KOLAR Document ID: 1420822

Confiden	tiality Requested	1:
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

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N 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: ()					
CONTRACTOR: License #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)				
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 Gas DH EOR	Elevation: Ground: Kelly Bushing:				
	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 SWD	Drilling Fluid Management Plan				
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)				
	Chloride content: ppm Fluid volume: bbls				
Commingled Permit #:	Dewatering method used:				
Dual Completion Permit #:					
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 TwpS. R East _ West				
Recompletion Date Reached TD Completion Date of 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 III Approved by: Date:					

KOLAR Document ID: 1420822

Operator Nar	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken		Y	′es 🗌 No		Log Formation (Top), Depth and Datum		Sample		
(Attach Additional Sheets)			⁄es 🗌 No	1	Name	Э		Тор	Datum
Samples Sent to Geological Survey Cores Taken Electric Log Run Geologist Report / Mud Logs List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Used		Type and Percent Additives			
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas Mcf Water Bbls. Gas-Oil Ratio			Gravity			
DISPOSITIO	N OF GAS:		METHOD OF		F COMPLETION:			PRODUCTION INTERVAL: Top Bottom	
Vented Sold Used on Lease (If vented, Submit ACO-18.)			Open Hole Perf.		Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)		Bollom		
Shots Per Perforation Perforation Foot Top Bottom		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)		
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	PRELLWITZ 1
Doc ID	1420822

All Electric Logs Run

Compensated Density Neutron
Micro Resistivity
Dual Induction
Borehole Compensated Sonic Log
Cement Bond Log

Form	ACO1 - Well Completion		
Operator	Farmer, John O., Inc.		
Well Name	PRELLWITZ 1		
Doc ID	1420822		

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	220	Common		3% C.C., 2% gel
Production	7.875	5.5	15.5	3110	Common	120	10% Salt, 5% Gilsonite



P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

	DF	RILLER'S L	.OG	
Operator: John O. Farmer, Inc.		Lic# 5135	Contractor:	Discovery Drilling Co., Inc. LIC#31548
370 West Wichita Ave				PO Box 763
Russell, KS 67665 +	2635			Hays, KS 67601
Lease: Prellwitz # 1			Location:	2150 FSL - 90 FEL
				SE/NE/NE/SE Section 16/ 16S/ 11E
				Lyon County, KS
				Lyon obanty, no
Loggers Total Depth: 3115'			API#15-	111-20,537-00-00
Rotary Total Depth: 3114	_		Elevation:	1389 GL - 1397 KB
Commenced: 5/15/2018	<u> </u>		Completed:	5/21/2018
Casing: 8 5/8" @ 22	20'W/150sks		Status:	Oil Well
5 1/2" @ 3	110'W/120sks			
	an and a state of the state			
	DEPT	HS & FORM (All from KE		
Surface, Sand & Shale	0'	-	Viola	2983'
Shale-Sand & Lime	429'	-	Simpson	3076'
Shale	745'	_	Granite	3107'
Lime & Shale	1033'	_	RTD	3114'
Mississippian	2346'			
Kinderhook	2759'	_		
Hunton	2901'	-		
STATE OF KANSAS))) ss				
COUNTY OF ELLIS		\bigcap		
Thomas H. Alm of Discove the above and foregoing is a true	ery Drilling state and correct log	s that to the to the to the to the above	best of his kno captioned we	wiedge
Subscribed and sworn to before	me on <u>5-3</u>	Thomas H. <u>31 - 18</u>	Alm	
My Commission expires:	28-18			
(Place stamp or seal below)		Notary Pub	in S	. Hoffman
STATE OF KANSAS MY APP. Exp. 6	JBLIC ANSAS			

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

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 70 No. Cell 785-324-1041 Sec. Twp. Range County State On Location Finish 5-16-18 16 Date 1XS 00 A Location Science 4 1010 Lease Well No. Owner scoperit To Quality Oilwell Cementing, Inc. Contractor You are hereby requested to rent cementing equipment and furnish rhaie cementer and helper to assist owner or contractor to do work as listed. Type Job Charge 7/4 220 Hole Size T.D. armer To DO Depth Csq. Street Tbg. Size Depth City State The above was done to satisfaction and supervision of owner agent or contractor. Tool Depth 5 Cement Amount Ordered 50 39 Cement Left in Csg Shoe Joint 600 5 Meas Line Displace EQUIPMENT Common Cementer No. Pumptrk Helper Poz. Mix : main No. Driver Bulktrk Driver Gel. Driver No. Bulktrk Calcium Driver **JOB SERVICES & REMARKS** Hulls Remarks: Salt 270 Rat Hole Flowseal Mouse Hole Kol-Seal Centralizers Mud CLR 48 **Baskets** CFL-117 or CD110 CAF 38 D/V or Port Collar Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets. **AFU Inserts** Float Shoe Latch Down 12.000 Pumptrk Charge Mileage Tax Discount X Signature Total Charge

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

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

Iome Offic	e P.O.	Box 3	2 Russell,	KS 6	7665
------------	--------	-------	------------	------	------

No. 771

Date 5-21-18 Sec.	Twp. Range	County State On Location	Finish
Date String 16		jon BS	1300 PM.
Prellu		ation Council Grove - 141 E to	KRd, 1/5
Lease Ho	Well No.	Owner Unto To Quality Oilwell Cementing, Inc.	
Contractor Discourry 22		You are hereby requested to rent cementing equipment	t and furnish
Type Job Long Sterrer	2001	cementer and helper to assist owner or contractor to de	o work as listed.
Hole Size 18.50 # APEW	T.D. 5114	To John O. Faimes	
	Depth 3113'	Street	
Tbg. Size	Depth	City State	
	Depth	The above was done to satisfaction and supervision of owner	agent or contractor.
Cement Left in Csg.	Shoe Joint da	Cement Amount Ordered 150 Common 10	
Meas Line EQUIPM	Displace 7312 BLS	Conterning and and they in	20 BLS KIL
1/ No Cementer		Common	
Pumptrk /6 Helper	auid	Poz. Mix	
Bulktrk /9 Driver	K.	Gel.	
Bulktrk P. W. Driver Dic	K	Calcium	a generation and the
JOB SERVICES	& REMARKS	Hulls	
Remarks:	*	Salt	and the second
Rat Hole		Flowseal	
Mouse Hole		Kol-Seal	a data a series
Centralizers 13579		Mud CLR 48	
Baskets	<u></u>	CFL-117 or CD110 CAF 38	
DN or Port Collar Dipe on	bittom break	Sand	
Circulation punip	Soo ocil mad Charle	Handling	
Primp to BUS KCL'	plus Rothole	Mileage	
Lot 305x, Hook.	to SUL Casino	FLOAT EQUIPMENT	
+ (mix 120sx Come	D Shit daw	Guide Shoe	· · ·
wash pump + lines	Released Ding	Centralizer 6	
+ Displaced ful 73	Bis of the.	Baskets	
Keleand + Held.		AFU Inserts	· · · · ·
Lift Dressure 70	5 H	Float Shoe	
Land plug to 130	DH HO	Latch Down	
		Rotatines head	
	CA MAR	A CALL AND A	
		Pumptrk Charge	
and the second		Mileage	
		Tax	·····
and the second second	A	Discount	
X Signature	L.	Total Charge	
(



