KOLAR Document ID: 1777620

Confiden	tiality 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	Ξ

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / 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 Twp S. R East _ West
Recompletion Date Reached 1D 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: 1777620

Operator Name:	Lease Name: Well #:
Sec TwpS. 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		۱ []	⁄es 🗌 No		L	.og Fo	ormation (To	p), Depth an	d Datum	Sample
(Attach Additional Sh					Nam	е			Тор	Datum
Samples Sent to Geolo Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:			∕es ∐No ∕es ∏No ∕es ∏No ∕es ∏No							
		Rep	CASING ort all strings set-o	RECORD [Ne			c.		
Purpose of String	Size Hole Drilled		ze Casing et (In O.D.)	Weight Lbs. / Ft.		Settir Dept		Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING	/ SQL	JEEZE REG	CORD			
Purpose: Depth Perforate Top Bottom Protect Casing		Тур	Type of Cement # Sacks I		ed	d Type and Percent Additives				
Plug Back TD Plug Off Zone										
 Did you perform a hydra Does the volume of the Was the hydraulic fractular 	total base fluid of the	hydraulic fr	acturing treatment		-	ons?	res	No <i>(If No, ski</i> p	o questions 2 an o question 3) out Page Three (
Date of first Production/Inj Injection:	ection or Resumed Pr	oduction/	Producing Meth	nod:		Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er	Bbls.	G	as-Oil Ratio	Gravity
DISPOSITION			_						PRODUCTIC Top	ON INTERVAL: Bottom
Vented Sold	Used on Lease		Open Hole			Comp. ACO-5)	Comming (Submit AC			
		erforation Bridge Plug Bridge Plug Acid, Fracture, Shot, Cementing Squeeze Record Bottom Type Set At <i>(Amount and Kind of Material Used)</i>								
TUBING RECORD:	Size:	Set At:		Packer At:						

Form	ACO1 - Well Completion	
Operator	Quail Oil & Gas, LC	
Well Name	PANEK RANCH 1-14	
Doc ID	1777620	

All Electric Logs Run

Micro	
Neutron	
Sonic	
Dual Induction	

Form	ACO1 - Well Completion	
Operator	Quail Oil & Gas, LC	
Well Name	PANEK RANCH 1-14	
Doc ID	1777620	

Tops

Name	Тор	Datum
Onega Shale	2660	869
Stotler LM	2843	1052
Heebner Shale	3608	1817
Brown LM	3778	1987
Stark Shale	4096	2305
B/KC	4202	2411
Viola	4569	2778
Arbuckle	4714	2923

Form	ACO1 - Well Completion	
Operator	Quail Oil & Gas, LC	
Well Name	PANEK RANCH 1-14	
Doc ID	1777620	

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.250	8.625	23	305	Common	3%CC, 2% gel

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-786-6992

Fax 620-672-3663

Todd's Cell 620-388-4967 Brady's Cell 620-727-6964 8463

Finish On Location State Sec. Twp. Range County 5. Date 12 Location Well No Lease Owner Contractor To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish Type Job cementer and helper to assist owner or contractor to do work as listed. T.D. Hole Size Charge To Depth Csg. Depth Street Tbg. Size Depth City State Tool The above was done to satisfaction and supervision of owner agent or contractor. Shoe Joint Cement Left in Csg Cement Amount Ordered 1 15 Displace Meas Line EQUIPMENT No Common Pumptrk No Poz. Mix Bulktrk No Gel. 11 Bulktrk No Calcium 25 Pickup **JOB SERVICES & REMARKS** Hulls Salt 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 241 Mileage FLOAT EQUIPMENT **Guide Shoe** Centralizer **Baskets AFU Inserts** Float Shoe Latch Down Pumptrk Charge < Mileage Tax Discount **Total Charge** Signature

Quality Well Service, Inc.

PO Box 468 Pratt, KS 67124

Bill To

Quail Oil & Gas 525 Industrial Dr. P.O. Box K Garden City, KS 67846-9643

	P.O. No.	Terms		Le	ease Name
				Pane	k Ranch #1-14
Description		Qty	Ra	ite	Amount
Common Poz Gel Flo-Seal Plug/Pump Charge Handling .10 * sacks * miles Service Supervisor LMV Heavy Equipment Mileage Customer Discount Discount Expires after30 days from the date of the invoice Panek Ranch #1-14 Pratt Co.		120 80 688 50 1 207 5,175 1 25 50		16.75 9.50 0.22 3.70 ,100.00 2.10 0.10 500.00 4.50 9.50 -936.91 0.00	2,010.00T 760.00T 151.36T 185.00T 1,100.00T 434.70T 517.50T 500.00T 112.50T 475.00T -936.91 0.00
PLEASE REMIT TO ABOVE COMPANY & ADDRESS! Thank you	ı for your business!	Subtota	I		\$5,309.15
		Sales Ta	ax (8.)	25%)	\$438.00
		Total			\$5,747.15

Invoice

Date	Invoice #
12/21/2023	C-3398

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

.

Office 620-786-6992 Fax 620-672-3663

Todd's Cell 620-388-4967 Brady's Cell 620-727-6964

					Bidd	iy s cell 020-727	0904
Date 12-17-7.3 14	Twp. 295	Range [W	L)	County	State	On Location	Finish
Lease PANEL RANCH		1-14	T	KH1	K!		
Contractor PICKLEN M		2.G + 10	Locatio				
Type Job PA				Owner To Quality We	ell Service, Inc.		
Hole Size 778	T.D. 4	4790		You are here	ov requested to rer	t cementing equipmen	t and furnish
Csg.	Depth	1,10	<i>a</i>	Charge ()	Aula	1	o work as listed.
Tbg. Size 4/20P	Depth			<u>To (X</u> Street	DAIL UIL : G	95	
Tool	Depth			City		State	
Cement Left in Csg.	Shoe Joi	nt			done to satisfaction	and supervision of owner	agost or contractor
Meas Line	Displace			Cement Amou	unt Ordered 200	25c 60/40	agent of contractor
EQUIP	MENT			4% (gl	14 SK PJ	272 0-142	
Pumptrk <u>3</u> No.				Common /	20 50		
Bulktrk S No.				Poz. Mix	805		
Bulktrk No.				Gel.	198197		
Pickup No.				Calcium			
JOB SERVICES	& REMAR	ĸs		Hulls			
Rat Hole 305 60/42 4	1. Gel 1	4"/sz PS		Salt			
Mouse Hole				Flowseal	50 lbs		
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar		- 10.00m		CFL-117 or C	D110 CAF 38		
157 Pluh 2 4712				Sand			
PUMP HZO	, ,			Handling	207		
MIX YUMD SD& 60K	p 41.	Cel 1/4/sit	15	Mileage 29	5 /5175		
Rump H23 P	. ,	1.			FLOAT EQUIPM	IENT	
Disp MUD				Guide Shoe			
200 19/062 660				Centralizer			
tomp HZO				Baskets			
MK: Pomp 50 x 60/40	4%/EL	4/se PS		AFU Inserts			
Diso HZO				Float Shoe			
32" Plug 3.30'				Latch Down			
tom HZS				SERVICE	Sov IE	Ξ Α	
Mix! Pump 50 x 60/4) 4'l Ge	L 1/4 /50 PS		LMN 2	25	-	
All plated to Disp H	25			Pumptrk Charg	e PTA		
mit plush b	1			Mileage 50	1		
208 60/40 47. Cel	1/4 1/sc	PS .			. *	Tax	
JENNIL TW	PLEASE	OBN DGI	SIN		2 2	Discount	
X Signature M State 7A	,			TOOP MATT	Arthur	Total Charge	Taylor Printing Inc.

	DRILL STEM TES	ST REP	ORT				
	Quail Oil & Gas		14-2	29S-11V	V/Pratt		
TESTING, I	2005 N Taylor Ave. PO Box K Garden City KS 67846 ATTN:		Job	Ticket: 69	nch 1-14 9403 923.12.08 @	DST#: ס 22:58:00	1
. المحراب			Test		023.12.00 (<i>y</i> 22.30.00	
GENERAL INFORMATION:							
Formation:Deviated:NoWhipstockTime Tool Opened:00:58:00Time Test Ended:06:34:00	ft (KB)		Test Test Unit	er: I	Convention Richie Sam 66	al Bottom Ho ora	ole (Initial)
Total Depth: 2880.00 ft (KB)	2880.00 ft (KB) (TVD) TVD) ole Condition: Good		Refe	erence ⊟e KB t	evations: to GR/CF:) ft (KB)) ft (CF)) ft
Serial #: 8355InsidePress@RunDepth:25.05 psStart Date:2023.12.0Start Time:22:58:0TEST COMMENT:30-IF: Fair block	B End Date: End Time: V BOB in 18 minutes built to 17"	2023.12.09 06:33:59	Capacity: Last Calib Time On E Time Off I	o.: Btm: 2		8000.00 1899.12.30 @ 00:57:00 @ 04:56:00)
60-ISI: No blo 45-FF: Strong 90-FSI: No blo Pressure 300 Phease	blow BOB in 10 minutes built to 19" w back		PF	RESSUF	RE SUMM	IARY	
220 1000 1		Time (Min.) 0 1 33 94 95 138 237 239	Pressure (psig) 1380.81 22.70 21.76 222.08 19.07 25.05 379.56 1329.50		Open To I Shut-In(1) End Shut- Open To I	ro-static Flow (1)) In(1) Flow (2)) In(2)	
220 Dec 2023 Dec 2023 D				Ga Choke (i	s Rates	sure (psig)	Gas Rate (Mct/d)
0.00 500' GIP	0.00						
	Ref. No: 69403				2023.12.0		

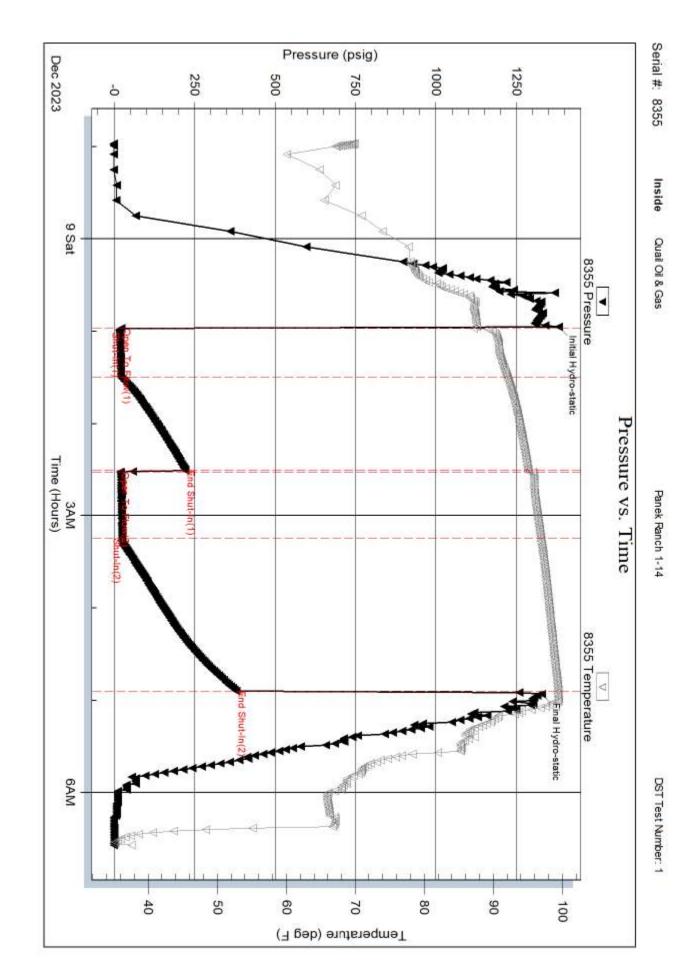
	Quail Oil & Gas		14-29S-1	1W/Pratt		
RILOBITE TESTING , INC	2005 N Taylor Ave. PO Box K Garden City KS 67846		Panek R Job Ticket:	anch 1-14 69403	DST#:	1
	ATTN:		Test Start:	2023.12.08	@ 22:58:00	
GENERAL INFORMATION:						
Formation: Deviated: No Whipstock: Time Tool Opened: 00:58:00 Time Test Ended: 06:34:00	ft (KB)		Test Type: Tester: Unit No:	Conventior Richie San 66		ole (Initial)
Interval:2857.00 ft (KB) To28Total Depth:2880.00 ft (KB) (THole Diameter:7.79 inches Hole				Elevations: B to GR/CF:) ft (KB)) ft (CF)) ft
Serial #: 8289OutsidePress@RunDepth:psigStart Date:2023.12.08Start Time:22:58:01	@ 2863.00 ft (KB) End Date: End Time:	2023.12.09 06:34:00	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 1899.12.30	
TEST COMMENT: 30-IF: Fair blow 60-ISI: No blow I 45-FF: Strong bl 90-FSI: No blow Pressure vs. 7	back ow BOB in 10 minutes built to 19" back	1	DDCCC			
PTESSTIFE VS. J 2009 Ressure	529 Temperature	Time	PRESS			
		(Min.)	(psig) (deg			
Recovery				Gas Rates		
Length (ft) Description	Volume (bbl)		Chol	ke (inches) Pres	sure (psig)	Gas Rate (Mcf/d)
15.00 GM 5%G 95%M 0.00 500' GIP	0.07 0.00				_	

	BITE	DRI	LL STEM TEST	REPORT	-		FLUID SU	JMMAR
		Quail O	il & Gas		14-295-11	W/Pratt		
U	TING , INC	2005 N PO Box 67846 ATTN:	Taylor Ave. K Garden City KS		Panek Ra Job Ticket: 6 Test Start: 2		DST#:1	
Nud and Cushion Inf	ormation							
Mud Type:Gel ChemMud Weight:9.00/iscosity:31.00/iscosity:6.80Resistivity:5alinity:Salinity:46000.00	lb/gal sec/qt in³ ohm.m		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Press	ure:	ft bbl psig	Oil API: Water Salinity:		deg API ppm
Recovery Information	n							
	J		Recovery Table			7		
	Leng ft	th	Description		Volume bbl			
		15.00	GM 5%G 95%M		0.074			
		0.00	500' GIP		0.000	<u>)</u>		
To	otal Length:	15.	00 ft Total Volume:	0.074 bbl				

Printed: 2023.12.09 @ 09:44:25

Ref. No: 69403

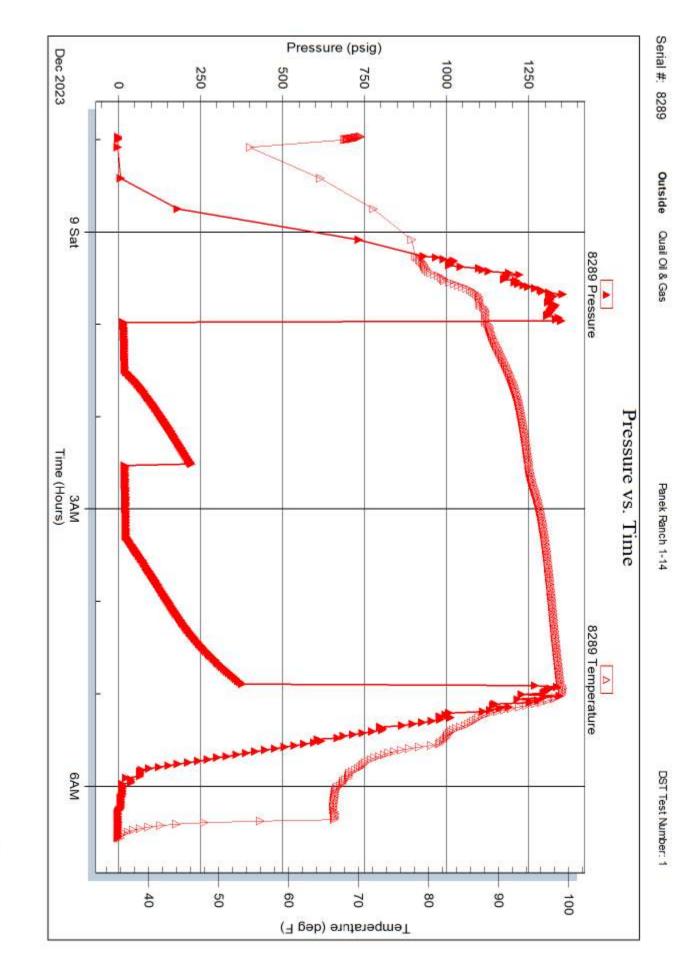




Printed: 2023.12.09 @ 09:44:26

Ref. No: 69403





RILOBITE	DRILL STEM TES	ST REP	ORT				
	Quail Oil & Gas		14-	29S-11V	V/Pratt		
ESTING , INC	2005 N Taylor Ave. PO Box K Garden City KS		Pa	nek Rar	nch 1-14		
	67846		Job	Ticket: 7	1070	DST#: 2	
NOK.	ATTN: Dave Barker		Tes	t Start: 20	023.12.10 @	15:50:22	
GENERAL INFORMATION:							
Formation:OreadDeviated:NoWhipstock:Time Tool Opened:18:13:12Time Test Ended:23:41:52	ft (KB)		Tes	ter:	Conventiona Eric Burgess 80	-	eset)
Total Depth: 3688.00 ft (KB) (3 585.00 ft (KB) (TVD) IVD) le Condition: Good		Ref	erence ⊟e KB t	evations: to GR/CF:	1789.00 1784.00 5.00	ft (CF)
Serial #: 8369 Outside							
Press@RunDepth: 143.23 psig		2022 40 40	Capacity			8000.00	psig
Start Date: 2023.12.10 Start Time: 15:50:23		2023.12.10 23:41:52	Last Cali Time On		: 2023.12.10 (2023.12.11 @ 18:10:32	
			Time Off		2023.12.10 (
Pressure vs.	RUE TO Forgendare	Time (Min.) 0 3 16 47 48 94 186	Pressure (psig) 1824.43 53.73 89.02 900.46 105.74 143.23 747.09	Temp (deg F) 106.72 106.20 106.42 107.74	Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2)	on o-static ow (1) n(1) ow (2)	
10 San Dac 2023 Time (tan		186	1676.66	112.45		. ,	
Recovery				Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (inches) Pressu	re (psig) Gas	s Rate (Mcf/d)
60.00 GMCW 5%G 80%W 15 60.00 VSOMCW 2%O 95%W							
64.00 OMCW 5%O 85%W 10							
32.00 WMCO 55%O 25%W 2							
0.00 1827' GIP	0.00						
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 71070				2023.12.11	A A F F	

Trilobite Testing, Inc

RILOBITE TESTING , INC	Quail Oil & Gas		14-29S-1			
ESTING, INC.			14 200 1	1W/Pratt		
	2005 N Taylor Ave. PO Box K Garden City KS			anch 1-14		
	67846 ATTN: Dave Barker		Job Ticket: Test Start:	2023.12.10 @	DST#:2	
	Arm. Dave Bandi			2020.12.10 @	, 10.00.22	
GENERAL INFORMATION: Formation: Oread						
Deviated: No Whipstock: Time Tool Opened: 18:13:12 Time Test Ended: 23:41:52	ft (KB)		Test Type: Tester: Unit No:	Conventiona Eric Burgess 80	al Straddle (Re s	eset)
Total Depth: 3688.00 ft (KB) (T	8 5.00 ft (KB) (TVD) /D) e Condition: Good			Elevations: B to GR/CF:	1789.00 1784.00 5.00	ft (CF)
Serial #: 8679Press@RunDepth:psigStart Date:2023.12.10Start Time:15:50:04	@ ft (KB) End Date: End Time:	2023.12.10 23:41:43	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 1899.12.30	psig
FSI: 1" Blow Bac	.k. (30) ıg Blow built to 57.10" (45) .k. (90)	1				
Pressure vs. T	≦ 18079 Temperature	Time	PRESS Pressure Tem	URE SUMM		
1750 1500	STM TIME	(Min.)	(psig) (deg			
Recovery			(Gas Rates		
Length (ft) Description	Volume (bbl)		Cho	ke (inches) Pressu	ure (psig) Gas	Rate (Mcf/d)
60.00 GMCW 5%G 80%W 15% 60.00 V SOMCW 2%O 95%W 3						
64.00 OMCW 5%O 85%W 10%						
32.00 WMCO 55%O 25%W 209						
0.00 1827' GIP	0.00					
* Recovery from multiple tests	l					

