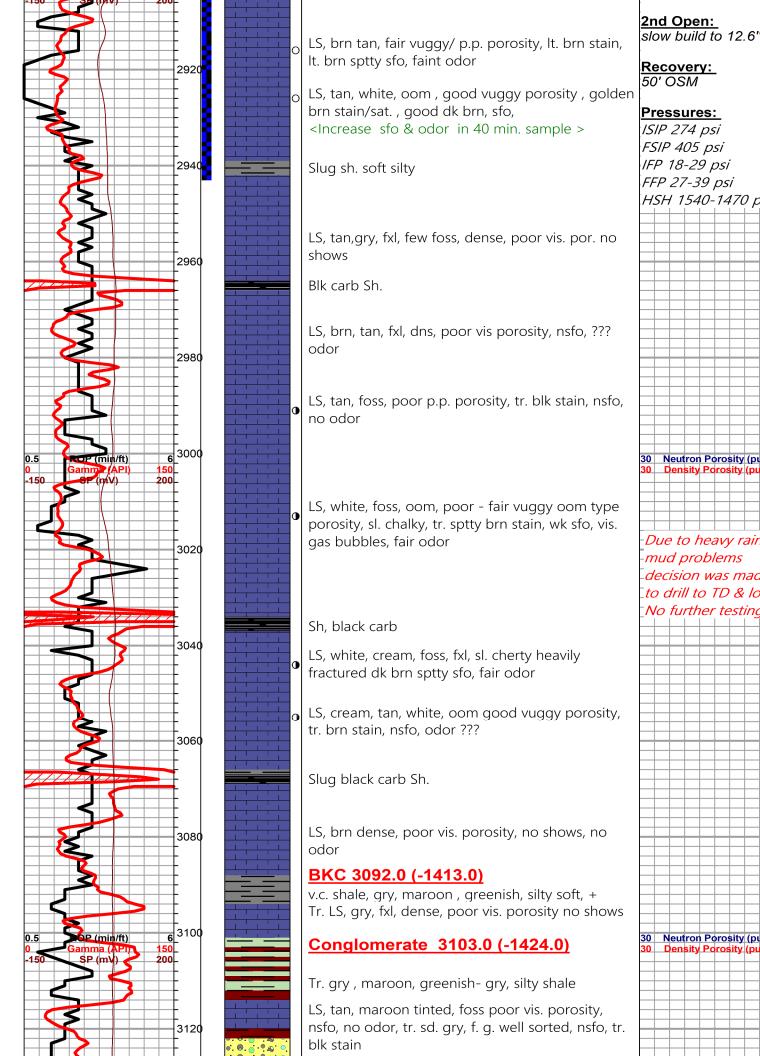
HSH 1024-994 ps

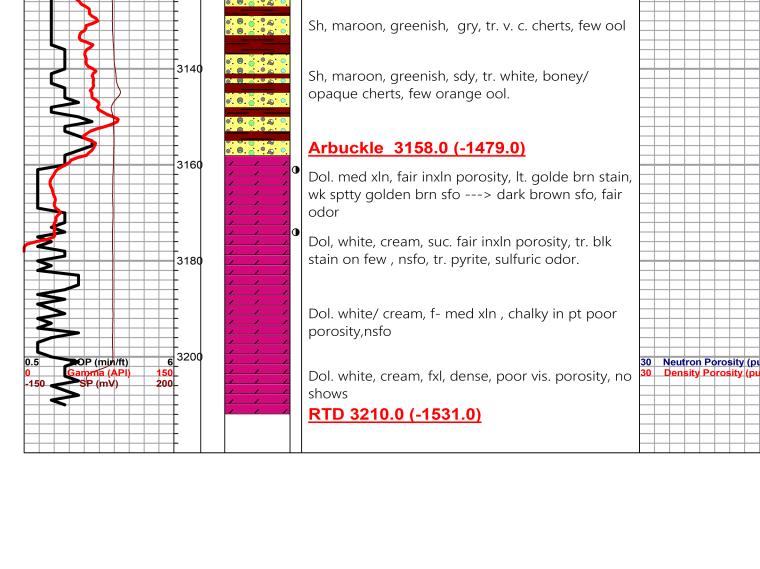
FFP 22-29 psi













Prepared For: H&D Exploration, LLC

PO Box 387 Hoisington, KS 67544

ATTN: Wyatt Urban

Steinle #2

30-14S-12W Russell,KS

Start Date: 2019.05.15 @ 22:48:35

End Date:

2019.05.16 @ 05:28:11

Job Ticket #: 65688

DST#: 1

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Hoisington, KS 67544

Steinle #2

Job Ticket: 65688

DST#: 1

ATTN: Wyatt Urban Test Start: 2019.05.15 @ 22:48:35

GENERAL INFORMATION:

Formation:

Tarkio

Deviated:

No Whipstock:

Tester:

Test Type: Conventional Bottom Hole (Initial)

Brannan Lonsdale

Unit No:

Reference Elevations:

1677.00 ft (KB)

1668.00 ft (CF)

9.00 ft

Time Test Ended: 05:28:11

Time Tool Opened: 01:24:56

ft (KB)

Interval:

2170.00 ft (KB) To 2230.00 ft (KB) (TVD)

Total Depth:

2230.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

Serial #: 8700 Press@RunDepth: Outside

29.81 psig @

2171.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2019.05.15 22:48:36

End Date: End Time:

2019.05.16 05:28:11 Last Calib .: Time On Btm:

2019.05.16 2019.05.16 @ 01:24:26

Time Off Btm:

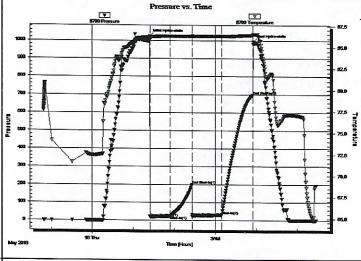
2019.05.16 @ 03:55:41

TEST COMMENT: 30- IF- Slow ly built to 8.61"

