### KOLAR Document ID: 1663717

Confident	iality Requested:
Yes	No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION Form ACO-1 January 2018 Form must be Typed Form must be Signed All blanks must be Filled

### WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from 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.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
Oil WSW SWD	Elevation: Ground: Kelly Bushing:
	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 #:	Lesstion of fluid dispass if bould offsite.
EOR         Permit #:	Location of fluid disposal if hauled offsite:
GSW     Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Permit #:

#### AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

## Submitted Electronically

KCC Office Use ONLY
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II III Approved by: Date:

### KOLAR Document ID: 1663717

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 (Attach Additional Sh	eets)	Y	es 🗌 No			og Formatio	n (Top), Depth	and Datum	Sample
Samples Sent to Geolog	*		és 🗌 No	Ν	lame	e		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:			ies No ies No ies No						
		Repo	CASING I		] Ne	w Used rmediate, productio	on, etc.		
Purpose of String	Size Hole Drilled		ze Casing tt (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Туре	e of Cement	# Sacks Used	k		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
<ol> <li>Did you perform a hydra</li> <li>Does the volume of the is</li> <li>Was the hydraulic fractu</li> <li>Date of first Production/Inj</li> </ol>	total base fluid of the h ring treatment informa	nydraulic fra tion submit	acturing treatment	al disclosure regis	-	Yes Yes Yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Injection:			Flowing	Pumping		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITION	I OF GAS:		M	ETHOD OF COM	/IPLE	TION:			ON INTERVAL:
Vented Sold (If vented, Subm	Used on Lease		Open Hole		-		mingled	Тор	Bottom
	oration Perfora Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Hayes Oil & Gas LLC
Well Name	HUCK 1-5
Doc ID	1663717

All Electric Logs Run

Dual compensated
Micro
Sonic
PE

Form	ACO1 - Well Completion
Operator	Hayes Oil & Gas LLC
Well Name	HUCK 1-5
Doc ID	1663717

# Casing

	Size Hole Drilled	Size Casing Set		Setting Depth	Type Of Cement		Type and Percent Additives
Conductor	24	20	78.62	150	Grout	We	
Surface	12.25	8.625	28	802	Class A	500	
Production	7.875	5.5	15.5	5914	H plug A	280	



Prepared For:

Hayes Oil & Gas LLC

PO Box 108 Attica KS. 67009

ATTN: John Hastings/Tim He

### Huck #1-5

## 5-32S-18W Comanche

 Start Date:
 2022.08.31 @ 07:24:00

 End Date:
 2022.08.31 @ 19:09:00

 Job Ticket #:
 69513
 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 Hayes Oil & Gas LLC

	DRILL STEM TES	T REP	ORT			
	Hayes Oil & Gas LLC		5-3	2S-18W Co	manche	
ESTING , INC	PO Box 108 Attica KS. 67009			<b>ck #1-5</b> Ticket: 69513	DOT	н. л
	ATTN: John Hastings/Tim He				DST 8.31 @ 07:24:00	
GENERAL INFORMATION:						
Formation:Paw nee/ Ft. ScottDeviated:NoWhipstock:Time Tool Opened:12:40:02Time Test Ended:19:09:00	ft (KB)		Tes Tes Unit	ter: Richi	entional Bottom e Samora/Leal C	
Interval:5060.00 ft (KB) To5Total Depth:5215.00 ft (KB) (ToHole Diameter:7.88 inches Ho			Refe	erence Elevatio KB to GF	2154.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 6752 Inside Press@RunDepth: 128.01 psig Start Date: 2022.08.30 Start Time: 09:48:01 TEST COMMENT: 30-IF:Strong bk 45-ISI: No blow 60-FF: Strong bk	End Date: End Time: w BOB in 30 seconds built to144 in		Capacity Last Calit Time On Time Off	b.: Btm: 2022	2022.08. .08.30 @ 12:31: .08.30 @ 16:37:	32
90-FSI: No blow Pressure vs.	<sup>r</sup> back		PF	RESSURE		
		Time (Min.) 0 9 40 86 86 146 245 246	Pressure (psig) 2581.11 127.64 117.82 1685.37 140.33 128.01 1775.41 2502.72	(deg F)           117.13         Initi           116.97         Op           117.14         Shu           118.26         Enc           118.20         Op           118.94         Shu           120.58         Enc	nnotation al Hydro-static en To Flow (1) ut-ln(1) d Shut-ln(1) en To Flow (2) ut-ln(2) d Shut-ln(2) al Hydro-static	
Recovery				Gas Ra	ates	
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
118.00 GCM 10% G 90% M	0.58	First Ga		0.13	5.18	6.80
91.00 GCM 10% G 90% M	1.28	Last Ga		0.13	5.52	6.92 6.92
				1	+	+

	DRILL STEM TES	T REP	ORT			
	Hayes Oil & Gas LLC		5-32	S-18W Con	nanche	
ESTING , INC	PO Box 108 Attica KS. 67009			<b>:k #1-5</b> Ticket: 69513	DST	<i>4. 4</i>
	ATTN: John Hastings/Tim He				<b>الال</b> 3.31 @ 07:24:0	
GENERAL INFORMATION:						
Formation:Pawner/Ft. ScottDeviated:NoWhipstock:Time Tool Opened:12:40:02Time Test Ended:19:09:00	ft (KB)		Test Test Unit	er: Richie	entional Bottom Samora/Leal C	
Interval:5060.00 ft (KB) To51Total Depth:5215.00 ft (KB) (TVHole Diameter:7.88 inchesHole			Refe	rence ⊟evatio KB to GR	2154.	00 ft (KB) 00 ft (CF) 00 ft
	End Date: End Time: / BOB in 30 seconds built to144 ind ack w BOB immediate GTS 25 minutes		Capacity: Last Calib Time On E Time Off I	Btm:	2022.08.	psig 30
90-FSI: No blow Pressure vs. T	me		PR	ESSURE S	UMMARY	
200 FROME	S35 Importante 115 100 115 100 100 100 100 100	Time (Min.)	Pressure (psig)	Temp Ar (deg F)	notation	
Recovery				Gas Ra	tes	
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
118.00 GCM 10% G 90% M	0.58	First Ga		0.13	5.18	6.80
91.00 GCM 10% G 90% M	1.28	Last Gas Max. Ga		0.13	5.52	6.92 6.92
				•		

	DRI	LL STE	MTEST	REPOR	Т		TOOL DIAGRAI
RILOBITE		Oil & Gas LLC	;		5-32S-18W Cor	manche	9
ESTING , I	Attica K	108 (S. 67009 John Hasting	gs/Tim He		Huck #1-5 Job Ticket: 69513 Test Start: 2022.0	08.31 @ 0	<b>DST#: 1</b> 17:24:00
Tool Information							
Drill Collar:Length:118.00Drill Pipe Above KB:34.00Depth to Top Packer:5060.00	ft Diameter: ft Diameter: ft ft ft ft	0.00 in 2.25 in	ches Volume: ches Volume: <u>ches Volume</u> : Total Volume:	69.39 bbl 0.00 bbl 0.58 bbl 69.97 bbl	Tool Weight: Weight set on F Weight to Pull L Tool Chased String Weight:	Packer: 2 .oose: 8 Initial 7	
-	• • •	Serial No.	Position		ccum. Lengths		
Shut In Tool	5.00	Serial No.	Position	5036.00	ccum. Lengths		
Shut In Tool Hydraulic tool	5.00 5.00	Serial No.	Position	5036.00 5041.00	ccum. Lengths		
Shut In Tool Hydraulic tool Jars	5.00 5.00 5.00	Serial No.	Position	5036.00	ccum. Lengths		
Shut In Tool Hydraulic tool Jars EM Tool	5.00 5.00 5.00 3.00	Serial No.	Position	5036.00 5041.00 5046.00 5049.00	ccum. Lengths		
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint	5.00 5.00 5.00	Serial No.	Position	5036.00 5041.00 5046.00	ccum. Lengths		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer	5.00 5.00 5.00 3.00 2.00	Serial No.	Position	5036.00 5041.00 5046.00 5049.00 5051.00		E	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer	5.00 5.00 5.00 3.00 2.00 5.00	Serial No.	Position	5036.00 5041.00 5046.00 5049.00 5051.00 5056.00		E	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb	5.00 5.00 5.00 3.00 2.00 5.00 4.00	Serial No.	Position	5036.00 5041.00 5046.00 5049.00 5051.00 5056.00 5060.00		E	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations	5.00 5.00 3.00 2.00 5.00 4.00 1.00	Serial No.	Position	5036.00 5041.00 5046.00 5049.00 5051.00 5056.00 5060.00 5061.00		E	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Change Over Sub	5.00 5.00 5.00 2.00 5.00 4.00 4.00 4.00	Serial No.	Position	5036.00 5041.00 5046.00 5049.00 5051.00 5056.00 5060.00 5061.00 5065.00		E	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Change Over Sub Drill Pipe	5.00 5.00 5.00 2.00 5.00 4.00 1.00 4.00 1.00	Serial No.	Position	5036.00 5041.00 5046.00 5049.00 5051.00 5056.00 5060.00 5061.00 5065.00 5066.00		E	3ottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Change Over Sub Drill Pipe Change Over Sub	5.00 5.00 3.00 2.00 5.00 4.00 1.00 4.00 1.00 32.00	Serial No.	Position	5036.00 5041.00 5046.00 5051.00 5056.00 5060.00 5061.00 5065.00 5066.00 5098.00		E	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Change Over Sub Drill Pipe Change Over Sub Handling Sub	5.00 5.00 5.00 2.00 5.00 4.00 1.00 4.00 1.00 32.00 1.00	Serial No.	Position	5036.00 5041.00 5046.00 5049.00 5051.00 5056.00 5060.00 5061.00 5065.00 5066.00 5098.00 5099.00		E	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Change Over Sub Drill Pipe Change Over Sub Handling Sub Recorder	5.00 5.00 3.00 2.00 5.00 4.00 1.00 4.00 1.00 32.00 1.00 5.00			5036.00 5041.00 5046.00 50549.00 5051.00 5056.00 5060.00 5065.00 5066.00 5098.00 5099.00 5104.00		E	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Change Over Sub Drill Pipe Change Over Sub Handling Sub Recorder Recorder	5.00 $5.00$ $5.00$ $3.00$ $2.00$ $5.00$ $4.00$ $1.00$ $4.00$ $1.00$ $32.00$ $1.00$ $5.00$ $0.00$	6752	Inside	5036.00 5041.00 5049.00 5051.00 5056.00 5060.00 5065.00 5066.00 5098.00 5099.00 5104.00		E	Bottom Of Top Packer
Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer	5.00 $5.00$ $5.00$ $3.00$ $2.00$ $5.00$ $4.00$ $1.00$ $32.00$ $1.00$ $5.00$ $0.00$ $0.00$	6752	Inside	5036.00 5041.00 5046.00 5049.00 5051.00 5056.00 5060.00 5061.00 5065.00 5066.00 5098.00 5099.00 5104.00 5104.00			Bottom Of Top Packer

ACEN-		DR	ILL ST	EM TEST I	REPORT	Г	F	LUID S	UMMAR
	TRILOBITE TESTING , INC	Hayes	Oil & Gas	LLC		5-32S-18V	V Comanche		
	ESTING , INC		x 108 KS. 67009			Huck #1-5		DOT# 4	
		ATTN:	ATTN: John Hastings/Tim He			Job Ticket: ( Test Start: 2	2022.08.31 @ 07	<b>DST#:1</b> 2:24:00	
Mud and Cu	shion Information								
							Oil API:		deg API
Vlud Type: Ge Vlud Weight:				ushion Type:		ft			-
/iscosity:	9.00 lb/gal 53.00 sec/qt			ushion Length: Jushion Volume:		bbl	Water Salinity:		ppm
Vater Loss:	8.78 in <sup>3</sup>			as Cushion Type:		Idd			
Resistivity:	o.70 III <sup>-</sup> ohm.m			as Cushion Type.		noid			
Salinity: Filter Cake:	7000.00 ppm 0.20 inches		e		<del>.</del> .	psig			
Recovery In	formation								
			F	Recovery Table			-		
	Leng ft	gth		Description		Volume bbl			
		118.00	GCM 10	% G 90% M		0.58	0		
		91.00		% G 90% M		1.27	-		
	Total Length:		ft	Total Volume:	1.856 bbl	•			
				Num Cas Dambar	0	Serial #	4.		
	Num Fluid Sam			Num Gas Bombs:	0	Serial #	F:		
	Laboratory Nar Recovery Com			Laboratory Location	vr1.				
	,								



Hayes Oil & Gas LLC

ATTN: John Hastings/Tim He

PO Box 108 Attica KS. 67009

#### 5-32S-18W Comanche

#### Huck #1-5

Job Ticket: 69513 **DST#:1** Test Start: 2022.08.31 @ 07:24:00

**Gas Rates Information** 

Temperature:	!
Relative Density:	0.0
Z Factor:	0

59 (deg F) .67 0.9

#### Gas Rates Table

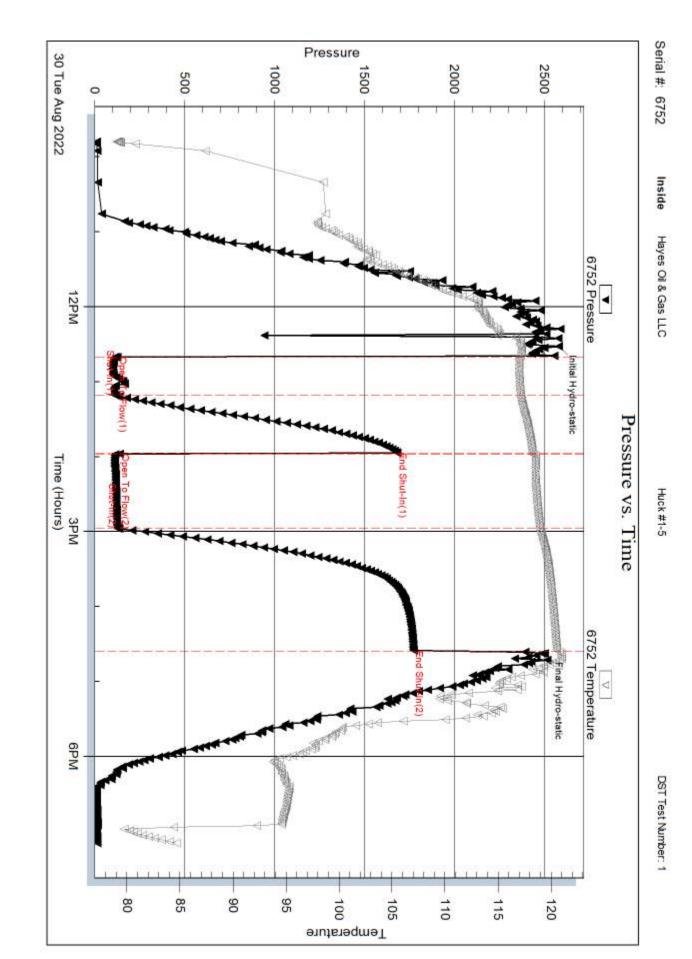
Flow Period	Elapsed Time	Choke (inches)	-	
2	30	0.13	5.18	6.80
2	40	0.13	5.23	6.82
2	50	0.13	5.37	6.87
2	60	0.13	5.52	6.92