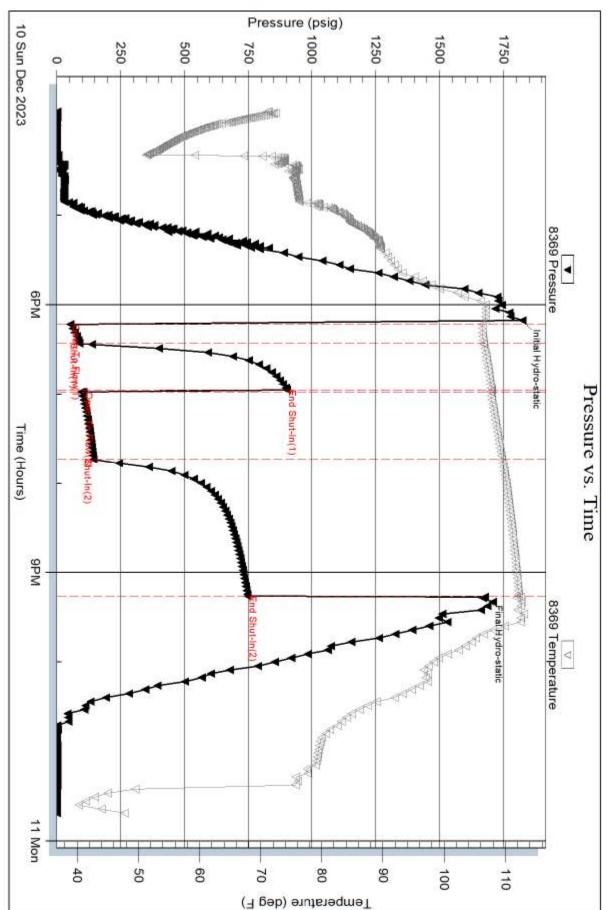
RILOBITE	DRILL STEM TES	ST REPO	ORT		
	Quail Oil & Gas		14-29S-1 [°]	1W/Pratt	
ESTING , INC	2005 N Taylor Ave.		Panek R	anch 1-14	
	PO Box K Garden City KS 67846		Job Ticket:	71070	DST#:2
	ATTN: Dave Barker		Test Start:	2023.12.10 @) 15:50:22
GENERAL INFORMATION:					
Formation: Oread Deviated: No Whipstock: Time Tool Opened: 18:13:12 Time Test Ended: 23:41:52	ft (KB)		Test Type: Tester: Unit No:	Conventiona Eric Burgess 80	al Straddle (Reset) s
Total Depth: 3688.00 ft (KB) (T\	85.00 ft (KB) (TVD) /D) e Condition: Good		Reference K	Elevations: B to GR/CF:	1789.00 ft (KB) 1784.00 ft (CF) 5.00 ft
Serial #: 8846 Inside Press@RunDepth: psig Start Date: 2023.12.10 Start Time: 15:50:41	End Date: End Time:	2023.12.10 23:41:30	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 1899.12.30
ISI:.25" Bow Bac FF:Strong Buildin FSI: 1" Blow Bac Pressure vs. T 356 Presure	ng Blow built to 57.10" (45) k. (90)		PRESSI	JRE SUMM	ARY
1/59	500 Tempendare 110 100 100 100 100 100 100 10	Time (Min.)	Pressure Temp (psig) (deg l		on
1999 199 1999 1	SM filter				
				Gas Rates	
1000 770 780 790 790 790 790 790 790 790 79	STM TIMET				ure (psig) Gas Rate (Mct/d)
1000	Volume (bbl) M 0.30				ure (psig) Gas Rate (Mcf/d)
Recovery Length (ft) GMCW 5%G 80%W 15% 60.00 VSOMCW 2%O 95%W 3	Volume (bbl) M 0.30 %M 0.30				ure (psig) Gas Rate (Mcf/d)
1000	Volume (bbl) M 0.30 %M 0.89				ure (psig) Gas Rate (Mcf/d)
1000 Image: Constraint of the second sec	Volume (bbl) M 0.30 %M 0.89				ıre (psig) Gas Rate (Mct/d)

(ON TR	RILOBITE		LL STEM TEST REPOR	I	F	LUID SUMMAR
戦して	RILOBITE ESTING , INC.	Quail C)il & Gas	14-29S-11	W/Pratt	
	ESTING, INC.		l Taylor Ave. k Garden City KS	Panek Ra Job Ticket:		DST#:2
NSV .			Dave Barker	Test Start: 2	2023.12.10 @ 15:	50:22
/lud and Cushi	on Information					
/lud Type: Gel Ch /lud Weight: /iscosity: Vater Loss: Resistivity: Balinity: 8 ilter Cake:	nem 9.00 lb/gal 66.00 sec/qt 9.59 in ³ ohm.m 900.00 ppm 0.20 inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	deg API 160000 ppm
ecovery Infor	mation		5 74			
	Lengt	h	Recovery Table Description	Volume]	
		60.00	GMCW 5%G 80%W 15%M	0.29		
		60.00 64.00	VSOMCW 2%O 95%W 3%M OMCW 5%O 85%W 10%M	0.29	-	
		32.00 0.00	WMCO 55%O 25%W 20%M 1827' GIP	0.44		
	I Total Length:		.00 ft Total Volume: 1.928 bbl		<u> </u>	
	Num Fluid Sampl Laboratory Nam Recovery Comm	e:	Num Gas Bombs: 0 Laboratory Location:	Serial #	<u>*</u> :	

Printed: 2023.12.11 @ 06:43:13

Ref. No: 71070

Trilobite Testing, Inc



Outside Quail Oil & Gas

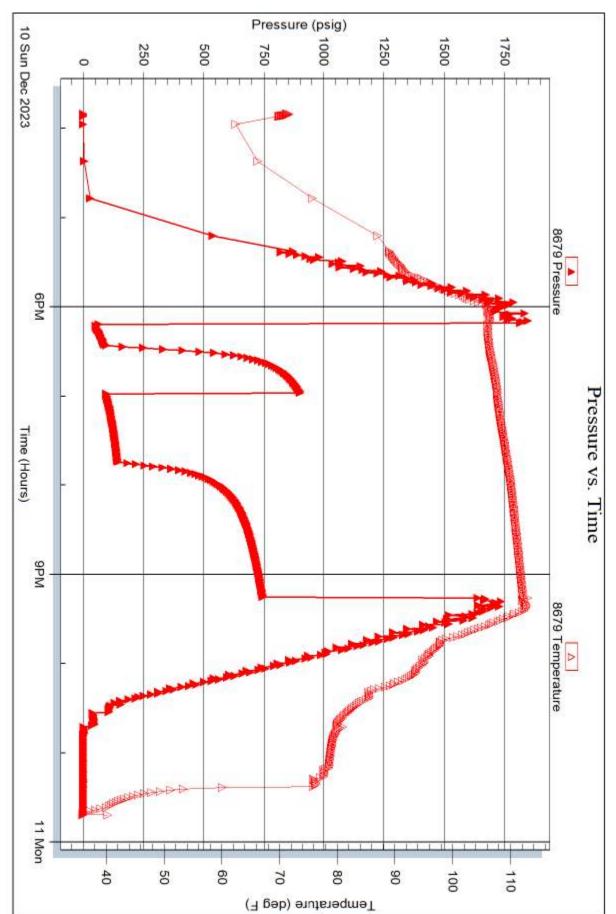
Serial #: 8369

Panek Ranch 1-14

Printed: 2023.12.11 @ 06:43:13

Ref. No: 71070

Trilobite Testing, Inc



Serial #: 8679

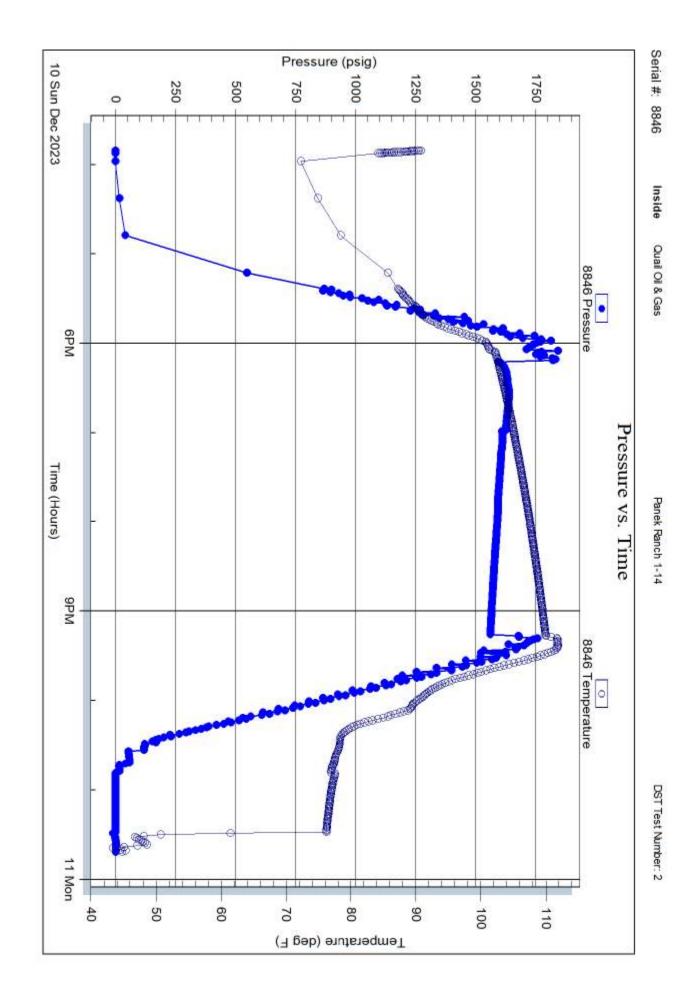
Quai Oi & Gas

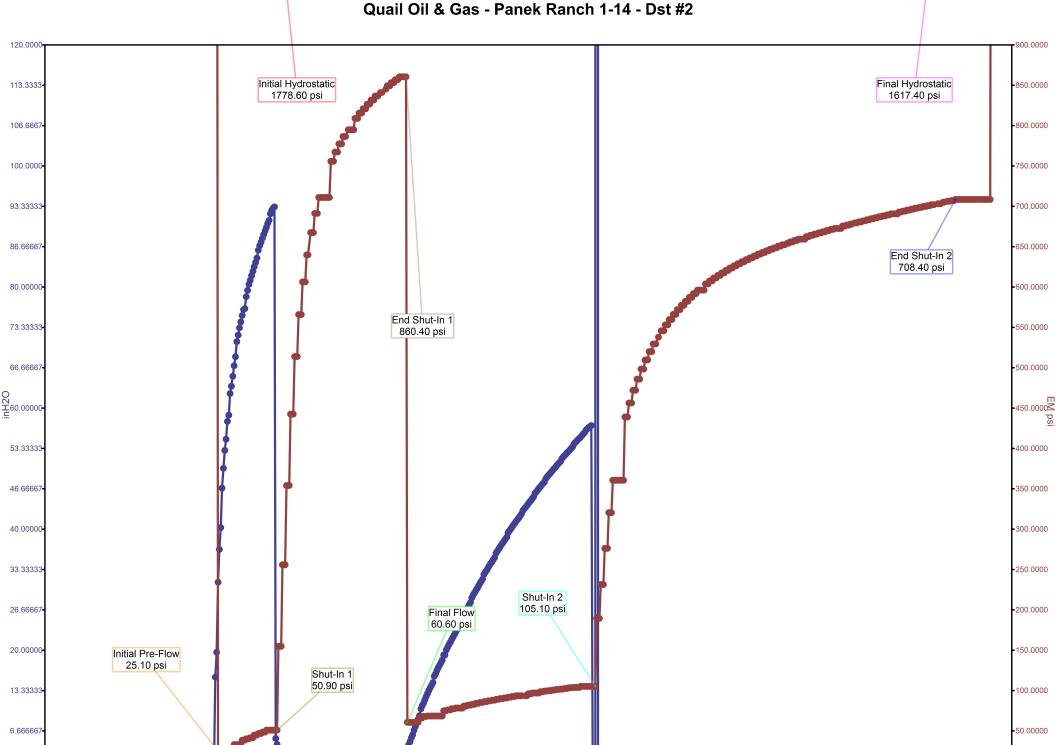
Panek Ranch 1-14

Printed: 2023.12.11 @ 06:43:14

Ref. No: 71070

Trilobite Testing, Inc





19:13:52 19:31:01 2023-12-10 2023-12-10 Sample Time

19:48:09 2023-12-10 20:05:18 2023-12-10

18:56:43 2023-12-10

18:39:35

2023-12-10

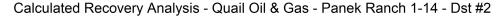
20:22:26 2023-12-10 20:39:35 2023-12-10 20:56:43 2023-12-10 21:13:52 2023-12-10 0.000000 21:31:01 2023-12-10

0.000000 17:31:01 2023-12-10

17:48:09 2023-12-10 18:22:26 2023-12-10

18:05:18

2023-12-10



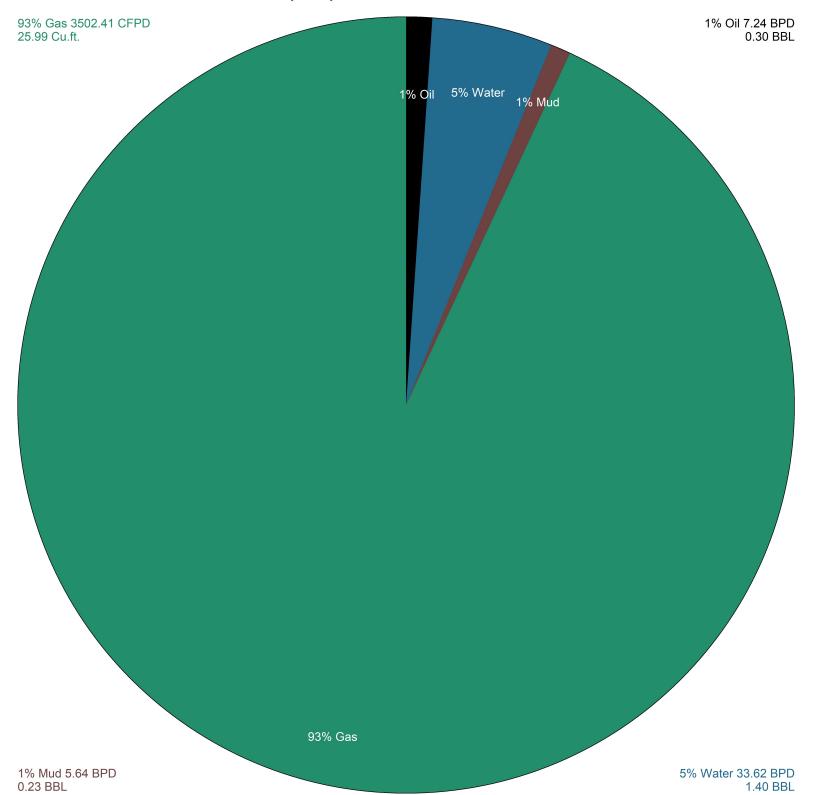


Image: State of the state	RILOBITE	DRILL STEM TE	EST	T REP	ORT				
PD Box K Garden Oty KS 6746 ATTN: Dave Barker Dot Tick Structors Dot Tick Structors SENERAL INFORMATION: Structors Test Statt: 2023.12.11 @ 23:15.35 SENERAL INFORMATION: Structors Structors Structors Ministry 100 Structors Structors Test Statt: 2023.12.11 @ 23:15.35 SENERAL INFORMATION: Structors If (KB) Test Type: Conventional Bottom Hole (Reset) Time Tool Opened: 01:33.05 Test Type: Conventional Bottom Hole (Reset) Test Type: Conventional Bottom Hole (Reset) The Tool Opened: 01:33.05 Test Type: Conventional Bottom Hole (Reset) Test Type: Conventional Bottom Hole (Reset) The Tool Opened: 01:33.05 Test Type: Conventional Bottom Hole (Reset) Test Type: Conventional Bottom Hole (Reset) Struct II: 10:30:5 Test Type: Conventional Bottom Hole (Reset) Test Type: Conventional Bottom Hole (Reset) Struct II: 10:30:5 Test Type: Conventional Bottom Hole (Reset) Test Type: Conventional Bottom Hole (Reset) Struct II: 10:30:5 Test Time: 07:31:55 The Convention: 178:00 (Rt(R)) Test Structors: 178:00 (Rt(R)) Struct II: 10:20:00:11:00:00:00:00:00:00:00:00:00:00:00					14	1-29S-11V	V/Pratt		
ATTN Date Barker Job Incetter: 1/0/1 DSTRE3 ATTN Dave Barker Test Statt: 2023.12.11 (@ 23.15.35) SEENERAL INFORMATION: Swope bwildled: No Whipstock: ft (KB) ime Tool Opence: 0.00 10:000: ft (KB) ime Tool Opence: 412:000 ft (KB) (TVD) Test Ended: 07:31:55 therval: 203.00 ft (KB) (TVD) 1784.00 ft (KB) 1784.00 ft (KB) old Daph: 203.00 ft (KB) (TVD) 1784.00 ft (KB) 1784.00 ft (KB) start Thm: 203.12.11 End Optic: 2023.12.12 Last Callb:: 2023.12.12 Start Date: 2023.12.11 End Date: 07:31:55 Time On Bim: 2023.12.12 200.00.00 203.12.12 </td <td>ESTING, NO</td> <td>2000 11 10 10 7 100.</td> <td></td> <td></td> <td>Ра</td> <td>anek Rar</td> <td>nch 1-1</td> <td>4</td> <td></td>	ESTING, NO	2000 11 10 10 7 100.			Ра	anek Rar	nch 1-1	4	
Sew January Sew Conventional Bottom Hole (Reset) The Tool Opened: 0133305 Test Type: Tool Opened: 0133305 Test Type: Severated: Severat					Jo	b Ticket: 7	1071	DST	#:3
Swope beviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset) ime Tool Opencie: 4033.00 ft (KB) TO 4120.00 ft (KB) (TVD) Test Ericle 2023.12.12 The Value of the CP 1789.00 ft (KB) iola Depth: 4130.00 ft (KB) (TVD) Test Ericle 2023.12.12 Bard of the CP 5.00 ft Start Date: 2023.12.12 Bard of the CP 2023.12.12 Bard of the CP Start Date: 2023.12.12 Capacity: 8000.00 psig 2023.12.12 Bard Of the CP Start Date: 2023.12.12 Capacity: 8000.00 psig 2023.12.12 Bard Of the CP Start Date: 2023.12.12 Capacity: 8000.00 psig 2023.12.12 Bard Of the CP Start Date: 2023.12.12 Capacity: 8000.00 psig 2023.12.12 Bard Of the CP FEST COMMENT: F: Strong Building Blow built to 17.87" (45) FSTN DBW Back (60) FF are Building Bbw built to 17.87" (45) FSTN DBW Back (50) FF are Building Bbw built to 17.87" (45) Fistion Bow Back (50) FF are Building Bbw built to 17.87" (45) FSTN DBW Back (50) FT are Building Bbw built to 17.87" (45) FST DBW Back (50) FT are Building Bbw built to 17.87" (45)					Те	st Start: 20	023.12.1	1 @ 23:15:3	5
Jewisted: No Winpstock: ft (KB) Test Type: Conventional Bottom Hole (Reset) Imm Test Elded: 073155 Test: Eric Burgess Test::: Eric Burgess Interval: 4993.00 ft (KB) To 4120.00 ft (KB) (TVD) Test::: Bit Reference Bevalons: 1789.00 ft (KB) Serial #: 2023.12.11 Erid Date 2023.12.12 Last Callo:: 2023.12.12 (B) (1000 paid) Start Date: 2023.12.13 Erid Date 2023.12.12 (B) (1000 paid) 2023.12.12 (B) (1000 paid) Start Date: 2023.12.13 Erid Date 2023.12.12 (B) (1000 paid) 2023.12.12 (B) (1000 paid) Start Date: 2023.12.12 (B) (1000 paid) Eric Burges 2023.12.12 (B) (1000 paid) 2023.12.12 (B) (1000 paid) Start Date: 2023.12.12 (B) (1000 paid) Eric Burges Time Off Bitr: 2023.12.12 (B) (1000 paid) EFST COMMENT: Fishon Blow Back. (90) FFFair Building Blow built to 17.87' (45) Frastrucht(1) 113.08 Initial Hydro-static Time off Bitr: 2023.12.12 (B) (1000 paid) Frastrucht(1) 112.60 Open To Flow (1) Start Date: Start Date: Start Date 112.60 Open	GENERAL INFORMATION:	ł							
Optimized Depth:: 4120.00 ft (KB) (TVD) 1784.00 ft (CF) Idee Dameter: 7.79 inchesHole Condition: Fair KB to GRCF: 5.00 ft Serial #: 3369 Outside 8000.00 psig 2023.12.12 Last Calib:: 2023.12.12 (2001:30:25) Shart Date: 2023.12.12 Last Calib:: 2023.12.12 (2001:30:25) Time On Bim: 2023.12.12 (2001:30:25) TEST COMMENT: F:Strong Building Blow built to 24.51" (30) Sh4 b Blow Back (90) FFFair Building Blow built to 24.51" (30) Sh4 b Blow Back (90) FFFair Building Blow built to 24.51" (45) FSI:No Blow Back (90) Time Capacity:: Rototation Time Time Time Time Or Bim: 2023.12.12 (2005:23.45) Disto Blow Back (90) FFFair Building Blow built to 24.51" (30) Sh4 b Blow Back (90) Time Time D Resure Time D Resure 123.88 Blow Back (90) FFFair Building Blow built to 24.51" 2012.82 Time D Resure Hittel Hydro-static 133.12 Bord Time Time D Resure Time D Resure Shuch(1) 134.84 Bit 125.71 Dopen To Row (2) <td>•</td> <td>ft (KB)</td> <td></td> <td></td> <td>Те</td> <td>ster:</td> <td>Eric Burg</td> <td></td> <td>Hole (Reset)</td>	•	ft (KB)			Те	ster:	Eric Burg		Hole (Reset)
Press@RunDepth: 136.46 psig @ 4094.00 ft (KB) Capacity: 8000.00 psig Start Date: 2023.12.11 End Date: 2023.12.12 Last Callbi: 2023.12.12 2023.12.12 Start Date: 2023.12.13 End Date: 07.31.55 Time On Bitm: 2023.12.12 0.53.23.45 TEST COMMENT: F:Strong Building Blow built to 24.51° (30). StNo Blow Back. (60) F:Frait Building Blow built to 17.87° (45) FStNo Blow Back. (90) The Strong Building Blow built to 17.87° (45). FStNo Blow Back. (90) Time On Fire Tait Building Blow built to 17.87° (45). Tomo Of Bury: 2023.12.12 0.53.23.45 Time Of Bury: 2023.12.12 0.57.23.45 Time Of Bury:	Total Depth: 4120.00 ft (KB) (1	VD)			Re			1784.	00 ft (CF)
Sithe Blow Back. (60) FFFair Building Blow built to 17.97" (45) Sithe Blow Back. (60) The Sithe Blow Back. (60) Open To Flow (1) 123.65 Shut-In(1) 123.63 Shut-In(1) Open To Flow (2) Sithe Sithe Blow Back. (60) Choice (Inches) Pressure (add) Choice (Inches) Pressure (add) Choice (Inches) Pressure (add) Choice (Inches)	Press@RunDepth: 136.46 psig Start Date: 2023.12.11	End Date:	2		Last Ca Time Or	ılib.: n Btm:		2023.12. 12 @ 01:30:	12 25
Image: Note of the second se	ISI:No Blow Bac FF:Fair Building FSI:No Blow Ba Pressure vs.	ck. (60) Blow built to 17.87" (45) ck. (90) Time			F	RESSUF	RESUN	IMARY	
Image: constraint of the second of the se	8369 Pressure	5369 Temperature	ł	Time	-				
Image: constraint of the second se			30	```			lucitical II	udua atatia	
Image: state of the state			20					-	
Image: state of the state			10			123.58	Shut-In	(1)	
Image: Second									
Image: Second system Image: Second system <td< td=""><td></td><td></td><td>e ubere</td><td></td><td></td><td></td><td>· ·</td><td>. ,</td><td></td></td<>			e ubere				· ·	. ,	
Image: Second	E 🖉 🖸 🕴 📗	Tangarang a			1488.16	130.92	End Sh	ut-ln(2)	
Recovery Gas Rate Length (ft) Description Volume (bbl) 60.00 MVV 97%W 3%M 0.30 60.00 MVV 95%W 5%M 0.30 64.00 MWV 95%W 5%M 0.89 64.00 OMCW 30%O 40%W 30%M 0.90 0.00 441' GIP 0.00 Image: Comparison of the comparison of th			o	234	1995.48	130.29	Final H	ydro-static	
Length (ft) Description Volume (bbl) 60.00 MW 97%W 3%M 0.30 60.00 MW 95%W 5%M 0.30 64.00 MW 95%W 5%M 0.89 64.00 OMCW 30%O 40%W 30%M 0.90 0.00 441' GIP 0.00			_						
60.00 MW 97%W 3%M 0.30 60.00 MW 95%W 5%M 0.30 64.00 MW 95%W 5%M 0.89 64.00 OMCW 30%O 40%W 30%M 0.90 0.00 441' GIP 0.00 Image: Market and Market									0
60.00 MW 95%W 5%M 0.30 64.00 MW 95%W 5%M 0.89 64.00 OMCW 30%O 40%W 30%M 0.90 0.00 441' GIP 0.00						Choke (Inches) Pi	essure (psig)	Gas Rate (Mcf/d)
64.00 MW 95%W 5%M 0.89 64.00 OMCW 30%O 40%W 30%M 0.90 0.00 441' GIP 0.00									
64.00 OMCW 30%O 40%W 30%M 0.90 0.00 441' GIP 0.00									
0.00 441' GIP 0.00									