30- ISI- No blow

45- FF- BOB 3 mins. Built to 80.80"

45- FSI- No blow



Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	1024.78	86.20	Initial Hydro-static	
1	17.44	86.02	Open To Flow (1)	
30	23.14	86.29	Shut-In(1)	
62	199.47	86.31	End Shut-In(1)	
62	22.18	86.31	Open To Flow (2)	
105	29.81	86.28	Shut-In(2)	
151	696.33	86.42	End Shut-In(2)	
152	994.56	86.52	Final Hydro-static	

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mw/few oil spots	0.02
<u> </u>		
-		
		and the second

Gas	Rates
Gas	Males

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



H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Hoisington, KS 67544

Steinle #2

Job Ticket: 65688

DST#:1

ATTN: Wyatt Urban

Test Start: 2019.05.15 @ 22:48:35

GENERAL INFORMATION:

Formation:

Interval:

Tarkio

Deviated:

No Whipstock:

Time Tool Opened: 01:24:56 Time Test Ended: 05:28:11

ft (KB)

Tester:

Conventional Bottom Hole (Initial)

Brannan Lonsdale

Unit No:

73

Reference Elevations:

1677.00 ft (KB)

1668.00 ft (CF)

KB to GR/CF:

9.00 ft

Total Depth: Hole Diameter: 2230.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

2170.00 ft (KB) To 2230.00 ft (KB) (TVD)

Serial #: 6771 Press@RunDepth: Inside

psig @

2171.00 ft (KB) End Date:

2019.05.16

Capacity:

Last Calib .:

8000.00 psig

2019.05.16

Start Date: Start Time:

2019.05.15 22:48:04

End Time:

05:27:39

Time On Btm:

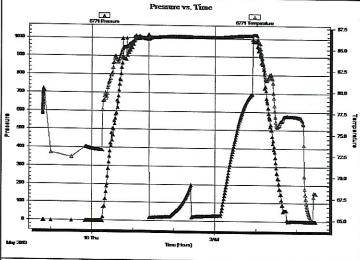
Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 8.61"

30- ISI- No blow

45- FF- BOB 3 mins. Built to 80.80"

45- FSI- No blow



		PI	RESSUR	E SUMMARY	
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	450.0
			. 0 /		3 37 300
					5460 8
8					900 1.49
z					Mark C
Temperature					-ETTER)
ture.					J09-07
					out H
			1		
- 1					

Recovery

Description	Volume (bbl)
Mw/few oil spots	0.02

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 65688



TOOL DIAGRAM

H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Steinle #2 Job Ticket: 65688

DST#:1

Hoisington, KS 67544

ATTN: Wyatt Urban

Test Start: 2019.05.15 @ 22:48:35

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Drill Collar:

Length:

Length: 2065.00 ft Diameter:

ft Diameter: 114.00 ft Diameter: 3.82 inches Volume: inches Volume: 2.25 inches Volume:

Total Volume:

29.27 bbl - bbl 0.56 bbl

- bbl

Tool Weight: Weight set on Packer: 25000.00 lb

2000.00 lb

Tool Chased

Weight to Pull Loose: 42000.00 lb 0.00 ft

String Weight: Initial 30000.00 lb

Printed: 2019.05.20 @ 11:44:43

32000.00 lb

Drill Pipe Above KB:

29,00 ft 2170.00 ft

Depth to Top Packer: Depth to Bottom Packer: Interval between Packers:

ft

60.00 ft

80.00 ft 2 Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2151.00		
Shut In Tool	5.00			2156.00		
Hydraulic tool	5.00			2161.00		
Packer	5.00			2166.00	20.00	Bottom Of Top Packer
Packer	4.00			2170.00		
Stubb	1.00			2171.00		
Recorder	0.00	6771	Inside	2171.00		
Recorder	0.00	8700	Outside	2171.00		
Perforations	22.00			2193.00		
Change Over Sub	1.00			2194.00		
Drill Pipe	32.00			2226.00		
Change Over Sub	1.00			2227.00		
Bullnose	3.00			2230.00	60.00	Bottom Packers & Anchor

Total Tool Length:

80.00



FLUID SUMMARY

deg API

ppm

H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Hoisington, KS 67544

Steinle #2 Job Ticket: 65688

DST#: 1

ATTN: Wyatt Urban

Test Start: 2019.05.15 @ 22:48:35

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

Viscosity:

Water Loss:

Resistivity:

Salinity: Filter Cake: 46.00 sec/qt 8.77 in³ ohm.m

8.00 lb/gal

7500.00 ppm inches Cushion Type:

Cushion Length: Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

bbl psig

ft

Recovery Information

Recovery Table

Length Description Volume bbl 5.00 Mw/few oil spots 0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

Laboratory Name: Recovery Comments:

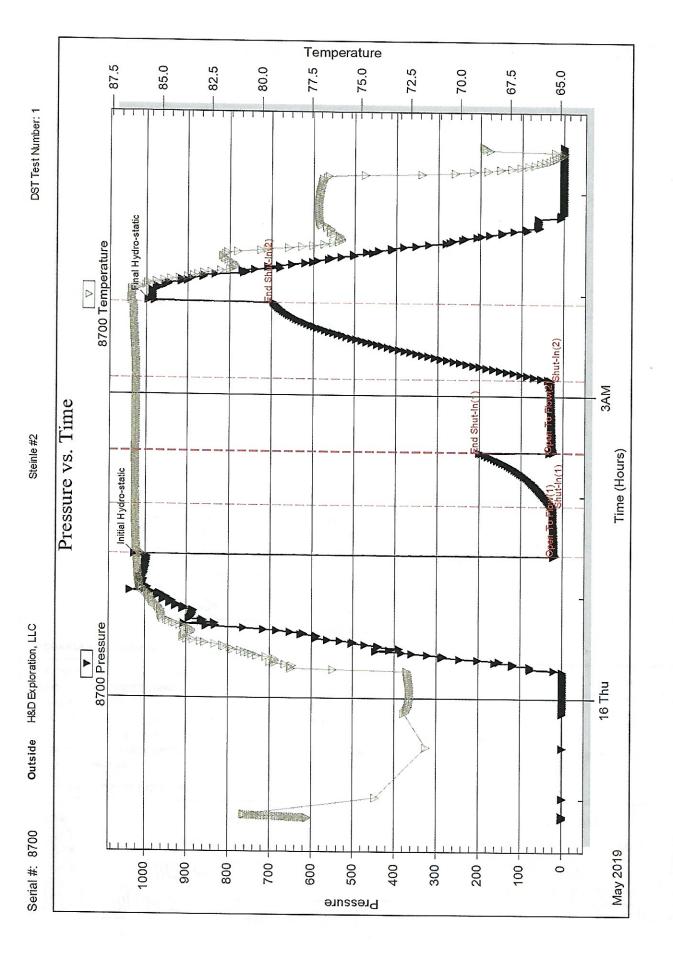
Num Gas Bombs: 0

Laboratory Location:

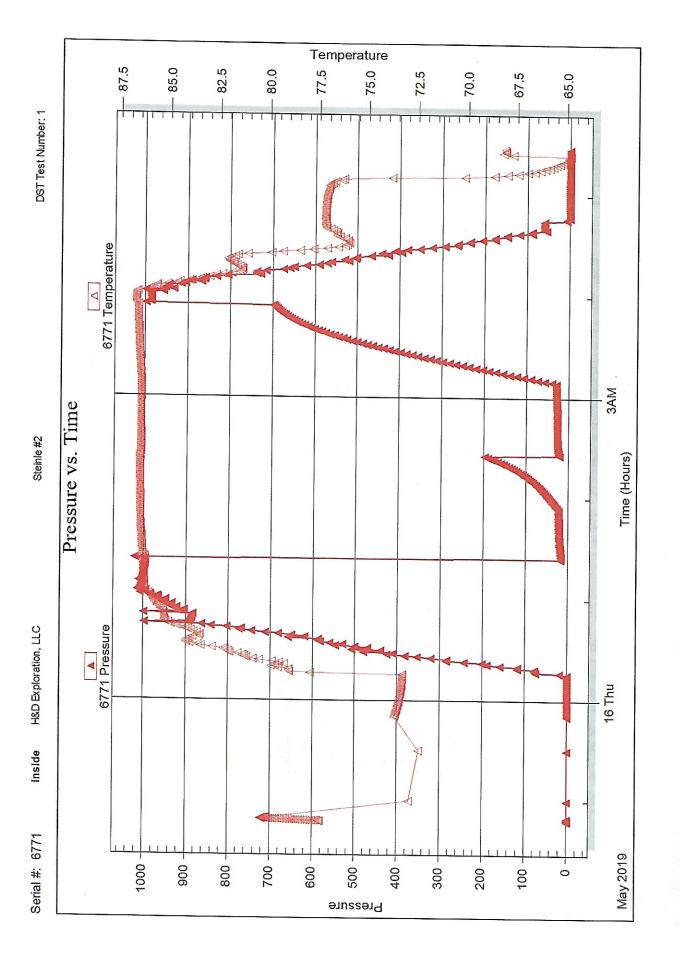
Serial #:

Trilobite Testing, Inc

Ref. No: 65688



Trilobite Testing, Inc



Ref. No: 65688



Prepared For: H&D Exploration, LLC

PO Box 387 Hoisington, KS 67544

ATTN: Wyatt Urban

Steinle #2

30-14S-12W Russell,KS

Start Date: 2019.05.17 @ 10:33:32 End Date: 2019.05.17 @ 16:47:08

Job Ticket #: 65689 DST #: 2

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Hoisington, KS 67544

Job Ticket: 65689

Steinle #2

DST#: 2

ATTN: Wyatt Urban

Test Start: 2019.05.17 @ 10:33:32

GENERAL INFORMATION:

Formation:

LKC "A-D"

Deviated:

No Whipstock: ft (KB)

Time Tool Opened: 12:38:08 Time Test Ended: 16:47:08

Interval:

2822.00 ft (KB) To 2895.00 ft (KB) (TVD)

Total Depth:

2895.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester:

Brannan Lonsdale

Unit No:

Reference Elevations:

1677.00 ft (KB)

1668.00 ft (CF)

KB to GR/CF:

9.00 ft

Serial #: 8700 Outside

Press@RunDepth:

Start Date:

Start Time:

79.89 psig @ 2019.05.17

10:33:33

2823.00 ft (KB) End Date:

End Time:

2019.05.17

16:47:08

Capacity:

8000.00 psig

Last Calib.: Time On Btm: 2019.05.17

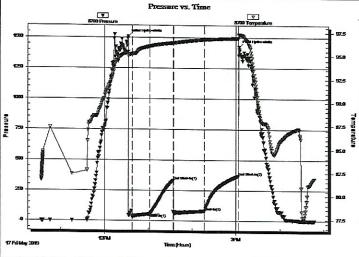
Time Off Btm:

2019.05.17 @ 12:32:38 2019.05.17 @ 15:04:08

TEST COMMENT: 30- IF- BOB 6 mins. Built to 59.49"

30- ISI- Slow ly built to $0.73^{\rm u}$ in 11 mins then slow ly died

45- FF- BOB 4 mins. Built to 48.63" 45- FSI- Slow ly built to 2.16"