#### GAS RATES

Printed: 2022.09.07 @ 08:24:15

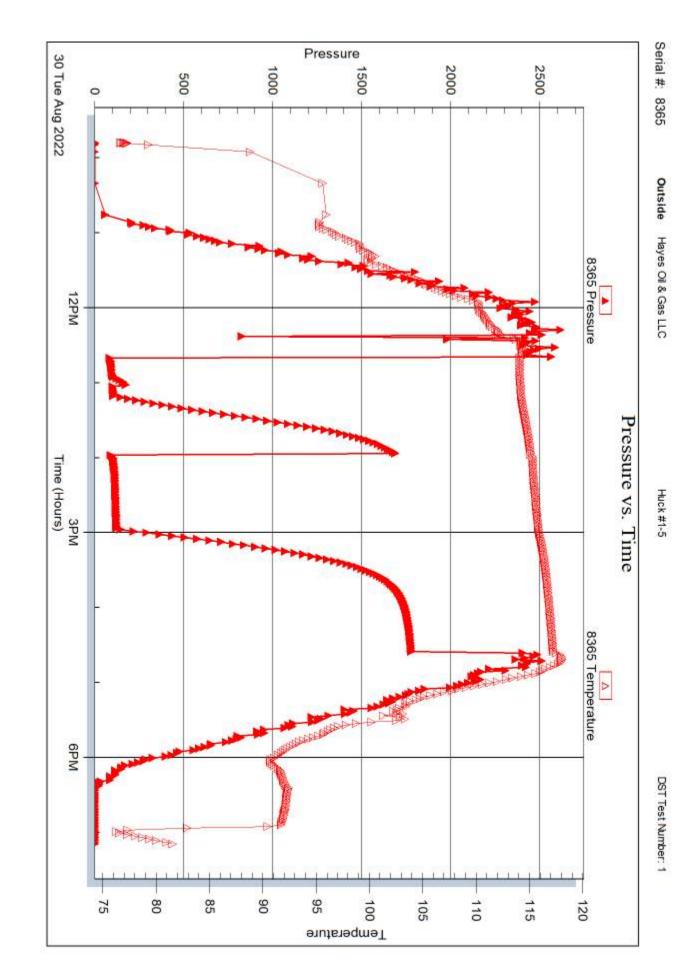
Ref. No: 69513





Printed: 2022.09.07 @ 08:24:15

Ref. No: 69513





Prepared For:

Hayes Oil & Gas LLC

PO Box 108 Attica KS. 67009

ATTN: John Hastings/Tim He

### Huck #1-5

## 5-32S-18W Comanche

 Start Date:
 2022.08.31 @ 07:24:00

 End Date:
 2022.08.31 @ 11:56:17

 Job Ticket #:
 69513
 DST #:
 2

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 DST # 2

	DRILL STEM TES		ORT		
	Hayes Oil & Gas LLC		5-328-18	W Comar	nche
TESTING , INC	PO Box 108 Attica KS. 67009		Huck #1 Job Ticket:	-	DST#:2
	ATTN: John Hastings/Tim He		Test Start:	2022.08.31	@ 07:24:00
GENERAL INFORMATION:					
Formation:MissispiDeviated:NoWhipstock:Time Tool Opened:09:46:17Time Test Ended:11:56:17	ft (KB)		Test Type: Tester: Unit No:		onal Bottom Hole (Reset) mora/Leal C
Interval:5120.00 ft (KB) To52Total Depth:5215.00 ft (KB) (TVHole Diameter:7.88 inches Hole				Eevations: (B to GR/CF:	2166.00 ft (KB) 2154.00 ft (CF) 12.00 ft
Serial #: 6752InsidePress@RunDepth:psigStart Date:2022.08.31Start Time:07:24:01TEST COMMENT:IF: Packer Failure	End Date: End Time:	2022.08.31 11:56:17	Capacity: Last Calib.: Time On Btm: Time Off Btm:		psig 2022.08.31 31 @ 09:44:47 31 @ 09:49:47
Pressure vs. T 672 Pressure	0752 Temperature	Time	PRESS Pressure Tem	URE SUM	
		(Min.) 0 2 2 6	(psig) (deg 2711.01 118. 2430.46 118. 2534.00 119.	F) 03 Initial Hy 79 Open To	dro-static 5 Flow (1) Failure
Recovery				Gas Rates	
Length (ft)         Description           307.00         drilling mud	Volume (bbl) 3.23		Cho	oke (inches) Pre	essure (psig) Gas Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 69513		<b>Duin 4</b>	od: 2022.00	07 @ 08:09:11

	DRILL STEM TES	ST REPC	DRT		
	Hayes Oil & Gas LLC		5-32S-18V	V Comancl	ne
TESTING , I	PO Box 108 Attica KS. 67009		<b>Huck #1-5</b> Job Ticket: 6		
	ATTN: John Hastings/Tim He				DST#:2
. Meedir.	ATTN: John Hastings/him He			2022.08.31 @	07.24.00
GENERAL INFORMATION: Formation: Mississippi					
Formation:MississippiDeviated:NoWhipstockTime Tool Opened:09:46:17Time Test Ended:11:56:17	ft (KB)		Test Type: Tester: Unit No:	Conventiona Richie Samo 74	l Bottom Hole (Reset) ra/Leal C
Total Depth: 5215.00 ft (KB)	<b>5215.00 ft (KB) (TVD)</b> (TVD) ole Condition: Good		Reference E KB	evations: to GR/CF:	2166.00 ft (KB) 2154.00 ft (CF) 12.00 ft
Serial #: 8365 Outside					
Press@RunDepth:psiStart Date:2022.08.3Start Time:07:24:0		2022.08.31 11:56:17	Capacity: Last Calib.: Time On Btm: Time Off Btm:	:	psig 2022.08.31
Pressure	s. Time 5355 Tempenture	Time	PRESSU Pressure Temp	RE SUMM	
220 0 0 0 0 0 0 0 0 0 0 0 0 0		(Min.)	(psig) (deg Fj		••
Recove	у	1	G	as Rates	
Length (ft) Description	Volume (bbl)		Choke	(inches) Pressu	re (psig) Gas Rate (Mcf/d)
307.00 drilling mud	3.23				
* Recovery from multiple tests					
Trilobite Testing, Inc	Ref. No: 69513	1	Printor	d: 2022.09.07	@ 09:00:11

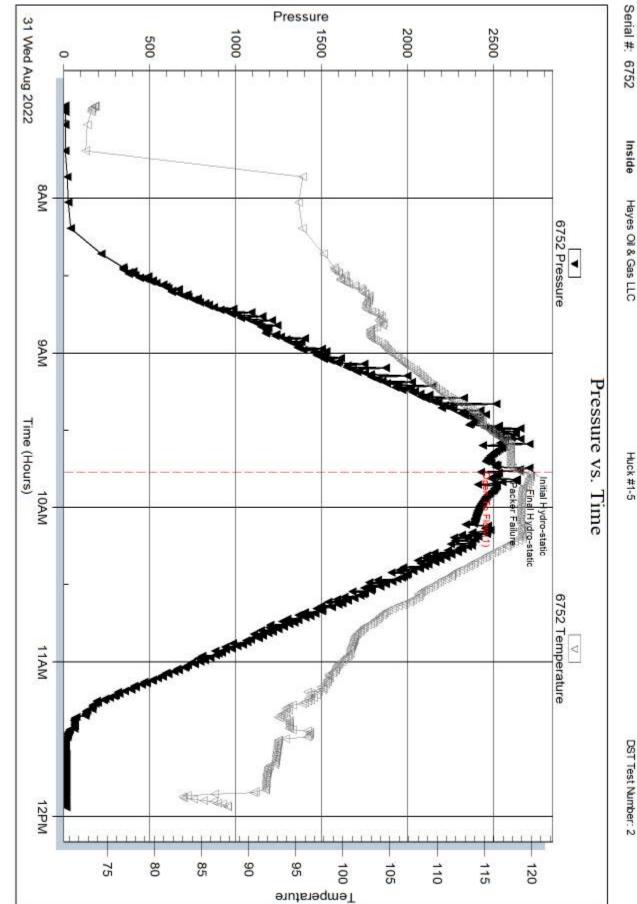
AON TOULOD	ITE	DRIL	_L STI	EM T	rest	REPO	RT		TOOL DIAGRA	
	ITE NG , INC	Hayes C	Dil & Gas Ll	_C			5-32S-18	8W Coman	che	
ESTI	NG , INC	PO Box	108				Huck #1	-5		
		Attica K	S. 67009				Job Ticket	: 69513	DST#:2	
		ATTN: John Hastings/Tim He					Test Start	Test Start: 2022.08.31 @ 07:24:00		
Tool Information	ļ									
Drill Pipe: Length:	5078.00 ft Di	)iameter:	3.80	inches	Volume:	71.23 bbl	Tool W	/eight:	2100.00 lb	
Heavy Wt. Pipe: Length:	0.00 ft D	)iameter:	0.00	inches	Volume:	0.00 bbl	Weight	t set on Packe	r: 35000.00 lb	
Drill Collar: Length:	118.00 ft Di	)iameter:	2.25		Volume:	0.58 bbl			: 81000.00 lb	
Drill Pipe Above KB:	10.00 ft			Total	Volume:	71.81 bbl			ft	
	5215.00 ft						String	Weight: Initial Final	80000.00 lb 81000.00 lb	
Depth to Bottom Packer:	ft							i iiidi	d 000.00 lb	
nterval betw een Packers:	95.00 ft									
Tool Length:	124.00 ft	×	0.75							
Number of Packers:	2 Di	)iameter:	6.75	inches						
loor Comments:										
Tool Comments:										
rooi Comments:										
	Leng	ıth (ft)	Serial No	. Pos	sition	Depth (ft)	Accum. Lenç	gths		
Tool Description	-	<b>jth (ft)</b> 5.00	Serial No	. Pos	sition	<b>Depth (ft)</b> 5191.00	Accum. Lenç	gths		
<b>Fool Description</b> Shut In Tool			Serial No	. Pos	sition		Accum. Lenç	yths		
Tool Description Shut In Tool Hydraulic tool Jars	 {	5.00	Serial No	. Pos	sition	5191.00	Accum. Lenç	yths		
<b>Tool Description</b> Shut In Tool Hydraulic tool		5.00 5.00	Serial No	. Pos	sition	5191.00 5196.00	Accum. Lenç	yths		
<b>Tool Description</b> Shut In Tool Hydraulic tool Jars EM Tool		5.00 5.00 5.00	Serial No	. Pos	sition	5191.00 5196.00 5201.00	Accum. Lenç	yths		
<b>Tool Description</b> Shut In Tool Hydraulic tool Jars EM Tool Safety Joint		5.00 5.00 5.00 3.00	Serial No	. Pos	sition	5191.00 5196.00 5201.00 5204.00	Accum. Leng	-	Bottom Of Top Packe	
<b>Tool Description</b> Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer		5.00 5.00 5.00 3.00 2.00	Serial No	. Pos	sition	5191.00 5196.00 5201.00 5204.00 5206.00		-	Bottom Of Top Packe	
<b>Fool Description</b> Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer		5.00 5.00 5.00 3.00 2.00 5.00	Serial No	. Pos	sition	5191.00 5196.00 5201.00 5204.00 5206.00 5211.00		-	Bottom Of Top Packe	
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations		5.00 5.00 5.00 3.00 2.00 5.00 4.00	Serial No	. Pos	sition	5191.00 5196.00 5201.00 5204.00 5206.00 5211.00 5215.00		-	Bottom Of Top Packe	
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb		5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00	Serial No	. Pos	sition	5191.00 5196.00 5201.00 5204.00 5206.00 5211.00 5215.00 5216.00		-	Bottom Of Top Packe	
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations		5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00 5.00	Serial No	. Pos	sition	5191.00 5196.00 5201.00 5204.00 5206.00 5211.00 5215.00 5216.00 5221.00		-	Bottom Of Top Packe	
Fool Description         Shut In Tool         Hydraulic tool         Jars         EM Tool         Safety Joint         Packer         Packer         Stubb         Perforations         Change Over Sub	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.00 5.00 5.00 2.00 5.00 4.00 1.00 5.00 1.00 4.00 1.00	Serial No	. Pos	sition	5191.00 5196.00 5201.00 5204.00 5206.00 5211.00 5215.00 5216.00 5221.00 5222.00		-	Bottom Of Top Packe	
Fool Description         Shut In Tool         Hydraulic tool         Jars         EM Tool         Safety Joint         Packer         Packer         Stubb         Perforations         Change Over Sub         Drill Pipe	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00 5.00 1.00 4.00	Serial No	. Pos	sition	5191.00 5196.00 5201.00 5204.00 5206.00 5211.00 5215.00 5216.00 5221.00 5222.00 5286.00 5287.00 5292.00		-	Bottom Of Top Packe	
Fool Description         Shut In Tool         Hydraulic tool         Jars         EM Tool         Safety Joint         Packer         Packer         Stubb         Perforations         Change Over Sub         Orill Pipe         Change Over Sub	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.00 5.00 5.00 2.00 5.00 4.00 1.00 5.00 1.00 4.00 1.00	6752		sition	5191.00 5196.00 5201.00 5204.00 5206.00 5211.00 5215.00 5216.00 5221.00 5222.00 52286.00 5286.00		-	Bottom Of Top Packe	
Fool Description         Shut In Tool         Hydraulic tool         Jars         EM Tool         Safety Joint         Packer         Packer         Stubb         Perforations         Change Over Sub         Drill Pipe         Change Over Sub         Handling Sub	64 (	5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00 5.00 1.00 5.00				5191.00 5196.00 5201.00 5204.00 5206.00 5211.00 5215.00 5216.00 5221.00 5222.00 5286.00 5286.00 5287.00 5292.00 5292.00		-	Bottom Of Top Packe	
Fool Description         Shut In Tool         Hydraulic tool         Jars         EM Tool         Safety Joint         Packer         Packer         Stubb         Perforations         Change Over Sub         Orill Pipe         Change Over Sub         Handling Sub         Recorder		5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00 5.00 1.00 5.00 0.00 0.00 5.00	6752		Inside	5191.00 5196.00 5201.00 5204.00 5206.00 5211.00 5215.00 5216.00 5221.00 5222.00 5286.00 5287.00 5292.00 5292.00 5292.00 5292.00		-	Bottom Of Top Packe	
Fool Description         Shut In Tool         Hydraulic tool         Jars         EM Tool         Safety Joint         Packer         Packer         Stubb         Perforations         Change Over Sub         Drill Pipe         Change Over Sub         Handling Sub         Recorder		5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00 5.00 1.00 4.00 1.00 5.00 0.00 0.00	6752		Inside	5191.00 5196.00 5201.00 5204.00 5206.00 5211.00 5215.00 5216.00 5221.00 5222.00 5286.00 5286.00 5287.00 5292.00 5292.00		00	Bottom Of Top Packe	