AUSTIN B. KLAUS



Cell 785.650.3629 Work 785.483.3145 Ext 225

PO BOX 352 Russell, KS 67665 austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name:	Prellwitz #1		
Location:	Lyon County		
License Number:	API #15-111-20537-00-0	00 Region:	Kansas
Spud Date:	5/15/2018	Drilling Completed:	5/20/2018
Surface Coordinates:	Section 16, Township 1	16 South, Range 11 East	
	2,150' FSL & 90' FEL	-	
Bottom Hole	Vertical well w/ minima	al deviation, same as above	
Coordinates:			
Ground Elevation (ft):	1,389	K.B. Elevation (ft): 1,397	
Logged Interval (ft):	2,300 To: RTD	Total Depth (ft): 3,114'	
Formation:	Miss-Precambrian		
Type of Drilling Fluid:	Chemical (Mud Co.)		
	Printed by	/ STRIP.LOG from WellSight Systems 1-800-4	47-1534 www.WellSight.com

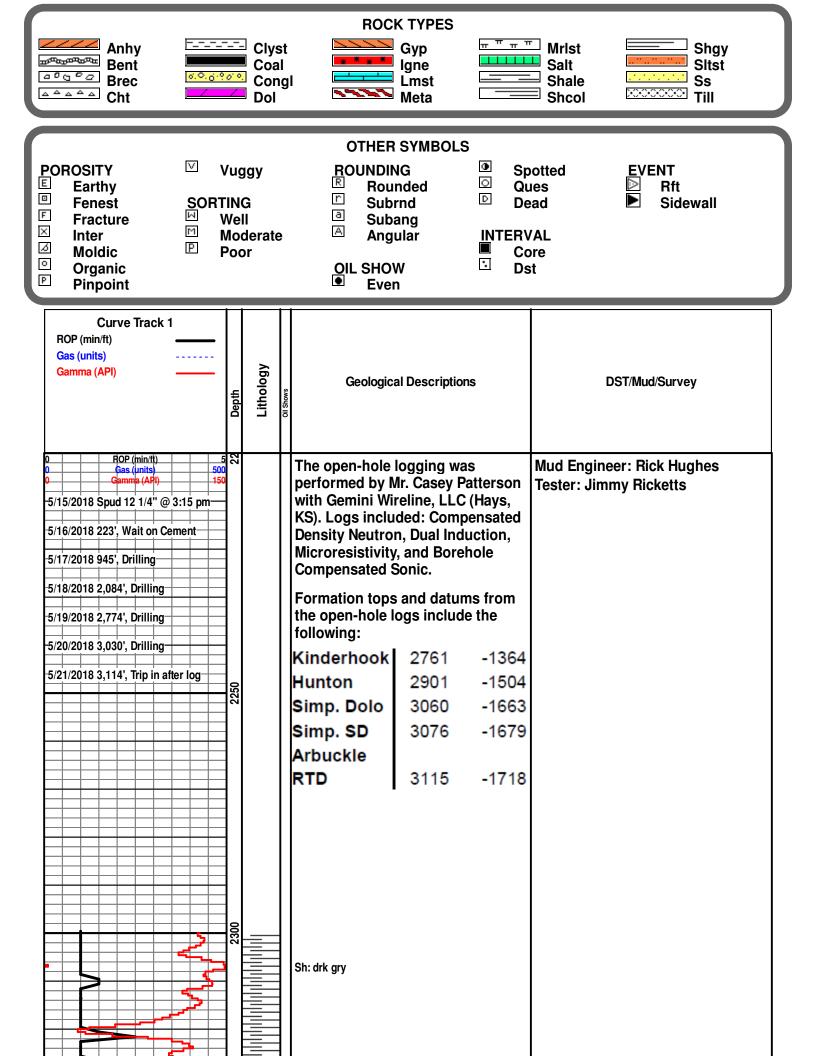
OPERATOR

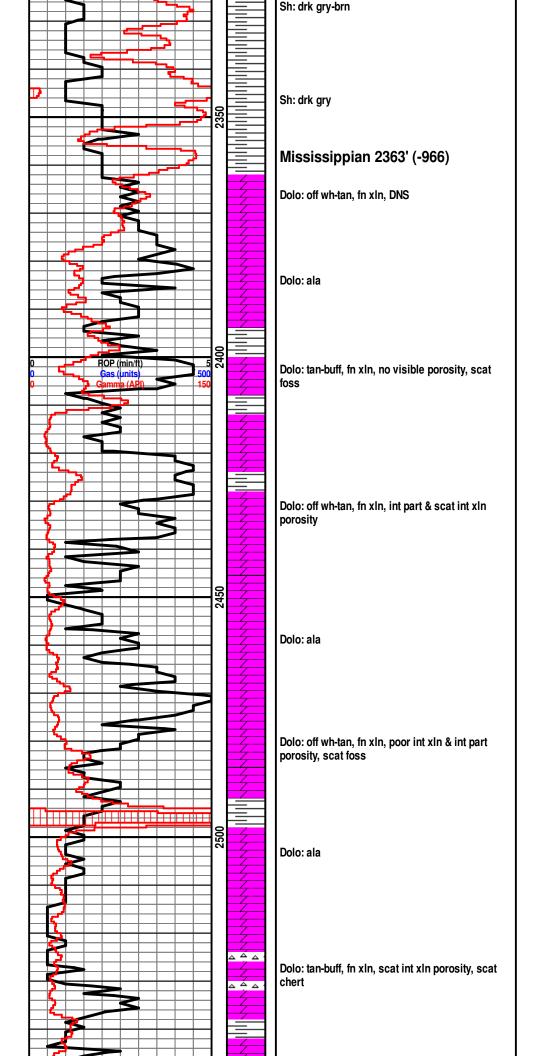
Company: John O. Farmer, Inc. Address: 370 W. Wichita Ave. Russell, KS 67665