PRESSURE SUMMARY

- 4					
	Time	Pressure	Temp	Annotation	 -
	(Min.)	(psig)	(deg F)	1.00	
	0	1508.07	95.44	Initial Hydro-static	
	6	30.50	95.22	Open To Flow (1)	
	30	54.91	96.04	Shut-In(1)	
	62	332.46	96.40	End Shut-In(1)	
1	62	61.67	96.41	Open To Flow (2)	
Temperatur	104	79.89	96.76	Shut-In(2)	
	151	368.72	96.91	End Shut-In(2)	
	152	1426.90	97.30	Final Hydro-static	
				•	
	2				
	4				
	Y			` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	
		-20		2 1 10	

Recovery

Length (ft)	Description	Volume (bbl)
160.00	GWOCM, 15%G 10%W 25%O 50%M	2.27
0.00	850' GIP	0.00
Recovery from r	nultiple tests	

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 65689



H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Job Ticket: 65689

Steinle #2

DST#: 2

Hoisington, KS 67544 ATTN: Wyatt Urban

Test Start: 2019.05.17 @ 10:33:32

GENERAL INFORMATION:

Formation:

Interval:

LKC "A-D"

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened: 12:38:08

Time Test Ended: 16:47:08

2822.00 ft (KB) To 2895.00 ft (KB) (TVD)

Total Depth:

2895.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester:

Brannan Lonsdale

Unit No:

Reference Elevations:

1677.00 ft (KB)

1668.00 ft (CF)

KB to GR/CF:

9.00 ft

Serial #: 6771 Press@RunDepth:

Inside

psig @

2823.00 ft (KB)

Capacity:

8000.00 psig

Start Date:

2019.05.17 10:33:49 End Date:

2019.05.17

Last Calib.: Time On Btm: 2019.05.17

Start Time:

End Time:

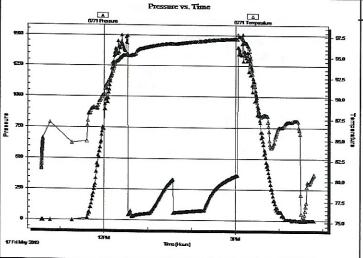
16:47:24

Time Off Btm:

TEST COMMENT: 30- IF- BOB 6 mins. Built to 59.49"

30- ISI- Slow ly built to 0.73" in 11 mins then slow ly died

45- FF- BOB 4 mins. Built to 48.63" 45- FSI- Slow ly built to 2.16"



Time	Pressure	Temp	Annotat	ion	
(Min.)	(psig)	(deg F)			
	1				
	i i i				
	1				

Recovery

Length (ft)	Description	Volume (bbl)
160.00	GWOCM, 15%G 10%W 25%O 50%M	2.27
0.00	850' GIP	0.00

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 65689



TOOL DIAGRAM

H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Hoisington, KS 67544

Steinle #2 Job Ticket: 65689

DST#: 2

ATTN: Wyatt Urban

Test Start: 2019.05.17 @ 10:33:32

Tool Information

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 2817.00 ft Diameter:

Length:

0.00 ft Diameter:

ft Diameter:

3.82 inches Volume: inches Volume: 2.25 inches Volume:

Total Volume:

- bbl 0.00 bbl - bbl

39.93 bbl

Tool Weight:

2000.00 lb Weight set on Packer: 25000.00 lb

34000.00 lb

Weight to Pull Loose: 37000.00 lb

Final

Tool Chased

String Weight: Initial

0.00 ft 33000.00 lb

2822.00 ft fţ

15.00 ft

Depth to Bottom Packer: Interval between Packers: 73.00 ft Tool Length: 93.00 ft

Number of Packers:

Drill Pipe Above KB:

Depth to Top Packer:

2 Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2803.00		
Shut In Tool	5.00			2808.00		
Hydraulic tool	5.00			2813.00		
Packer	5.00			2818.00	20.00	Bottom Of Top Packer
Packer	4.00	***************************************	V	2822.00		
Stubb	1.00			2823.00		
Recorder	0.00	6771	Inside	2823.00		
Recorder	0.00	8700	Outside	2823.00		
Perforations	5.00			2828.00		
Change Over Sub	1.00			2829.00		
Drill Pipe	62.00			2891.00		
Change Over Sub	1.00			2892.00		
Bullnose	3.00			2895.00	73.00	Bottom Packers & Anchor

Total Tool Length:

93.00

Trilobite Testing, Inc.

Ref. No: 65689



FLUID SUMMARY

H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Hoisington, KS 67544

Steinle #2

Job Ticket: 65689

Serial#:

DST#: 2

ATTN: Wyatt Urban

Test Start: 2019.05.17 @ 10:33:32

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity:

53.00 sec/qt 10.19 in³

Water Loss: Resistivity:

ohm.m 11000,00 ppm

Salinity: Filter Cake:

inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

28 deg API

Water Salinity: 65000 ppm

psig

ft

bbl

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	GWOCM, 15%G 10%W 25%O 50%M	2.268
0.00	850' GIP	0.000

Total Length:

160.00 ft

Total Volume:

2.268 bbl

Num Fluid Samples: 0 Laboratory Name:

Num Gas Bombs: 0

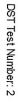
Laboratory Location:

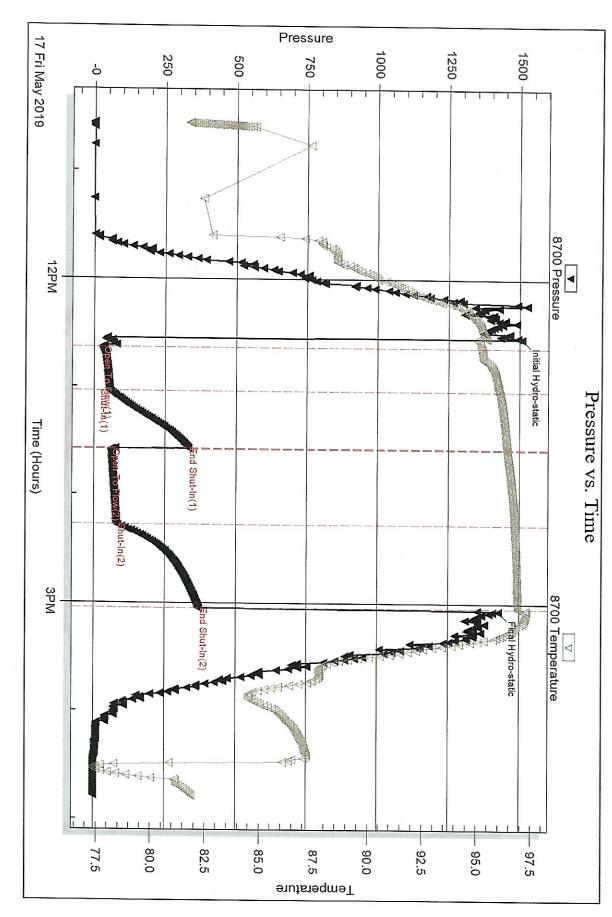
Recovery Comments: RW: .11@63deg

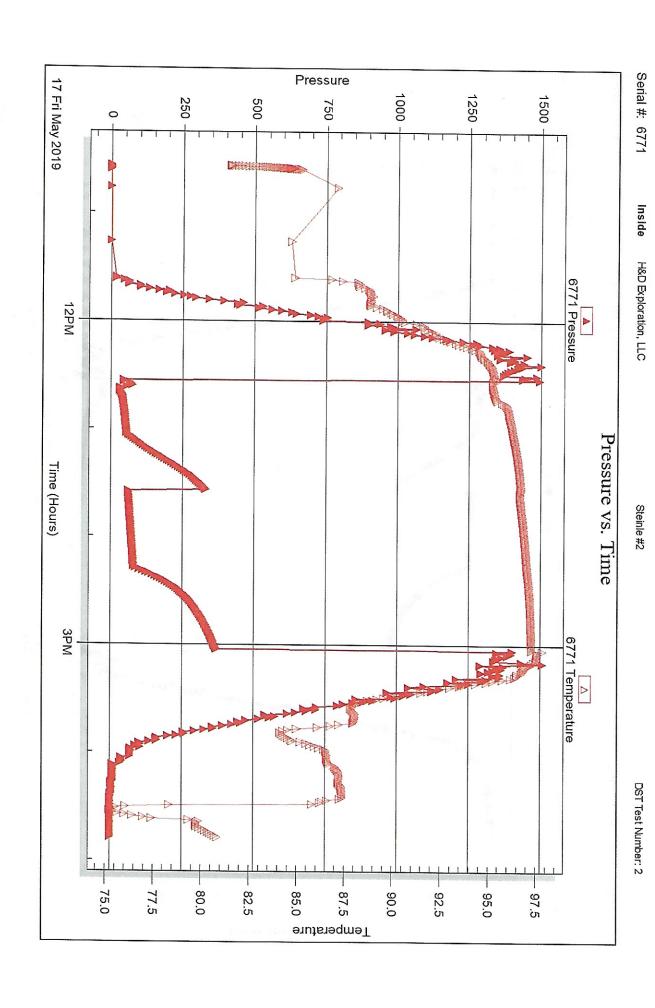
Serial #: 8700

Outside

H&D Exploration, LLC







Trilobite Testing, Inc

Ref. No: 65689

2019.05.17



Prepared For:

H&D Exploration, LLC

PO Box 387

Hoisington, KS 67544

ATTN: Wyatt Urban

Steinle #2

30-14S-12W Russell,KS

Start Date: 2019.05.17 @ 23:00:35

End Date:

2019.05.18 @ 05:58:11

Job Ticket #: 65690

DST#: 3

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



H&D Exploration, LLC

Steinle #2

PO Box 387

Hoisington, KS 67544

ATTN: Wyatt Urban

Job Ticket: 65690

DST#: 3

Test Start: 2019.05.17 @ 23:00:35

30-14S-12W Russell, KS

GENERAL INFORMATION:

Formation:

LKC "D-F"

Deviated:

No Whipstock:

ft (KB)

Time Tool Opened: 01:12:56 Time Test Ended: 05:58:11

Interval:

Start Date:

Start Time:

2890.00 ft (KB) To 2940.00 ft (KB) (TVD)

2940.00 ft (KB) (TVD)

Total Depth: Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester:

Brannan Lonsdale

Unit No:

Reference Elevations:

1677.00 ft (KB)

1668.00 ft (CF)

KB to GR/CF:

9.00 ft

Serial #: 8700

Press@RunDepth:

Outside

39.53 psig @ 2019.05.17

23:00:36

2891.00 ft (KB)

End Date: End Time:

2019.05.18 05:58:11 Capacity:

8000.00 psig

Last Calib.: Time On Btm:

2019.05.18

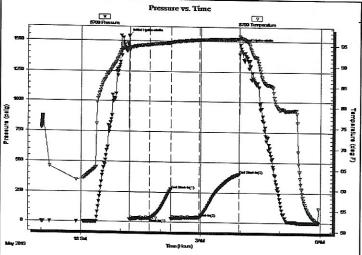
Time Off Btm:

2019.05.18 @ 01:12:41 2019.05.18 @ 03:59:11

TEST COMMENT: 30- IF- Slow ly built to 3.41" 30- ISI- No blow

45- FF- Slow ly built to 12.06"

60- FSI- No blow



-									
	PRESSURE SUMMARY								
	Time	Pressure	Temp	Annotation					
	(Min.)	(psig)	(deg F)						
	0	1540.01	94.27	Initial Hydro-static					
	1	18.99	93.54	Open To Flow (1)					
	31	29.63	95.02	Shut-In(1)					
	63	274.50	95.47	End Shut-In(1)					
	63	27.18	95.50	Open To Flow (2)					
	106	39.53	96.27	Shut-In(2)					
	166	405.30	96.53	End Shut-In(2)					
,	167	1470.83	96.83	Final Hydro-static					
				-					

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OSM	0.71
Recovery from n	nultiple tests	