10 km -		DRI	LL ST	EM TEST I	REPORT	-		FLUID SI	JMMAR
	RILOBITE	Hayes	Oil & Gas	LC		5-32S-18V	V Comanch	ne	
	ESTING , INC		( 108 (S. 67009			Huck #1-5 Job Ticket: 6		DST#:2	
KI	ATTN: John Hastings/Tim He						2022.08.31 @	-	
lud and Cu	shion Information	ļ							
lud Type: Ge lud Weight: iscosity: /ater Loss: esistivity: alinity:	el Chem 9.00 lb/gal 53.00 sec/qt 8.78 in <sup>3</sup> ohm.m 7000.00 ppm		Ci Ci Gi	ushion Type: ushion Length: ushion Volume: as Cushion Type: as Cushion Pressur	e:	ft bbl psig	Oil API: Water Salinit	y:	deg API ppm
ilter Cake:	0.20 inches								
ecovery In	formation								
	· · · ·		R	ecovery Table			7		
	Leng ft	lth		Description		Volume bbl			
		307.00	drilling m	ıd		3.23 <sup>-</sup>	1		
	Total Length:	307	.00 ft	Total Volume:	3.231 bbl				
	Num Fluid Sam Laboratory Nar Recovery Com	ne:		Num Gas Bombs: Laboratory Locatio	0 on:	Serial #			

Printed: 2022.09.07 @ 08:09:11

Ref. No: 69513





Huck #1-5

DST Test Number: 2

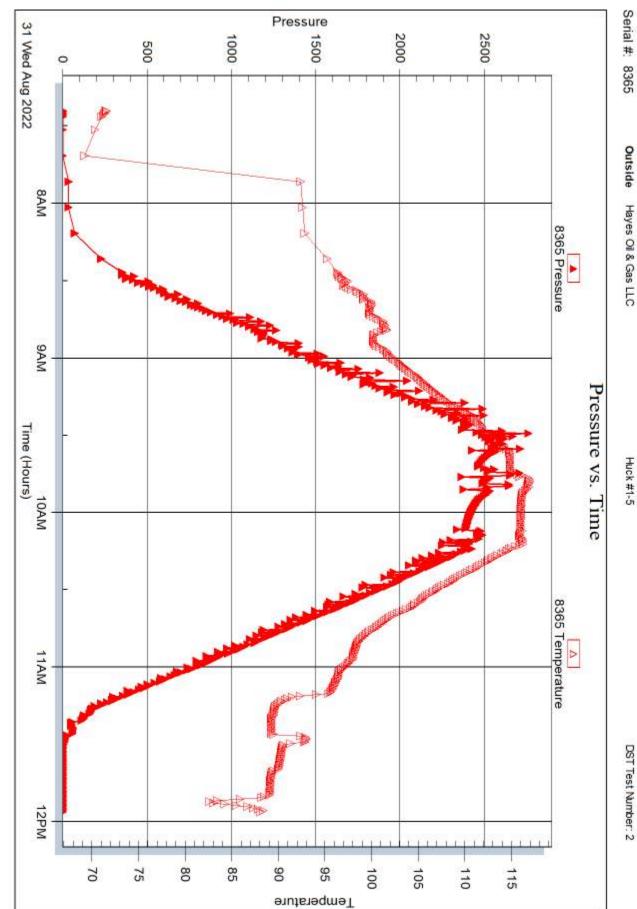
Inside

Hayes Oil & Gas LLC

Printed: 2022.09.07 @ 08:09:12

Ref. No: 69513

Trilobite Testing, Inc



DST Test Number: 2



Prepared For:

Hayes Oil & Gas LLC

PO Box 108 Attica KS. 67009

ATTN: John Hastings/Tim He

### Huck #1-5

## 5-32S-18W Comanche

 Start Date:
 2022.08.31 @ 12:08:01

 End Date:
 2022.08.31 @ 20:32:02

 Job Ticket #:
 6914
 DST #:
 3

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 DST # 3

	DRILL STEM TES	T REP	ORT			
RILOBITE	Hayes Oil & Gas LLC		5-32	2S-18W Co	manche	
ESTING , INC	PO Box 108 Attica KS. 67009			ck #1-5		
				Ticket: 6914	DST	
	ATTN: John Hastings/Tim He		Test	: Start: 2022.(	)8.31 @ 12:08:0	1
GENERAL INFORMATION:						
Formation:     Mississippi       Deviated:     No     Whipstock:       Time Tool Opened:     14:05:32       Time Test Ended:     20:32:02	ft (KB)		Test Test Unit	er: Rich	ventional Bottom ie Samora/Leal C	
Interval:5180.00 ft (KB) To52Total Depth:5215.00 ft (KB) (ThHole Diameter:7.88 inchesHole			Refe	erence Elevati KB to GF	2154.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8365         Outside           Press@RunDepth:         118.75 psig           Start Date:         2022.08.31           Start Time:         12:08:01	End Date: End Time:	2022.08.31 20:32:02	Capacity: Last Calib Time On F Time Off	o.: Btm: 2022	1899.12. 2.08.31 @ 14:04: 2.08.31 @ 17:54:	.02
TEST COMMENT: 10-IF: BOB immed 60-ISI: Blow back 60-FF:BOB imme 90-FSI: No blow Pressure vs. T	k built to 5.51" diate, gas was gauged and sample back	ed	PE	RESSURES		
8005 Pressure	5365 Temperature	Time	Pressure		nnotation	
200	- 115	(Min.) 0	(psig) 2758.07	(deg F) 117.42 Init	ial Hydro-static	
		2	273.05		en To Flow (1)	
	105	15 76	134.40 1769.33	116.99 Sh 118.03 End	ut-In(1) 1 Shut-In(1)	
		77	217.23		en To Flow (2)	
		137 229	118.75 1766.99		ut-In(2) d Shut-In(2)	
1000 500 500 500 500 500 500 500		231	2708.52		al Hydro-static	
Recovery				Gas R		1
Length (ft)     Description       214.00     CCM 10% C 00% M	Volume (bbl)	Eirot Car	Pata	Choke (inches		Gas Rate (Mcf/d)
214.00 GCM 10%G 90%M	1.93	First Gas		0.25	44.17	86.28 227.78
		Max. Ga		0.38	55.19	236.73
* Recovery from multiple tests	Ref. No: 6914				2.09.07 @ 08:08	

	DRILL STEM TES	T REPC	ORT			
RILOBITE	Hayes Oil & Gas LLC		5-32S-	8W Con	nanche	
ESTING, INC	PO Box 108 Attica KS. 67009		Huck #			
				et: 6914	DST	
ulteral.	ATTN: John Hastings/Tim He		Test Sta	rt: 2022.08	3.31 @ 12:08:0	1
GENERAL INFORMATION:						
Formation:MississippiDeviated:NoWhipstock:Time Tool Opened:14:05:32Time Test Ended:20:32:02	ft (KB)		Test Typ Tester: Unit No:		entional Bottom Samora/Leal C	
Interval:5180.00 ft (KB) To52Total Depth:5215.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Referen	ce Elevation KB to GR/	2154.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 6752InsidePress@RunDepth:psigStart Date:2022.08.31Start Time:12:08:01	@ 5197.00 ft (KB) End Date: End Time:	2022.08.31 20:32:02	Capacity: Last Calib.: Time On Btm: Time Off Btm:		1899.12.	psig 30
90-FSI: No blow 1 Pressure vs. Ti	diate, gas was gauged and sample back	ed	PRES	SURE S	UMMARY	
STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHease STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE STEPHEASE	Comparison Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine Constraine	Time (Min.)		mp An g F)	notation	
Recovery			•	Gas Ra	tes	
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
214.00 GCM 10%G 90%M	1.93	First Gas		0.25	44.17 52.56	86.28 227.78
		Max. Gas		0.38	55.19	236.73
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 6914				.09.07 @ 08:08	

	DRIL	L STE	MTEST	REPOR	Т	TOOL DIAGRAM
TESTING , INC	Hayes C	Dil & Gas LLC			5-32S-18W Coma	anche
ESTING , INC	Attica K	108 S. 67009 John Hasting:	s/Tim He		<b>Huck #1-5</b> Job Ticket: 6914 Test Start: 2022.08.3	<b>DST#: 3</b> 31 @ 12:08:01
Tool Information	•					
Drill Collar:Length:118.00 ftDrill Pipe Above KB:9.00 ftDepth to Top Packer:5180.00 ftDepth to Bottom Packer:ftInterval betw een Packers:35.00 ftTool Length:64.00 ft	Diameter:	0.00 inc 2.25 inc	thes Volume: thes Volume: thes Volume: Total Volume:	70.73 bbl 0.00 bbl 0.58 bbl 71.31 bbl	Tool Weight: Weight set on Pacl Weight to Pull Loos Tool Chased String Weight: Initia Fina	se: 90000.00 lb ft ial 81000.00 lb
	Diameter.	0.70 110				
Tool Comments:		Serial No.	Position	Depth (ft) Ac	ccum. Lengths	
Tool Comments: Tool Description Lei			Position	<b>Depth (ft)</b> Ac 5156.00	ccum. Lengths	
Tool Comments: Tool Description Let Shut In Tool	ngth (ft)		Position	• • •	ccum. Lengths	
Tool Comments: <b>Tool Description Lei</b> Shut In Tool Hydraulic tool	<b>ngth (ft)</b> 5.00		Position	5156.00	ccum. Lengths	
Tool Comments: <b>Tool Description Leu</b> Shut In Tool Hydraulic tool Jars	<b>ngth (ft)</b> 5.00 5.00		Position	5156.00 5161.00	ccum. Lengths	
Tool Comments: <b>Tool Description Len</b> Shut In Tool Hydraulic tool Jars EM Tool	<b>ngth (ft)</b> 5.00 5.00 5.00		Position	5156.00 5161.00 5166.00	ccum. Lengths	
Tool Comments: <b>Tool Description Lei</b> Shut In Tool Hydraulic tool Jars EM Tool Safety Joint	<b>ngth (ft)</b> 5.00 5.00 5.00 3.00		Position	5156.00 5161.00 5166.00 5169.00	ccum. Lengths	Bottom Of Top Packer
Tool Comments: <b>Tool Description Leu</b> Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer	<b>ngth (ft)</b> 5.00 5.00 5.00 3.00 2.00		Position	5156.00 5161.00 5166.00 5169.00 5171.00		Bottom Of Top Packer
Tool Comments: <b>Tool Description Lei</b> Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer	ngth (ft) 5.00 5.00 5.00 3.00 2.00 5.00		Position	5156.00 5161.00 5166.00 5169.00 5171.00 5176.00		Bottom Of Top Packer
Tool Comments: Tool Description Lei Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb	ngth (ft) 5.00 5.00 5.00 3.00 2.00 5.00 4.00		Position	5156.00 5161.00 5166.00 5169.00 5171.00 5176.00 5180.00		Bottom Of Top Packer
Tool Comments: Tool Description Lei Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations	ngth (ft) 5.00 5.00 3.00 2.00 5.00 4.00 1.00		Position	5156.00 5161.00 5166.00 5169.00 5171.00 5176.00 5180.00 5181.00		Bottom Of Top Packer
Tool Comments: Tool Description Ler Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Perforations	ngth (ft) 5.00 5.00 3.00 2.00 5.00 4.00 1.00 2.00		Position	5156.00 5161.00 5166.00 5169.00 5171.00 5176.00 5180.00 5181.00 5183.00		Bottom Of Top Packer
Tool Comments: Tool Description Lei Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Perforations Perforations	ngth (ft) 5.00 5.00 3.00 2.00 5.00 4.00 1.00 2.00 4.00		Position	5156.00 5161.00 5169.00 5171.00 5176.00 5180.00 5181.00 5183.00 5187.00		Bottom Of Top Packer
Tool Comments: Tool Description Lei Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Packer Stubb Perforations Perforations Perforations Perforations Handling Sub	<b>ngth (ft)</b> 5.00 5.00 3.00 2.00 5.00 4.00 1.00 2.00 4.00 5.00		Position	5156.00 5161.00 5169.00 5171.00 5176.00 5180.00 5181.00 5183.00 5187.00 5192.00		Bottom Of Top Packer
Tool Comments: Tool Description Ler Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Perforations Perforations Perforations Handling Sub Recorder	ngth (ft) 5.00 5.00 3.00 2.00 5.00 4.00 1.00 2.00 4.00 5.00 5.00	Serial No.		5156.00 5161.00 5166.00 5169.00 5171.00 5176.00 5180.00 5181.00 5183.00 5183.00 5187.00 5192.00 5197.00		Bottom Of Top Packer
Tool Comments: Tool Description Lei Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Perforations Perforations Handling Sub Recorder Recorder	ngth (ft) 5.00 5.00 3.00 2.00 5.00 4.00 1.00 2.00 4.00 5.00 5.00 5.00 0.00	Serial No.	Inside	5156.00 5161.00 5169.00 5171.00 5176.00 5180.00 5181.00 5183.00 5187.00 5192.00 5197.00		Bottom Of Top Packer
Tool Comments:	ngth (ft) 5.00 5.00 3.00 2.00 4.00 1.00 2.00 4.00 5.00 5.00 5.00 0.00 0.00	Serial No.	Inside	5156.00 5161.00 5169.00 5171.00 5176.00 5180.00 5181.00 5183.00 5187.00 5192.00 5197.00 5197.00		Bottom Of Top Packer Bottom Packers & Anchor

100	RILOBITE	DRI	LL STEM TEST REP	ORT	-		FLUID S	UMMARY
	<u> </u>		Oil & Gas LLC		5-32S-18W	Comanche	)	
	ESTING , IN	PO Box	( 108		Huck #1-5			
翻			Attica KS. 67009		Job Ticket: 6914		DST#: 3	
		ATTN:	John Hastings/Tim He		Test Start: 2	022.08.31 @ 1	2:08:01	
Mud and Cu	shion Information	-						
Mud Type: G	el Chem		Cushion Type:			Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:		ppm
Viscosity:	52.00 sec/qt		Cushion Volume:		bbl			
Water Loss:	11.18 in <sup>3</sup>		Gas Cushion Type:					
Resistivity:	ohm.m		Gas Cushion Pressure:		psig			
Salinity:	5900.00 ppm							
Filter Cake:	0.20 inches							
Recovery In	formation							
			Recovery Table					
	Ler		Description		Volume bbl			

214.00

Total Length:

Num Fluid Samples: 0

Recovery Comments:

Laboratory Name:

GCM 10%G 90%M

Total Volume:

Num Gas Bombs:

Laboratory Location:

ft

1.927

Serial #:

1.927 bbl

0



Hayes Oil & Gas LLC

ATTN: John Hastings/Tim He

PO Box 108 Attica KS. 67009

#### 5-32S-18W Comanche

#### Huck #1-5

 Job Ticket:
 6914
 DST#: 3

 Test Start:
 2022.08.31 @ 12:08:01

#### **Gas Rates Information**

Temperature:	59 (deg F)
Relative Density:	0.67
Z Factor:	0.9

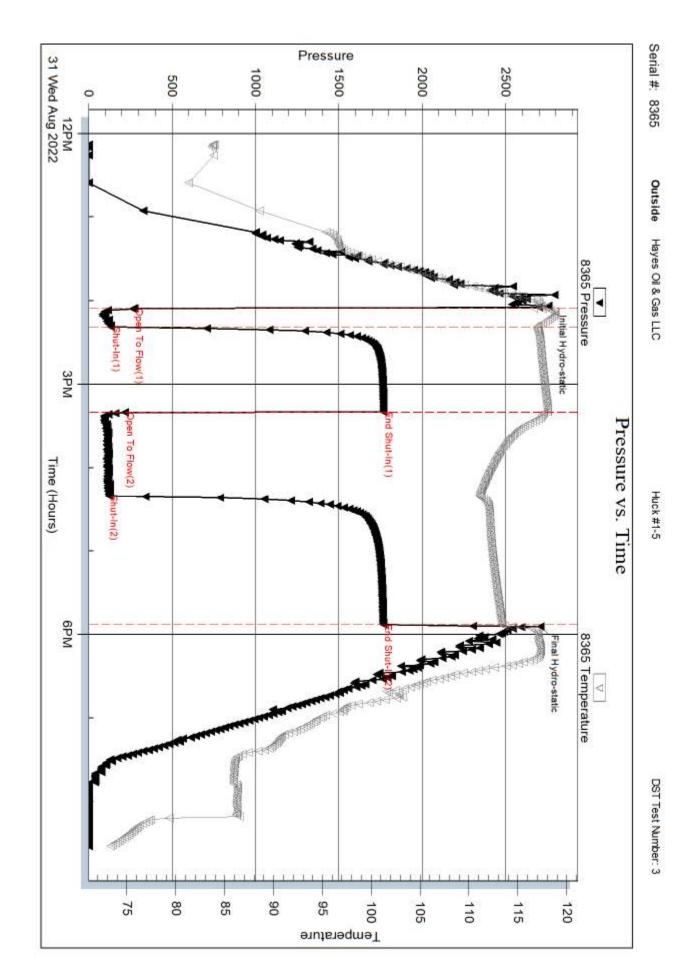
### Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.25	44.17	86.28
2	10	0.38	51.04	222.61
2	20	0.38	55.19	236.73
2	30	0.38	54.69	235.03
2	40	0.38	53.90	232.34
2	50	0.38	53.08	229.55
2	60	0.38	52.56	227.78

#### GAS RATES



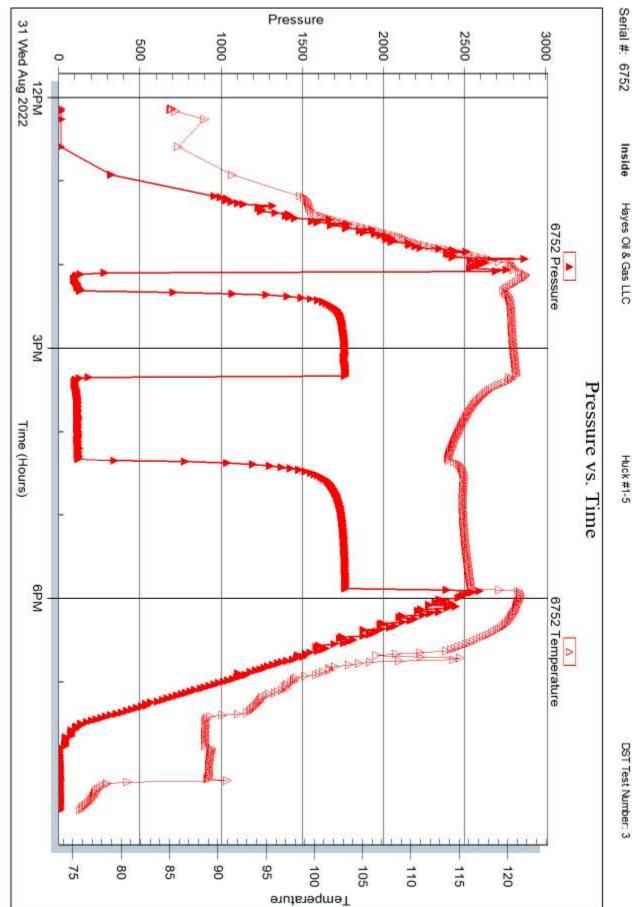
Ref. No: 6914



Printed: 2022.09.07 @ 08:08:35

Ref. No: 6914

Trilobite Testing, Inc



Huck #1-5

DST Test Number: 3

Inside

Hayes Oil & Gas LLC



Prepared For:

Hayes Oil & Gas LLC

PO Box 108 Attica KS. 67009

ATTN: John Hastings/Tim He

### Huck 1-5

### 5-32S-18W Comanche

Start Date:	2022.09.02 @	02:59:00	
End Date:	2022.09.02 @	12:19:02	
Job Ticket #:	69515	DST #:	4

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

Link Upper Viola Test Conventional Bottom Hole (Reset) Time Tool Opened 60 07:17     Heyes CM & Gas LLC     5-325-18W Comanche Huck 1-5 Jub Ticket: 68915       Derivation:     PD Bax 108 Attice KS. 67009     Test Stat: 2022.09.02 @ 02.59:00       GENERAL INFORMATION:     Ferration:     Upper Viola Deviator:       Deviator:     No     Whitestock:     ft (KB)       Deviator:     No     Whitestock:     ft (KB)       Deviator:     Software (KB) To     570.00 ft (KB) (TVD)     Tester:       Total Dept:     570.00 ft (KB) (TVD)     2166.00 ft (KB)       Total Dept:     142.80 psig     ft (KB)       Start Date:     2022.09.02     End Date:       Press@BunDeptn:     142.80 psig     ft (KB)       Start Date:     2022.09.02     End Date:       Start Date:     2022.09.02     End Time:       Start Date:     2022.09.02		DRILL STEM TES	TREP	ORT			
Attice KS: 67009       Job Track: 69515       DST#:4         ATTR: John Hastings/Tim He       Test Start: 2022.09.02 @ 02.59.00         GENERAL INFORMATION:       Eorration:       Upper Viola         Deviate:       No.       Witpstock:       ft (KB)         Time Tool Opened:       60.717       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened:       60.717       Test Type:       Conventional Bottom Hole (Reset)         Time Test Ended:       12:19.02       Unit No:       74         Interval:       540.00 ft (KB) (TVD)       Total Depti:       5700.00 ft (KB) (TVD)         Total Depti:       5700.00 ft (KB) (TVD)       Total Depti:       2022.09.02         Start Date:       2022.09.02       End Date:       2022.09.02       Last Calible:       2022.09.02         Start Date:       2022.09.02       End Date:       2022.09.02       Last Calible:       2022.09.02       0.817.7         TEST COMMENT:       30-F: Strong blow, BOB in 6 min, built to 46.75"       45-FE: Rob bay, BOB in 12 minutes, built to 34.26"       66-FSt. No blow back:       45-FE: Rob bay, BOB in 12 minutes, built to 34.26"         Generative:       Time       Time       PERSURE SUMMARY       Time of Bin:       202.09.02       110.01       110.12       166.7       110.71 <td></td> <td>Hayes Oil &amp; Gas LLC</td> <td></td> <td>5-32S-</td> <td>18W Coma</td> <td>inche</td> <td></td>		Hayes Oil & Gas LLC		5-32S-	18W Coma	inche	
ATTN:     Job Ticket: 69515     DSTP: 4       ATTN:     Job Ticket: 69515     DSTP: 4       ATTN:     Job Ticket: 69515     DSTP: 4       Formation:     Upper Viola     Test Start: 2022.09.02 @ 02:59:00       Deviated:     No     Whipstock:     ft (KB)       Time Test Ended:     12:19:02     Test Type:     Conventional Bottom Hole (Reset)       Total Depth:     5700.00 ft (KB) (TVD)     Tester:     Reference Bevatons:     2166.00 ft (KB)       Total Depth:     5700.00 ft (KB) (TVD)     Reference Bevatons:     2166.00 ft (KB)       Start Date:     7.4     Tester:     psig       Press@RunDepth:     142.69 psig @ ft (KB)     Capacity:     psig       Start Date:     2022.09.02     End Date:     2022.09.02     Last Callb::     2022.09.02       Start Time:     02:59:01     End Time:     12:19:02     Time Off Btrx     2022.09.02 @ 09:21:17       TEST COMMENT:     30-E: Strong blow, BOB in 6 min, built to 34.26°     60-FSt: No blow back     Freesure Term     Time off Btrx     2022.09.02 @ 09:21:17       TEST COMMENT:     30-E: Strong blow, BOB in 6 min, built to 34.26°     60-FSt: No blow back     Freesure Term     Term       Time off Btrx     2022.09.02     11:10     12:46.0     11:10     12:46.0       Time off Btrx <t< td=""><td>ESTING , INC</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	ESTING , INC						
GENERAL INFORMATION:         Formation:       Upper Viola         Deviated:       No       Whipstock:       ft (KB)         Deviated:       No       Whipstock:       ft (KB)         Time Tool Opened:       06/07:17       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened:       06/07:17       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened:       06/07:17       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened:       06/07:17       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened:       06/07:17       Test Type:       Conventional Bottom Hole (Reset)         Total Depth:       5700.00 ft (KB) (TVD)       Pester:       74         Hole Demeter:       7.88 inches Hole Condition:       Good       KB to GRVCF:       12.00 ft         Serial #:       3365       Pess@PanDopth:       2022.09.02       East Calib:       2022.09.02       06:00:17         Time Cet Birn:       02:59.01       End Time:       12:19.02       Time Or Birn:       2022.09.02 @ 06:00:17         Time Cet Birn:       02:59.01       End Time:       12:19.02       Time Ort Birn:       2022.09.02 @ 06:00:17         Time Off Birn:       02:59.01 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Formation:       Upper Viola         Deviated:       No       Whipstock:       ft (KB)       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened:       06:07:17       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened:       06:07:17       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened:       06:07:17       Test Type:       Conventional Bottom Hole (Reset)         Total Depth:       5700.00 ft (KB) (TVD)       Test Type:       Conventional Bottom Hole (Reset)         Serial #:       8365       Press@RunDepth:       2164.00 ft (KB)       Test Type:       2164.00 ft (KB)         Serial #:       8365       Press@RunDepth:       2022.09.02       Last Calib:       psig         Start Date:       2022.09.02       End Time:       12:19:02       Time On Btm:       2022.09.02 @ 06:00:17         Test COMMENT:       30-F5: Strong blow, BOB in 6 min, built to 46:75'       45-F8: No blow back       45-FF: Fair bow, BOB in 12 minutes, built to 34:26''       60-F51: No blow back       45-FF: Fair bow, BOB in 12 minutes, built to 34:26''       116:77       Annotation       mital Hydro-static         0       0       0       116:77       116:77       116:71       116:71       116:71       116:71       116:71       116:71		ATTN: John Hastings/Tim He		Test Sta	rt: 2022.09.0	2 @ 02:59:00	
Deviated:       No       Whipstock:       ft (KB)       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened: 06:07:17       Time Tool Opened: 06:07:17       Test Type:       Conventional Bottom Hole (Reset)         Time Tool Opened: 06:07:17       Sefall 12:19:02       Unit No:       74         Interval:       S40.00 ft (KB) To 5700.00 ft (KB) (TVD)       Reference Bevations:       2166.00 ft (KB)         Total Depth:       5700.00 ft (KB) (TVD)       2154.00 ft (CF)       2100 ft         Serial #:       8365       Press@RanDepth:       142.69 psig @ ft (KB)       Capacity::       psig         Start Date:       2022.09.02       East Calib:       2022.09.02 @ 00:017       Time Oft Btm:       2022.09.02 @ 00:017         Start Time:       02:59:01       End Time:       12:19:02       Time Oft Btm:       2022.09.02 @ 09:21:17         TEST COMMENT:       30-F: Strong blow, BOB in 6 min, built to 46:75°       45-FF: Fair blow, BOB in 2 min, built to 46:75°       45-FF: Fair blow, BOB in 2 min, built to 34:26°       60-FSt No blow back         45-FF: Fair blow, BOB in 2 min, built to 34:26°       60-FSt No blow back       110:77       116:77       Intial Hydro-static         10       11       110:01       110:72       End Shut-h(1)       110:72       End Shut-h(2)       110:71       End	GENERAL INFORMATION:						
Total Depth:       5700.00 ft (KB) (TVD)       2154.00 ft (CF)         Hole Dameter:       7.88 inchesHole Condition: Good       KB to GRVCF:       12.00 ft         Serial #:       8365       Ress@RunDepth:       142.69 psig @       ft (KB)       Capacity:       psig         Start Date:       2022.09.02       End Date:       2022.09.02       Last Call:       2022.09.02 @ 06:00:17         Time On Bitm:       2022.09.02 @ 09:21:17       Time On Bitm:       2022.09.02 @ 09:21:17         TEST COMMENT:       30-FF: Strong blow, BOB in 6 min, built to 46.75"       45-FF: Fair blow, BOB in 12 minutes, built to 34.26"         60-FSI: No blow back       45-FF: Fair blow, BOB in 12 minutes, built to 34.26"       116.76       Open To Flow (1)         111.00       124.58       Shut-h(1)       124.69       Bisl Hu-h(1)       124.69         96.59       116.78       Open To Flow (1)       132       124.69       132.05       Find-Int-ln(1)         124.69       132.05       Find-Int-ln(1)       124.69       132.13       Final Hydro-static         124.69       132.05       Find-Int-ln(1)       132       124.69       132.05       Find-Int-ln(2)         124.69       132.05       Find-Int-ln(2)       Final Hydro-static       Open To Flow (2)       132.13       F	Deviated: No Whipstock: Time Tool Opened: 06:07:17	ft (KB)		Tester:	Richie S		e (Reset)
Press@RunDepth:       142.69 psig @ ft (KB)       Capacity:       psig         Start Date:       2022.09.02       End Date:       2022.09.02       Last Callb:       2022.09.02 @ 06:00:17         Start Time:       02:59:01       End Time:       12:19:02       Time On Bitm:       2022.09.02 @ 06:00:17         TEST COMMENT:       30-Ff: Strong blow, BOB in 6 min, built to 46.75"       45-Ff: Fair blow, BOB in 12 minutes, built to 34.26"       60-Fsit No blow back         45-Ff: Fair blow, BOB in 12 minutes, built to 34.26"       60-Fsit No blow back       12:19.02       Time       Pressure Term       Annotation         0       Free Tobow, BOB in 12 minutes, built to 34.26"       60-Fsit No blow back       116.77       Open To Flow (1)       114.78       Open To Flow (1)         142.69       132.05       116.78       Open To Flow (1)       134.58       Shut-In(1)       124.58       Shut-In(1)         132.12       End Shut-In(1)       132.65       I14.78       Open To Flow (2)       132.67       End Shut-In(1)         132.267       End Shut-In(2)       200       174.98       132.67       End Shut-In(2)         132.01       End Shut-In(2)       201       174.98       132.13       Final Hydro-static         132.13       Final Hydro-static       112.10       124.69<	Total Depth: 5700.00 ft (KB) (T	/D)		Referen		2154.00	ft (CF)
Image: Non-transmission of the second sec	Press@RunDepth: 142.69 psig Start Date: 2022.09.02 Start Time: 02:59:01 TEST COMMENT: 30-IF: Strong blo 45-ISI: No blow b 45-FF: Fair blow	End Date: End Time: w , BOB in 6 min, built to 46.75" back , BOB in 12 minutes, built to 34.26"		Last Calib.: Time On Btm:		2022.09.02 .02 @ 06:00:17	psig
Image: Non-transmission of the second sec				PRES	SURE SUN	MMARY	
Length (ft)         Description         Volume (bbl)         Choke (inches)         Pressure (psig)         Gas Rate (Mcf/d)		130 130 100 100 100 100 100 100 100 100	(Min.) 0 7 39 85 85 132 200	Pressure (psig)         Te (de 2753.00           2753.00         11           96.59         11           111.00         12           1891.91         13           171.82         12           142.69         13           1749.98         13	mp         Anno           eg F)         6.77         Initial H           6.78         Open T           4.58         Shut-Ir           9.12         End Sr           9.40         Open T           12.05         Shut-Ir           2.67         End Sr	hydro-static To Flow (1) h(1) hut-lh(1) To Flow (2) h(2) hut-lh(2)	
	Recovery			· · ·			
				(	Choke (inches) P	Pressure (psig) Gas	Rate (Mcf/d)
* Recovery from multiple tests							