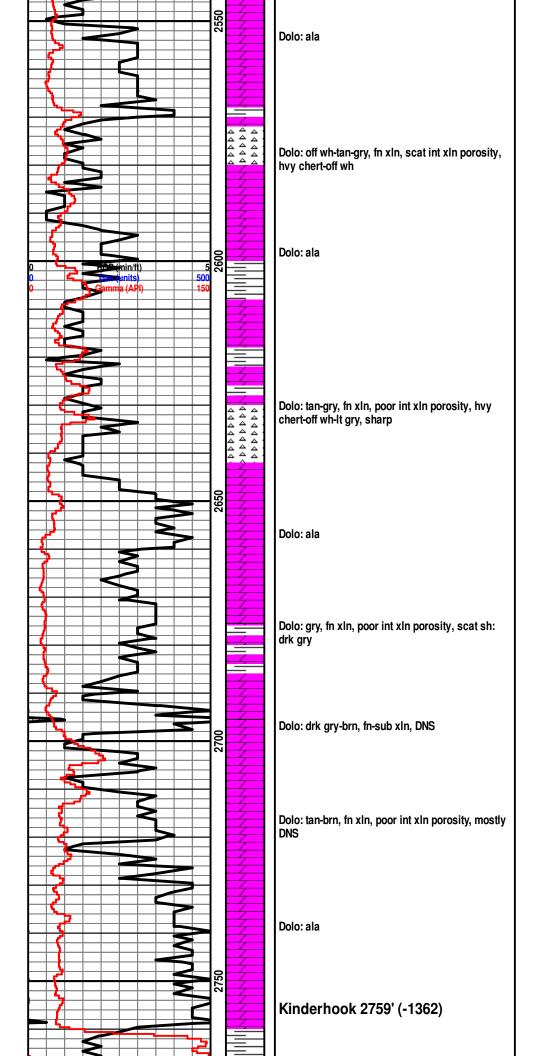
Comments

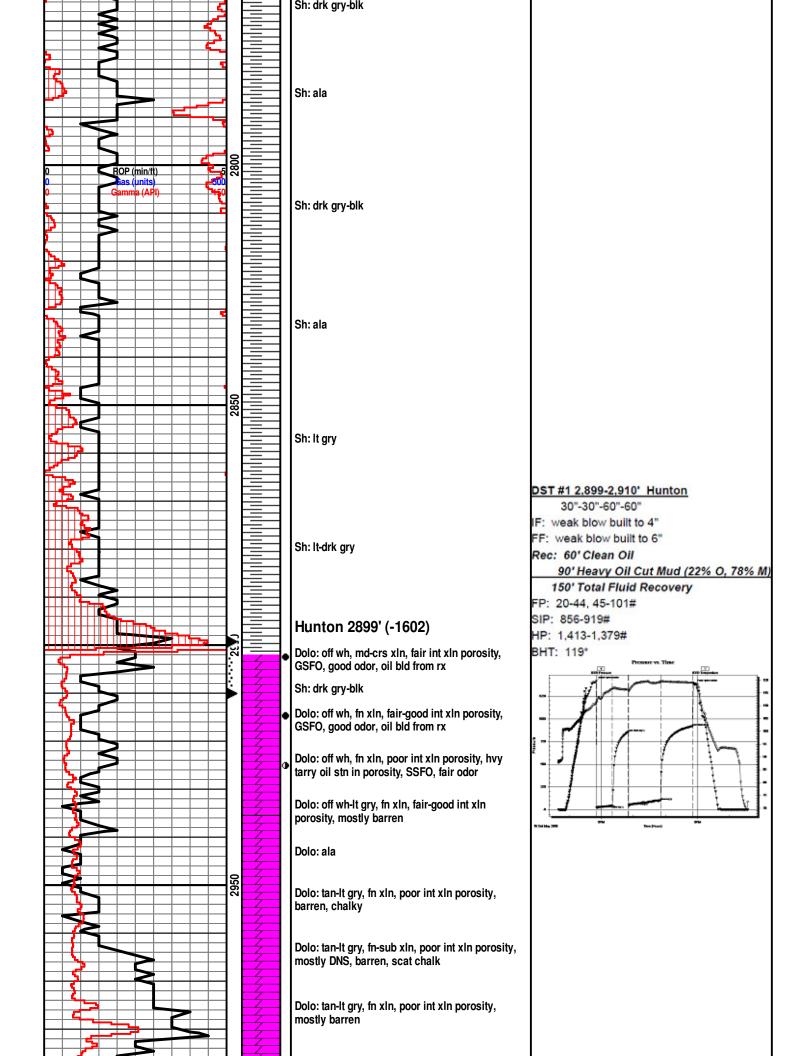
The Prellwitz #1 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Terry Wickham).

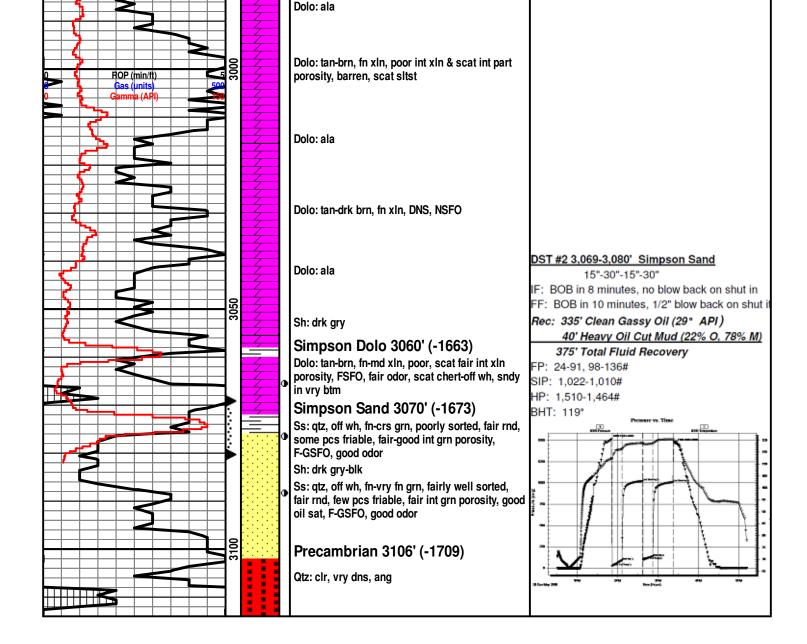
The location for the Prellwitz #1 was discovered via 3D seismic survey. Rock samples were gathered and evaluated from 2,300' - 3,114'. Oil shows were encountered in the Hunton & Simpson. Structurally, the Hunton top was picked 7' high to the comparison well, Day #1 (Midge Oil Co. - 1952). Structural thinning occurred through the Hunton, which resulted in a Simpson Sand picked 8' high to the comparison well. The precambrian section was encountered 30' below the Simpson Sand and Arbuckle was absent. After evaluation of all oil shows, DST results, and electric logs, it was decided that 5 1/2" production casing be set to further evaluate the Prellwitz #1 well on 5/21/2018.