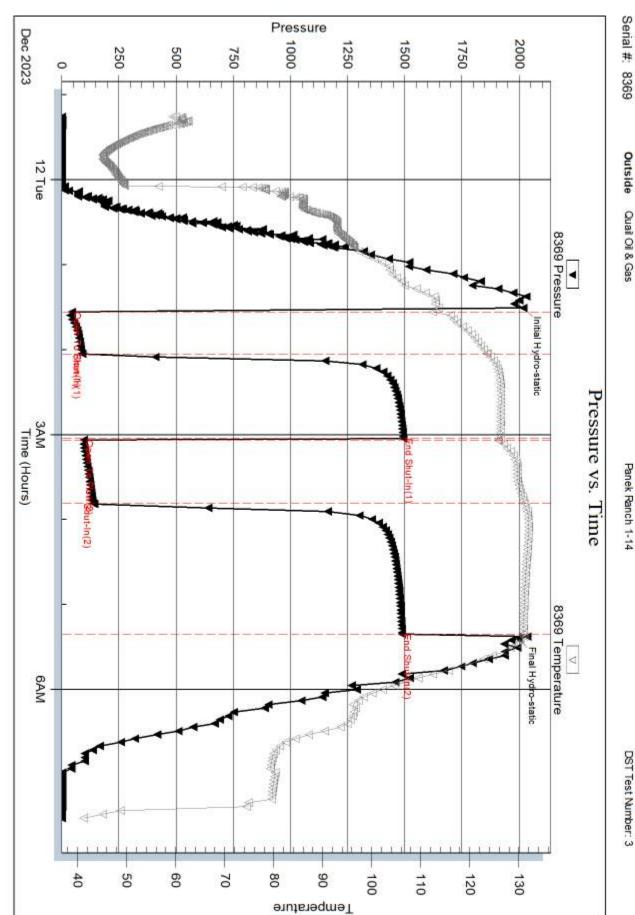
	RILOBITE	DRILL STEM TE	STREP	UKI			
		Quail Oil & Gas		14-	295-11\	N/Pratt	
	ESTING , INC.	2000 N Taylor Ave.		Ра	nek Ra	nch 1-14	
		PO Box K Garden City KS 67846		Job	Ticket: 7	1071	DST#:3
10		ATTN: Dave Barker		Tes	t Start: 2	023.12.11 @	0 23:15:35
JENERAL I	INFORMATION:						
Formation: Deviated: Fime Tool Oper Fime Test Ende		ft (KB)		Tes	ter:	Convention Eric Burges 80	al Bottom Hole (Reset) s
nterval:	4093.00 ft (KB) To 41	120.00 ft (KB) (TVD)		Ref	erence 🗄	evations:	1789.00 ft (KB)
Total Depth:	4120.00 ft (KB) (T\						1784.00 ft (CF)
Hole Diameter:	7.79 inchesHole	e Condition: Fair			KB	to GR/CF:	5.00 ft
Serial #: 8							
Press@RunDe		-	0000 / 5 / 5	Capacity			8000.00 psig
Start Date: Start Time:	2023.12.11 23:15:44	End Date: End Time:	2023.12.12 07:32:13	Last Calil Time On			1899.12.30
Mart nme:	23:15:44	End Time:	07:32:13	Time Off			
	Pressure vs. T	Trane 5059 Tempendure	Time			RE SUMN	
2000			Time • (Min.)	Pressure (psig)	RESSUI Temp (deg F)	RE SUMM	
2000			Min.)	Pressure	Temp		
		899 (mproduce 199 (m	• (Min.)	Pressure	Temp		
1770			e (Min.)	Pressure	Temp		
1750			e (Min.)	Pressure	Temp		
1750			e (Min.)	Pressure	Temp		
1759 1530			e (Min.)	Pressure	Temp		
1730 1730 1730 1730 1730 1739 1739 1739 1739			Tamporetury	Pressure	Temp		
1759 1530			Tamporetury	Pressure	Temp		
1753 1253 1253 1053 1053 1053 1053 1053 1053 1053 10			Tamporetury	Pressure	Temp		
			Tamporetury	Pressure	Temp		
1759 1590 100 1000 1	Recovery		Tamporetury	Pressure	Temp (deg F)	Annotati	on
1739 1530 15 15 15 15 15 15 15 15 15 15 15 15 15 1	BERFERSIVE BERFERSIVE BERFERSIVE BERFERSIVE Description	BID Temporter BID Temporter Control Control	Tamporetury	Pressure	Temp (deg F)	Annotati as Rates	
1739 17 17 17 17 17 17 17 17 17 17 17 17 17 1	BEETHERSING BEETH	BSD temperature BSD temperature The second	Tamporetury	Pressure	Temp (deg F)	Annotati	on
1739 1500 1520	Recovery Description MW 97%W 3%M MW 95%W 5%M	рур Тенриянсе	Tamporetury	Pressure	Temp (deg F)	Annotati	on
1759 1759 1000 1299 1000 100 1000 1		B99 Foreporters B99 Foreporters Control of the second se	Tamporetury	Pressure	Temp (deg F)	Annotati	on
1739 1300 130 13	логорновиле	BOD Foreporter BOD Foreporter Image: State	Tamporetury	Pressure	Temp (deg F)	Annotati	on
1770 1270		B99 Foreporters B99 Foreporters Control of the second se	Tamporetury	Pressure	Temp (deg F)	Annotati	on

		ILL STEM TEST REPO	ORT	F	LUID SUMMAR	
	ITE Quaii ING , INC 2005	Oil & Gas	14-29S-11\	N/Pratt		
I ESTI	PO B	2005 N Taylor Ave. PO Box K Garden City KS 67846		nch 1-14 1071	DST#: 3	
NOV .		l: Dave Barker	Test Start: 2	023.12.11 @ 23:	23:15:35	
lud and Cushion Info	ormation					
Aud Type:Gel ChemAud Weight:9.00 lk/iscosity:56.00 s/iscosity:56.00 sVater Loss:8.79 irResistivity:osalinity:8800.00 pilter Cake:0.20 ir	ec/qt n³ hm.m ppm	Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:		Oil API: Water Salinity:	deg API 125000 ppm	
Recovery Information						
	Length ft	Recovery Table Description	Volume bbl			
	60.00	MW 97%W 3%M	0.295	-		
	60.00	MW 95%W 5%M	0.295	-		
	64.00	MW 95%W 5%M	0.889	1		
	64.00 0.00	OMCW 30%O 40%W 30%M 441' GIP	0.898	1		
Tot		1	77 bbl]		
Lab	m Fluid Samples: 0 boratory Name: covery Comments:	Num Gas Bombs: 0 Laboratory Location:	Serial #:			

Printed: 2023.12.12 @ 15:05:43

Ref. No: 71071





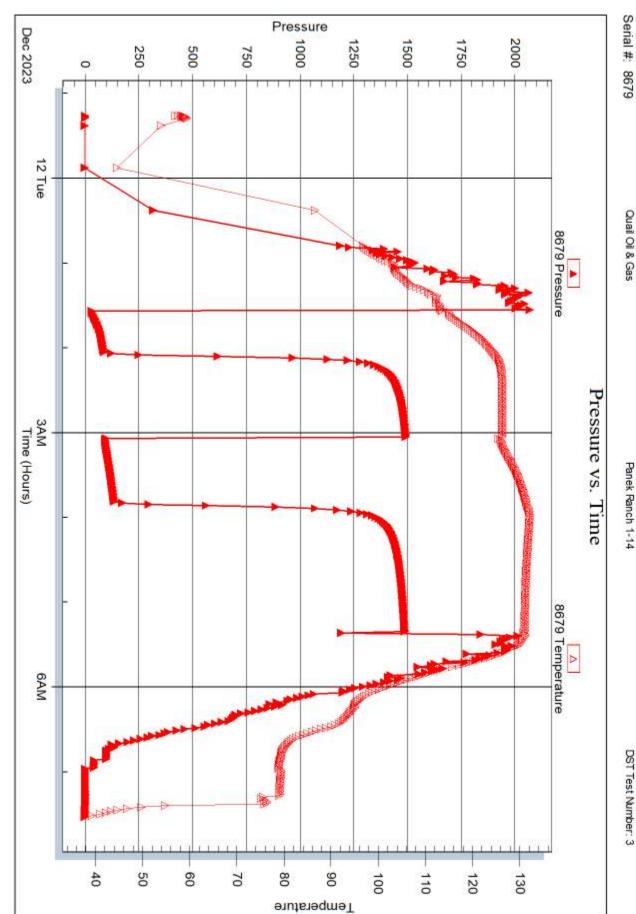
Outside Quail Oil & Gas

Panek Ranch 1-14

Printed: 2023.12.12 @ 15:05:43

Ref. No: 71071

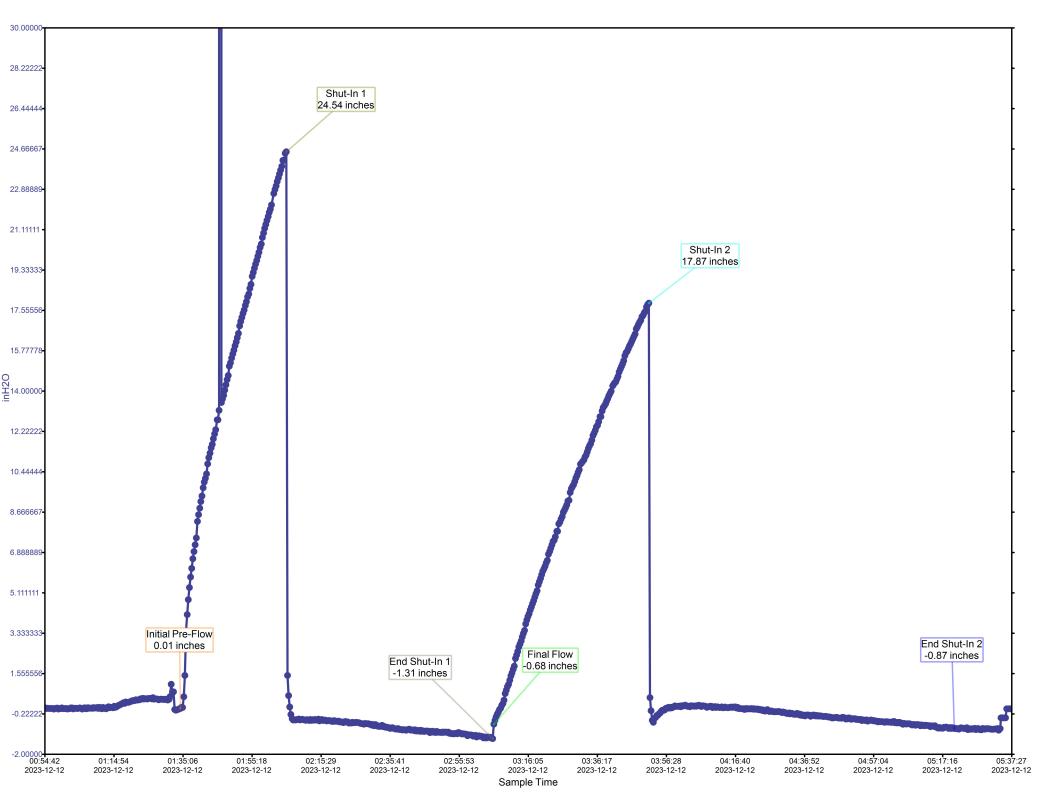
Trilobite Testing, Inc

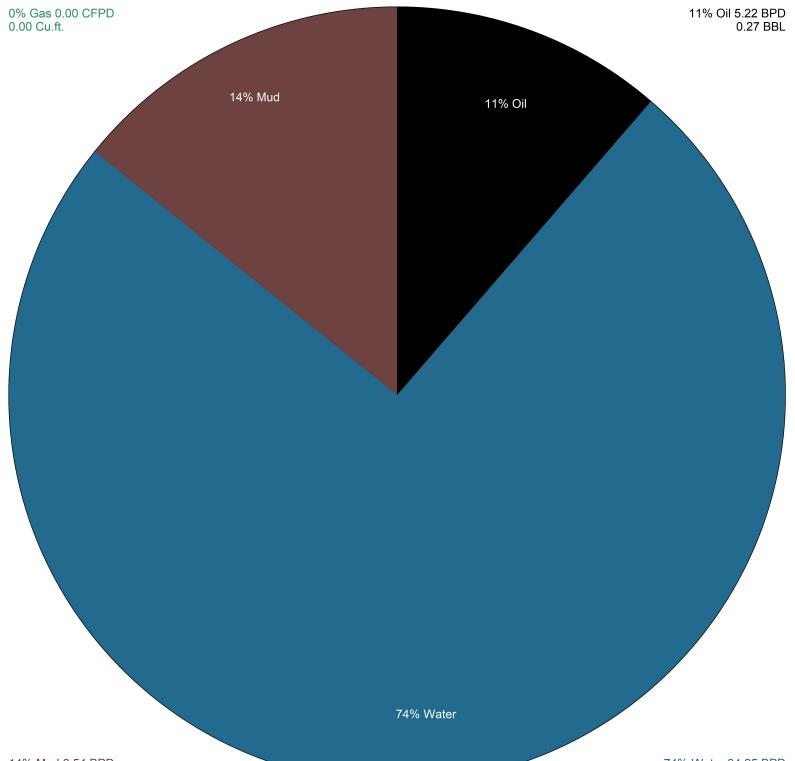


Quai Oi & Gas

Panek Ranch 1-14

Quail Oil & Gas - Panek Ranch 1-14 - Dst #3





Calculated Recovery Analysis - Quail Oil & Gas - Panek Ranch 1-14 - Dst #3

14% Mud 6.54 BPD 0.34 BBL 74% Water 34.25 BPD 1.79 BBL

$\Delta \hat{O} h \Box$	RILOBITE	DRILL STEM TE	S1	r Repo	ORT				
		Quail Oil & Gas			1	4-29S-11V	V/Pratt		
	ESTING , INC.	2005 N Taylor Ave. PO Box K Garden City KS			-	anek Rar			
		67846				ob Ticket: 71		DST#:4	•
ali alia		ATTN: Dave Barker			Т	est Start: 20)23.12.13 @	02:10:56	
GENERAL INF	FORMATION:								
Formation: Deviated: Time Tool Opene Time Test Ended:		ft (KB)			Т	ester:	Conventional Richie Samor 66		e (Reset)
Interval: 4 Total Depth: Hole Diameter:	4288.00 ft (KB) To 43 4347.00 ft (KB) (T\ 7.79 inchesHole	/D)			R	eference ⊟e KB t	evations: to GR/CF:	1789.00 1784.00 5.00	ft (CF)
Serial #: 836	9 Outside								
Press@RunDept		-			Capac	-		8000.00	psig
Start Date: Start Time:	2023.12.13 02:10:57	End Date: End Time:	2	023.12.13	Last C Time C		2 @ 2023.12.13	2023.12.13	
	02.10.07			11.01.00			2023.12.13 @ 2023.12.13 @		
	ISI:No Blow Back FF:Weak Building FSI:No Blow Bac Pressure vs. T	Blow built to 1.04" (45) k. (120)							
	Pressure VS. 1	tmie ⊽ 8369 Temperature	╞	Time	Pressur	_	RE SUMMA		
2250				(Min.)	(psig)	(deg F)	Annotation		
2000				0	2273.81		, ,		
1750				1 32	42.80 62.73		Open To Flo Shut-In(1)	5w (1)	
1500		100	_	91	1423.66			(1)	
1000			mperet	93	65.79		Open To Flo	ow (2)	
1000			mperature (deg F)	138 278	82.26 1522.45		Shut-In(2) End Shut-In	(2)	
700 500 270 374 374 374 374 374	event interprises		9	278	2216.21				
			+				 		
Length (ft)	Description	Volume (bbl)				Ga Choke (i	s Rates	e (psig) Ga	s Rate (Mcf/d)
	DSWCM 13.5%W 86.5%			ļ		`	· [. /
0.00 1	20' Gip	0.00							
* Recovery from multipl	la tasta								