	DRILL STEM TES	ST REPO	DRT		
RILOBITE	Hayes Oil & Gas LLC		5-32S-18V	V Comanc	he
ESTING, INC	PO Box 108 Attica KS. 67009		Huck 1-5	20545	DOT# 4
	ATTN: John Hastings/Tim He		Job Ticket: 6 Test Start: 2	2022.09.02 @	<b>DST#: 4</b> 02:59:00
GENERAL INFORMATION:					
Formation:Upper ViolaDeviated:NoTime Tool Opened:06:07:17Time Test Ended:12:19:02	ft (KB)		Test Type: Tester: Unit No:	Conventiona Richie Samo 74	al Bottom Hole (Reset) ra/Leal C
Interval:5640.00 ft (KB) To57Total Depth:5700.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Reference E KE	evations: to GR/CF:	2166.00 ft (KB) 2154.00 ft (CF) 12.00 ft
Serial #: 6752Press@RunDepth:psigStart Date:2022.09.02Start Time:02:59:01	@ ft (KB) End Date: End Time:	2022.09.02 12:19:02	Capacity: Last Calib.: Time On Btm: Time Off Btm:		psig 2022.09.02
60-FSI: No blow	ack , BOB in 12 minutes, built to 34.26" back				
Pressure vs. T	inne 6552 Temperature	Time	PRESSU Pressure Temp	IRE SUMM	
2FitSp2ZZ		(Min.)	(psig) (deg F		
Recovery		1	G	as Rates	
Length (ft) Description	Volume (bbl)		Choke	(inches) Pressu	ure (psig) Gas Rate (Mcf/d)
246.00 GCM 10%G 90%M	2.38				
* Recovery from multiple tests					
Trilobite Testing, Inc	Ref. No: 69515		Printer	d: 2022.09.07	@ 07.56.14

RILOBITE TESTING , I		DRILL STEM TEST REPORT					TOOL DIAGRAM
	IE -	Hayes (	Dil & Gas LLC			5-32S-18W Coma	anche
ESTI	NG , INC.	Attica K	108 S. 67009 John Hasting	s/Tim He		Huck 1-5 Job Ticket: 69515 Test Start: 2022.09.0	<b>DST#:4</b> 02 @ 02:59:00
Tool Information							
Heavy Wt. Pipe: Length: Drill Collar: Length: Drill Pipe Above KB:	5500.28 ft 0.00 ft 118.00 ft 7.28 ft 5640.00 ft ft 60.00 ft 89.00 ft 2	Diameter:	0.00 inc 2.25 inc	ches Volume: ches Volume: ches Volume: Total Volume:	77.15 bbl 0.00 bbl 0.58 bbl 77.73 bbl	Tool Weight: Weight set on Pac Weight to Pull Loos Tool Chased String Weight: Initi Fin	se: 93000.00 lb ft ial 90000.00 lb
Toor comments.							
Tool Description	Ler	ngth (ft)	Serial No.	Position	Depth (ft) Ad	ccum. Lengths	
	Ler	<b>ngth (ft)</b> 5.00	Serial No.	Position	<b>Depth (ft)</b> Ad 5616.00	ccum. Lengths	
Tool Description Shut In Tool	Ler		Serial No.	Position		ccum. Lengths	
Tool Description	Ler	5.00	Serial No.	Position	5616.00	ccum. Lengths	
<b>Tool Description</b> Shut In Tool Hydraulic tool	Ler	5.00 5.00	Serial No.	Position	5616.00 5621.00	ccum. Lengths	
Tool Description Shut In Tool Hydraulic tool Jars EM Tool	Ler	5.00 5.00 5.00	Serial No.	Position	5616.00 5621.00 5626.00	ccum. Lengths	
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint	Ler	5.00 5.00 5.00 3.00	Serial No.	Position	5616.00 5621.00 5626.00 5629.00	ccum. Lengths	Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer	Ler	5.00 5.00 5.00 3.00 2.00	Serial No.	Position	5616.00 5621.00 5626.00 5629.00 5631.00		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer	Ler	5.00 5.00 5.00 3.00 2.00 5.00	Serial No.	Position	5616.00 5621.00 5626.00 5629.00 5631.00 5636.00		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer	Ler	5.00 5.00 5.00 3.00 2.00 5.00 4.00	Serial No.	Position	5616.00 5621.00 5626.00 5629.00 5631.00 5636.00 5640.00		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb	Ler	5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00	Serial No.	Position	5616.00 5621.00 5626.00 5629.00 5631.00 5636.00 5640.00 5641.00		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Perforations	Ler	5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00	Serial No.	Position	5616.00 5621.00 5626.00 5629.00 5631.00 5636.00 5640.00 5641.00 5643.00		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Perforations Change Over Sub		5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00 2.00 5.00	Serial No.	Position	5616.00 5621.00 5629.00 5631.00 5636.00 5640.00 5641.00 5643.00 5648.00		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Perforations Change Over Sub Drill Pipe		5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00 2.00 5.00 1.00	Serial No.	Position	5616.00 5621.00 5629.00 5631.00 5636.00 5640.00 5641.00 5643.00 5648.00 5649.00		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Perforations Change Over Sub Drill Pipe Change Over Sub		5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 5.00 1.00 32.00	Serial No.	Position	5616.00 5621.00 5626.00 5629.00 5631.00 5636.00 5640.00 5641.00 5643.00 5648.00 5649.00 5681.00		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations Perforations Change Over Sub Drill Pipe Change Over Sub Handling Sub		5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 5.00 1.00 32.00 1.00	Serial No.	Position	5616.00 5621.00 5629.00 5631.00 5636.00 5640.00 5641.00 5643.00 5648.00 5649.00 5681.00 5682.00		Bottom Of Top Packer
Tool DescriptionShut In ToolHydraulic toolJarsEM ToolSafety JointPackerPackerStubbPerforationsPerforationsChange Over SubDrill PipeChange Over SubHandling SubRecorder		5.00 5.00 5.00 2.00 5.00 4.00 1.00 2.00 5.00 1.00 32.00 1.00 5.00			5616.00 5621.00 5629.00 5631.00 5636.00 5640.00 5641.00 5643.00 5648.00 5649.00 5681.00 5682.00 5687.00		Bottom Of Top Packer
Tool Description Shut In Tool Hydraulic tool Jars EM Tool Safety Joint Packer Packer Stubb Perforations		5.00 5.00 5.00 3.00 2.00 5.00 4.00 1.00 2.00 5.00 1.00 32.00 1.00 5.00 0.00	6752	Inside	5616.00 5621.00 5629.00 5631.00 5636.00 5640.00 5641.00 5643.00 5649.00 5649.00 5681.00 5682.00 5687.00		Bottom Of Top Packer

RILOBITE		DRILL STEM TEST REPORT				FLUID SUMMARY		
	TESTING, INC		Hayes Oil & Gas LLC		5-32S-18W Comanche			
			PO Box 108		Huck 1-5			
		Attica KS. 67009		Job Ticket: 69515		DST#:4		
NOV.		ATTN:	John Hastings/Tim He		Test Start: 2	2022.09.02 @ 0	02:59:00	
Mud and C	Cushion Information							
Mud Type:	Gel Chem		Cushion Type:			Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity	<i>'</i> :	ppm
Viscosity:	49.00 sec/qt		Cushion Volume:		bbl			
Water Loss:	9.99 in <sup>3</sup>		Gas Cushion Type:					
Resistivity:	ohm.m		Gas Cushion Pressure	:	psig			
Salinity:	4450.00 ppm							
Filter Cake:	0.20 inches							
Recovery I	Information							
			Recovery Table					
	Leng	h	Description		Volume bbl			
		246.00	GCM 10%G 90%M		2.376	3		
	Total Length:	246	5.00 ft Total Volume:	2.376 bbl				

Num Gas Bombs:

Laboratory Location:

0

Serial #:

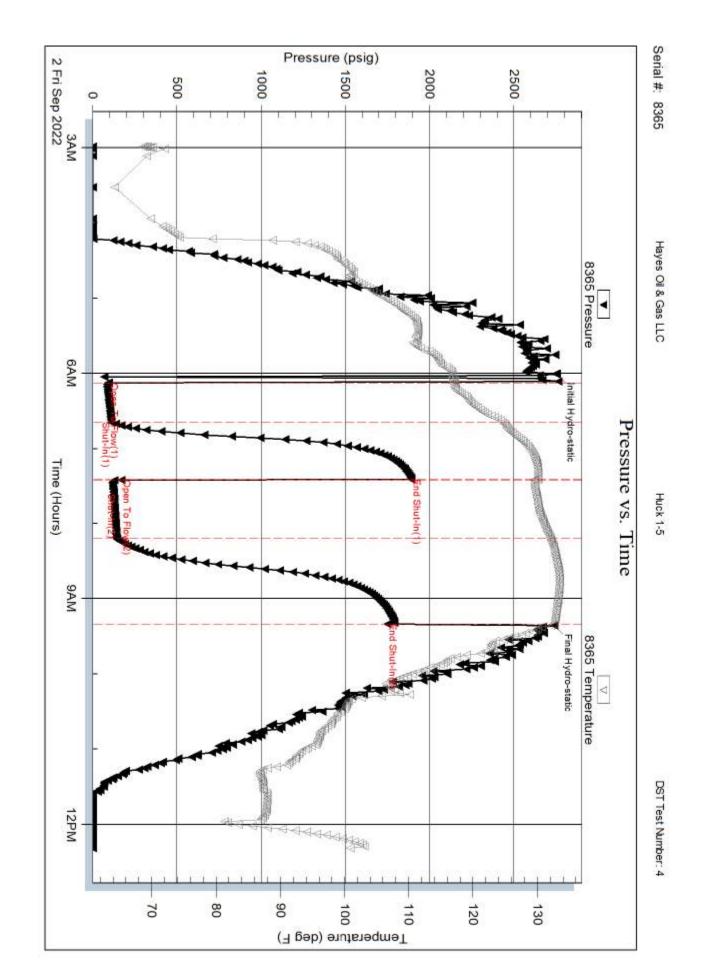
Num Fluid Samples: 0 Laboratory Name: Recovery Comments:

Ref. No: 69515

Printed: 2022.09.07 @ 07:56:14

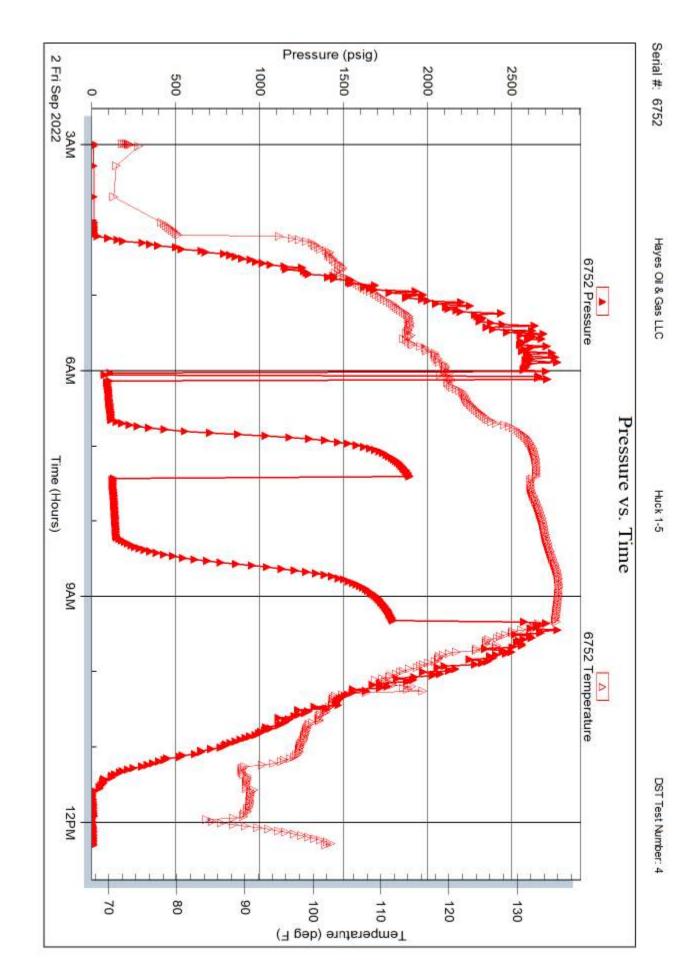
Ref. No: 69515





Printed: 2022.09.07 @ 07:56:15

Ref. No: 69515



RILOBITE		Test Ticket
410 ESTING INC	iy • Hays, Kansas 67601	NO. 69512
Well Name & No. Huck # 1.	-5Test No	Date 8-30-22
company Haves Oil + Gas	LLC Elevation 2	2166 KB 2154 GL
Address 1001 W Hwy 1/00 F	OBXIDY Attica KS 6	7009
Co. Rep/Geo. John Hasting:	SRigF	058 3
Location: Sec. 5 Twp 325	RgeRgeComq	nche
nterval Tested _ 50/60-5122		Ft.Soott
Inchor Length <u>62</u>	Drill Pipe Run 4947	5.P
op Packer Depth 5055	Drill Collars Run	Vis53
Bottom Packer Depth 50/0	Wt. Pipe Run	
Fotal Depth512z	Chlorides OOOppm S	System LCM 5%
Blow Description IF: Strong blo	W, BOB in 30 seconds,	Built to 144"
ISI: No blow	back.	
FF: Strong blow	BOB immediate GTS	25 minutes gauged 450m
FST: No Blow be		
Lec 4856 Feet of GIP	0 0 %gas	%oil %water %mud
tec 91 Feet of GCM	10 %gas	%oil %water 00 %mud
Rec 118 Feet of GCM	16) %gas	%oil %water 90 %mud
lec Feet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Total	_Gravity_N/C_APIRW_N/C@	F Chlorides N/C ppm
A) Initial Hydrostatic2581	S Test 2150	T-On Location 730
B) First Initial Flow 128	Jars 300	T-Started 0948
C) First Final Flow 118	Safety Joint	T-Open 1240
D) Initial Shut-In		T-Pulled 16.36
E) Second Initial Flow / 40	Hourly Standby	T-Out 1909
F) Second Final Flow	Mileage (120) 180	Comments
G) Final Shut-In 77.5		
H) Final Hydrostatic 2503	Sampler	
H) Final Hydrostatic	Straddle	12 EM Tool
20	Shale Packer	Ruined Shale Packer
nitial Open <u> </u>	C Extra Packer	Ruined Packer
	Extra Recorder	Extra Copies
00	Day Standby	Sub Total 0
Final Shut-In	Accessibility	Total 2630
1	Sub Total 2630	MP/DST Disc't
Approved By	Our Representative	2/0

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.

i.