DRILL STEM TEST REPORT

Prepared For:

John O. Farmer, Inc.

370 West Wichita Ave Russell, KS 67665-2635

ATTN: John Farmer/Austin K

Prellwitz #1

16-16S-11E Lyon,KS

 Start Date:
 2018.05.19 @ 16:40:00

 End Date:
 2018.05.19 @ 22:33:50

 Job Ticket #:
 63393
 DST #: 1

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

	DRILL STEM TES	ST REP	ORT		
	John O. Farmer, Inc.		16-16S-	11E Lyon, P	<s< td=""></s<>
ESTING , INC	370 West Wichita Ave Russell, KS 67665-2635		Prellwi Job Ticke		DST#:1
	ATTN: John Farmer/Austin K			: 2018.05.19	
GENERAL INFORMATION:					
Formation:HuntonDeviated:NoWhipstock:Time Tool Opened:17:51:30Time Test Ended:22:33:50	ft (KB)		Test Type Tester: Unit No:	e: Conventio Jimmy Ric 80	onal Bottom Hole (Initial) :ketts
Interval:2899.00 ft (KB) To2Total Depth:2910.00 ft (KB) (THole Diameter:7.88 inches Hol				e Elevations: KB to GR/CF:	1397.00 ft (KB) 1389.00 ft (CF) 8.00 ft
Serial #: 8369 Outside					
Press@RunDepth: 100.56 psig Start Date: 2018.05.19 Start Time: 16:40:01	 2900.00 ft (KB) End Date: End Time: 	2018.05.19 22:33:50	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2018.05.19 19 @ 17:50:40 19 @ 20:54:40
Pressure vs.			PRES	SURE SUM	MARY
	Sime 539 Ionpenare 141 iyan dan 142 (2010)	Time	Pressure Ter	np Annota	
	115	(Min.) 0		1.08 Initial Hy	dro-static
	110	1		1.39 Open To 6.58 Shut-In(o Flow (1) 1)
		61	856.35 116	6.32 End Shu	ut-In(1)
		61 121		5.90 Open To	
		121 181		9.17 Shut-In(3 3.99 End Shu	-
	- 85 - 86 - 80 - 75 - 75 - 79 - 79 - 79	184	1379.27 118	3.51 Final Hy	dro-static
19 Sad May 2016 Time (Hous) Recovery				Gas Rates	
Length (ft) Description	Volume (bbl)		CI		essure (psig) Gas Rate (Mcf/d)
90.00 Heavy oil cut mud 22% (ļ		
60.00 Clean oil 100% O	0.42				

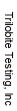
	DRILL STEM TES	ST REP	ORT			
	John O. Farmer, Inc.		16-16S-1	1E Lyon,K	S	
ESTING , II			Prellwitz	z #1		
	Russell, KS 67665-2635		Job Ticket:	63393	DST	#:1
	ATTN: John Farmer/Austin K		Test Start:	2018.05.19	@ 16:40:00)
GENERAL INFORMATION:						
Formation:HuntonDeviated:NoWhipstorTime Tool Opened:17:51:30Time Test Ended:22:33:50	: ft (KB)		Test Type: Tester: Unit No:	Convention Jimmy Rick 80		Hole (Initial)
Total Depth: 2910.00 ft (KB)	2910.00 ft (KB) (TVD) (TVD) lole Condition: Fair			Elevations:	1389.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8846InsidePress@RunDepth:psStart Date:2018.05.*Start Time:16:40:0		2018.05.19 22:33:30	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000. 1899.12.	00 psig 30
Pressure			PRESS		MARY	
500 Pesare 500 Pe		Time (Min.)	Pressure Tem (psig) (deg		tion	
Recove	У		(Gas Rates		
Length (ft) Description	Volume (bbl)		Cho	ke (inches) Pres	sure (psig)	Gas Rate (Mcf/d)
90.00 Heavy oil cut mud 22 60.00 Clean oil 100% O	6 O & 78% M 0.64 0.42					
	0.42					
Trilobite Testing, Inc	Ref. No: 63393			ed: 2018.05.2		