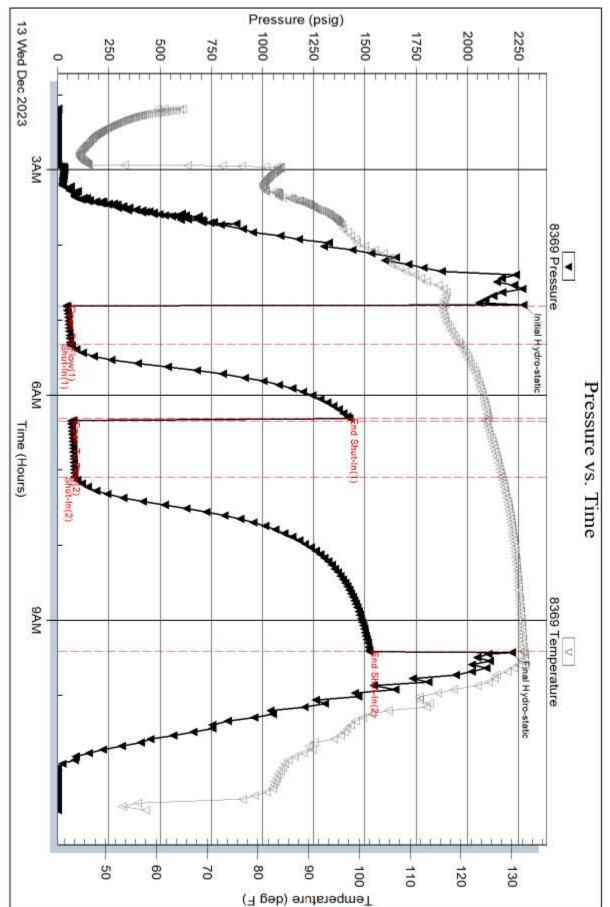
RILOBITE	DRILL STEM TES	ST REP	ORT			
	Quail Oil & Gas		14-29S-1 ⁻	1W/Pratt		
ESTING , INC	2005 N Taylor Ave. PO Box K Garden City KS			anch 1-14		
	67846		Job Ticket:		DST#	: 4
, in the second se	ATTN: Dave Barker		Test Start:	2023.12.13 @	02:10:56	
ENERAL INFORMATION:						
ormation: Miss eviated: No Whipstock: me Tool Opened: 04:48:36 me Test Ended: 11:31:56	ft (KB)		Test Type: Tester: Unit No:	Conventiona Richie Samo 66		lole (Reset)
terval: 4288.00 ft (KB) To 4 otal Depth: 4347.00 ft (KB) (T (T oble Diameter: 7.79 inchesHo			Reference	Elevations: B to GR/CF:	1784.0	0 ft (KB) 0 ft (CF) 0 ft
erial #: 8679						
ess@RunDepth: psig	@ ft (KB)		Capacity:		8000.0	0 psig
art Date: 2023.12.13 art Time: 02:10:04		2023.12.13 11:31:22	Last Calib.: Time On Btm:		2023.12.1	3
art nine. 02:10:04		11.31:22	Time On Btm: Time Off Btm:			
Pressure vs.	8699 Temperature	Time (Min.)	Pressure Temp			
		(Min.)	(psig) (deg l	F)		
edDec 2023		a 7				
Recovery				Gas Rates		
Length (ft) Description	Volume (bbl)		Choł	ke (inches) Press	ure (psig)	Gas Rate (Mcf/d)
85.00 OSWCM 13.5%W 86.5%	6M 0.42 0.00					
	1 U.UU	1				
0.00 120' Gip						
0.00 120' Gip						
0.00 120' Gip						

AC XA T		DR	ILL STEM TEST REPOR	RT	F	LUID SUMMAR	
	RILOBITE	Quail (Dil & Gas	14-29S-1 ²	1W/Pratt		
RILOBITE TESTING, №		PO Bo	2005 N Taylor Ave. PO Box K Garden City KS 67846		Panek Ranch 1-14Job Ticket: 71072DST#:		
		ATTN:	Dave Barker	Test Start:	2023.12.13 @ 02:	10:56	
Mud and Cu	shion Information)					
<i>f</i> ud Type: Ge <i>f</i> ud Weight: /iscosity: Vater Loss:	el Chem 9.00 lb/gal 56.00 sec/qt 8.79 in ³		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type:	ft bbl	Oil API: Water Salinity:	deg API 36000 ppm	
Resistivity: Salinity: Filter Cake:	ohm.m 7900.00 ppm 0.20 inches		Gas Cushion Pressure:	psig			
Recovery In	formation						
			Recovery Table	1	_		
		ngth ⁻ t	Description	Volume bbl			
		85.00	OSWCM 13.5%W 86.5%M	0.41			
		0.00	120' Gip	0.00	00		
	Total Length:		5.00 ft Total Volume: 0.418 b				
	Num Fluid Cor		Num Cas Bambay 0	Sorial	44.		
	Num Fluid Sar Laboratory Na		Num Gas Bombs: 0 Laboratory Location:	Serial	#:		
	Num Fluid Sar Laboratory Na Recovery Col	ame:	Num Gas Bombs: 0 Laboratory Location:	Serial	#:		
	Laboratory Na	ame:		Serial	#:		
	Laboratory Na	ame:		Serial	#:		
	Laboratory Na	ame:		Serial	#:		
	Laboratory Na	ame:		Serial :	#:		
	Laboratory Na	ame:		Serial	#:		
	Laboratory Na	ame:		Serial :	#:		
	Laboratory Na	ame:		Serial	#:		
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	Laboratory Na	ame:		Serial	#:		
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	Laboratory Na	ame:		Serial	#:		
	Laboratory Na	ame:		Serial	#:		
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	Laboratory Na	ame:		Serial	#:		
	Laboratory Na	ame:		Serial	#:		

Printed: 2023.12.13 @ 12:25:12

Ref. No: 71072

Trilobite Testing, Inc



Serial #: 8369

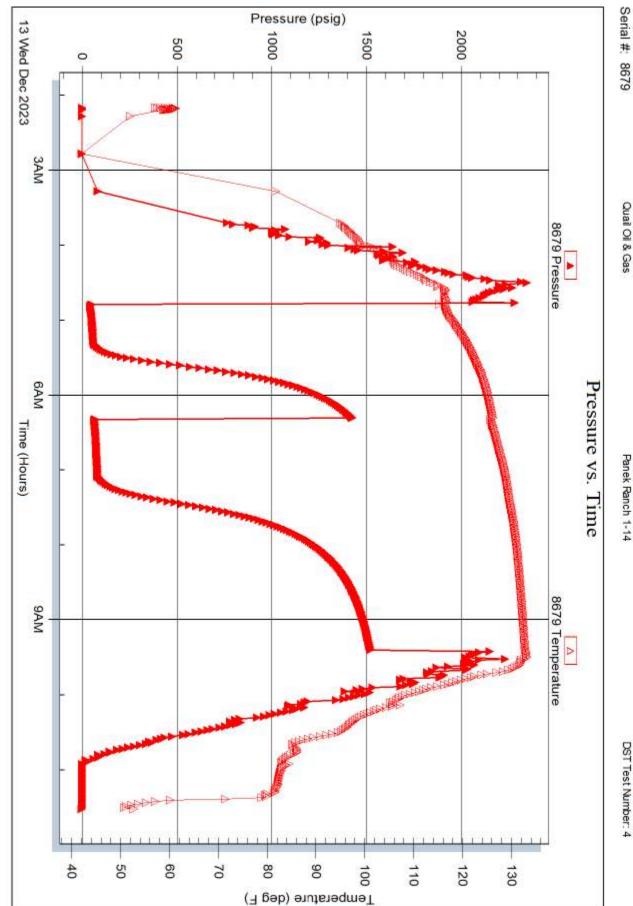
Outside Quail Oil & Gas

Panek Ranch 1-14

Printed: 2023.12.13 @ 12:25:12

Ref. No: 71072

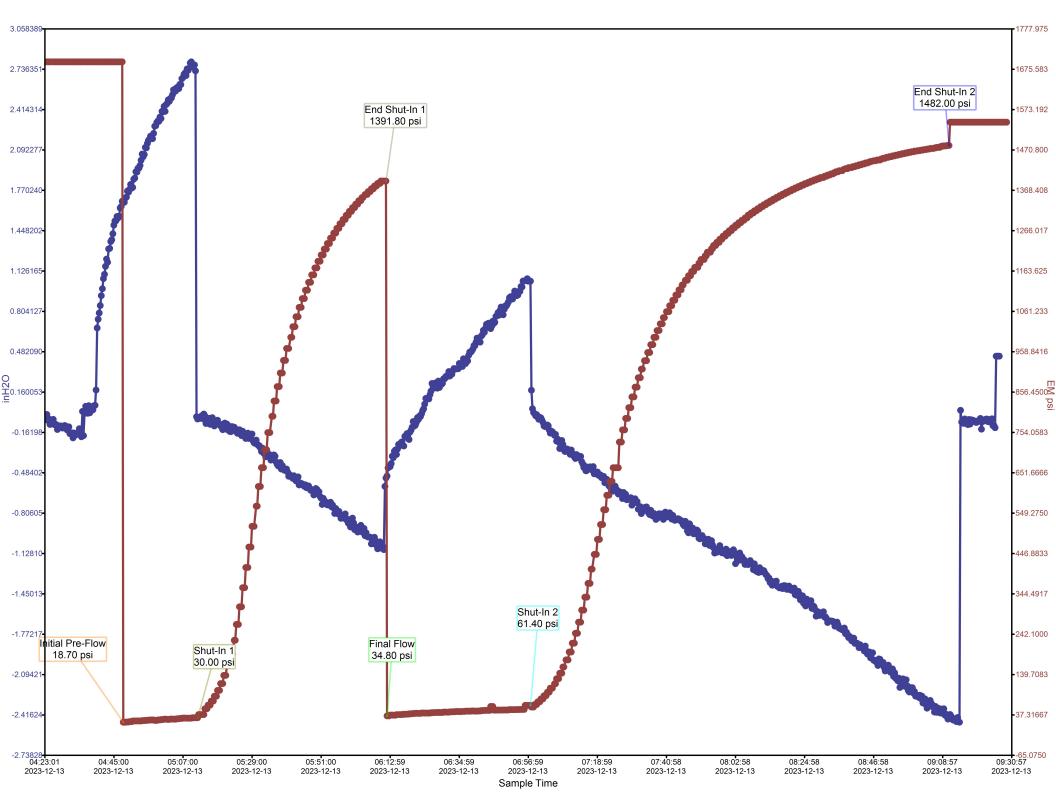
Trilobite Testing, Inc



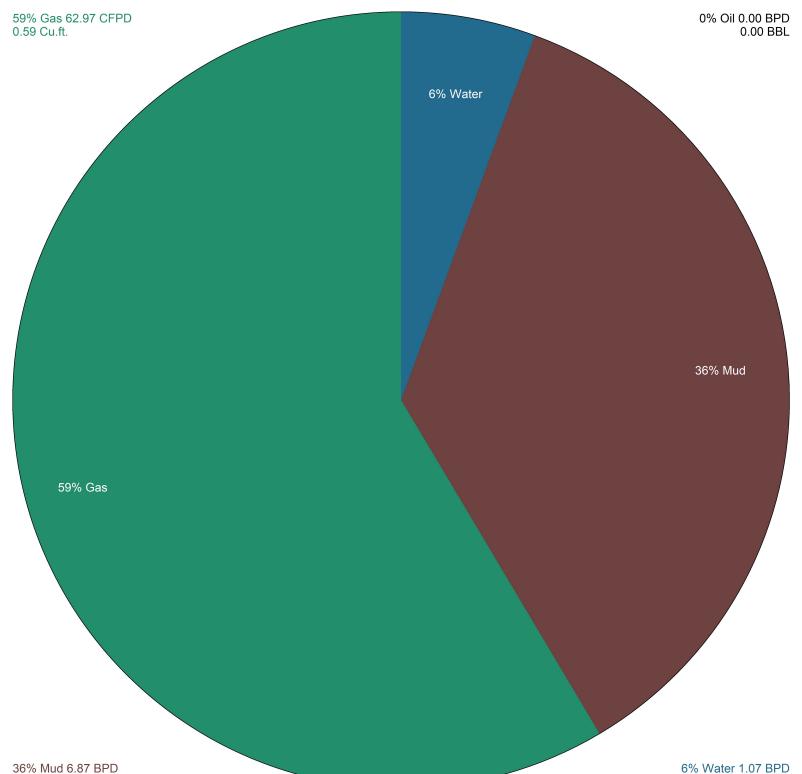
Quai Oi & Gas

Panek Ranch 1-14

Quail Oil & Gas - Panek Ranch 1-14 - Dst #4



Calculated Recovery Analysis - Quail Oil & Gas - Panek Ranch 1-14 - Dst #4



RILOBITE	DRILL STEM T			206 44		
TESTING, INC					W/Pratt	
	2005 N Taylor Ave. PO Box K Garden City KS		-		nch 1-14	
	67846			Ticket: 7		DST#: 5
and a state of the	ATTN: Dave Barker		les	t Start: 2	2023.12.08 @	9 22:58:00
GENERAL INFORMATION:						
Formation: Viiola Deviated: No Whipstock:	ft (KB)		Tos	t Type:	Convention	al Bottom Hole (Reset)
Time Tool Opened:			Tes		Eric Burges	
Time Test Ended:			Unit	No:	80	
	580.00 ft (KB) (TVD)		Ref	erence E	levations:	1789.00 ft (KB)
Total Depth:4580.00 ft (KB) (THole Diameter:7.79 inchesHol	,			KB	to GR/CF:	1784.00 ft (CF) 5.00 ft
Serial #: 8369 Outside Press@RunDepth: psig	@ 4551.00 ft (KB)		Capacity	:		8000.00 psig
Start Date: 2023.12.14	End Date:	2023.12.14	Last Cali			1899.12.30
Start Time: 03:04:04	End Time:	08:35:23	Time On Time Off			
			s to go back			
Pressure vs. T 339 Pressure	Time 338 Temperature	Timo	Pf		RE SUMM	
		Time (Min.)	_	RESSU Temp (deg F)	Annotati	
S309 Pressue	THE BOOK STREET	(Min.)	Pressure	Temp	Annotati	
339 Presure		(Min.)	Pressure	Temp	Annotati	
500 Fissue	533) Tempenakere	1100 (Min.) 1000	Pressure	Temp	Annotati	
500 1750	THE BOOK STREET	(Min.)	Pressure	Temp	Annotati	
500 500 Fissue	533) Tempenakere	1100 (Min.) 1000	Pressure	Temp	Annotati	
800 Hesure 100 He	533) Tempenakere	1190 (Min.) 1000 500 T 70 T 70 T 70 T 70 T 70 T 70 T 70 T	Pressure	Temp	Annotati	
300 1790 700 700 700 70	533) Tempenakere	199 (Min.) 100 50 Total 70 60	Pressure	Temp	Annotati	
SEEP Presure	SSE Imparator	1990 (Min.) 1000 200 T	Pressure	Temp	Annotati	
SEEP Presure	SSE Imparator	199 (Min.) 100 50 Total 70 60	Pressure	Temp	Annotati	
NET DECOVERY		199 (Min.) 100 50 Total 70 60	Pressure	Temp (deg F)	Annotation	on
ESEP Presure SERVICE SERVIC	BSB Impendue	199 (Min.) 100 50 Total 70 60	Pressure	Temp (deg F)	Annotation	
NET DECOVERY		199 (Min.) 100 50 Total 70 60	Pressure	Temp (deg F)	Annotation	on
Recovery Length (ft)	BSB Impendue	199 (Min.) 100 50 Total 70 60	Pressure	Temp (deg F)	Annotation	on
BEB Presure BEB PRES BEB PRES BE	BSB Impendue	199 (Min.) 100 50 Total 70 60	Pressure	Temp (deg F)	Annotation	on
BEB Presure BEB PRES BEB PRES BE	BSB Impendue	199 (Min.) 100 50 Total 70 60	Pressure	Temp (deg F)	Annotation	on

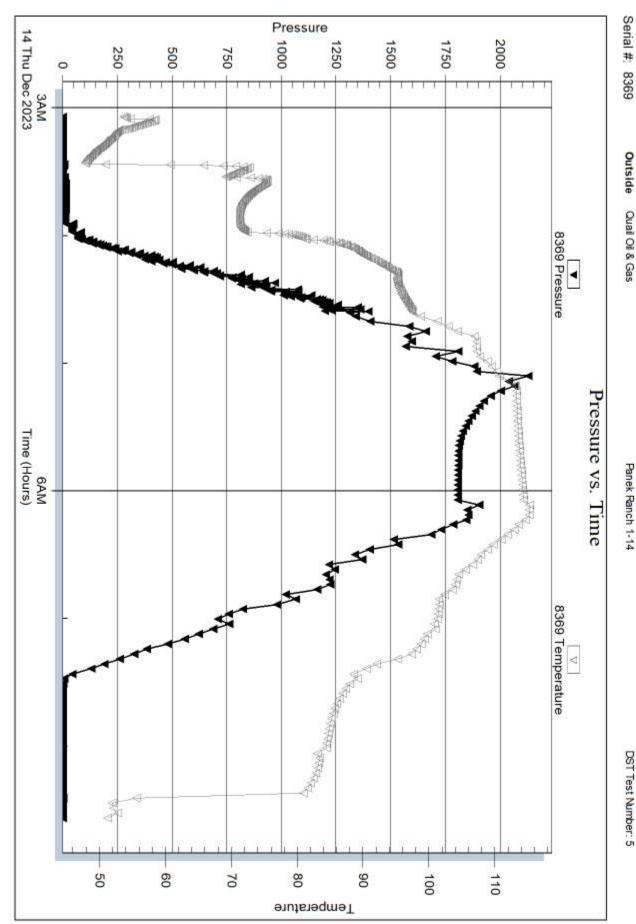
RILOBITE	DRILL STEM						
TESTING, INC	Quail Oil & Gas		14-	295-11	W/Pratt		
I ESTING, INC	2005 N Taylor Ave. PO Box K Garden City KS	;	-	nek Ra Ticket: 7	nch 1-14	DOT#. 6	
	67846 ATTN: Dave Barker				1073 2023.12.08 @	DST#:5	
GENERAL INFORMATION:							
Formation: Viiola							
Deviated: No Whipstock: Fime Tool Opened: Fime Test Ended:	ft (KB)		Tes		Convention Eric Burges 80	al Bottom Hole s	e (Reset)
Interval:4550.00 ft (KB) To4Total Depth:4580.00 ft (KB) (1Hole Diameter:7.79 inches Ho	TVD)		Ref		levations: to GR/CF:	1789.00 1784.00 5.00	ft (CF)
Serial #: 8679							
Press@RunDepth: psig	@ ft (KB)		Capacity	:		8000.00	psig
Start Date: 2023.12.14 Start Time: 03:04:28		2023.12.14 08:36:07	Last Calil Time On			2023.12.14	
Junt Hille. UJ.04.20		00.30.07	Time Off				
of bottom. Tripp Pressure vs.			s to go back	in for ds			
of bottom. Tripp Pressure vs.	ing tool out to drain fluid and		s to go back	in for ds	t #6.		
of bottom. Tripp	ing tool out to drain fluid and	Time	s to go back	in for ds	t #6. RE SUMM	1ARY	
of bottom. Tripp Pressure vs. 8099 Pressure	ing tool out to drain fluid and	Time (Min.)	s to go back	rin for ds RESSU Temp	t #6. RE SUMM	1ARY	
of bottom. Tripp	ing tool out to drain fluid and	Time (Min.)	s to go back	rin for ds RESSU Temp	t #6. RE SUMM	1ARY	
Pressure vs.	ing tool out to drain fluid and	Time (Min.)	s to go back	rin for ds RESSU Temp	t #6. RE SUMM	1ARY	
of bottom. Tripp	Time 859 Temperature	Time (Min.)	s to go back	rin for ds RESSU Temp	t #6. RE SUMM	1ARY	
of bottom. Tripp	Time 859 Temperature	Time (Min.)	s to go back	rin for ds RESSU Temp	t #6. RE SUMM	1ARY	
Pressure vs.	Time 859 Temperature	Time (Min.)	s to go back	rin for ds RESSU Temp	t #6. RE SUMM	1ARY	
of bottom. Tripp	Time 859 Temperature	Time (Min.)	s to go back	rin for ds RESSU Temp	t #6. RE SUMM	1ARY	
of bottom. Tripp	Time BD9 Temperature	Time (Min.)	s to go back	rin for ds RESSU Temp	t #6. RE SUMM	1ARY	
of bottom. Tripp	Time BDD Importer ADD Importer	Time (Min.)	s to go back	RESSU Temp (deg F)	t #6. RE SUMM	1ARY	
Pressure vs.	Time BDD Importer ADD Importer	Time (Min.)	s to go back	RESSU Temp (deg F)	RE SUMM	IARY ion	
Pressure vs.	Time BED Temperature Description Descript	Time (Min.)	s to go back	RESSU Temp (deg F)	RE SUMM	IARY ion	
Pressure vs. B09 Pressure B09 Pressure B00 Pressure B00 Pressure B00 Pressure B0	Time BDD Impendue Company of the second se	Time (Min.)	s to go back	RESSU Temp (deg F)	RE SUMM	IARY ion	
of bottom. Tripp	Time BDD Impendue Company of the second se	Time (Min.)	s to go back	RESSU Temp (deg F)	RE SUMM	IARY ion	
of bottom. Tripp	Time BDD Impendue Company of the second se	Time (Min.)	s to go back	RESSU Temp (deg F)	RE SUMM	IARY ion	s Rate (Mct/d)

RILOBITE Quail Oil & Gas 14-29S-11W/Pratt Quail Oil & Gas 14-29S-11W/Pratt 2005 N Taylor Ave. Panek Ranch 1-14 PO Box K Garden City KS Job Ticket: 71073 D 67846 ATTN: Dave Barker Test Start: 2023.12.08 @ 22:58	PST#:5
PO Box K Garden City KS 67846 Job Ticket: 71073 D	
67846 G7846 G7866	
	3:00
Mud and Cushion Information	
Mud Type: Gel Chem Cushion Type: Oil API:	deg API
Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity:	ppm
Viscosity: 66.00 sec/qt Cushion Volume: bbl	
Water Loss:10.79 in³Gas Cushion Type:	
Resistivity: ohm.m Gas Cushion Pressure: psig	
Salinity: 8900.00 ppm	
Filter Cake: 0.20 inches	
Recovery Information	
Recovery Table	
LengthDescriptionVolumeftbbl	
121.00 Mud 100%M 0.595	
Total Length: 121.00 ft Total Volume: 0.595 bbl	
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:	
Laboratory Name: Laboratory Location:	
Recovery Comments:	