	B/12	1515	BITE FING INC. Commerce Parkway • Ha			1.5	me Report	1
	Hayes	Operator	Gas LLC		Well Nan	he and No	25	DST No
Min.	ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D	
				30	5.18	1/8	6.805	
				40	5,23	118	6.823	>
				50	5.37	1/8	.6.871	and a
				60	5,52	1/45	6.924	
							87 - A	
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	1							4
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- net301.251

805-1992-5-5 815-594-5-1

ATIO ATION A	INC. 'kway • Hays, Kansas 67601		NO.	<b>69513</b>	
Well Name & No. <u>Huck 1-5</u> Company <u>Hayes Oil &amp; Gas</u> Address <u>Po box 108 AH</u>	7.4 W	fest No. <u>7</u> Elevation <u>2</u>	14	Date <u>8-31-2</u> кв <u>2/54</u>	GL
Co. Rep / Geo	14	~	13		
Location: Sec Twp	RgeCo.	. <u>Comanc</u>	he	StateK	)
nterval Tested 5120 - 5215 Inchor Length 95		ozi 071	Mu	5, P1W bu	
op Packer Depth	Drill Collars Run	118.		53	
ottom Packer Depth <u>5120</u> Intel Depth 5215	Wt. Pipe Run	7000 ppm		K. 5/2	11.00
Blow Description <u>T.F.' Packer</u>	Failure fried to B	eset Fail	ed pulled	tool	
ec 307 Feet of DRilling	y Mud	%gas	%oil	%water	%muc
ec Feet of		%gas	%oil	%water	%ти
		%gas %gas	%oil %oil	%water %water	
ec Feet of					%mud
ec Feet of ec Feet of ec Feet of		%gas %gas %gas	%oil %oil %oil	%water	%mua %mua
ec         Feet of           initial Hydrostatic         2.711.0000000000000000000000000000000000	C Gravity <u>N/C</u> API F	%gas %gas	%oil %oil %oil °F C T-On Loca	%water %water %water hlorides _////	%muc %muc %muc
ec Feet of ec Feet of ec Feet of tec Total 30 7 BHT A) Initial Hydrostatic 2 7 11 - 0 B) First Initial Flow N1 A	API F C Gravity <u>N/C</u> API F Test <u>1700</u> Jars <u>300</u>	%gas %gas %gas w_ <u>N/C_</u> @	%oil %oil °F C T-On Loca T-Started	%water %water hlorides $///2$ tion700 0724	%mus %mus %mus
Bec         Feet of           ec         BHT           A) Initial Hydrostatic         2 7 11 - 0           B) First Initial Flow         N1A           C) First Final Flow         N1A	Image: Contract of	%gas %gas %gas aw_ <u>N/C_</u> @	%oil %oil %oil F C T-On Loca T-Started T-Open	%water %water %water hlorides $_///_{0}$ tion700 0724 09:46	%mus %mus %mus
But controls         Feet of	V/CGravity         N/CAPI F           0/GI         Test1700           1/GI         Jars300           1/GI         Safety Joint           1/GI         Circ Sub	%gas %gas %gas aw_ <u>N/C_</u> @	%oil %oil °F C T-On Loca T-Started	%water %water hlorides $///2$ tion700 0724	%mus %mus %mus
ec       Feet of         ec       Go 7       BHT         BHT       A/         g) First Initial Flow       N/A         g) Initial Shut-In       N/A         g) Second Initial Flow       N/A	Image: Constraint of the second state         Apple of the second state	%gas %gas %gas aw_ <u>N/C_</u> @	%oil %oil %oil T-On Loca T-Started T-Open T-Pulled T-Out	$\frac{\text{%water}}{\text{%water}}$ hlorides $\frac{1}{\sqrt{2000}}$ tion $\frac{0.720}{0.724}$ $0.724$ $0.724$ $0.724$ $0.724$	%muc %muc ppn
ec       Feet of         ec       BHT         b) Initial Hydrostatic       2.711 - 0         b) First Initial Flow       N/A         c) First Final Flow       N/A         c) Second Initial Flow       N/A         c) Second Final Flow       N/A	Gravity      ACAPI F         API F      API F         Test      API F         Jars	<u>%gas</u> %gas %gas w <u>N/C</u> @	%oil %oil %oil T-On Loca T-Started T-Open T-Pulled T-Out	%water %water %water hlorides $_/ //_{0}$ tion700 0724 09:46 09:49 //.56	%тис %тис ррп
Bit         Feet of           ec         30.7           BHT         1           A) Initial Hydrostatic         2.711.0           B) First Initial Flow         N1A           C) First Final Flow         N1A           D) Initial Shut-In         N1A           E) Second Initial Flow         N1A           E) Second Final Flow         N1A           G) Final Shut-In         N1A	Gravity      API F         Gravity      API F         Test       1700         Gravity      API F         Gravity	<u>%gas</u> %gas %gas aw <u>N/C</u> @	%oil           %oil           %oil           "F C           T-On Loca           T-Started           T-Open	%water %water %water hlorides $///2$ tion 0700 0724 09:46 09:49 //.56 s Packer fail	
BC         Feet of           ec         Feet of           ec         Feet of           ec Total         30.7           BHT         1           a) Initial Hydrostatic         2.711.0           b) First Initial Flow         N1A           c) First Final Flow         N1A           c) Second Initial Flow         N1A           c) Second Initial Flow         N1A           c) Second Final Flow         N1A           c) Second Initial Flow         N1A           c) Second Final Flow         N1A           c) Second Initial Flow         N1A           c) Second Final Flow         N1A	Image: Constraint of the second se	%gas %gas %gas aw_ <u>N/C_@</u> 180	%oil           %oil           %oil           "F C           T-On Loca           T-Started           T-Open	%water %water hlorides _/// tion700 0724 09:46 69:49 11:56 s_Packer_fall	%muc %muc ppn
ec       Feet of	Gravity      API F         Image       1700         Image       300         Image       300         Image       1700         Image       300         Image       1700         Image       1700 <td>%gas %gas %gas ₩_<u>N/C</u>@</td> <td>%oil %oil %oil F C T-On Loca T-Started T-Open T-Out Comment: Comment:</td> <td>%water %water %water hlorides <math>_///2000</math> tion0720 0724 09:46 @7:49 //.56 s Packer fail col350 d Shale Packer</td> <td>%muc %muc ppn</td>	%gas %gas %gas ₩_ <u>N/C</u> @	%oil %oil %oil F C T-On Loca T-Started T-Open T-Out Comment: Comment:	%water %water %water hlorides $_///2000$ tion0720 0724 09:46 @7:49 //.56 s Packer fail col350 d Shale Packer	%muc %muc ppn
ec       Feet of	Image         Image <th< td=""><td>%gas %gas %gas aw <u>N/C</u>@</td><td>%oil         %oil         %oil         %oil         T-On Loca         T-On Loca         T-Started         T-Open         T-Pulled         T-Out         Comment:         Q EM To         Q EM To         Q Ruined</td><td>%water           %water           %water           hlorides         _//</td><td>%muc %muc ppn</td></th<>	%gas %gas %gas aw <u>N/C</u> @	%oil         %oil         %oil         %oil         T-On Loca         T-On Loca         T-Started         T-Open         T-Pulled         T-Out         Comment:         Q EM To         Q EM To         Q Ruined	%water           %water           %water           hlorides         _//	%muc %muc ppn
ec       Feet of         ec       7         BHT       1         A) Initial Hydrostatic       2711.0         B) First Initial Flow       N1A         C) First Final Flow       N1A         D) Initial Shut-In       N1A         E) Second Initial Flow       N1A         E) Second Final Flow       N1A         G) Final Shut-In       N1A         H) Final Hydrostatic       2635         sitial Open       N1A         NItal Shut-In       N1A	Image: Construction of the second	%gas           %gas           %gas           %gas           %gas           %gas           180	%oil           %oil           %oil           %oil           T-On Loca           T-Started           T-Open           T-Open           T-Out           Comment:              Q           EM To           Q           Ruinee           Q           Extra	%water           %water           %water           hlorides           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0725           50           510           520           530           530           530           530           530           530           530           530           530           530           530           530           530           530	%muc %muc ppn
lec       Feet of         lec       Sec Total         lec       Jo 7         BHT       A         A) Initial Hydrostatic       2 7 11 - 0         B) First Initial Flow       N1A         C) First Final Flow       N1A         D) Initial Shut-In       N1A         E) Second Initial Flow       N1A         F) Second Final Flow       N1A         G) Final Shut-In       N1A         H) Final Hydrostatic       2635         nitial Open       N1A	Gravity       N/C       API F         Image       1700         Image       300         Image       Image	<u>%gas</u> %gas %gas w <u>//c</u> @	%oil         %oil         %oil         %oil         T-On Loca         T-On Loca         T-Started         T-Open         T-Open	%water           %water           %water           hlorides           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0724           0725           50           510           520           530           530           530           530           530           530           530           530           530           530           530           530           530           530	%mux %mux ppn

Tritobite 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, toels lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

	RILOBITE		Te	est Ticke	et
410	ESTING IN 1515 Commerce Park	<i>IC.</i> way - Hays, Kansas 67601	N	<b>o.</b> 695	14
Well Name & No.	Huck 1-5	Test No.	o. 3	Date	-31-22
Company_ Ha	VER GILL GOS	IlcElevati	ion 2166	кв	154 GL
	by you and att	CB KS 7,7008	2		
Co. Rep / Geo.	Tihn	Rig	fassil	4	
Location: Sec.	5 Twp 325	RgeCo	Comanche	Sta	te{{5
nterval Tested	5180-5215	Zone Tested			
nchor Length	35	Drill Pipe Run		Mud Wt.	9,2
op Packer Depth	5175	Drill Collars Run 118		Vis	53
Sottom Packer Depth	5180	Wt. Pipe Run		WL	8.8
otal Depth	1545 5215	Chlorides 7000	ppm Syster	n LCM	54
Blow Description	IF: BOB imneo	III Otor		100 Gauge	(
T	ST: Blow Bee	1. 1 11	cher	as couje	
Ŧ		iate, Gas was dans		nolid	
E	ST: NO blow	back	00 100	martion	1 A
lec / ·	Feet of	1) 0 C F	as %	6oil %w	vater %mu
lec	Feet of	%g	as %	6oil %w	vater %mu
lec	Feet of	%9	as %	60il %w	vater %mu
lec	Feet of	%g	as %	60il %w	ater %mu
lec		%g	as %	ioil %w	ater %mu
Rec Total	BHT	Gravity API RW	@	F Chlorides	ppi
A) Initial Hydrostatic	2758	Test2150		On Location 11.	
B) First Initial Flow_	えづろ	Jars 300		Started 12:0	
C) First Final Flow	134			Open 14(	
D) Initial Shut-In	1010	D Safety Joint	T	Pulled 170	54
in statement and the second	0.0	_ Circ Sub	T	ou 201	5
E) Second Initial Flo	11-1	O Hourly Standby	c	comments STay	es @ Rig
10 A.					
F) Second Final Flo	1 5 10	O Mileage			
F) Second Final Flo	1767	O Mileage O Sampler	·······		
F) Second Final Flo G) Final Shut-In	1767			EM Tool	75
F) Second Final Flo G) Final Shut-In	2798	Q Sampler	×	A	
F) Second Final Flo G) Final Shut-In H) Final Hydrostatic	2798	Q Sampler Q Straddle	ø	Ruined Shale P	75
F) Second Final Flo G) Final Shut-In H) Final Hydrostatic nitlal Open	2798	Sampler     Straddle     Straddle     Shale Packer		Ruined Shale P Ruined Packer	75
F) Second Final Flo G) Final Shut-In H) Final Hydrostatic nitial Open nitial Shut-In	1967 2798 10	Sampler     Straddle     Straddle     Shale Packer     Extra Packer		Ruined Shale P Ruined Packer Extra Copies	75
F) Second Final Flo G) Final Shut-In H) Final Hydrostatic nitial Open nitial Shut-In Final Flow	1967	Sampler     Straddle     Straddle     Shale Packer     Extra Packer     Extra Recorder     Day Standby		Ruined Shale P Ruined Packer Extra Copies	75 /acker
F) Second Final Flo G) Final Shut-In H) Final Hydrostatic nitial Open nitial Shut-In	1967	Sampler     Straddle     Straddle     Shale Packer     Extra Packer     Extra Packer     Extra Recorder	يم مر C	Ruined Shale P         Ruined Packer         Extra Copies         Sub Total       -175         Total       2275	75 /acker

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

RILOBITE ESTING INC. 1515 Commerce Pa

**Gas Volume Report** 

1515 Commerce Parkway · Hays, Kansas 67601

	Have	s oild	Gas	H	ACK	1-5		3	
	GTS	Operator		1.		Well Nan	ne and No.	DST N	0.
Min.	Ins. of Water PSIG	Orifice Size	CF/D		Min.	Ins. of Water PSIG	Orifice Size	CF/D	
10	44,17	.25	54.284		10	51,04	3750	222.613	
					20	55,19	* <i>N</i> 11	236,731	
					30	5469	ss IJ	235.030	
					40	53.q	N 4	232.342	\$
					50	53.08	χ <i>ν η</i>	229553	
		-		1	(,Q	5256	w 7)	.227.784	
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	star and a second	2		1					
	di la				100				
	100			18					-

Remarks:

FILOBITE ESTING INC. 1515 Commerce Parkway	Hays, Kansas 67601	Test Ticket No. 69515
Well Name & No. <u>HUCK</u> 1-5 Company <u>Hayes Oil + 6</u> Address <u>Po Box 108 AH</u> Co. Rep / Geo. <u>Tim Hed Cin</u> Location: Sec. <u>5</u> Twp <u>325</u>		nche_state_KS_
Interval Tested5690-570	D Zone Tested Upper V	ola
Anchor Length	Drill Pipe Run	Mud Wt
Top Packer Depth	Drill Collars Run	
Bottom Packer Depth 5640	_ Wt. Pipe Run	WL
Total Depth5 (00		System LCM
TAVILI	ob in 6 minutes; built +	6 46.15
	B in 12 minutes, built	Koil %water 10%mud
Rec 128 Feet of GCM	1Q %gas	%oil %water 90 %mud
Rec Feet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Feet of	%gas	%oil %water %mud
Rec Total 246 BHT 133	Gravity NC API RW N/C@	F Chloridesppm
(A) Initial Hydrostatic2753	Test 2150	T-On Location5
(B) First Initial Flow 97	Jars 300	T-Started 02:59
(C) First Final Flow	Safety Joint	T-Open 06:07
(D) Initial Shut-In 1892	Circ Sub	T-Pulled
(E) Second Initial Flow	Hourly Standby	T-Out 15.19
(F) Second Final Flow	Mileage (120) 180	Comments
(G) Final Shut-In 1750	Sampler	
(H) Final Hydrostatic 2738	C Straddle	EM Tool -175
	Shale Packer	Ruined Shale Packer
Initial Open 30	C Extra Packer	
Initial Shut-In45	Extra Recorder	
Final Flow95	Day Standby	
Final Shut-In	Accessibility	Total 2455
	Sub Total 2630	MP/DST Disc't
Approved By	Our Representative	

Trilobite Testing Inc. shall not be liable ky 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.