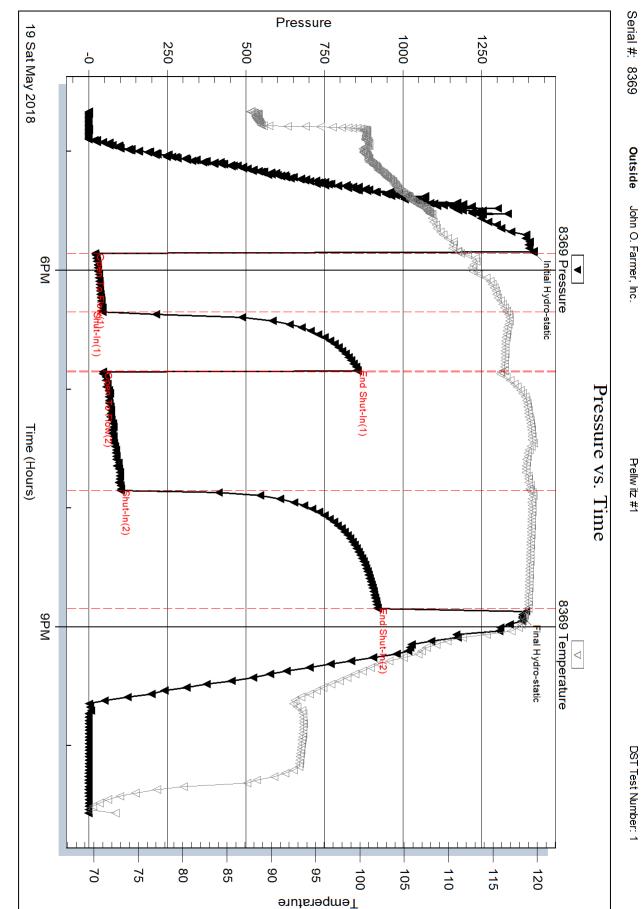
			DRI	LL STE	M TEST	REPOR	RT	TOOL DIAGRA
	RILOE	SIIE	John O.	Farmer, Inc.			16-16S-11E Lyon,K	S
	 ES7	TING , INC	0/0/10	st Wichita Av			Prellwitz #1	
			Russell	, KS 67665-2	635		Job Ticket: 63393	DST#: 1
			ATTN:	John Farmer	/Austin K		Test Start: 2018.05.19 (፬ 16:40:00
Tool Informatio	on		ļ					
Drill Pipe:	Length:	2661.00 ft	Diameter:	3.80 inc	ches Volume:	37.33 bbl	Tool Weight:	1900.00 lb
Heavy Wt. Pipe:	Length:	249.00 ft	Diameter:	2.70 inc	ches Volume:	1.76 bbl	Weight set on Packer	: 20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inc	ches Volume:	0.00 bbl	Weight to Pull Loose:	49000.00 lb
Drill Pipe Above k	KB.	31.00 ft			Total Volume:	39.09 bbl	Tool Chased	2.00 ft
Depth to Top Pac		2899.00 ft					String Weight: Initial	44000.00 lb
Depth to Bottom F		2033.00 ft					Final	45000.00 lb
Interval between		11.00 ft						
Tool Length:		31.00 ft						
Number of Packe	ers:	2	Diameter:	6.75 inc	ches			
Tool Comments:								
Tool Descriptio	on	Lei	ngth (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
							Longino	
-	b		1.00			2880.00		
Change Over Sul	b		1.00 5.00					
Change Over Sul Shut In Tool	b					2880.00		
Change Over Sul Shut In Tool Hydraulic tool	b		5.00			2880.00 2885.00	20.00	Bottom Of Top Packe
Change Over Sul Shut In Tool Hydraulic tool Packer	b		5.00 5.00			2880.00 2885.00 2890.00		Bottom Of Top Packe
Change Over Sul Shut In Tool Hydraulic tool Packer Packer	b		5.00 5.00 4.00			2880.00 2885.00 2890.00 2894.00		Bottom Of Top Packe
Change Over Sul Shut In Tool Hydraulic tool Packer Packer Stubb	b		5.00 5.00 4.00 5.00	8369	Outside	2880.00 2885.00 2890.00 2894.00 2899.00		Bottom Of Top Packe
Change Over Sul Shut In Tool Hydraulic tool Packer Packer Stubb Recorder Recorder	b		5.00 5.00 4.00 5.00 1.00	8369 8846	Outside Inside	2880.00 2885.00 2890.00 2894.00 2899.00 2900.00		Bottom Of Top Packe
Change Over Sul Shut In Tool Hydraulic tool Packer Packer Stubb Recorder	b		5.00 5.00 4.00 5.00 1.00 0.00			2880.00 2885.00 2890.00 2894.00 2899.00 2900.00 2900.00		Bottom Of Top Packe
Change Over Sul Shut In Tool Hydraulic tool Packer Packer Stubb Recorder Recorder	b		5.00 5.00 4.00 5.00 1.00 0.00 0.00			2880.00 2885.00 2890.00 2894.00 2899.00 2900.00 2900.00 2900.00	20.00	Bottom Of Top Packe

(IN T		TE	DRI	LL STEM TEST	REPOR	Г		FLUID SUMMAR
RILOBITE			John C). Farmer, Inc.		16-16S-11	E Lyon,KS	
		NG , INC.	370 West Wichita Ave Russell, KS 67665-2635		Prellwitz Job Ticket: 6		DST#:1	
			ATTN:	John Farmer/Austin K		Test Start: 2	2018.05.19 @ 16	6:40:00
lud and Cus	hion Info	rmation						
lud Type: Gel	Chem			Cushion Type:			Oil API:	17 deg API
lud Weight:	9.00 lb	/gal		Cushion Length:		ft	Water Salinity:	ppm
iscosity:	48.00 se	-		Cushion Volume:		bbl	,	
/ater Loss:	7.98 in			Gas Cushion Type:				
esistivity:	ol	hm.m		Gas Cushion Press	ure:	psig		
alinity:	560.00 p	pm				1 3		
ilter Cake:		ches						
ecovery Inf	ormation							
	r			Recovery Table			_	
		Lengt ft	h	Description		Volume bbl		
			90.00	Heavy oil cut mud 22% O &	k 78% M	0.63	7	
	ļ		60.00	Clean oil 100% O		0.42	5	
	Tota	al Length:	150	0.00 ft Total Volume:	1.062 bbl			
		n Fluid Samp		Num Gas Bombs	: 0	Serial #	<u>t:</u>	
	Lab	oratory Nam	e:	Laboratory Loca	tion:			
	Rec	overy Comm	nents:					

Printed: 2018.05.22 @ 09:52:38

Ref. No: 63393





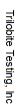
Prellw itz #1

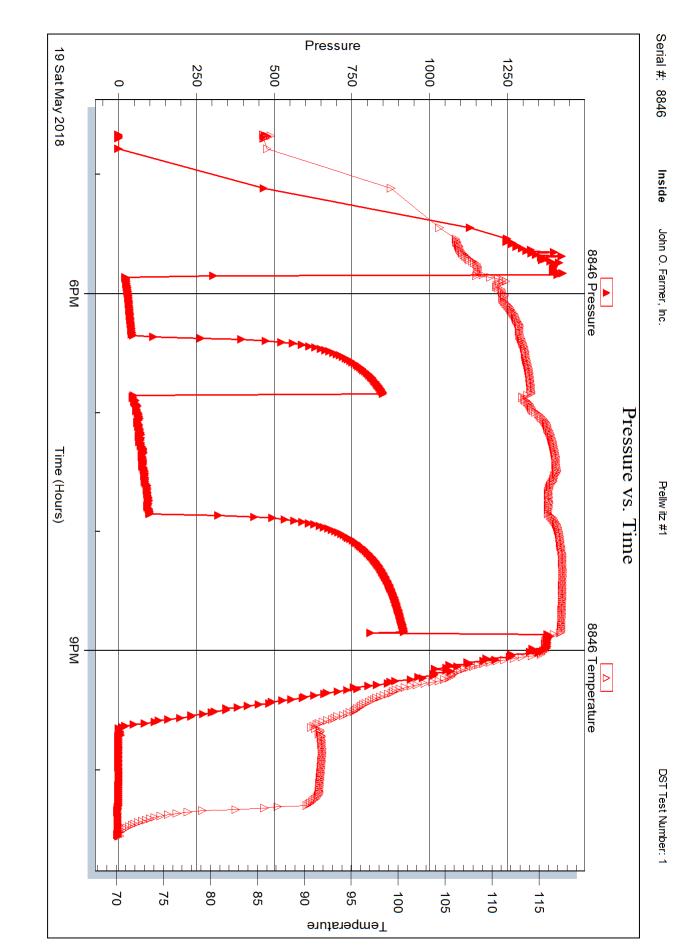
DST Test Number: 1

Serial #: 8369 Outside

Printed: 2018.05.22 @ 09:52:38

Ref. No: 63393







DRILL STEM TEST REPORT

Prepared For:

John O. Farmer, Inc.