Printed: 2023.12.14 @ 11:29:24

Ref. No: 71073

Trilobite Testing, Inc



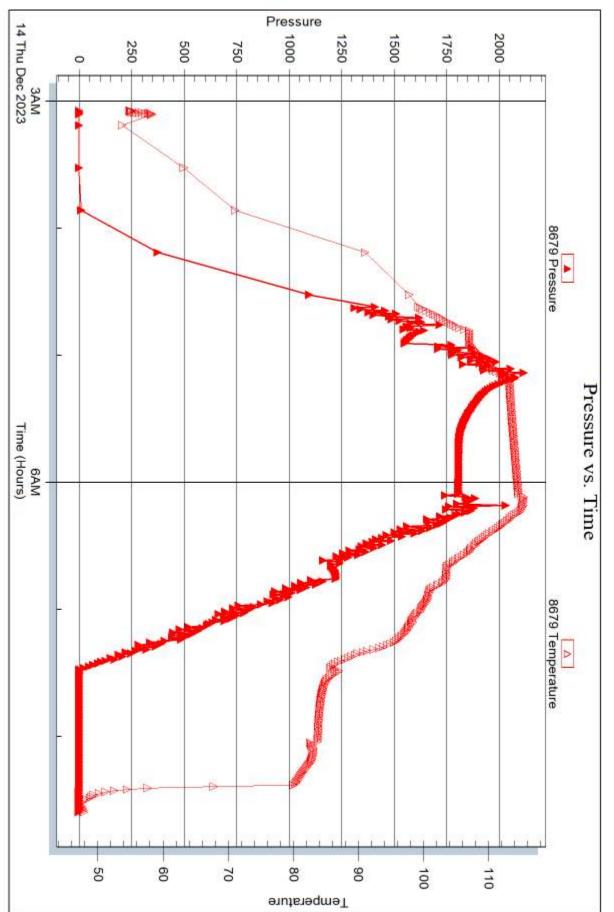
Outside Quai Oi & Gas

Panek Ranch 1-14

Printed: 2023.12.14 @ 11:29:24

Ref. No: 71073

Trilobite Testing, Inc



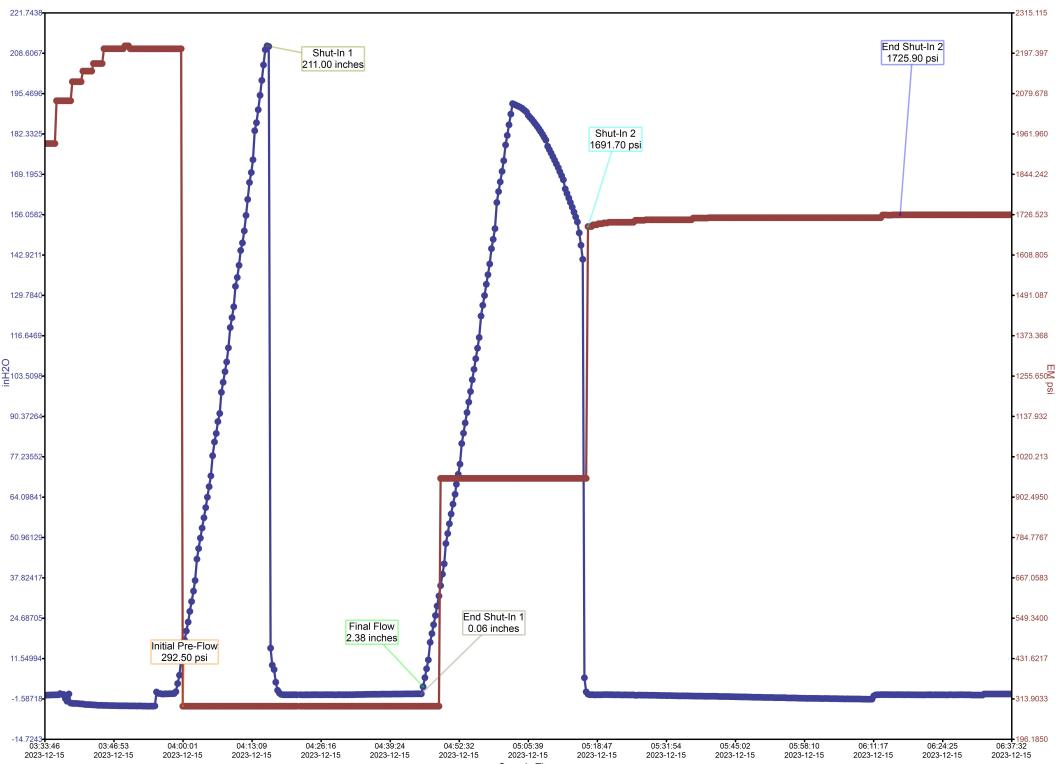
Panek Ranch 1-14

DST Test Number: 5

Serial #: 8679

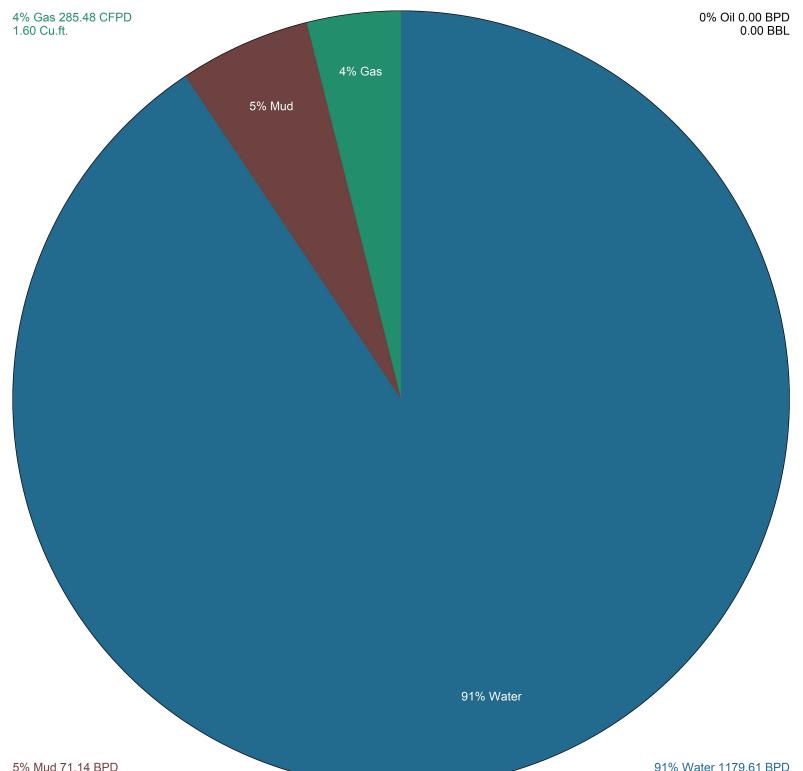
Quai Oi & Gas

Quail Oil & Gas - Panek Ranch 1-14 - Dst #7



Sample Time

Calculated Recovery Analysis - Quail Oil & Gas - Panek Ranch 1-14 - Dst #7



91% Water 1179.61 BPD 37.14 BBL

RILOBITE	DRILL STEM T	EST REP	URI				
	Quail Oil & Gas		14-:	29S-11V	V Pratt,KS	5	
ESTING , INC	2005 N Taylor Ave.		Pa	nek Rar	nch #1-14		
	PO Box K Garden City KS		Job	Ticket: 71	1075	DST#: 7	
	ATTN: Dave Barker		Test	t Start: 20)23.12.15 @	01:15:45	
GENERAL INFORMATION:							
Formation: Simpson Sand							
Deviated: No Whipstock:	ft (KB)				Conventional		e (Reset)
Time Tool Opened: 03:59:25 Time Test Ended: 10:03:15			Test Unit		Eric Burgess 80		
nterval: 4622.00 ft (KB) To 46	57.00 ft (KB) (TVD)		Refe	erence Ee	evations:	1789.00	ft (KB)
Total Depth: 4657.00 ft (KB) (T\						1784.00	
Hole Diameter: 7.79 inches Hole	e Condition: Fair			KB t	o GR/CF:	5.00	ft
Serial #: 8369 Outside							
Press@RunDepth: 1465.86 psig			Capacity			8000.00	psig
Start Date: 2023.12.15 Start Time: 01:15:46	End Date: End Time:	2023.12.15 10:03:15	Last Calil Time On I		2 2023.12.15	2023.12.15	
otan Time. U1:15:46		10:03:15	Time On Time Off		2023.12.15 @ 2023.12.15 @	-	
Pressure vs. T			PF	RESSUF	RE SUMMA	ARY	
	ime 5355 Tempendure	Time	Pressure	Temp	RE SUMMA		
229 229		- #30 (Min.)			Annotatio	n	
2270 2270 2000 2000 2000 2000 2000 2000		-150 (Min.)	Pressure (psig)	Temp (deg F)	Annotation	n o-static	
223		- 199 (Min.) - 140 0 - 130 2 - 139 19	Pressure (psig) 2217.77 300.37 898.35	Temp (deg F) 121.28 120.32 153.32	Annotation Initial Hydro Open To Flo Shut-In(1)	n o-static ow (1)	
2299 2000 1799 1900		- +** (Min.) - +* 0 - +* 2 - ** 2 - ** 19 - ** 48	Pressure (psig) 2217.77 300.37 898.35 1747.85	Temp (deg F) 121.28 120.32 153.32 149.33	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In	n o-static ow (1) n(1)	
2299 2000 1799 1900		- +** (Min.) - +* 0 - +* 2 - ** 2 - ** 19 - ** 48	Pressure (psig) 2217.77 300.37 898.35	Temp (deg F) 121.28 120.32 153.32 149.33	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo	n o-static ow (1) n(1)	
2299 2000 1799 1900		- 150 (Min.) - 160 0 - 130 2 - 120 19 - 120 48 - 100 - 10 - 120 78 - 100 - 10 - 120 19 -	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n o-static ow (1) n(1) ow (2) n(2)	
2290 2000 779 2000 779 2000 779 779 779 779 779 779 779		- 150 (Min.) - 160 0 - 130 2 - 120 19 - 120 48 - 110 1 - 130 49 - 300 144 78	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n o-static ow (1) n(1) ow (2) n(2)	
220 Freme 200 Fr		- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 100 448 - 100 5 - 100 5 - 100 5 - 100 5 - 100 5 - 101 44 - 70	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n o-static ow (1) n(1) ow (2) n(2)	
229 300 750 750 750 750 750 750 750 7		- +=> (Min.) - +=> 0 - +=> 2 - +=> 2 - +=> 2 - +=> 48 - +=> 49 - +=> 49 - +=> 78 - 78 - 141 - => 144	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n o-static ow (1) n(1) ow (2) n(2)	
SEB Presure		- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 140 - 48 - 100 - 48 - 100 - 78 - 300 - 141 - 50 144 - 70 - 60	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n o-static ow (1) n(1) ow (2) n(2)	
250 Presure 260		- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 140 - 48 - 100 - 48 - 100 - 78 - 300 - 141 - 50 144 - 70 - 60	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n o-static ow (1) n(1) ow (2) n(2)	
EFIDEREZZ	STO Properties C	- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 140 - 48 - 100 - 48 - 100 - 78 - 300 - 141 - 50 144 - 70 - 60	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67 145.78	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro	n o-static ow (1) n(1) ow (2) n(2) -static	
EFIDe: 223	SEP Traperative	- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 140 - 48 - 100 - 48 - 100 - 78 - 300 - 141 - 50 144 - 70 - 60	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 149.33 148.85 152.59 148.67 145.78	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro	n o-static ow (1) n(1) ow (2) n(2) -static	s Rate (Mcf/d)
region of the second se	SCO Travension SCO Travension	- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 140 - 48 - 100 - 48 - 100 - 78 - 300 - 141 - 50 144 - 70 - 60	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67 145.78	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro	n o-static ow (1) n(1) ow (2) n(2) -static	s Rate (Mcf/d)
EFIDe: 223	SEP Traperative	- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 140 - 48 - 100 - 48 - 100 - 78 - 300 - 141 - 50 144 - 70 - 60	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67 145.78	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro	n o-static ow (1) n(1) ow (2) n(2) -static	s Rate (Mcf/d)
220 200 200 200 200 200 200 200	SCO Travension SCO Travension	- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 140 - 48 - 100 - 48 - 100 - 78 - 300 - 141 - 50 144 - 70 - 60	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67 145.78	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro	n o-static ow (1) n(1) ow (2) n(2) -static	s Rate (Mcf/d)
220 300 400 400 400 400 400 400 40	SCO Travension SCO Travension	- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 140 - 48 - 100 - 48 - 100 - 78 - 300 - 141 - 50 144 - 70 - 60	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67 145.78	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro	n o-static ow (1) n(1) ow (2) n(2) -static	s Rate (Mcf/d)
220 300 400 400 400 400 400 400 40	SCO Travension SCO Travension	- 150 (Min.) - 140 0 - 130 2 - 130 19 - 130 48 - 140 - 48 - 100 - 48 - 100 - 78 - 300 - 141 - 50 144 - 70 - 60	Pressure (psig) 2217.77 300.37 898.35 1747.85 916.68 1465.86 1750.85	Temp (deg F) 121.28 120.32 153.32 149.33 148.85 152.59 148.67 145.78	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro	n o-static ow (1) n(1) ow (2) n(2) -static	s Rate (Mcf/d)

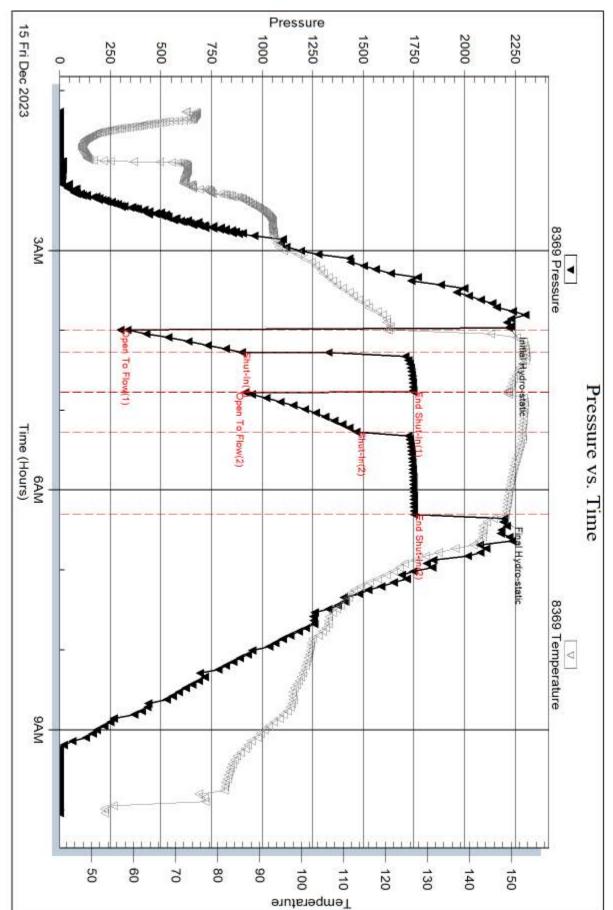
RILOBITE	DRILL STEM TE	STREP	JRI		
	Quail Oil & Gas		14-29S-1 ⁻	1W Pratt,K	S
ESTING , INC	2005 N Taylor Ave.		Panek R	anch #1-14	
	PO Box K Garden City KS		Job Ticket:	71075	DST#: 7
	ATTN: Dave Barker		Test Start:	2023.12.15 @	01:15:45
GENERAL INFORMATION:					
Formation: Simpson Sand Deviated: No Whipstock: Filme Tool Opened: 03:59:25 Filme Test Ended: 10:03:15	ft (KB)		Test Type: Tester: Unit No:	Conventiona Eric Burges 80	al Bottom Hole (Reset) s
Interval:4622.00 ft (KB) To46Total Depth:4657.00 ft (KB) (TVHole Diameter:7.79 inches Hole	/D)		Reference K	Elevations: B to GR/CF:	1789.00 ft (KB) 1784.00 ft (CF) 5.00 ft
	End Date: End Time:	2023.12.15 10:03:42	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 1899.12.30
FSI:No Blow Bac	k. (60)	Time		JRE SUMM	
	A 1		Pressure Temp (psig) (deg F		on
		(Min.)	(psig) (deg f		on
		(Min.)	(psig) (deg f		on
rro ro ro ro ro ro ro ro ro ro ro ro ro	Volume (bbl)	(Min.)	(psig) (deg f	=) Gas Rates	ure (psig) Gas Rate (Mcf/d)
rra rra rra rra rra rra rra rra	Volume (bbl) 31.60	(Min.)	(psig) (deg f	=) Gas Rates	
rro ro ro ro ro ro ro ro ro ro ro ro ro	Volume (bbl)	(Min.)	(psig) (deg f	=) Gas Rates	
rro rro rro rro rro rro rro rro rro rro	Volume (bbl) 31.60	(Min.)	(psig) (deg f	=) Gas Rates	
rro rro rro rro rro rro rro rro rro rro	Volume (bbl) 31.60	(Min.)	(psig) (deg f	=) Gas Rates	

$\Delta (\mathbf{x})$		DRI	LL STEM TEST REPO	DRT	FLU	IID SUMMAR
	RILOBITE	Quail ()il & Gas	14-29S-1	1W Pratt,KS	
	RILOBITE		l Taylor Ave.	Panek R	anch #1-14	
83 I I		PO Bo		Job Ticket:	71075 DS	T#:7
			n City KS			
uitedi.		ATTN:	Dave Barker	Test Start:	2023.12.15 @ 01:15:	45
Mud and Cu	shion Information					
/lud Type: G			Cushion Type:		Oil API:	deg API
<i>I</i> ud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
/iscosity:	59.00 sec/qt		Cushion Volume:	bbl		
Vater Loss:	10.79 in ³		Gas Cushion Type:			
Resistivity:	ohm.m		Gas Cushion Pressure:	psig		
Salinity:	6500.00 ppm					
Filter Cake:	0.20 inches					
Recovery In	formation					
			Recovery Table		_	
	Leng ft	th	Description	Volume bbl		
		2331.00	GCW 5%G 95%W	31.59	96	
		630.00	MCW 25%M 75%W	8.8	37	
	Total Length:	2961	.00 ft Total Volume: 40.433	3 bbl		
	Num Fluid Sam	oles: 0	Num Gas Bombs: 0	Serial	#:	
	Laboratory Nar		Laboratory Location:			
	Recovery Com					

Printed: 2023.12.15 @ 11:00:02

Ref. No: 71075

Trilobite Testing, Inc



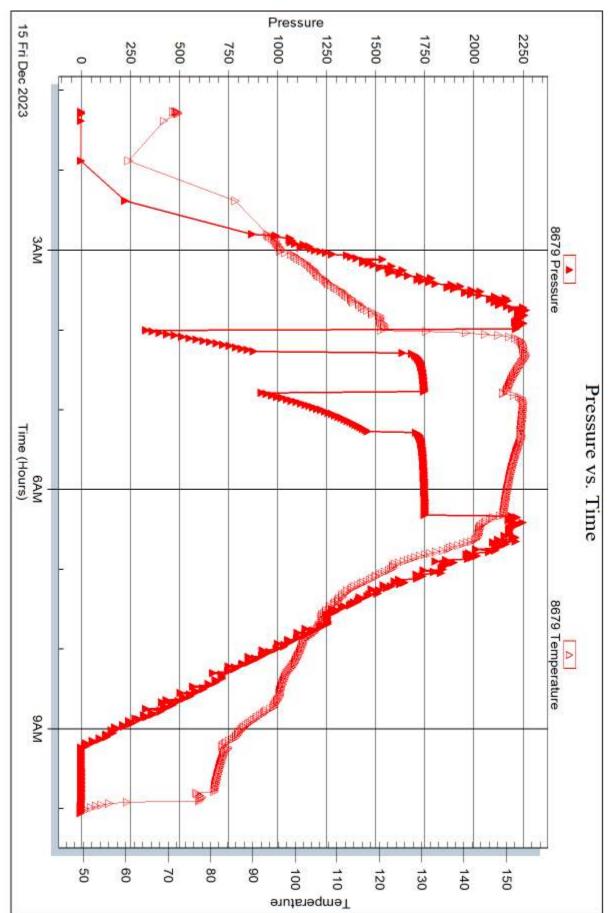
Serial #: 8369 Outside Quail Oil & Gas

Panek Ranch #1-14

Printed: 2023.12.15 @ 11:00:02

Ref. No: 71075

Trilobite Testing, Inc



Quai Oi & Gas

Serial #: 8679

Panek Ranch #1-14

RILOBITE	DRILL STEM TES	ST REP	ORT				
	Quail Oil & Gas		14-2	29S-11V	V/Pratt		
TESTING, I	2005 N Taylor Ave. PO Box K Garden City KS		Par	nek Ran	nch 1-14		
	67846		Job	Ticket: 70	0751	DST#: 8	
	ATTN: Dave Barker		Test	Start: 20	023.12.16 @	11:10:38	
GENERAL INFORMATION:							
Formation: Viola				- -		o	
Deviated: No Whipstoc Time Tool Opened: 13:45:58 Time Test Ended: 20:22:27	c ft (KB)		Test Test Unit	ter: I	Conventional Eric Burgess 30		æset)
Interval: 4523.00 ft (KB) To	4590.00 ft (KB) (TVD)		Refe	erence Ee	evations:	1789.00	ft (KB)
Total Depth: 4790.00 ft (KB)						1784.00	
Hole Diameter: 7.79 inches	lole Condition: Fair			KBt	o GR/CF:	5.00	11
Serial #: 8369 Outside			0			0000.00	mair
Press@RunDepth: 55.99 ps Start Date: 2023.12.		2023.12.16	Capacity: Last Calik			8000.00 2023.12.16	psig
Start Time: 11:10:	9 End Time:	20:22:27	Time On I		2023.12.16 @	-	
			Time Off	Btm: 2	2023.12.16 (2) 17:15:17	
TEST COMMENT: IF:Weak Build ISI:No Blow E FF:Weak Buil FSI:No Blow	ack. (60) ling Blow built to 2.57" (60)						
Pressure			PF	RESSUR	RE SUMMA		
2700	 8309 Temperature 	Time	Pressure	Temp	Annotatio		
		(Min.) 0	(psig) 2267.18	(deg F) 122.26	Initial Hydro	static	
		3	50.18	122.20	Open To Fl		
		34	49.16	128.51	Shut-In(1)		
			254.90 45.37	130.80 130.75	End Shut-Ir Open To Fl		
		135	55.99	131.75	Shut-In(2)	500(2)	
		212	189.94	133.04	End Shut-Ir		
		213	2008.72	133.55	Final Hydro	-static	
0 LTM 3FM	674 674						
Recove	- I I			1	s Rates		- D-t- (11 7 1
Length (ft) Description 10.00 Mud 100% M	Volume (bbl) 0.05			Choke (i	Pressur	e (psig) Ga	s Rate (Mcf/d)
0.00 121' GIP	0.00						
* Recovery from multiple tests							