Gas Rat	es	
Choke (inches)	Pressure (psig)	Gas Pate (Meffet)

Trilobite Testing, Inc

Ref. No: 65690



H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Steinle #2

Hoisington, KS 67544

Job Ticket: 65690

DST#: 3

ATTN: Wyatt Urban

ft (KB)

Test Start: 2019.05.17 @ 23:00:35

GENERAL INFORMATION:

Formation:

LKC "D-F"

Deviated:

No Whipstock:

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 01:12:56 Time Test Ended: 05:58:11

Unit No:

Tester:

Brannan Lonsdale 73

2890.00 ft (KB) To 2940.00 ft (KB) (TVD)

Reference Elevations:

1677.00 ft (KB)

Interval: Total Depth:

2940.00 ft (KB) (TVD)

1668.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

9.00 ft

Serial #: 6771 Press@RunDepth: Inside

psig @

2891.00 ft (KB)

Capacity: Last Calib .: 8000.00 psig

Start Date:

2019.05.17

End Date:

2019.05.18

Time On Btm:

2019.05.18

Start Time:

23:00:11

End Time:

05:57:31

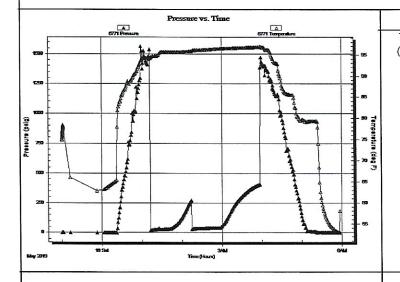
Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 3.41"

30- ISI- No blow

45- FF- Slow ly built to 12.06"

60- FSI- No blow



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation	40,000
(Min.)	(psig)	(deg F)		
			77	

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OSM	0.71
* Recovery from r	multiple tests	

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 65690



TOOL DIAGRAM

H&D Exploration, LLC

PO Box 387 Hoisington, KS 67544

ATTN: Wyatt Urban

30-14S-12W Russell, KS

Steinle #2

Job Ticket: 65690

Tool Weight:

DST#: 3

Test Start: 2019.05.17 @ 23:00:35

Tool Information

Drill Pipe: Length: 2880.00 ft Diameter: Heavy Wt. Pipe: Length: Drill Collar:

Length:

ft Diameter:

50.00 ft

0.00 ft Diameter: 13.00 ft

ft

inches Volume: 2.25 inches Volume: Total Volume:

3.82 inches Volume:

- bbl

- bbl 0.00 bbl

40.83 bbl

Weight set on Packer: 25000.00 lb Weight to Pull Loose: 36000.00 lb

2000.00 lb

Tool Chased String Weight: Initial 32000.00 lb

0.00 ft

Final 32000.00 lb

Drill Pipe Above KB: Depth to Top Packer: 2890.00 ft

Depth to Bottom Packer: Interval between Packers:

Tool Length:

Number of Packers: Tool Comments:

73.00 ft 2 Diameter:

6.75 inches

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2868.00		
Shut In Tool	5.00			2873.00		
Hydraulic tool	5.00			2878.00		
Safety Joint	3.00			2881.00		
Packer	5.00			2886.00	23.00	Bottom Of Top Packer
Packer	4.00			2890.00		
Stubb	1.00			2891.00		
Recorder	0.00	6771	Inside	2891.00		
Recorder	0.00	8700	Outside	2891.00		
Perforations	12.00			2903.00		
Change Over Sub	1.00			2904.00		
Drill Pipe	32.00			2936.00		
Change Over Sub	1.00			2937.00		
Bullnose	3.00			2940.00	50.00	Bottom Packers & Anchor

Total Tool Length:

73.00

Trilobite Testing, Inc

Ref. No: 65690



FLUID SUMMARY

deg API

ppm

H&D Exploration, LLC

30-14S-12W Russell, KS

PO Box 387

Hoisington, KS 67544

Steinle #2

Job Ticket: 65690

DST#: 3

ATTN: Wyatt Urban

Test Start: 2019.05.17 @ 23:00:35

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

Viscosity:

Water Loss: Resistivity:

Salinity:

Filter Cake:

11000.00 ppm

9.00 lb/gal 53.00 sec/qt

10.19 in³ ohm.m

inches

Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

ft bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OSM	0.709

Total Length:

50.00 ft

Total Volume:

0.709 bbl

Num Fluid Samples: 0 Laboratory Name:

Recovery Comments:

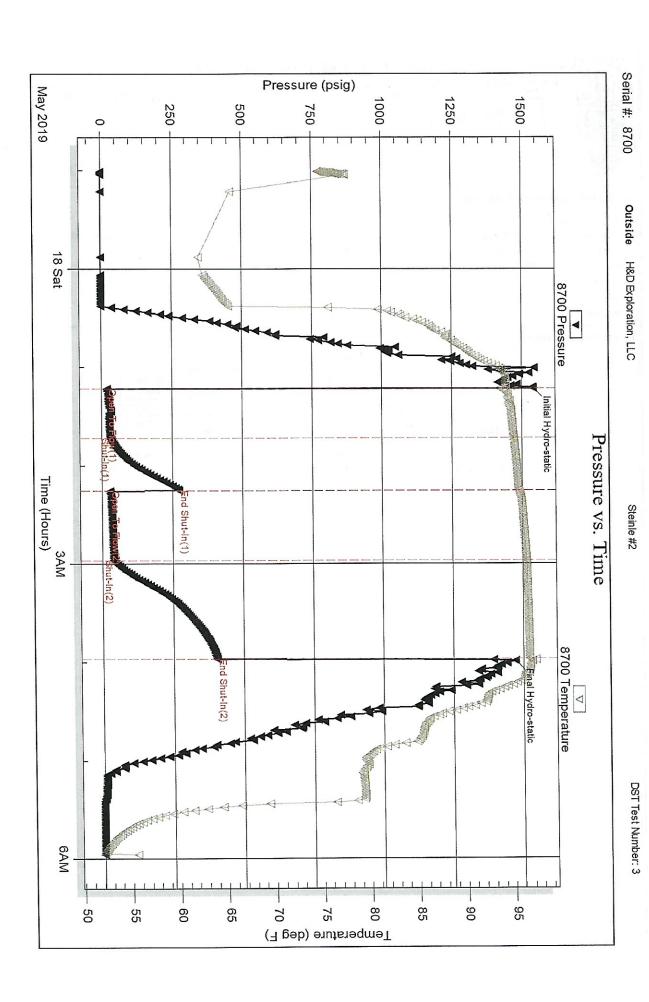
Num Gas Bombs: 0

Laboratory Location:

Serial #:

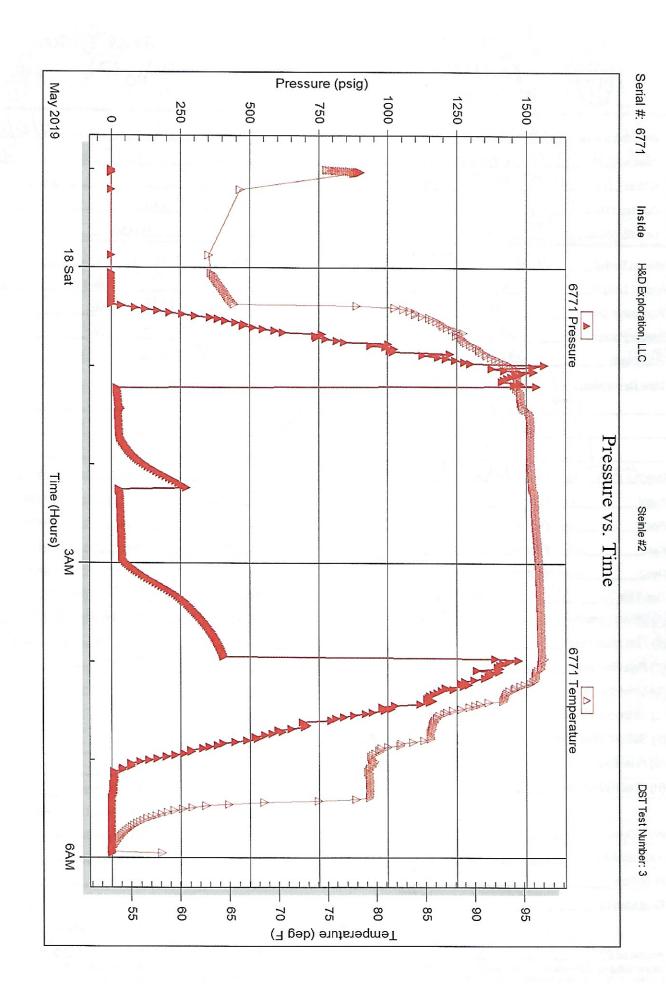
Trilobite Testing, Inc

Ref. No: 65690



Trilobite Testing, Inc

Ref. No: 65690



Trilobite Testing, Inc

Ref. No:

65690



RILOBITE | ESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

Test Ticket

NO. 65688

Well Name & No. Steinle =2		Test No.	1	Date 5/16	115
Company H+D Exploration, LLC			1677	1 1	1668 GL
Address 65 W. 15+ PD Box 357	thisyngton, KS			=	
Co. Rep/Geo. Wyort Wilan		_Rig Sowth	& loniw		
Location: Sec. 30 Twp 14 9	Rge. <u>12</u> W	Co	~ UII	State	45
Interval Tested 2170 - 2230	Zone Tested <u>ta</u>	rb10			Market
Anchor LengthGO '	Drill Pipe Run	53	065 Mu	ıd Wt	8,4
Top Packer Depth 2165	Drill Collars Run '	\	14 Vis	ì	46
Bottom Packer Depth 2170	Wt. Pipe Run				8.8
Total Depth 2230	Chlorides	7,500ppm		М	1 xx
Blow Description IF - Souly hast to	28.61"				
FST-No blow					
FF- BOB 3 mar. Rea	14 6 80.80"				
PSJ- No How	•				
Rec 5 Feet of Mal few of	1 spots	%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of	relieu est personal de la constantina della cons	%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Total 5' BHT 86		PIRW@		hlorides	ppm
(A) Initial Hydrostatic 1025	EXI Test 1200		T-On Local	tion 5/15	2235
(B) First Initial Flow	☐ Jars			**************************************	2248
(C) First Final Flow 23	☐ Safety Joint		T-Open		0124
(D) Initial Shut-In 199	☐ Circ Sub		T-Pulled _		0354
(E) Second Initial Flow 22	☐ Hourly Standby				0528
(F) Second Final Flow	Mileage 74	_	Comments	S	
(G) Final Shut-In 696	☐ Sampler				
(H) Final Hydrostatic 995	☐ Straddle				
1	☐ Shale Packer			ool d Shale Packer_	
Initial Open	☐ Extra Packer			d Packer	
Initial Shut-In30	☐ Extra Recorder			Copies	
Final Flow 45	☐ Day Standby				
Final Shut-In 45	□ Accessibility		Total 1:		
	Sub Total 1274		MP/DST		
Approved By		Representative_	1	Consolate	1