370 West Wichita Ave Russell, KS 67665-2635

ATTN: John Farmer/Austin K

Prellwitz #1

16-16S-11E Lyon,KS

 Start Date:
 2018.05.20 @ 12:31:00

 End Date:
 2018.05.20 @ 17:12:20

 Job Ticket #:
 63394
 DST #:
 2

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

(Th)		DRILL STEM TES	TREP	ORT			
	RILOBITE	John O. Farmer, Inc.		16-16S-1	1E Lyon,	,KS	
	ESTING , INC.	370 West Wichita Ave Russell, KS 67665-2635		Prellwit	z #1		
				Job Ticket	63394	DST#	#:2
		ATTN: John Farmer/Austin K		Test Start:	2018.05.2	0 @ 12:31:00	
GENERAL I	NFORMATION:						
Formation: Deviated: Time Tool Oper Time Test Ende		ft (KB)		Test Type Tester: Unit No:	Convent Jimmy R 80	ional Bottom H icketts	Hole (Initial)
Interval: Total Depth: Hole Diameter:	3069.00 ft (KB) To 30 3080.00 ft (KB) (T\ 7.88 inchesHole				Elevations	1389.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 83 Press@RunDe Start Date: Start Time: TEST COMM	epth: 136.21 psig 2018.05.20 12:31:01 MENT: IF - Weak blow b	 3070.00 ft (KB) End Date: End Time: building to strong blow 8 minutes building to strong blow 10 minutes 	2018.05.20 17:12:20	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.0 2018.05.2 .20 @ 13:51:0 .20 @ 15:26:2	00
1500	FS - 1/2" blow ba		Time (Min.)	PRESS Pressure Tem (psig) (deg		MMARY tation	
1220 			0 1 16 47 47 62 92		17 Open 27 Shut-Ir 78 End Sh 54 Open 64 Shut-Ir	nut-In(1) Fo Flow (2)	
500 200 200 200 200 200 200 200 200 200	274 374 The (Hard)	- 75	96	1464.44 119		ydro-static	
	Recovery			• •	Gas Rate	s	
Length (ft)	Description	Volume (bbl)		Ch	oke (inches) P	ressure (psig)	Gas Rate (Mcf/d)
40.00	HOCM 22% O 78% M	0.28			I		
335.00	CO 100% O	3.25					
0.00	>60' GIP	0.00					
Trilobite Te		Ref No: 63394			ed: 2018 0		

		RILL STEM	TEST REP	ORT		
	TE VG , INC. 370	0. Farmer, Inc.		16-16S-1	1E Lyon,K	S
I ESTI		West Wichita Ave sell, KS 67665-2635		Prellwitz		
		N: John Farmer/Aus	tin K	Job Ticket:		DST#:2
		N. JOHN Farmer/Aus	Sun K	Test Start.	2018.05.20 (@ 12.31.00
GENERAL INFORMATIO						
Formation: Simpson Deviated: No W Time Tool Opened: 13:52:00 Time Test Ended: 17:12:20	Sand /hipstock:	ft (KB)		Test Type: Tester: Unit No:	Conventior Jimmy Rick 80	nal Bottom Hole (Initial) ætts
Total Depth: 3080.00	(B) To 3080.00 ft (KB) (TVD) inches Hole Condi				Elevations: B to GR/CF:	1397.00 ft (KB) 1389.00 ft (CF) 8.00 ft
Serial #: 8846 Ins	ide					
Press@RunDepth: Start Date: 2 Start Time:	psig @ 018.05.20 12:31:01	3070.00 ft (KB) End Date: End Time:	2018.05.20 17:12:38	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 1899.12.30
FF - \	Veak blow building 1/2" blow back	to strong blow 10 m				
	Veak blow building					
FF - \	Veak blow building			PRESS Pressure Tem (psig) (deg		
FF - V FS -	Veak blow building 1/2" blow back Pressure vs. Time	to strong blow 10 m	Time (Min.)	Pressure Tem	D Annotat	
FF - V FS -	Veak blow building 1/2" blow back Pressure vs. Time	to strong blow 10 m	Time (Min.) 105 105 105 105 105 105 105 105 105 105	Pressure Tem (psig) (deg	D Annotat	
FF - V FS -	Veak blow building 1/2" blow back Pressure vs. Time	to strong blow 10 m	Time (Min.) 105 105 105 105 105 105 105 105 105 105	Pressure Tem (psig) (deg	Gas Rates	
FF - V FS -	Neak blow building 1/2" blow back Pressure vs. Time	to strong blow 10 m	Time (Min.) 105 105 105 105 105 105 105 105 105 105	Pressure Tem (psig) (deg	Gas Rates	tion
FF - V FS -	Neak blow building 1/2" blow back Pressure vs. Time	to strong blow 10 m	Time (Min.) 105 105 105 105 105 105 105 105 105 105	Pressure Tem (psig) (deg	Gas Rates	tion
FF - V FS - 200 - - - -	Neak blow building 1/2" blow back Pressure vs. Time	to strong blow 10 m	Time (Min.) 105 105 105 105 105 105 105 105 105 105	Pressure Tem (psig) (deg	Gas Rates	tion
FF - V FS -	Neak blow building 1/2" blow back Pressure vs. Time	to strong blow 10 m	Time (Min.) 105 105 105 105 105 105 105 105 105 105	Pressure Tem (psig) (deg	Gas Rates	tion