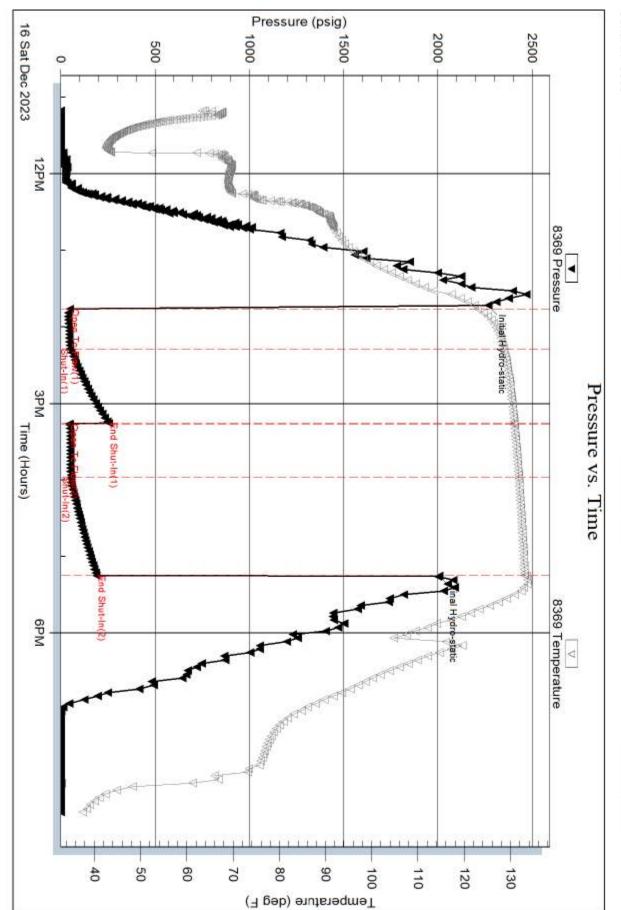
	RILOBITE	DRILL STEM TE	ST REP	ORI			
No and the second secon		Quail Oil & Gas		14-	295-11\	N/Pratt	
	ESTING , INC	2005 N Taylor Ave. PO Box K Garden City KS		Ра	nek Ra	nch 1-14	
		67846		Job	Ticket: 7	0751	DST#:8
NOW.		ATTN: Dave Barker		Tes	t Start: 2	023.12.16 @	0 11:10:38
GENERAL IN	NFORMATION:						
Formation:	Viola			_		•	
Deviated: Fime Tool Open	No Whipstock:	ft (KB)		Tes		Eric Burges	al Straddle (Reset)
lime Test Ende						80	5
nterval:	4523.00 ft (KB) To 45	90.00 ft (KB) (TVD)		Ref	erence 🗄	evations:	1789.00 ft (KB)
Fotal Depth:	4790.00 ft (KB) (T	-					1784.00 ft (CF)
Hole Diameter:	7.79 inchesHole	Condition: Fair			KB	to GR/CF:	5.00 ft
Serial #: 88							
Press@RunDep Start Data:	pth: psig 2023.12.16	-	2022 42 42	Capacity			8000.00 psig
Start Date: Start Time:	2023.12.16 11:10:14	End Date: End Time:	2023.12.16 20:21:32	Last Cali Time On			1899.12.30
	11.10.14		20.21.02	Time Off			
	FSI:No Blow Bac		Time	Pl Pressure	RESSUI Temp	RE SUMN	
2500			(Min.)	(psig)	(deg F)		
	1		(d•g F)				
500 500 6 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	3°M Tree(face)						
					Ga	as Rates	
500 500 500 500 500 500 500 500	Time (Huss) Recovery Description	Grad Volume (bbl)			-		ure (psig) Gas Rate (Mcf/d)
500	Time (Huss) Recovery Description Mud 100%M	Volume (bbl) 0.05			-		ure (psig) Gas Rate (Mcf/d)
500 0	Time (Huss) Recovery Description	Grad Volume (bbl)			-		ure (psig) Gas Rate (Mcf/d)
500 500 500 500 500 500 500 500	Time (Huss) Recovery Description Mud 100%M	Volume (bbl) 0.05			-		ure (psig) Gas Rate (Mcf/d)
500	Time (Huss) Recovery Description Mud 100%M	Volume (bbl) 0.05			-		ure (psig) Gas Rate (Mcf/d)
500 500 500 500 500 500 500 500 500 500	Time (Huss) Recovery Description Mud 100%M	Volume (bbl) 0.05			-		ure (psig) Gas Rate (Mcf/d)
500 500 500 500 500 500 500 500 500 500	Time (Huns) Recovery Description Mud 100%M 121' GIP	Volume (bbl) 0.05			-		ure (psig) Gas Rate (Mcf/d)

RILOBITE	DRILL STEM TES	ST REP	ORT			
	Quail Oil & Gas		14-2	29S-11V	N/Pratt	
TESTING , INC	2005 N Taylor Ave. PO Box K Garden City KS		Par	nek Rai	nch 1-14	
	67846		Job	Ticket: 7	0751	DST#:8
NOK.	ATTN: Dave Barker		Test	Start: 2	023.12.16 @	0 11:10:38
GENERAL INFORMATION:						
Formation: Viola Deviated: No Whipstock: Time Tool Opened: 13:45:58 Time Test Ended: 20:22:27	ft (KB)		Test Test Unit	er:	Conventiona Eric Burges 80	al Straddle (Reset) s
Interval: 4523.00 ft (KB) To 45	90.00 ft (KB) (TVD)		Refe	erence 🖯	evations:	1789.00 ft (KB)
Total Depth: 4790.00 ft (KB) (TV	/D)					1784.00 ft (CF)
Hole Diameter: 7.79 inchesHole	Condition: Fair			KB	to GR/CF:	5.00 ft
Serial #: 8679			0 "			0000 00 m i
Press@RunDepth: psig Start Date: 2023.12.16	@ ft (KB) End Date:	2023.12.16	Capacity: Last Calib			8000.00 psig 1899.12.30
Start Time: 11:10:35	End Time:	20:22:44	Time On E			
			Time Off	Btm:		
FSI:No Blow Bac	ĩme		PF	RESSU	RE SUMM	IARY
	0 8679 Temperature	Time	Pressure	Temp	Annotati	on
		(Min.)	(psig)	(deg F)		
4530 45300 45300 4530 45300 45300 45300 45300 45300 45300 45300 45		Temperatur (dec P)				
		Temperatura (das P)		Ga	as Rates	
source of the second se				-		ure (psig) Gas Rate (Mcf/d)
sou Dec 222 Length (ft) Description 10.00 Mud 100%M	Volume (bbl) 0.05			-		ure (psig) Gas Rate (Mcf/d)
sou sou sou sou sou sou sou sou sou sou				-		ure (psig) Gas Rate (Mcf/d)
sou Dec 222 creations in the plane in the pl	Volume (bbl) 0.05			-		ure (psig) Gas Rate (Mcf/d)
sou Dec 222 Length (ft) Description 10.00 Mud 100%M	Volume (bbl) 0.05			-		ure (psig) Gas Rate (Mcf/d)
recovery Length (ft) Description 10.00 Mud 100%M	Volume (bbl) 0.05			-		ure (psig) Gas Rate (Mcf/d)

		DRI	LL ST	EM TEST	REPORT	-		FLUID SU	JMMARY
	RILOBITE		il & Gas			14-295-11	W/Pratt		
TESTING, INC		PO Box 67846	2005 N Taylor Ave. PO Box K Garden City KS 67846 ATTN: Dave Barker			Panek Ra Job Ticket: 7 Test Start: 2		DST#: 8 11:10:38	
Mud and Cushion I	nformation								
Mud Type: Gel Chem Mud Weight: 9.0 Viscosity: 120.0 Water Loss: 13.1 Resistivity: Salinity: 11000.0	00 lb/gal 00 sec/qt 19 in³ ohm.m		Cu Cu Ga	shion Type: shion Length: shion Volume: as Cushion Type: as Cushion Press		ft bbl psig	Oil API: Water Salinity:	:	deg API ppm
Recovery Informati	on								
			Re	ecovery Table			7		
	Leng ft	th		Description		Volume bbl			
		10.00 0.00	Mud 100% 121' GIP	6M		0.049	-		
	Total Length:		.00 ft	Total Volume:	0.049 bbl	0.000	4		
	Laboratory Nan Recovery Com			Laboratory Loca	ation:				



Ref. No: 70751



Serial #: 8369 Outside

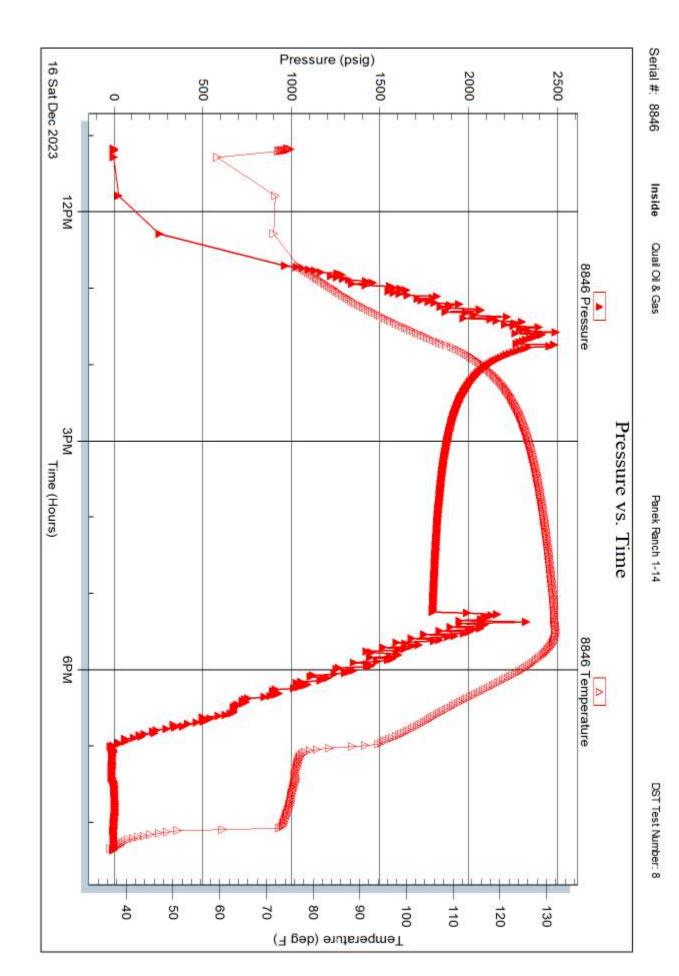
Outside Quail Oil & Gas

Panek Ranch 1-14

Printed: 2023.12.16 @ 22:51:13

Ref. No: 70751

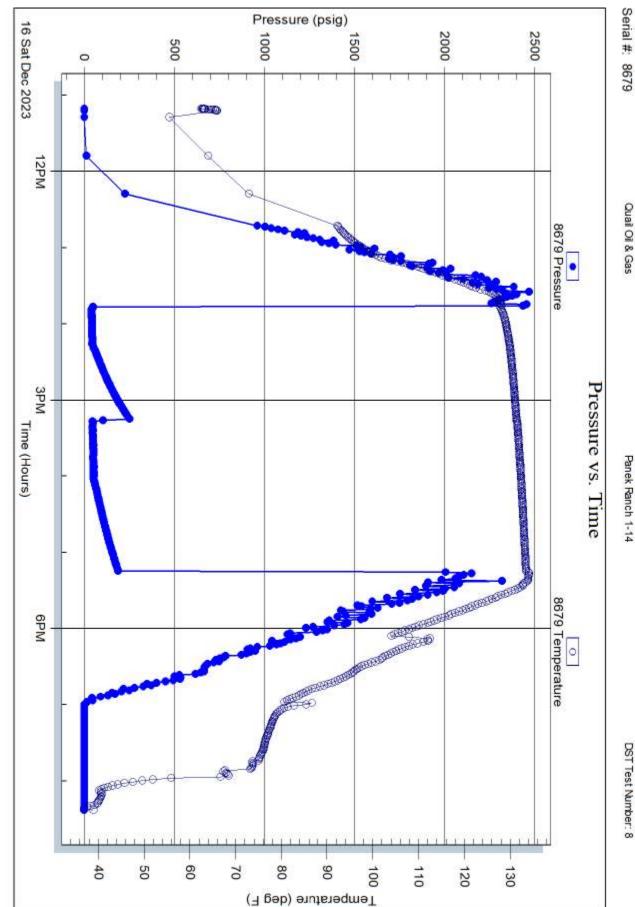
Trilobite Testing, Inc



Printed: 2023.12.16 @ 22:51:13

Ref. No: 70751

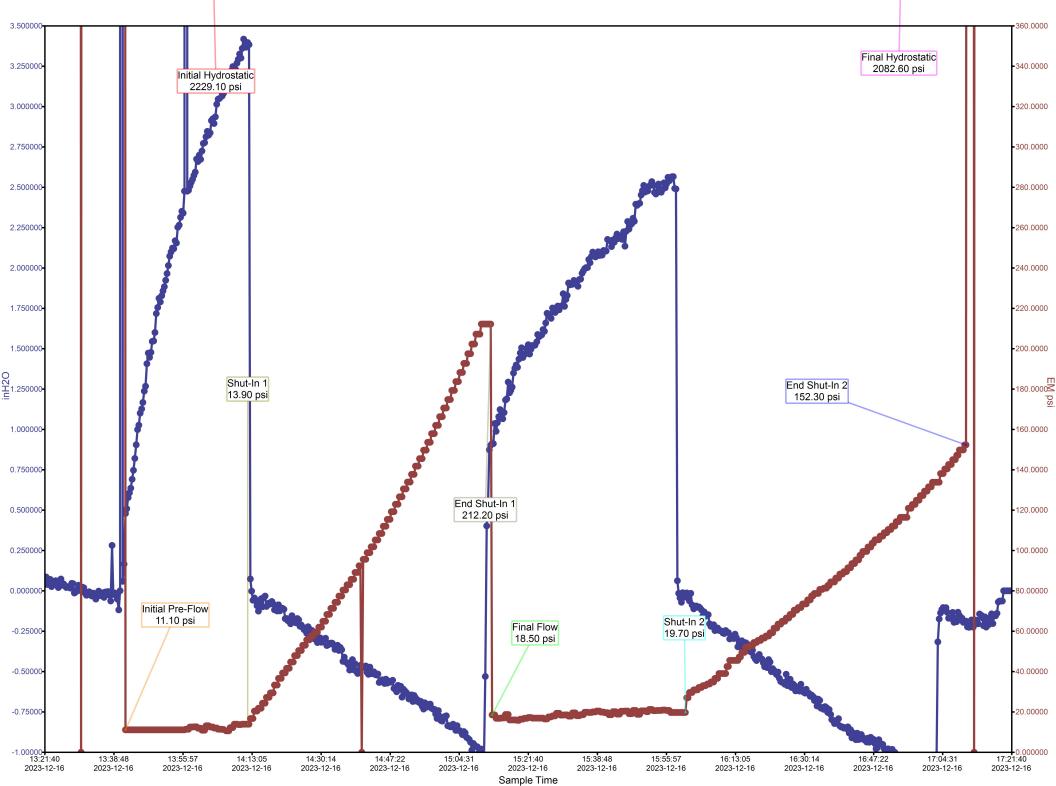




Quai Oi & Gas

Panek Ranch 1-14





David A. Barker 🇺

CONSULTING GEOLOGIST

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

Well Id:	Panek Ranch 1-14 15-007-22575 14-T29S-R11W
License Number:	Region: Barber County, Kansas
Spud Date:	12-04-2023 Drilling Completed: 12-16-2023
Surface Coordinates:	SE NE NW SW/4 or 1301 FWL and 2228 FSL
Bottom Hole Coordinates:	same as above
Ground Elevation (ft):	1784 K.B. Elevation (ft): 1791
Logged Interval (ft): Formation:	• • • •
Type of Drilling Fluid:	
	Printed by WellSight LogViewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Ouail Oil & Gas Address: PO Box K Garden City, KS 67648

GEOLOGIST

Name: David A. Barker Company: Address: 212 N. Market, Suite# 320 Wichita, Kansas 67202 (316) 259-4294, 2 Barker@sbcglobal.net

Contractor

Pickrell Drilling, 929 W Douglas Ave, Wichita, KS 67213, 316-262-8427

Remarks

All oil and gas shows that warrented drill stem testing were tested in this well. A total of 8 drillstem tests were attempted at this location two of which were miss runs. After reviewing the electric logs, drill stem results and sample information it was decided to plug and abandon the 1-14 Panek on December 16, 2023.

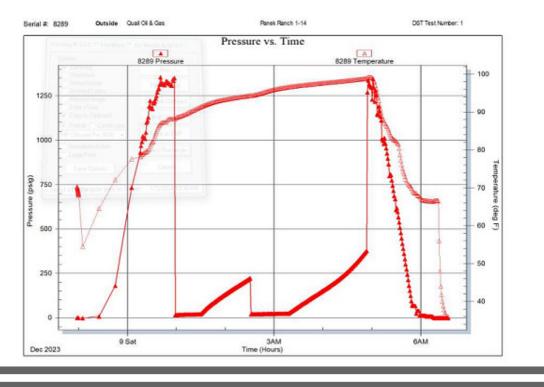
Daily Status

Straight hole tests: 305': 1/2 deg, 809': 1/2 deg, 1346': 1/2 deg. 1789': bullseye, 2326': 1/2 deg, 2832': 3/4 deg, 3691': Bullseve, 4790': 3/4 dea. **Daily Status** 12/06/2023: depth 306' Spud 3:00 P.M. 10:00 P.M. run 7 JTS of 8 5/8, plug down at 11:45 P.M. 12/07/2023: Morning depth: 1693 12/08/2023: Morning depth: 2560 12/09/2023: Morning depth: 2880 displacment at 2705 to 2760, DST #1 2857' to 2880' 12/10/2023: Morning depth: 3580' DST #2 3520 to 3585' 12/11/2023: Morning depth: 3880: 12/12/2023: Morning depth: 4120' DST #3. 4093 to 4120' 12/13/2023: Morning depth: 4347: DST #4 4288 to 4347' 12/14/2023: Morning depth: 4580, DST #5 4550 to 4580', tripping in the hole too fast hit a brige and openned the tool and picked up 121' of mud. tripped out of hole reset tool while tripping in with the test tool for DST #6 the operator decided to wait to test the Viola until after the Elog. 12/15/2023: Morning depth: 4657, DST #7 4622 to 4657' 12/16/2023: Morning depth: 4790 TD Elog 12/17/2023: Morning depth: 4790 straddel test DST #8 4523 to 4590', Decision to plug and abandon, Plugging info: 50 sx at 4712', 50 sx at 660' 50 sx at 330' 20 sx at 60', 20 sx rat hole.