250 sx	Total Sacks:	XS (	Total Sacks: 250	LATOT	<b>30AT</b> 8	
sidd 4.62	Total Slurry:	sidd a	Total Slurry: 92.6		sldd 8.74	Displacement:
	:ssabx3		Excess:		31	Tool Depth:
sldd O	Sinular Volume:	sidd (	Sunular Volume:		14. 17	Tool / Packer:
3)	Depth:	33	Depth:	and the second se	192 #	PLUG Depth:
.11 \ edd	Annular Bbis / Ft.:	bbs / ft.	tinular Bbis / Ft.:	7	uj	nənid / eniduT
xs   <sup>5</sup> H 0S.F	:bloiY	xs / <sub>s</sub> u s	Yield: 2.08		¥ 19.967	casing Depth:
xs   lsg 2.3	water / Sx:	xs / lsg	Water / Sx: 1916W	#77	ui 8/9 8	szis gnisso
844 8.21	:#height:	6dd g	Weight: 12,5		854 #	Hole Depth:
CLASS A CEMENT	:puəla	LITE	-H :brail		12 1/4 IV	sezis eloH
lisT - YrullS bett	Silcula Calcula	pe	Calculated Slurry - Lea		noitemrot	nl slonnwod
SURFACE PIPE	:eoivie2	M81-898-9	:8-T-S		11	rqəA bləi¶
8\53\5055	:efsG	COMANCHE, KS.	:/junog		:0	
MP 3261	текер	HUCK 1-5	:IIəW	SAS, LLC	ANA JIO SAYAH	Customer:
		·····································		TSIC	ATMENT REPO	ABAT TNBMB:

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sic	539 PI	iag 005	mqd 7.4	179-621	1	NO.	CLILI	Pump Operator:	
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		AAMMUS		0     200.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0     5.0 <th></th> <th></th>					
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	· · · · · · · · · · · · · · · · · · ·					93.4	150.0	0.8	MATE:0
and the second second			@ 12.3 PPG	darren er	9'26	9'26	200.0	0.8	MAar:e
							200.0	0.2	MA21:0
	CLASING ON BOTTOM - HOOKU UP AND BREAK CIRC. WITH RIG PUMP AND MUD								MA00:0
					•				mmmm
		a and a second							mamm
	-			RUN 19 JTS. 8 5/8" X 24#					MAB1:8
	Parties in the second			ON LOCATION- SPOT EQUIP	-				MA05:3
	S OSZ	Total Sacks:	XS OSZ	I OTAL SACKS:	STBB	ST88	ISd	ЭТАЯ	IWE

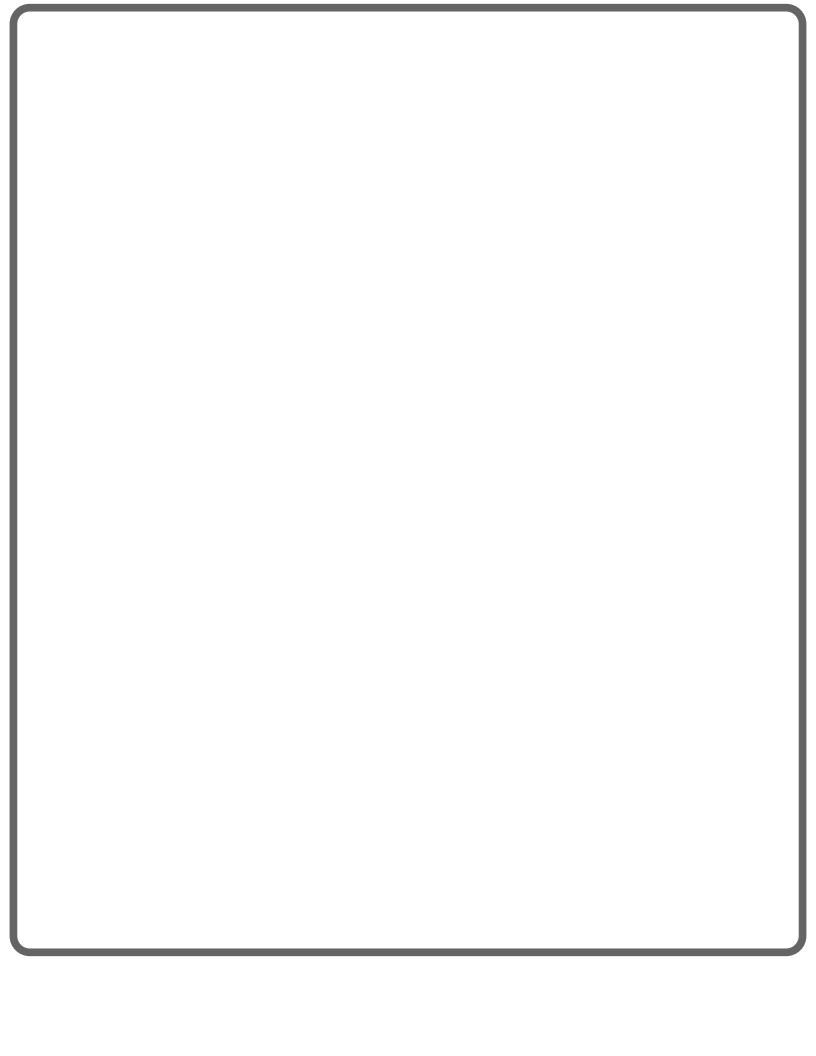
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ido dun	Contraction in the	A CIII			129/6/1	mqd £.8	1sd 888	sidd 288
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-		1		-				
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	0.9	230.0	20.0	1				
	0.9	200.0	0.01		wowsondow smo			
MA 35:0				11 	start displacement			
					e seuil brie grind Asew	ford an assault		
					cement in and shut dow			
MA 25:0	9.6	0.002	0.84	2.09	mix 180 sacks H- Long			
	5.5	200.0	12.21	7.21	mix 50 sacks scavenge			
MA OF:0					start cement down hole	1		
MA 88:6		-	12.7	7.21	plug rat hole 30 sacks	ng mouse 20 sacks		The second se
MA 84:8				-	bns mottod no gnisso	culate		
MA ar:s			1	•	start casing in the grou	p		
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M9 05:0					spot trucks and rig up	8		
M9 21:0			•		tes bus do[ notscol no	Â		and in the maximum way way to be a state of the second second second second second second second second second
ЭМП	ЭТАЯ	ISd	SI88	1ATOT 2188 s	Total Sacks: REMARKS -	xs 081	real Sacks:	xs 001
ander			STAGE	WHON	Total Slurry:	sidd 7.74	Total Sluny:	sldd 4.82
	:triant: Depth:				:sseox=		:ssaoxg	
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C. Aneri	CHINER.		11 & Ga		:lləW	Huck 1.	тіскен	MD 3323





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

Well Name: HUCK 1-5 Well Id: Location: Sec 5 T32S, R18W, Commanche County, Kansas License Number: 15-033-21794 Spud Date: August 22nd, 2022 Surface Coordinates: NW -SW - NE Bottom Hole

Coordinates: Ground Elevation (ft): 2154' K.B. Elevation (ft): 2166' Logged Interval (ft): 3400' To: 5925' Total Depth (ft): 5925' Formation: Lansing, Marmaton, Miss. Type of Drilling Fluid: Natural Chemical Printed by WellSight LogViewer from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

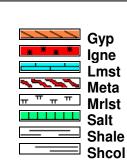
Company: Hayes Oil & Gas LLC Address: 1081 W. HWY 160 PO Box 108 Attica , Kansas 67009 GEO: John Hastings

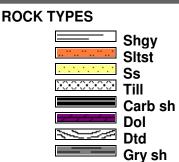
## GEOLOGIST

Name: Tim Hedrick Company: Earth Tech OGL, Inc. Address: PO Box 683 Hooker, Okla 73945 580-754-0062

DST's Report

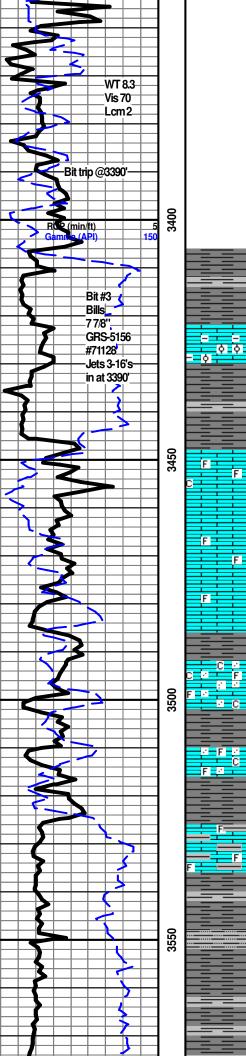
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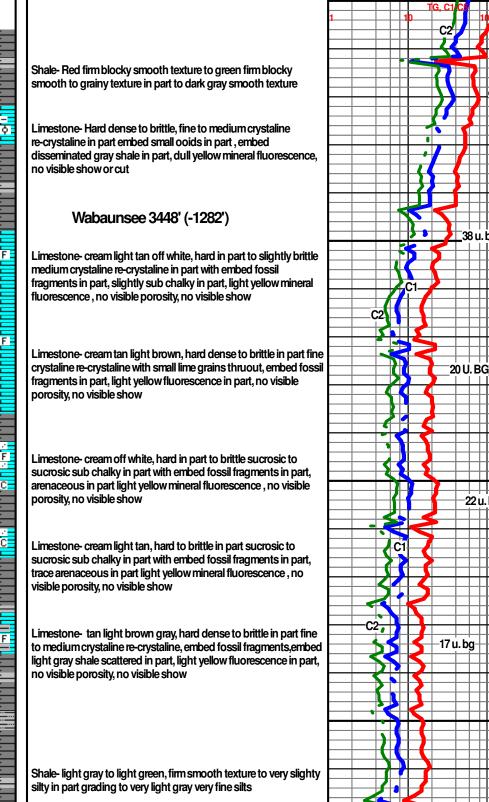
			ACCESSORIES		
MINERAL         ∅       Anhy         ☑       Arggrn         ☑       Arg         ☑       Bent         ☑       Bit         ☑       Brecfrag         ☑       Calc         ☑       Carb         ☑       Chtdk         ☑       Chtlt         ☑       Dol         ➡       Ferrpel         ☑       Ferr         ☑       Glau         ☑       Gyp         ☑       Hvymin         ☑       Marl         ☑       Nodule         ●       Phos         P       Pyr	SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	ulphur uff hlorite ol and Ity	FFossilImage: GastroImage: OoliteImage: Oolt	Clystn Dol Grysh Gryslt Lms Sandylms Sh Sltstn TEXTURE S Boundst C Chalky C Cryxln E Earthy F Finexln S Grainst Lithogr Microxln Mudst S Packst S Wackest	
			OTHER SYMBOLS		
POROSITY TYPEEEarthy□FenestFFracture⊠Inter☑Moldic□OrganicPPinpoint☑Vuggy	™ M ₽ P ROUN ℝ R Ŀ S	/ell Ioderate oor	<ul> <li>Angular</li> <li>OIL SHOWS</li> <li>● Even</li> <li>● Spotted</li> <li>○ Ques</li> <li>● Dead</li> <li>⊠ Gas show</li> </ul>	INTERVALS ■ Core □ Dst ■ Dst EVENTS ▷ Rft ▶ Sidewall	
Curve Track 1 ROP (min/ft) Gamma (API)	Lithology	Oil Shows	Geological Descriptions	TG, C1-C5TG (units)C1 (units)C2 (units)C3 (units)C4 (units)C5 (units)	
BOP (min/ti) 5 Bit #2 Smith 77/8'' MI-616 #70930 Jets 3-16's in at 824'	3350 33	G	OSSIL DRILLING RIG 1 ale Thompson Pusher CO : Justin Whiting/ Brad Bortz	1 10 100 1 100	