			DRI	LL STE	M TEST	REPOR	RT	TOOL DIAGRA
	RILOE	SIIE	John O.	. Farmer, Inc.			16-16S-11E Lyon,K	S
	 ES7	TING , INC	010110	est Wichita Av			Prellwitz #1	
			Russell	, KS 67665-2	635		Job Ticket: 63394	DST#:2
			ATTN:	John Farmer	/Austin K		Test Start: 2018.05.20 (፬ 12:31:00
Tool Informatio	on		ļ					
Drill Pipe:	Length:	2817.00 ft	Diameter:	3.80 ind	ches Volume:	39.52 bbl	Tool Weight:	1900.00 lb
Heavy Wt. Pipe:	Length:	249.00 ft	Diameter:	2.70 ind	ches Volume:	1.76 bbl	Weight set on Packer	: 22000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inc	ches Volume:	0.00 bbl	Weight to Pull Loose:	53000.00 lb
Drill Pipe Above k	KB.	17.00 ft			Total Volume:	41.28 bbl		1.00 ft
Depth to Top Pac		3069.00 ft					String Weight: Initial	46000.00 lb
Depth to Bottom F		ft					Final	47000.00 lb
Interval between		11.00 ft						
Tool Length:		31.00 ft						
Number of Packe	ers:	2	Diameter:	6.75 inc	ches			
Tool Comments:								
Tool Descriptic	on	Le	ngth (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
-		Le	ngth (ft) 1.00	Serial No.	Position	Depth (ft) 3050.00	Accum. Lengths	
Change Over Sub		Le	• • •	Serial No.	Position	,	Accum. Lengths	
Change Over Sub Shut In Tool		Le	1.00	Serial No.	Position	3050.00	Accum. Lengths	
Change Over Sul Shut In Tool Hydraulic tool		Le	1.00 5.00	Serial No.	Position	3050.00 3055.00	Accum. Lengths	Bottom Of Top Packe
Change Over Sut Shut In Tool Hydraulic tool Packer		Le	1.00 5.00 5.00	Serial No.	Position	3050.00 3055.00 3060.00		Bottom Of Top Packe
Change Over Sut Shut In Tool Hydraulic tool Packer Packer		Le	1.00 5.00 5.00 4.00	Serial No.	Position	3050.00 3055.00 3060.00 3064.00		Bottom Of Top Packe
Change Over Sut Shut In Tool Hydraulic tool Packer Packer Stubb		Le	1.00 5.00 5.00 4.00 5.00	Serial No. 8369	Position	3050.00 3055.00 3060.00 3064.00 3069.00		Bottom Of Top Packe
Change Over Sut Shut In Tool Hydraulic tool Packer Packer Stubb Recorder		Le	1.00 5.00 5.00 4.00 5.00 1.00			3050.00 3055.00 3060.00 3064.00 3069.00 3070.00		Bottom Of Top Packe
Change Over Sut Shut In Tool Hydraulic tool Packer Packer Stubb Recorder Recorder		Le	1.00 5.00 5.00 4.00 5.00 1.00 0.00	8369	Outside	3050.00 3055.00 3060.00 3064.00 3069.00 3070.00 3070.00		Bottom Of Top Packe
Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Packer Packer Stubb Recorder Recorder Perforations Bullnose		Le	1.00 5.00 5.00 4.00 5.00 1.00 0.00 0.00	8369	Outside	3050.00 3055.00 3060.00 3064.00 3069.00 3070.00 3070.00 3070.00	20.00	Bottom Of Top Packe

RILOBITE			LL STEM TEST REPO	KI	F	LUID SUMMAR
		John C). Farmer, Inc.	16-16S-1	1E Lyon,KS	
			est Wichita Ave	Prellwit	z #1	
		Russell, KS 67665-2635		Job Ticket:	63394	DST#:2
			John Farmer/Austin K	Test Start:	2018.05.20 @ 12	:31:00
Aud and Cus	hion Information					
• •	Chem		Cushion Type:		Oil API:	28.6 deg API
/ud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
'iscosity:	50.00 sec/qt		Cushion Volume:	bbl		
/ater Loss:	7.98 in³		Gas Cushion Type:			
esistivity:	ohm.m		Gas Cushion Pressure:	psig		
alinity: ilter Cake:	790.00 ppm inches					
ecovery Inf	ormation					
			Recovery Table		_	
	Lengt ft	h	Description	Volume bbl		
		40.00	HOCM 22% O 78% M	0.2		
		335.00	CO 100% O	3.2		
		0.00	>60' GIP	0.0	00	
	Total Length:	375	0.00 ft Total Volume: 3.531	bbl		
	Num Fluid Samp	les: 0	Num Gas Bombs: 0	Serial	#:	
	Laboratory Nam	ie:	Laboratory Location:			
	Recovery Comn	nents:				

Printed: 2018.05.22 @ 09:34:16

65

70

75

80

85

90

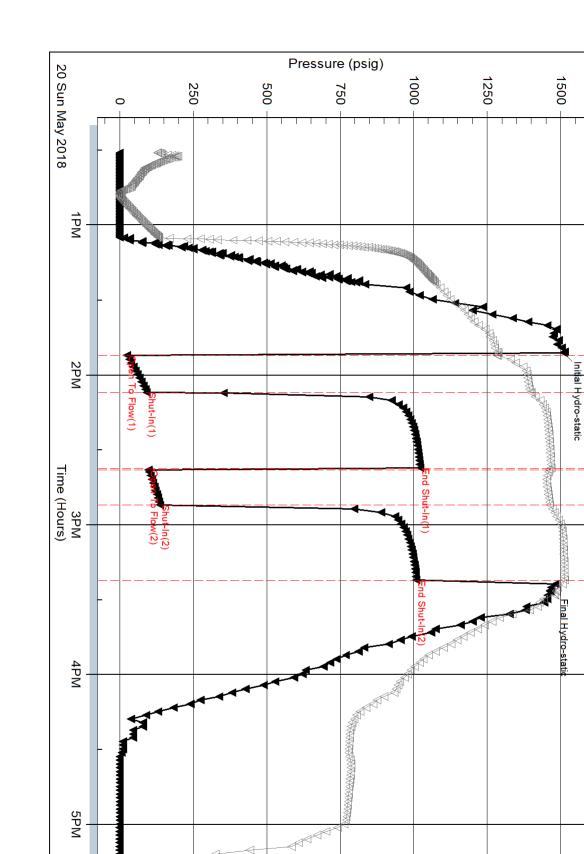
95

Temperature (deg F)

100

Ref. No: 63394

Trilobite Testing, Inc



Serial #: 8369 Outside John O. Farmer, Inc.