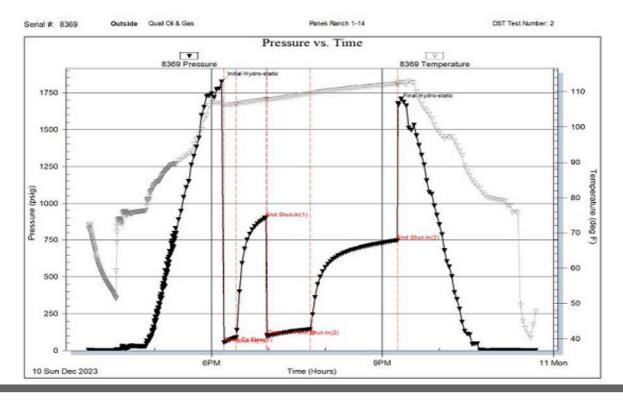
DST #5 4550 to 4580, Viola, The driller was tripping into the hole too fast and hit a bridge hard enough to open the tool. The tool opened about about two and half rows off bottom. Tripped out of the hole to drain the tool and reset the tool

DST # 6 4550 to 4580, Viola, Tripping into the hole with the tool for DST #6 and after 5 stands in the hole, the operator decided to wait to test this zone, with a straddle test after the Elog-see DST #8

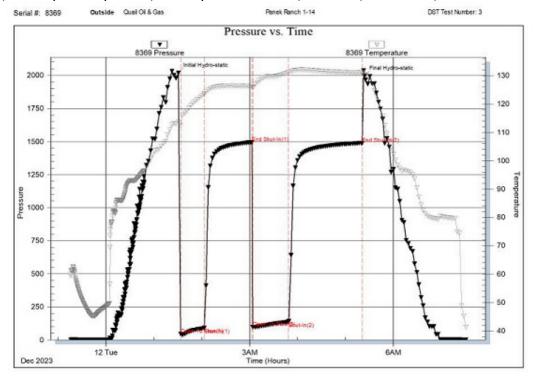
DST #1 2857 to 2880, Tarkio Sand, 30, 60, 45,90, IFP: fair blow BOB in 18 minu tes built to 17 inches, ISIP: no blow back, FFP: Strong blow BOB in 10 minutes, built to 19'', FSIP: no blow back, REC: 500' GIP, 15' mud (5% gas 95% mud), HP1381 to 1330#, IFP 23.7 to 22, FFP19 to 25#, BHP222 to 380#, BHT 99.7



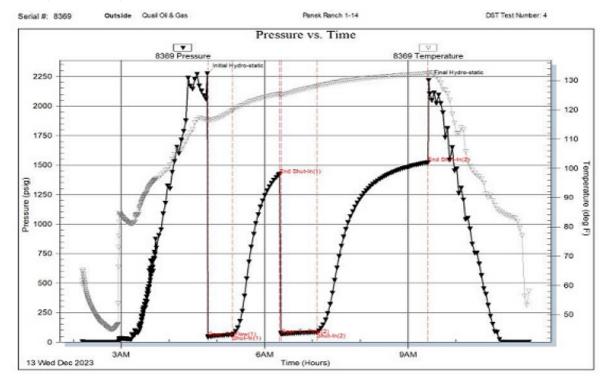
DST #2, 3520 to 3585' Lecompton, 15-30-45-90, : Strong building Blow built to 93.23'', IFIP 25'' blow back, FFP: Strong building blow, built to 57.10'' FFP: 1'' blow back, REC 1827' GIP, 60', 32' WMCO (55% oil, 25% WTR, 20% mud, 64' OMCW (5% oil, 85% WTR, 10% mud), 60' VSOMCW (2% oil, 95% WTR, 3% mud), 60' GMCW (5%, 80% WTR, 15% MUD), IHP 1824 to 1677#, IFP 54-89#, FFP 106 to 143#, BHP 900 to 747#, BHT 112 deg



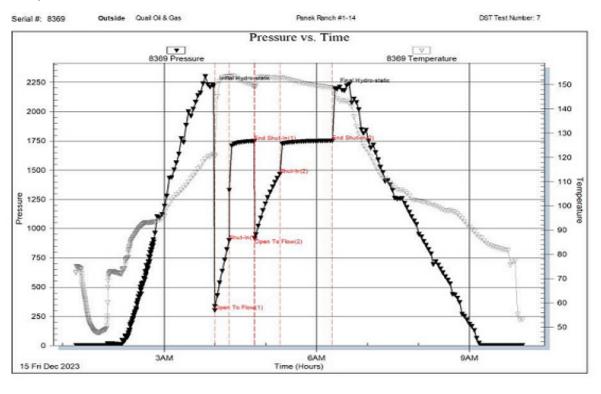
DST #3, 4093 to 4120, Lansing 'Swope'', 30-60-45-90, IFP strong blow building to 24.51'', ISI : no blow back, FFP: Fair blow building to 17.87'', FSI: No blow back. REC: 441' GIP, 64' of OMCW (30%oikl, 40% wtr & 30% mud), 64'' MW (95%WTR, 5% mud), 60'' MW (95% wtr, 5% mud) 60' MW (97% wtr, 3% mud) BHP 1493-1488#, IFP 46-90#, FFP 97-136#, HP 1493-1488#



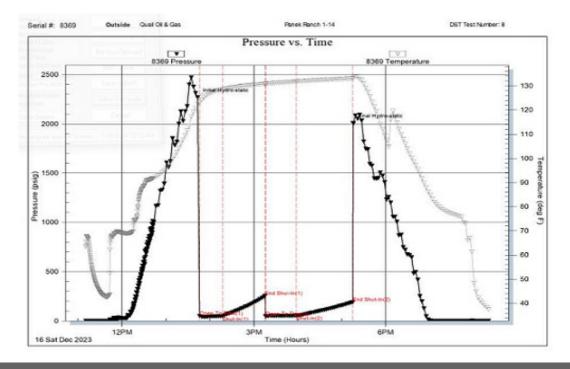
DST #4 4288 to 4347, Mississippian, 30-60-45-120, IFP: weak building blow to 2.77', ISIP: no blow back, FFP: Weak building blow building to 1.04'', FSI: no blow back, REC:120' GIP, 85' OSWCM (13.5 % WTR, 86.5 mud), IHP 2274-2216#, BHP 1424 to 1522#, IFP 43 to 63#, FFP 66 to 92#, BHT 132

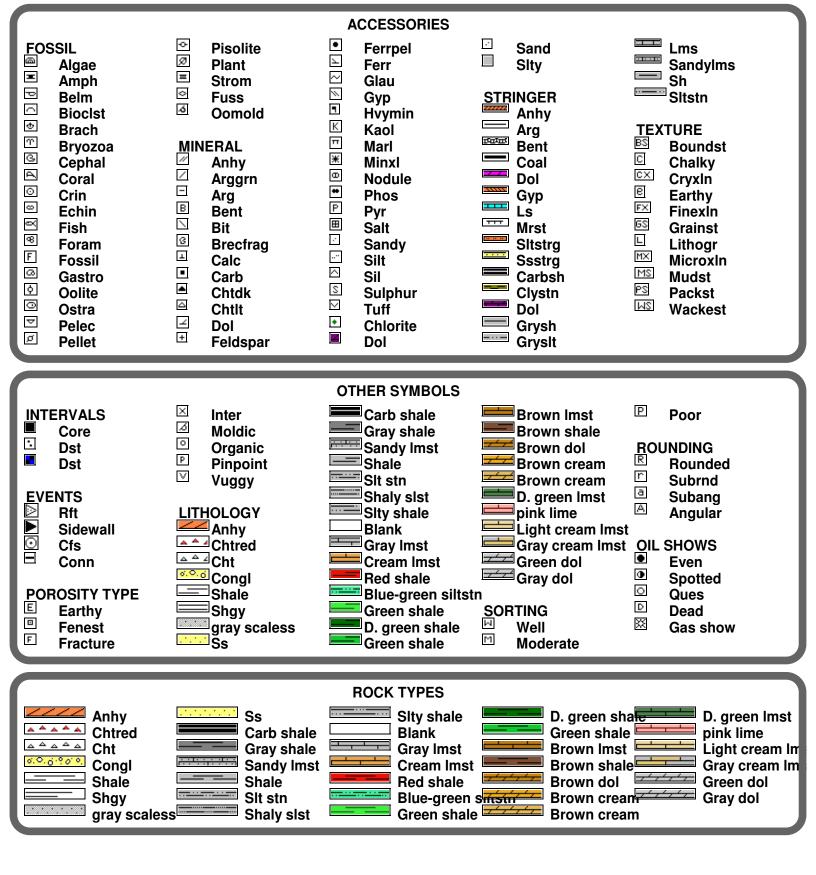


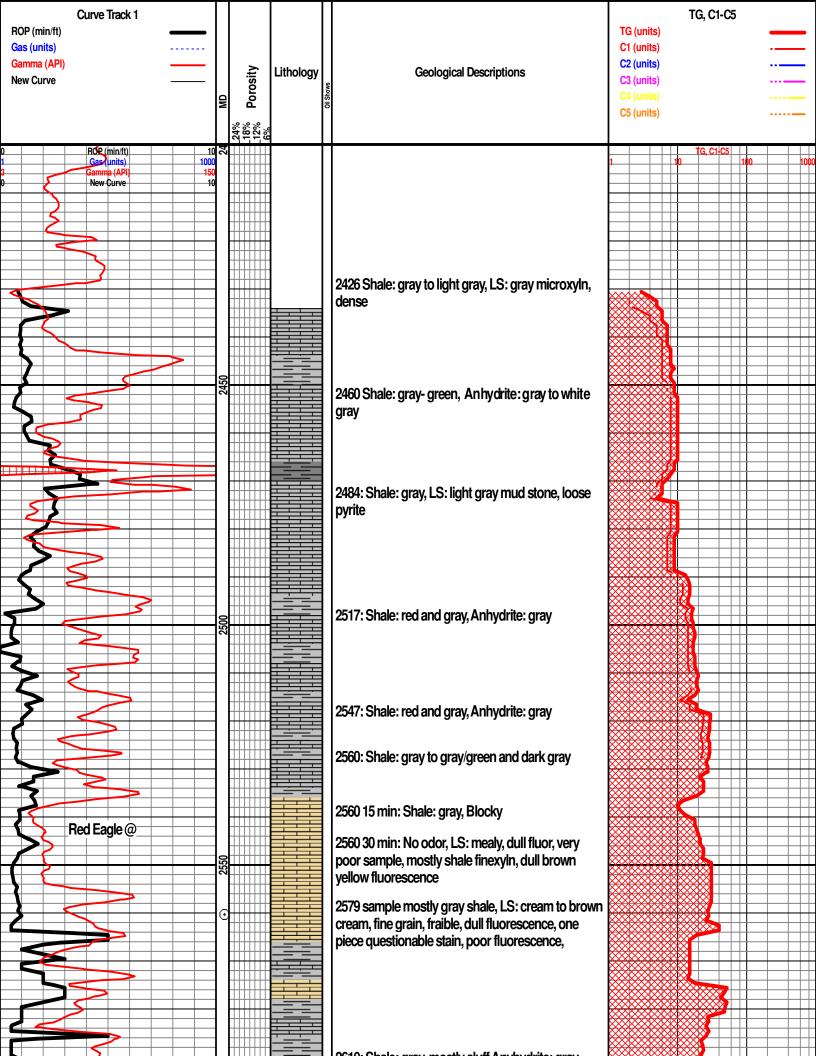
DST #7, 4622 to 4657,15-30-30-60, Simpson Sand, IFP: Strong building blow built to 211", ISIP: Surface buble blow back, FFP Strong building blow built to 192" but died to 141", FSIP: no blow back, REC: 2331" of GCW, (5% gas 95% wtr), 630' MCW, 75% wtr & 25% mud), HP 2218 to 2197#, IFP 360 to 898#, FFP917 to 1466#, BHP 1748 to 1751#, BHT 145

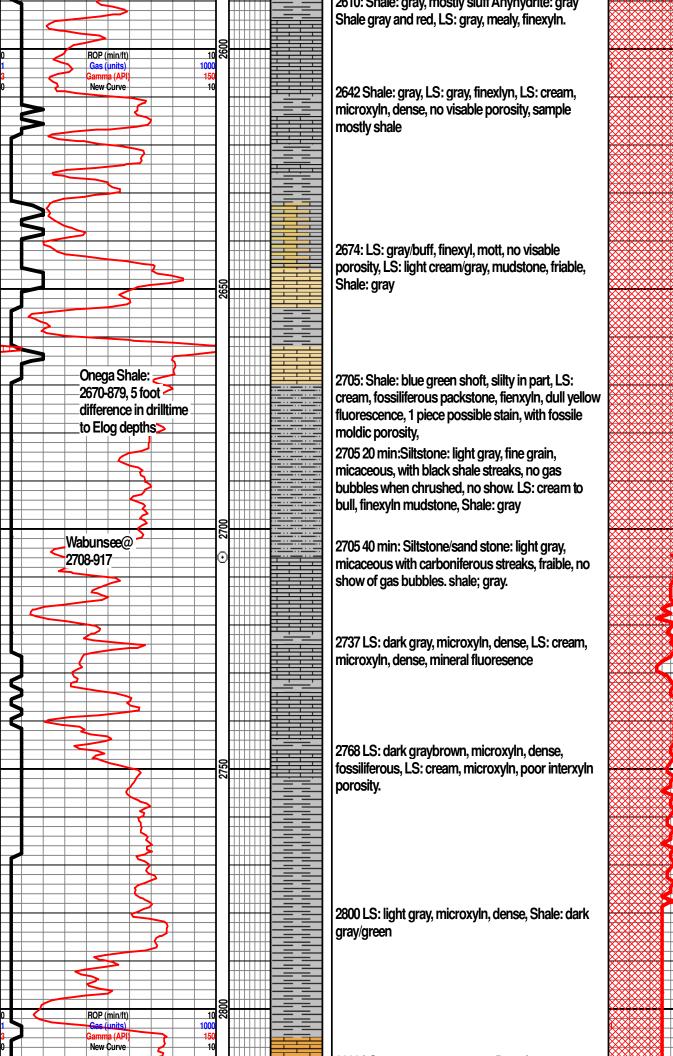


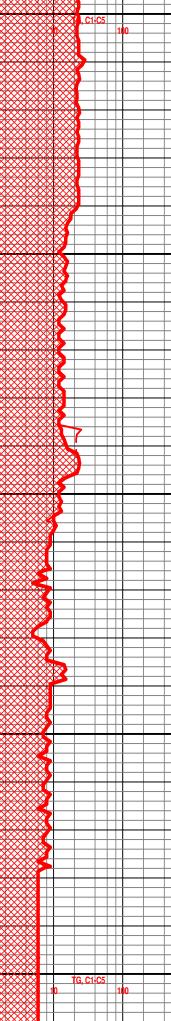
DST (8) 4523 to 4590, Viola straddle test after Elog: IFP Weak blow building to 3.4", ISIPNo blow back, FFP: Weak building blow built to 2.57", FSIP: No blow back, REC 10 mud 100% mud, 121 GIP, IHP 2267 to 2008#, BHP 254 to 189#, IFP 50 to 49, FFP 45 to 55.9#, BHT

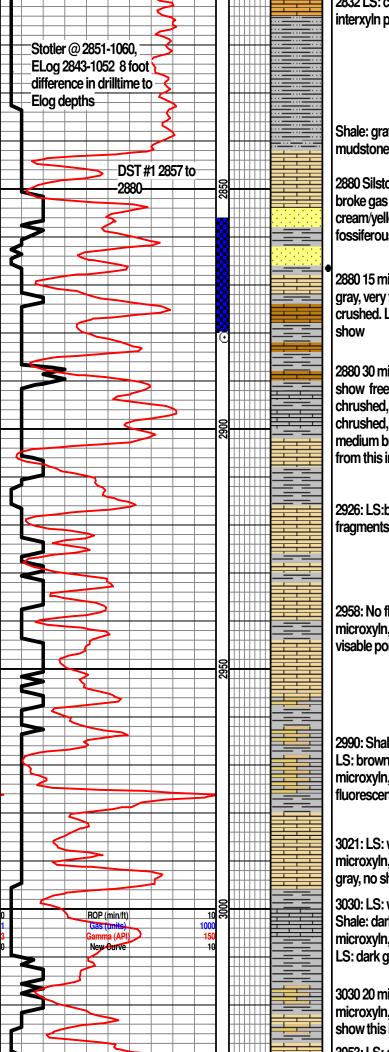












2832 LS: cream to cream/gray, finexyln, poor interxyln porosity, Shale: dark gray, mostly shale

Shale: gray, silty, LS: cream/buff, microxyln, dense mudstone, no visable porosity

2880 Silstone: gray, poor intergranular porosity, broke gas bubbles mostly silty gray shale. LS: cream/yellow, cryptoxyln, dense LS: brown, fossiferous packstone, no visable porosity

2880 15 min: mostly gray silty shale, sd.STN: light gray, very fine grain, no show of gas bub when crushed. LS: buff, microxyln, fossile fragments, no show

2880 30 min SD. STN: fine grain, slight stain, slight show free oil under black light, very faint odor when chrushed, gas bubbles and fleeting odor when chrushed, micaceous, dull to yellow fluorescence medium bright. 91 unit gas kick with 73 unit recycle from this interval

2926: LS:brownish/buff, microxyln, platey, fossile fragments, dense Shale: gray

2958: No fluorescence, LS: light gray/brown, microxyln, Dense, pelletiod packstone in part, no visable porosity, Shale: gray

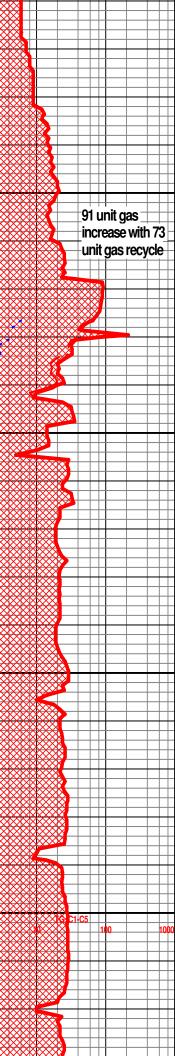
2990: Shale: gray, with LS: cream, microxyln,dense, LS: brown, microxyln, dense, LS: dark gray/brown, microxyln, dense, LS: gray/white, chky, no fluorescence, no show

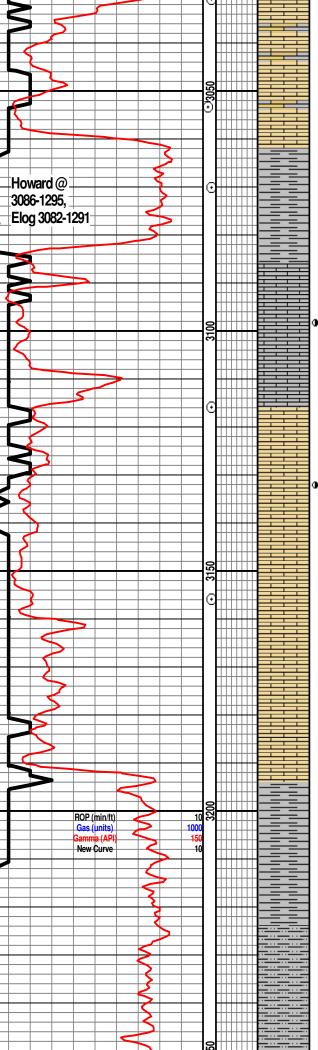
3021: LS: white, chky, LS: cream, mott in part, microxyln, dense, no visable porosity, Shale: dark gray, no show

3030: LS: white, chky, LS: brown, microxyln, dense, Shale: dark gray LS: gray to light gray, finexyln to microxyln, very dense, sharp no visable porosity, LS: dark gray, microxyln, dense, sharp

3030 20 minuites: Shale: gray, LS: cream/gray, microxyln, dense, Shale: cream/gray, friable, no show this interval

2052. I Sucreem/areau miereau/in dense no viechle





porosity, fossiliferous, LS: buff, fusilinid rich, microxyln, no visable porosity, no fluorescence, no show.

3070 30 minutes: No fluorescence from tray, LS: brown/cream, cryptoxyln, microxyln, dense, LS: cream/gray, mott, finexlyn, fraible, poor interxyln porosity, LS: gray/buff, microxyln, dense fossile fragments

3084 Shale: gray, LS: gray, microxyln, dense, no show, LS: dirty gray, microxyln, dense, no fluorescence this sample

3116: Shale: gray, LS: gray, fienxyln, microxyln, LS: buff/brown, microxyln, dense, pin point moldic porosity,

3166 20 min: LS: white, chky, LS: buff, finexyln, pin point porosity, sct light brown, possible tain in part-questionable stain, no fluorescence, no odor

3116 40 min: chky LS, LS: buff, cryptoxyln, finexyln, fossiliferous packstone, fair visable fossile moldic porosity, 1 piece, with stain, broke sligh show of free light brown oil-lazey oil show, no fluorescence, Shale: gray

3149: LS: buff/light brown, finexyln, possible slight stain, no show of free oil, no odor, friable. LS: cream to gray/cream, cryptoxyln, in par, finexyln, friable, no show

3155: LS: cream to white, chky in part, friable, no show, sct very slight brown, streaked stain, broke very slight pinpoint show of light brown oil, poor to no fluoresence, no odor.