Trilobile Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



RILOBITE ESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

Test Ticket

NO. 65689

Well Name & No. Stephology Test No. Stephology	-/ 1			The second secon			The state of the s
Address S	7/14	Date	2	Test No		Ne =2	Well Name & No. 51601
Address	1670GL	79 кв	1679	Elevation	C	Horation, LL	COMPANY HAD EXT
Co. Rep / Geo. Walt Whan Rig South wind 3		Ý	5 67544	nation 155	A - 11	Si i	Address 11-5 W. 15
Location: Sec. 30 Twp 14)' 3	11	1 10			
Interval Tested	KS	assell State _		1	Rge. 12 U		/
Anchor Length				k ("A -r			
Top Packer Depth	9.3	Mud Wt	2817	-			
Bottom Packer Depth	.~7					· -	
Total Depth							
Blow Description F BB 6.mms But f 59.4911	いんせ						
TSJ- Stouly hart to 0,73" in 11 ms 5 Hen stonly diged	112	LCM	ipm System	11,000 p	Chlorides	00 C.	
For Simular har For Simula		1. 1. 1)	0 ()	11 - 16	RMIT 40		
Rec		my area	len slow	11 W/ C - H	0 1/3 11	ol ii	
Rec				0.63		1 1 1 1	
Rec	50%mud	10000000	2500	1500	€ 2.16	4. / 5 1	
Rec						~ · · · ~~	
Rec	%mud					•	
Rec	%mud						
Rec Total							
(A) Initial Hydrostatic DOS Test 1200 T-On Location (B) First Initial Flow 31 Jars T-Started (C) First Final Flow 55 Safety Joint T-Open (D) Initial Shut-In 232 Circ Sub T-Pulled (E) Second Initial Flow 62 Hourly Standby Comments (F) Second Final Flow 80 Mileage 74 74 (G) Final Shut-In 369 D. Sampler	%muc		30	11	. 08	076	
(B) First Initial Flow 31	9 0 8			API HW	1200	1208	
(C) First Final Flow 55 □ Safety Joint T-Open (D) Initial Shut-In 232 □ Circ Sub T-Pulled (E) Second Initial Flow 62 □ Hourly Standby Comments (F) Second Final Flow 80 Mileage 74 74 (G) Final Shut-In 369 □ Sampler	1.01		TO:		OK Test	21	
(D) Initial Shut-In	100				☐ Jars	مسرمه	
(E) Second Initial Flow 62 D Hourly Standby Comments (F) Second Final Flow 80 D Sampler (G) Final Shut-In 369 D Sampler	178				☐ Safety Joint		C) First Final Flow
(F) Second Final Flow 80 Mileage 74 RT 74 Comments (G) Final Shut-In 369 D. Sampler	649				☐ Circ Sub		(D) Initial Shut-In
(F) Second Final Flow OO Mileage 14 K 1					☐ Hourly Standby		(E) Second Initial Flow
(G) Final Shut-In 36 D Sampler				4 KT 14	X Mileage		(F) Second Final Flow
					☐ Sampler		(G) Final Shut-In
(H) Final Hydrostatic 1427 © Straddle © EM Tool		EM Tool	Q EM		☐ Straddle	1427	(H) Final Hydrostatic
☐ Shale Packer ☐ Ruined Shale Packer		Ruined Shale Packer			O Shale Packer_		
Initial Open		Ruined Packer			☐ Extra Packer _	30	Initial Open
Initial Shut-In 30 □ Extra Recorder □ Extra Copies		Extra Copies	O Ex		☐ Extra Recorder	30	Initial Shut-In
Final Flow Sub Total		Total 0	Sub To		☐ Day Standby _	45	Final Flow
Final Shut-In 45 Accessibility Total 1274		1274				4.5	Final Shut-In
	ſ		MP/D	1	Sub Total 127		
		an Lensla	Ba	our Representative			

Trilobite Testing Inc. shall not be tiable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools tost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Test Ticket

NO.

65690

410 sharp.					A STATE OF THE STA
Well Name & No. Steinle # 2		Test No	3 .	Date 5/18	7/19
Company (14) Experation, LLC		The second second	1679	Control of the Contro	670 GL
110 0 101 0-10	37 Horsington				~~
Co. Rep/Geo. Wyord Ushan		Rig Souf	1 0		
Location: Sec. 30 Twp 14 5	3 Rge. 12 h	7		ell_State	55
Interval Tested 2890-2940	Zone Tested <u></u> ¿ K	C "D-F"		I (2)(1)	
Anchor Length 50	Drill Pipe Run			ıd Wt	9,3
Top Packer Depth2885	Drill Collars Run _				
Bottom Packer Depth 2890	Wt. Pipe Run				100
Total Depth 2940	Chlorides			М	. 1
Blow Description IF - Spuly built	to 3,41"	J			
JST-No HOW					
FF-Shuly bailt	to 12.06"				
FSI-No blow					
Rec57) Feet of 65M		%gas	%oil	%water	%mu
Rec Feet of	Activities and the second seco	%gas	%oil	%water	%mu
Rec Feet of		%gas	%oil	%water	%mu
Rec Feet of		%gas	%oil	%water	%mu
RecFeet of		%gas	%oil	%water	%mu
Rec Total 50 BHT 976	Gravity	API RW	⊚*F C	hlorides	
(A) Initial Hydrostatic 1540	№ Test 1200	and the latest several process and personal process and personal process and personal persona	_ T-On Loca	tion <u>5/17</u>	2245
(B) First Initial Flow	☐ Jars		T-Started		2300
(C) First Final Flow 30	Safety Joint 7	5	T-Open		0112
(D) Initial Shut-In 275	☐ Circ Sub		T-Pulled _		035
(E) Second Initial Flow 27	☐ Hourly Standby_		T-Out	& 1 1	0,558
(F) Second Final Flow	Mileage 74	2=			paded
(G) Final Shut-In 405	☐ Sampler		5/19	C 1400	
(H) Final Hydrostatic 1471	☐ Straddle			ool	Sales In River Confe
The second state of the second	☐ Shale Packer			d Shale Packer_	
Initial Open 30	☐ Extra Packer			d Packer	
Initial Shut-In 20	☐ Extra Recorder			Copies	
Final Flow 45	☐ Day Standby			0	
Final Shut-In 60	☐ Accessibility			.423	
3 2 4 1 3 3 6 6	Sub Total 1423		_ MP/DST	Disc't	
Approved By		Representative	7	1 0 1	