₹ 8369 Pressure

Prellw itz #1

Pressure vs. Time

8369 Temperature

110

115

120

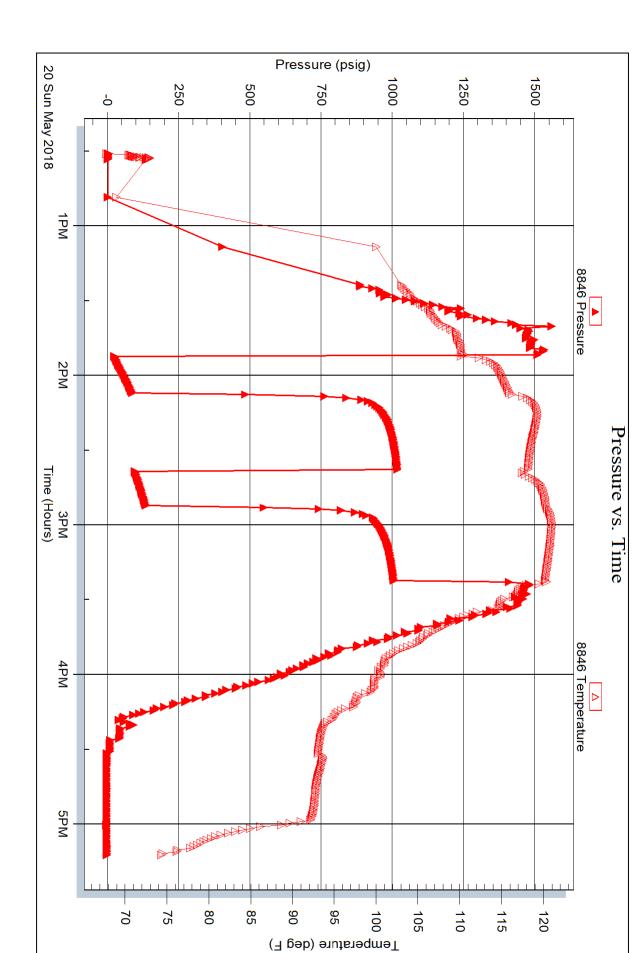
105

DST Test Number: 2

Printed: 2018.05.22 @ 09:34:16

Ref. No: 63394

Trilobite Testing, Inc



Inside John O. Farmer, Inc.

Serial #: 8846

Prellw itz #1

DST Test Number: 2

4/10 RILOBITE ESTING INC. 1515 Commerce Parkway	· Hays, Kansas 67601	Test Ticket NO. 63393
Well Name & No. <u>Prellwitz</u> #1 Company John O. Farmer, Im Address <u>370 West Wichite</u> Co. Rep / Geo. John Farmer / Aust Location: Sec. <u>16</u> Twp <u>165</u> Interval Tested <u>2899 - 2910</u> Anchor Length <u>11</u> Top Packer Depth <u>2899</u> Bottom Packer Depth <u>2899</u> Total Depth <u>2999</u> Bow Description <u>FF-Weak How</u> FF-Wenk How building	Avenue, Russell in <u>Elans</u> <u>Rig Discou</u> <u>Rge. IIE</u> <u>co. Lyon</u> <u>Zone Tested</u> <u>Hunton</u> <u>Drill Pipe Run</u> <u>3661</u> <u>Drill Collars Run</u> <u>O</u> <u>Wt. Pipe Run</u> <u>249</u> <u>Chlorides</u> <u>560</u> ppm Sy <u>Duilding</u> to <u>4</u> in	
(A) Initial Hydrostatic 1413 (B) First Initial Flow 20 (C) First Final Flow 44		T-On Location 1530 T-Started 1640 T-Open 1751
(D) Initial Shut-In 856 (E) Second Initial Flow 45 (F) Second Final Flow 101 (G) Final Shut-In 919 (H) Final Hydrostatic 1379 Initial Open 30 Final Flow 60 Final Shut-In 60	Circ Sub Hourly Standby Mileage 230 Sampler Straddle Shale Packer 250 Extra Packer Extra Recorder Day Standby Accessibility Sub Total 1530	T-Pulled 205 T-Out 2200 Comments

Trilobite 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 softered 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 hele 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. 63394

Well Name & No. Prellwitz		2 Date 5-20-16
Company John O Farmer,		<u>397 кв. 1389 gl</u>
Address 370 West Wi	chita Avenue, Russe	11, KS 67665-2635
Co. Rep/Geo. John Farmer/A	astin Klaus Rig Disc.	overy Prilling #2
Location: Sec. 16 Twp	S Rge. 11 E Co. Lyon	state <u>KS</u>
Interval Tested 3069-3080	Zone Tested Simpson	
Anchor Length I (Drill Pipe Run 2817	Mud Wt. 9. 2
Top Packer Depth 3064	Drill Collars Run	Vis So
Bottom Packer Depth 3069	Wt. Pipe Run 249	WL 8.0
Total Depth 30 80	Chlorides 790 ppm	System LCM
Blow Description IF - Weak	blow building to stoo	ng blow 8 mins into IFI
FF- Weak blow bai	Iding to strong blow	10 mins into FFA
	ack during FSP	All and a second second
Rec. 335 Feet of Clean O.		06 %oil %water %muc
Rec 40 Feet of Heavy O:	I cut mud %gas 2	2 %oil %water 78%muc
Rec Feet of	%gas	%oil %water %muc
Rec Feet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Total 375 BHT 120	5 Gravity 28.6 API RW @	°F Chloridesppn
(A) Initial Hydrostatic1510	1050	T-On Location 1200
(B) First Initial Flow 2 4	🖸 Jars	T-Started 1231
(C) First Final Flow9/	Safety Joint	T-Open 13.52
(D) Initial Shut-In [0]2	Circ Sub	T-Pulled 1522
(E) Second Initial Flow 98	O Hourly Standby	T-Out 700
(F) Second Final Flow [36	E Mileage 320rt RT 30	Comments
(G) Final Shut-In [010	O Sampler	
(H) Final Hydrostatic [464	Straddle	Ruined Shale Packer
	Shale Packer250	Ruined Packer
Initial Open 15	C Extra Packer	Extra Copies
Initial Shut-In30	C Extra Recorder	Sub Total 0
Final Flow 15	Day Standby	Total0
Final Shut-In 36		MP/DST Disc't
(.) 1)	Sub Total 1620	$\wedge \downarrow \land$
Approved By Mustin 15	Can Our Representative	9. min this th

Trilobite 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.