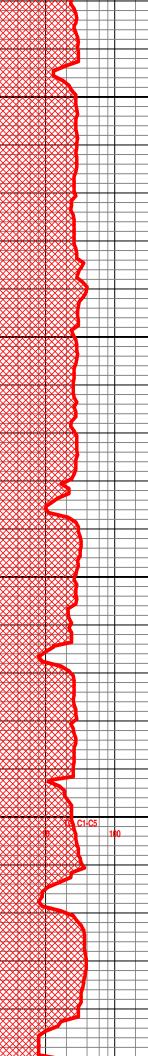
3155 20 min: Ls, cream to buff, fienxyln, friable

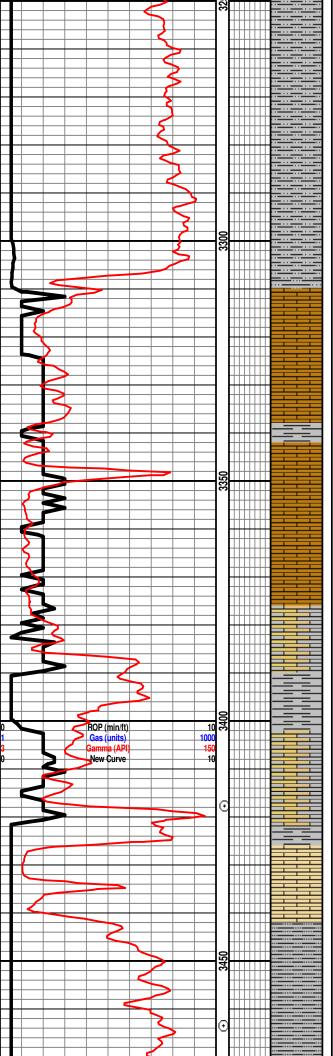
3155 40 min: LS: cream, buff, brown to gray/brown, microxyln, dense. LS: gray microxyln, very dense, no visable porosity, lenticular, fossilerous, microxyln lenses, paper thin shale lenses, LS: gray, microxyln, dense.

3179: LS: buff, microxyln, dense, blocky, no visable porosity, Shale; black contact on LS with dense black shale, LS: white chky off white, LS: dark gray/brown

3211 LS: cream to buff, finexyln, mottled., friable chky in part, LS: dark gray, microxyln, dense

3242: LS: dark gray, microxyln, dense, mott, no visable porosity, Shale: gray, silty, blocky pyritic





3274: flood of silty micaceous shale with dense siltstone layers dense poor intergranular porosity, shaley no show of gas bubbels, light gray very dense, no show, no fluorescence

3305: flood of silty micaceous shale with dense siltstone layers dense poor intergranular porosity, shaley no show of gas bubbels, light gray very dense, no show, no fluorescence

3337: LS: dark brown, to light gray, finexyln, poor interxyln porosity, sample 95% shale

3369: LS: gray/brown, microxyln, dense, no visable porosity, sharp no show.

3380: LS: brown, microxyln, fossiferous packstone, LS: gray/cream, microxyln, dense.

3400 rerun

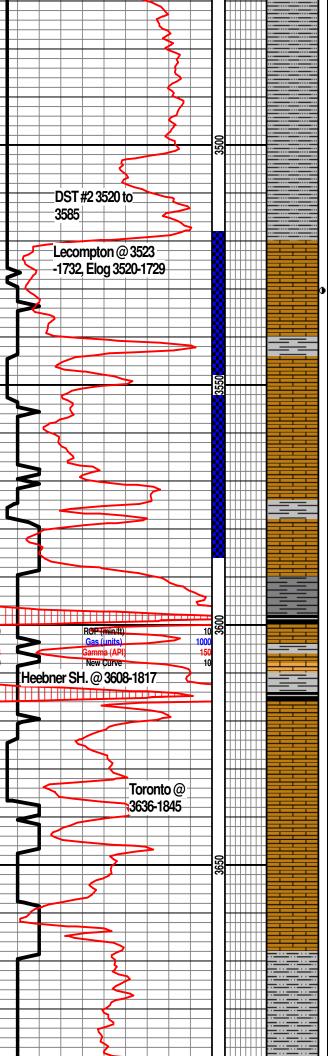
3417: LS: gray/cream, finexyln, sct loose calcite crystals, LS: cream, fair fluorescence, less than 1% of sample, LS: brown, microxyln, sharp, few pieces peltoid packstone with semi trans cement, mineral fluorescence, Shale: gray

3417 20 min: LS: gray/cream, finexyln, sct loose calcite crystals, LS: cream, fair fluorescence, less than 1% of sample, LS: brown, microxyln, sharp, few pieces peltoid packstone with semi trans cement, mineral fluorescence, add edge fluroescence, Shale: gray

3432: LS: cream/buff, finexyln, to microxyln, friable in part, 1 piece with square calcity crystals on edge of limestone with fluorescence and stain.

3463: Shale: gray, LS: cream/brown, microxyln, poor intergranular porosity, scattered cream with random pinpoint porosity, no show.





3463 20 min: Siltstone: gray, fine grain, friable no fluoresence, dense, poor intergranular porosity, no show of gas

3494 LS: cream, finexyln, friable, Siltstone: gray, fine grain, with gray shale layers, no show

3525 no fluorescence SD. STN: gray, fine grain-shaley, micaceous, fraible, one gas bubble, Shale: gray, LS: dark microxyln, dense, platey, poor interxyln porosity

3558: sample mostly shale: gray silty in part LS: brown, microxyln dense, LS: brown, finexyln, friable calcity, bright fluoresence

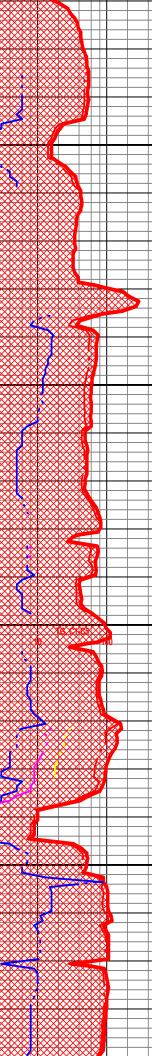
3589 Semi trans calcite crystals with possible oil stain, small piece no cut and or possible cut, fair to good fluoresence, LS: brown, medium exyln, possible fluoresence

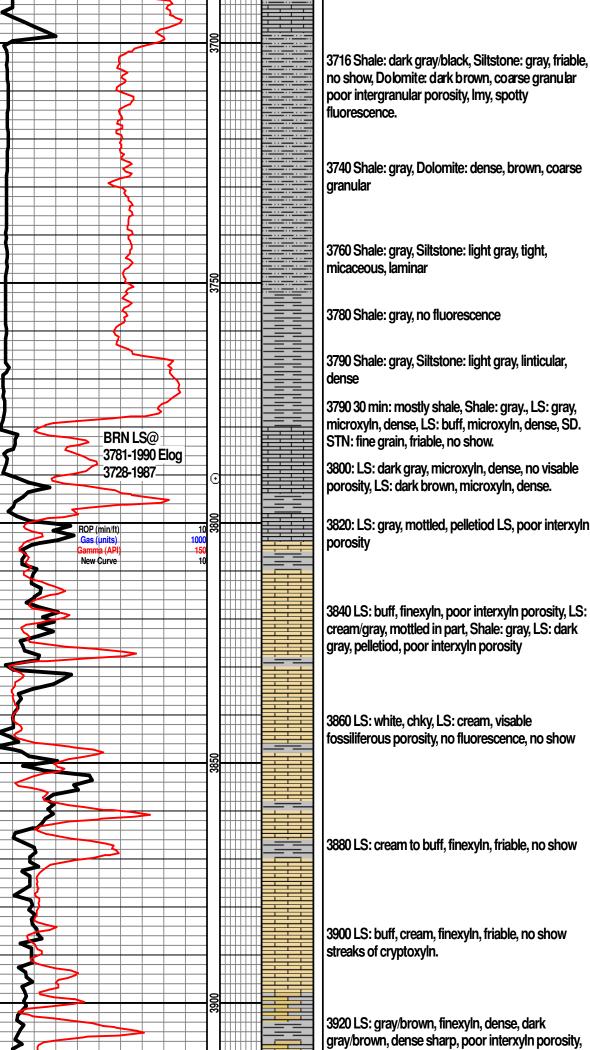
3621 Shale: gray with gray silstone in part loose pyrite Ls: Brown, microxyln, dense, with finexyln, gray brown LS sample mostly shale

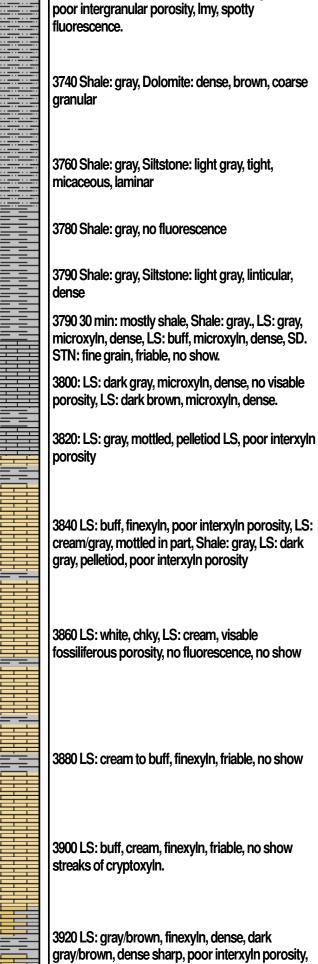
3652 Shale: black, Siltstone: gray with gray shale layers attached, LS: dark brown, microxyln, dense, Shale: gray, soft

3684 LS: coarsexyln, brown, poor intergranular porosity, surface fluorescence, poor interxyln porosity, Shale: gray

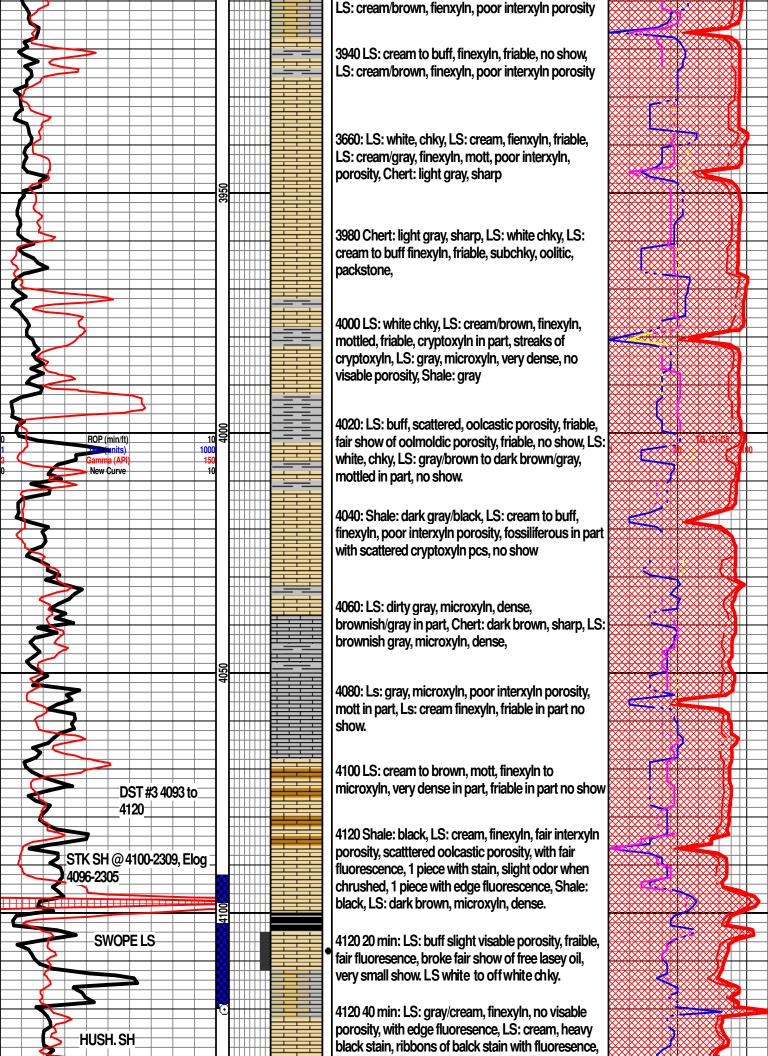
3690: Siltstone: gray, micaceous, no show of gas bubbels, LS: gray to brown, microxyln, dense, chky LS: buff, argilaceous, fair fluorescence, slight cut

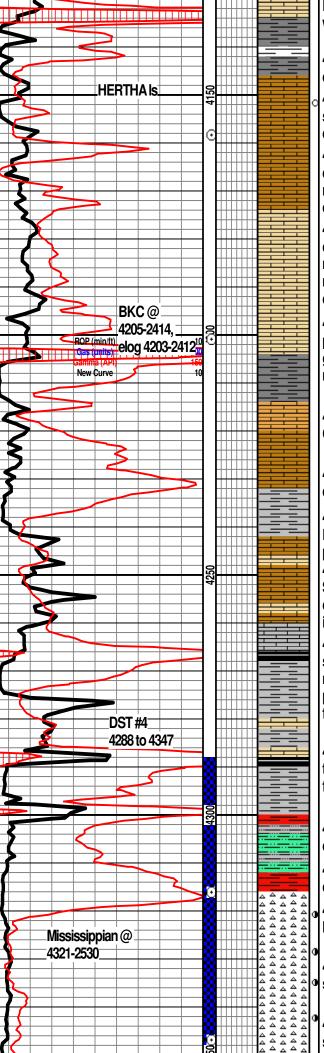












LS: cream, finexyln, good pinpoint moldic porosity with slight staining.

4140: Shale gray mostly sluff, LS: buff, microxyln, dense

4158 poosible very weak odor, sample mostly gray shale, mostly sluff, LS: brown, microxyln, very dense

4158 20 min LS: brown, microxyln, dense, Shale: dark gray, blocky, LS: gray, cream, finexyln, mudstone, no visable porosity, LS cream microxyln, dense.

4158 40 min mineral fluorescence, no show, LS: cream to off white finexyln, chky in part, LS: buff, microxyln, dense, no visable porosity. LS: tan, microxyln, very dense, sharp. Shale: black carboniferous

4180 LS: cream, finexyln mudstone, no visable porosity, gas bubbles when chrused, LS: gray/cream in part, LS; white to whiteish gray chky, mineral fluorescence from the tray

4200 Chert: light gray, LS: brown, microxyln, dense Chert: very dark brown, LS: cream, mottled, friable,

4200 20 min LS: brown to gray/brown, microxyln, dense, Shale: black

4220 LS: gray microxyln, dense, no visable poroity, Ls; dark brown, microxyln, dense, no visable porosity

4240 LS: gray/brown, microxyln, no visable porosity, Shale: Black, LD: brown, microxyln, dense. LS: cream/buff, fienxlyln, friable, no show from this interval

4260 LS: cream/gray, microxyln to finexyln, fraible, sct LS: browninsh gray, mcroxyln, dense, LS: gray, mcroxyln dense, no visable porosity, poor interxyn porosity, LS: cream finexyln, friable-subchky, red fluorescence, no show.

4280 Shale Black, LS: cream to gray/brown, finexyln to microxyln, poor interxyln porosity, no fluorescence, no show, redish green shale. no show

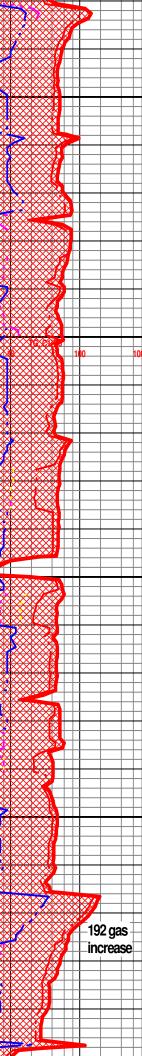
4300 Shale: gray/green, LS; buff, mciroxyln, dense,Shale: red and jade,

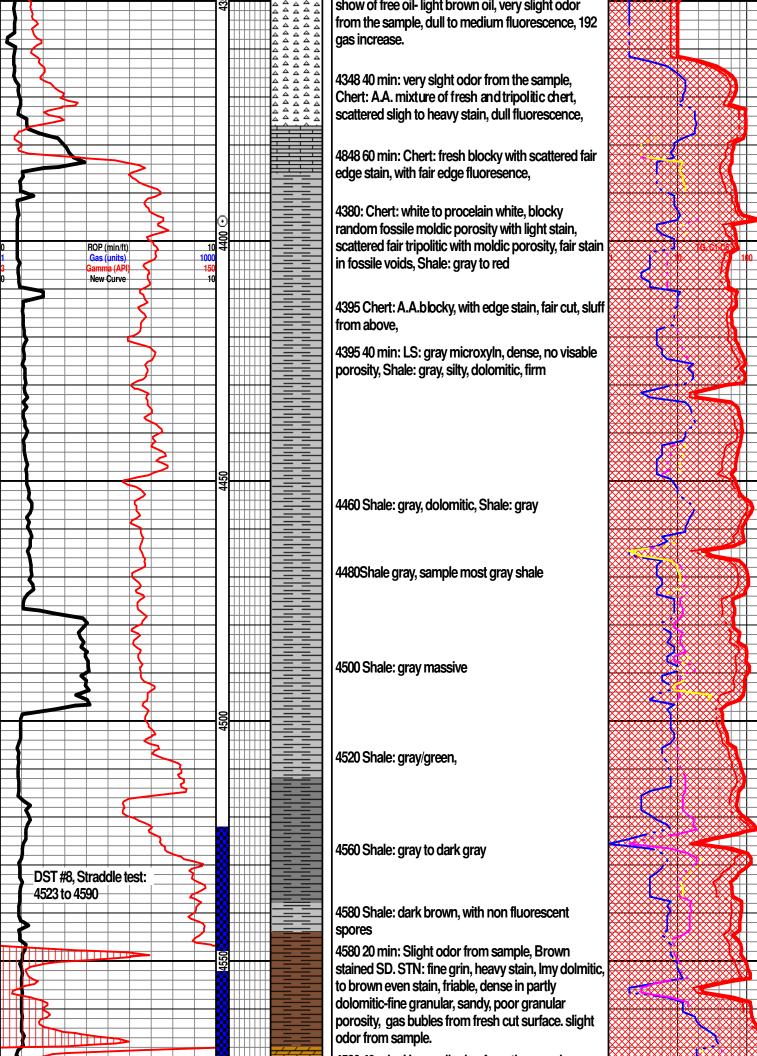
4310: Shale: light green, redish green in part, LS: cream, finexyln, red in part

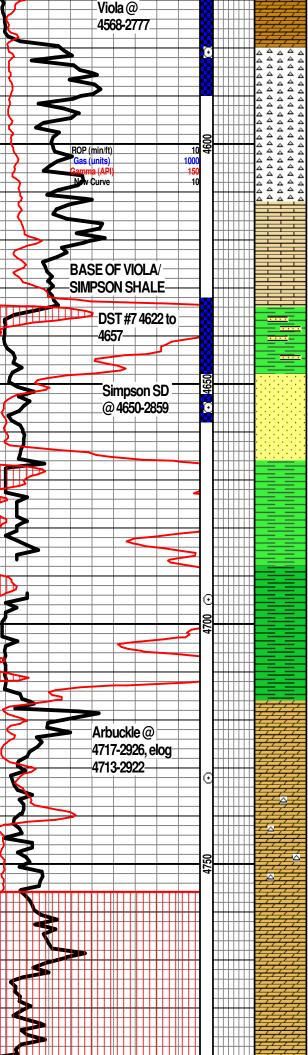
4316 30 minute: no odor, varied colored shale, sct light green/tan siltstone, no show from the sample.

4316 60 min: Shale dark green to light green, shaley siltstone, no show this interval

¹⁰ 4348 20 min: Chert: white, freah, sharp, mixed with slightly tripolitic, random to heavy black stain slight







4580 40 min: Heavy oil odor from the sample, Dolomite: fine granular, brown, fair to poor intergranular porosity, fair to good cut, fair show of free oil when chrushed under black light. Chert: dark brown, blocky slow cut.

4600: Dolomite dark brown fine granular, poor intergranular porosity, no show,

4620 Dolomite fine granular, Chert: light brown to brown, sharp,

4640 Dolomite: fine granular, poor intergranular porosity, Chert: brown

LS: whiteish gray, coarsexyln, friable, no fluoresence, SD. STN: dirty gray, fine grain, shaley, poorly sorted, friable no show.

4654 30 minute: SD. STN: dirty gray, fine grain, subrounded, shaley dull fluorescence, SD.STN: fine grain, subclear grained, fair sorting, light stain, fair fluorescence, good intergranular porosity, pinpoint fluorescence, small show of free oil,

4654 60 min: SD. STN: fine grain, fair shorting, angular, friable, weak cut, light stain SD. STN: fine graind frosted grains, shaley pieces, poor intergranular porosity, no fluorescence. two distinct SD. STN: layers

4557 30 min: mostly sluff, SD. STN: A.A. fine grain, light stain, no show of free oil.

4657 60 min: SD. STN: fine grain, poorly sorted, light stain, light fluorescence, lightly cemented, fraible, light cut

4695: Shale: green, waxey, Blocky

4695 30 min: Sd. STN: Whiteish green with included dark green shale flecks, poor intergranular porosity

4732 Shale: green, blocky, A.A. SD. STN: light gray fine grain, shaley, poor interxyIn porosity, Dolomite cream, finegranular, sandy, questionable slight cut, mineral fluorescence, SD.STN: fine grain, clusters, rounded, pyritic, very dense, shaley, no odor from the sample, Dolomite: fine granular, sandy, friable, no show.

4732 30 min: no odor from the sample, Dolomite: pink/cream, to light brown, fine granular, friable in part, dense in part, poor fluoresence, only one piece with possible stain, poor fluorescence, no show of free oil, finely sugrosic.

4732.60 min: no odor from the sample mineral