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Trip Gas

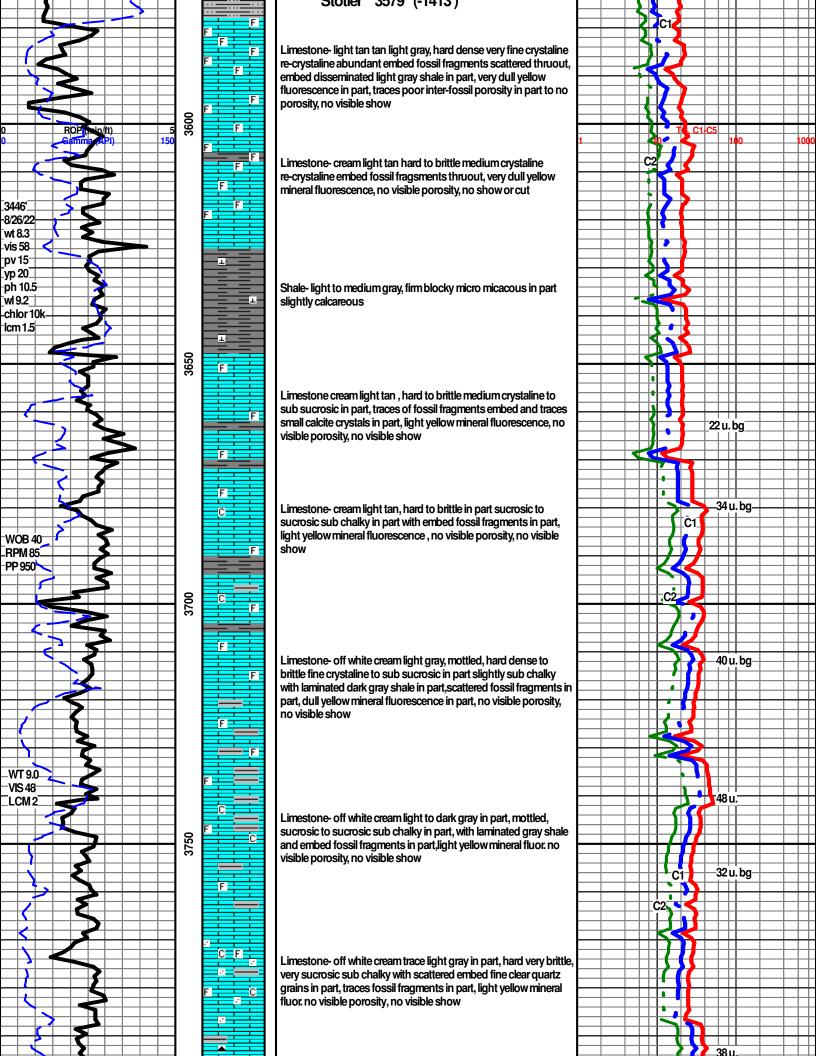
90 u. bg-

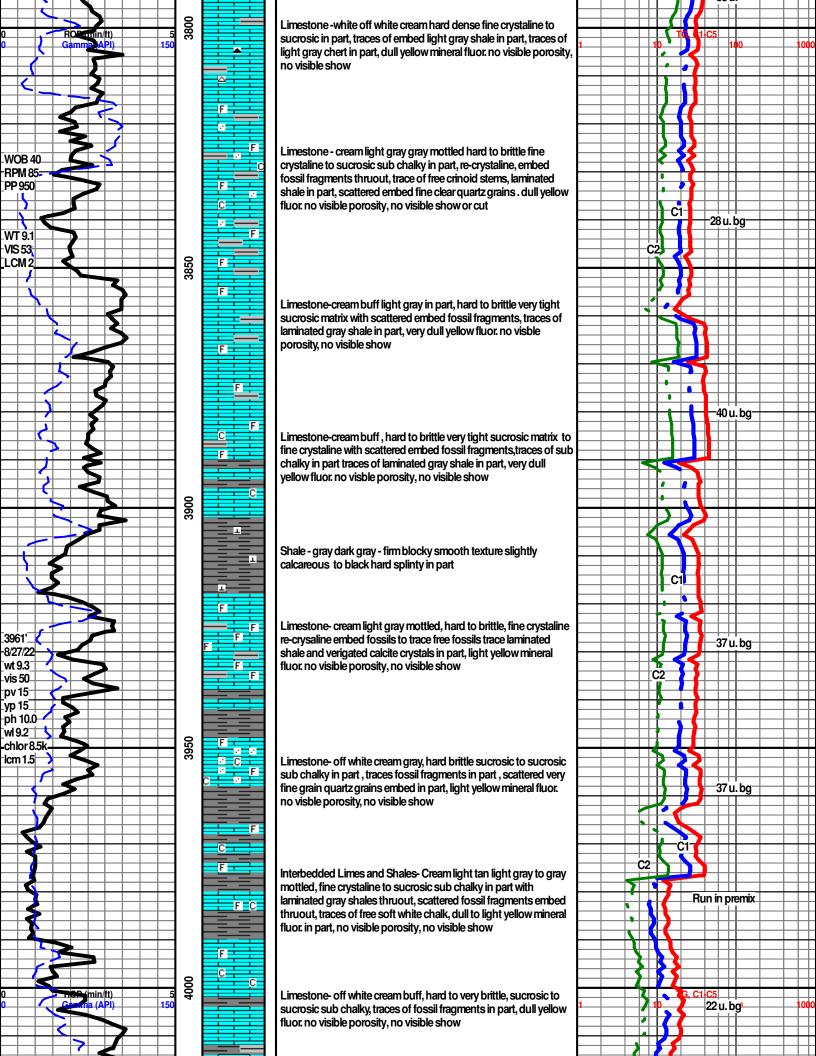
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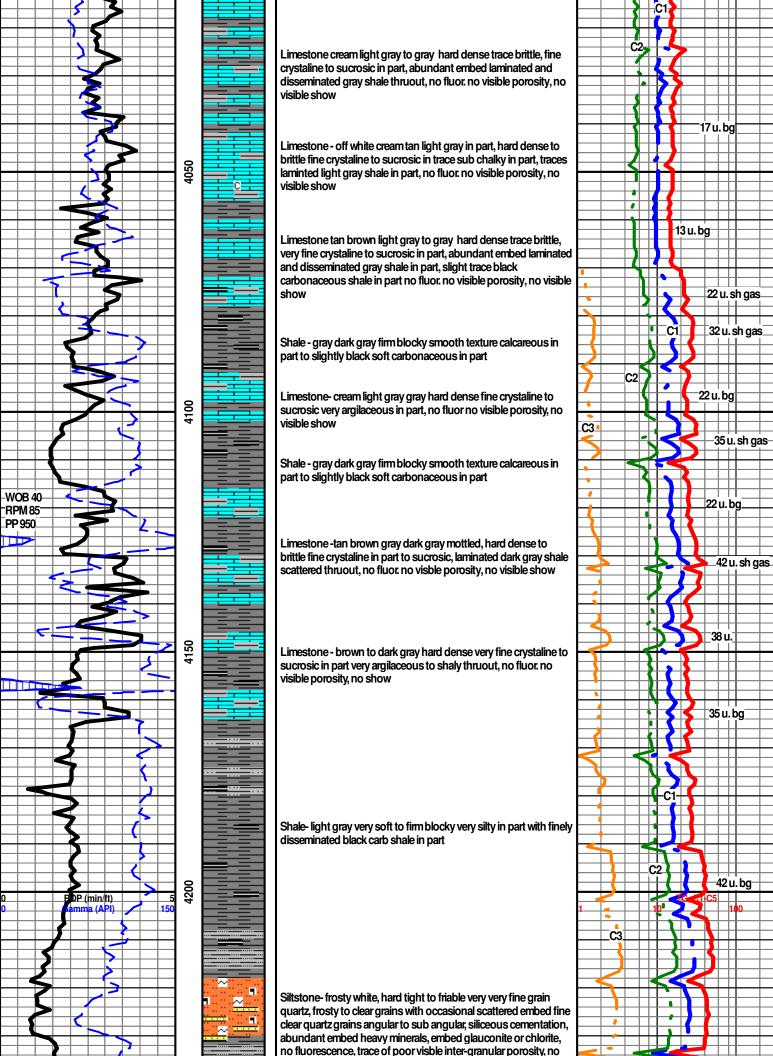
22 u. bg

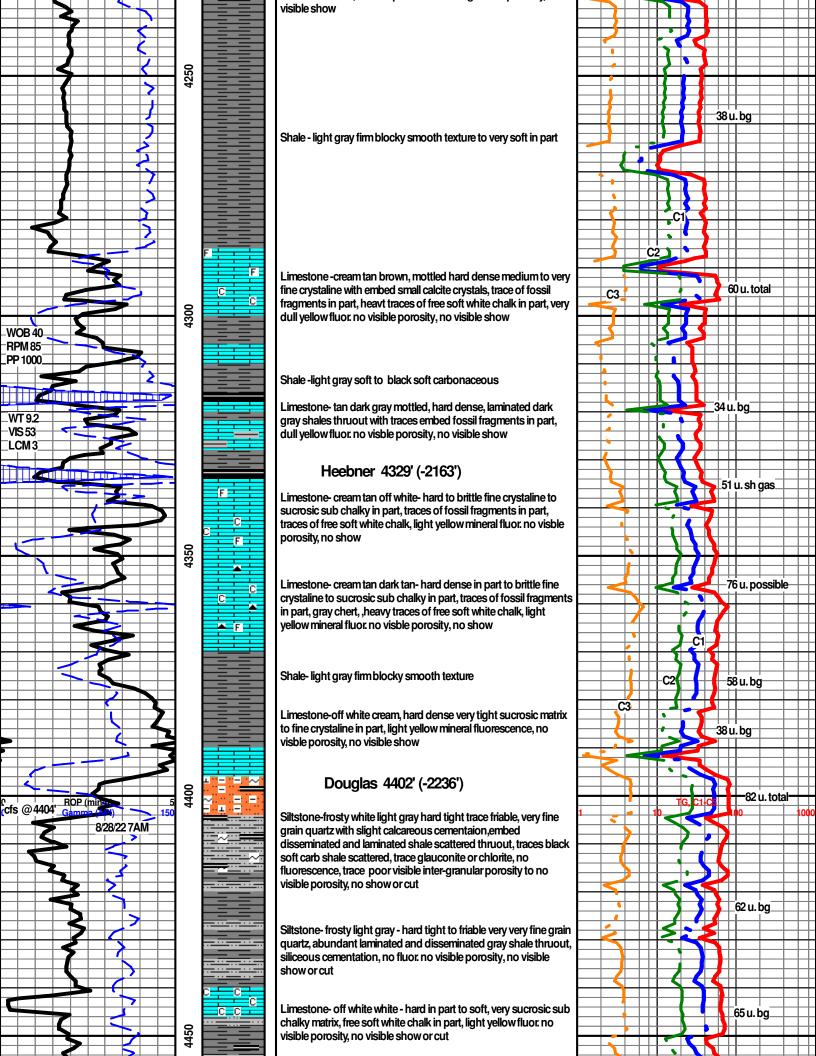
20 u. bg

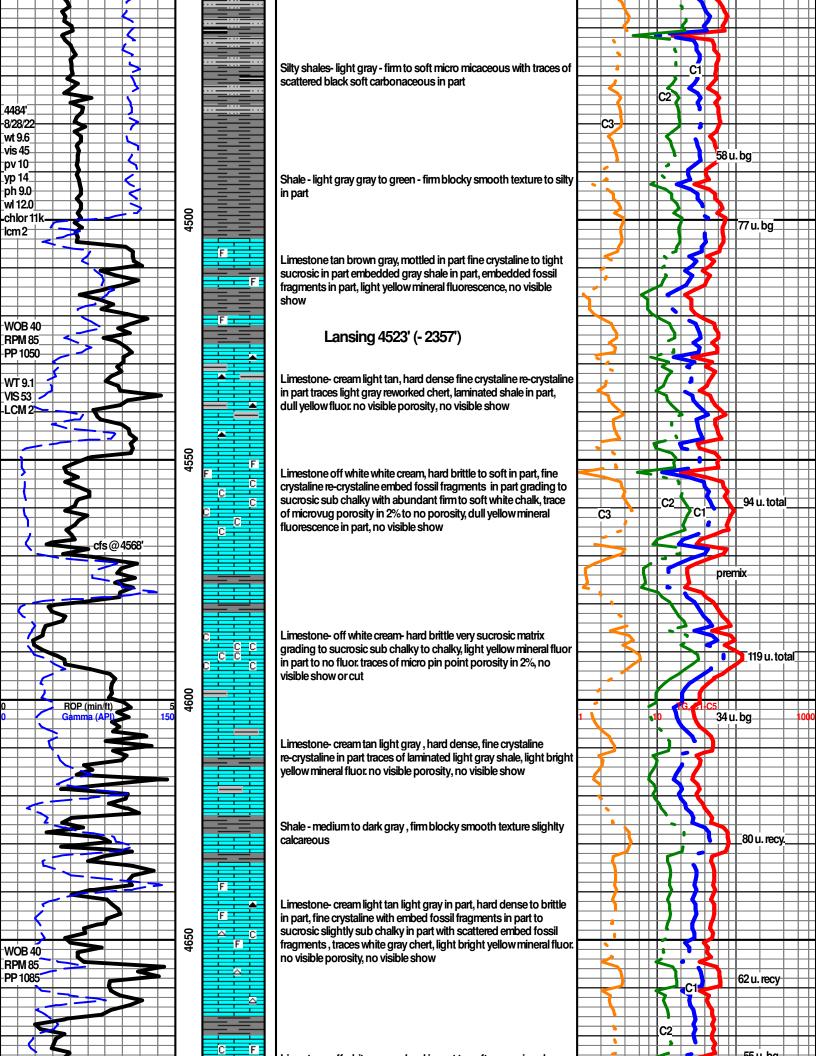
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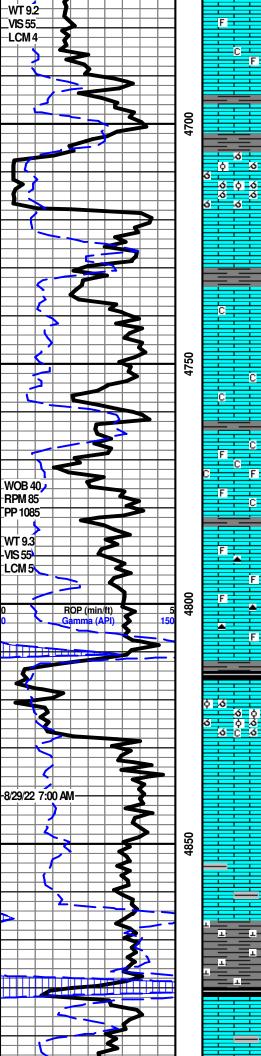












Limestone off white cream - hard in part to soft, sucrosic sub chalky matrix with scattered embed fossil fragments, traces of embed shale, light yellow mineral fluor. no visible porosity, no visble show or cut

Limestone - cream light tan, hard dense, crypto to very fine crystaline with traces of laminated gray shale in part, light yellow mineral fluor. no visible porosity, no visble show

Limestone- cream light tan, hard to brittle medium crystaline, re-crystaline matrix, very oolmold to very oolitic, fossil fragments thruout, light bright yellow mineral fluor. very good to excellent oolmold to inter-crystaline porosity traces of free soft white chalk in part, thruout, no visible show or cut

Limestone- cream light tan , hard dense in part to trace brittle, medium crystaline re-crystaline embed calcite crystals, traces of free soft white chalk in part, dull yellow mineral fluor. poor to fair inter-crystaline porosity in 10%, no visble show or cut

Limestone cream light tan, hard to brittle, fine crystaline to sucrosic sub chalky, dull to light yellow mineral fluor. no visible porosity, no visble show or cut

Limestone- off white cream hard to soft, very sucrosic sub chalky matrix, embed fossil fragments thruout, light yellow mineral fluor. no visible porosity, no visible show

Limestone cream light tan to tan, hard dense trace brittle fine crystaline re-crystaline in part with embed fossil fragments, tan brown chert in part, dull yellow fluorescence, no visible porosity, no visble show

## Stark Shale 4806' (-2640')

Shale - black soft carbonaceous

Limestone- cream off white tan hard to brittle medium crystaline to sucrosic in part re-crystaline, very oolmoldic thruout, embed oolites in part fossil fragments in part, traces of soft white chalk, dull to light yellow mineral fluorescence, poor fair to good oolmoldic porosity to fair scattered microvug porosity, no visible show or cut

Limestone -cream tan light brown , hard dense to traces brittle fine crystaline to crypto-crystaline, traces light gray shale embed in part, fairly non descript, dull yellow fluor. no visible porosity, no visible show or cut

Shale- Light gray to dark gray firm blocky smooth texture very calcareous in part grading to black soft carbonaceous

Limestone - cream light tan light gray, hard dense crypto to very fine crystaline traces of light gray shale in part, dull yellow mineral fluor. no visible porosity, no visible show or cut

