KOLAR Document ID: 1520200

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	SecTwpS. R East _ West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	·
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD ☐ Gas ☐ DH ☐ EOR	Producing Formation: Kelly Bushing: Elevation: Ground: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	If yes, show depth set: Feet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from:
Operator:	•
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to EOR Conv. to SWD Plug Back Liner Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R EastWest
Spud Date or Date Reached TD Completion Date or Recompletion Date	County: Permit #:

AFFIDAVIT

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

Submitted Electronically

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

KOLAR Document ID: 1520200

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	rpS	S. R	Eas	st West	County:					
	l, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests (Attach Addit)		Yes No		Lo		n (Top), Depth a		Sample
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No						
			Rep	CASING	RECORD [Nev		on, etc.		
Purpose of St	Purpose of String Size Hole Drilled			Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		<u>'</u>	
Purpose: Perforate		Depth Top Bottom	Тур	pe of Cement	# Sacks Use	ed Type and Percent Additives				
Protect Ca										
Plug Off Z										
Did you perform Does the volume Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Produ Injection:	ction/Injectio	n or Resumed P	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>		
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			DN INTERVAL: Bottom
Vented		Used on Lease		Open Hole		Dually (Submit A		nmingled nit ACO-4)	Тор	BOLLOTTI
,	ed, Submit AC							·		
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)	
TUBING RECORI	D: S	Size:	Set A	: -	Packer At:					

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	MARESCH UNIT 1
Doc ID	1520200

All Electric Logs Run

Dual Induction
Sonic
Neutron
Micro

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	MARESCH UNIT 1
Doc ID	1520200

Tops

Name	Тор	Datum
HEEBNER SHALE	3750	-1470
LANSING (LKC)	3798	-1518
ВКС	4098	-1818
MARMATON	4110	-1830
PAWNEE LIMESTONE	4175	-1895
CONG. SAND/CHERT	4346	-2066
MISSISSIPPIAN	4352	-2072
VIOLA	4502	-2222
ARBUCKLE	4632	-2352
LTD	4671	-2391

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	MARESCH UNIT 1
Doc ID	1520200

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	1049	60/40 Poz	3% gel/2% cc
Production	7.875	5.5	15.5	4390	AA2	3% gel/2% cc

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

Phone 785-483-1071 Cell 785-324-1041

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

No. 1906

	Sec.	Twp.	Range	0	County	State	On Location	Finish				
Date / 3-/5-/9	32	19	19	KV	3h	K3		300				
				Locat	ion Kish Cei	1+0- 7w 180	75 X RO /W	Sinto				
Lease Miresch	Uni	+	Well No. 1-3	2	Owner							
Contractor DISCEVES	1#4					ilwell Cementing, In		nt and furnish				
Type Job Surface			i production	U2 (194	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size 12/4	T.D.	451		Charge 5	helby Keloo	rees						
Csg. 95/9	csg. 959 Depth 1449											
Tbg. Size		Depth		MANAGEMENT OF THE STREET	City		State					
Tool		Depth			The above wa	as done to satisfaction	and superyision of owne	r agent or contractor.				
Cement Left in Csg. 4	2.35	Shoe J	oint 4235		Cement Amo	ount Ordered	560/403/10	21/6/2				
Meas Line	in in the same of	Displac	e 391/2	BL			YOU WULLOO BRANK	14# PO				
and the most of a solid was	EQUIPM	ENT	count if there is t	40,200	Common 3	15	o equaded no ohur da	The state of the s				
Pumptrk / No. Ceme	7			Poz. Mix	10							
Bulktrk 15 No. Driver		1			Gel. 9	rad nom retens de						
Bulktrk 3 No. Drive	حدال البيخان عسطال ومي سدست	al -		29,3144	Calcium /	7						
JOB SE	RVICES	& REMA	RKS	eno e	Hulls							
Remarks:					Salt							
Rat Hole				off and	Flowseal /30 #							
Mouse Hole					Kol-Seal							
Centralizers			AGT. A VO NE.	and rig	Mud CLR 48							
Baskets					CFL-117 or CD110 CAF 38							
D/V or Port Collar		4	and the second s		Sand							
8 5/R on botton	1 55	Circ	vlation		Handling 55/							
MIX 525 5K		+ Di	Splace Phy.		Mileage							
Best 1406.	45				FLOAT EQUIPMENT 85/8 HAM							
Cernent (in	wlut	407			Guide Shee Rubber Plus							
	establishes supplication of the supplication o	profit. 10	r succitioned wi		Centralizer	3						
			speciel 1 Careta		-Backets	emposite Buly	Po Plate					
		1. 7			AFU Inserts	@WWW.D •						
		127			Float Shoe							
	TI are) al tipe de la		1.711.5	Latch Down			artice theres				
					Pumptrk Cha	arge Lowg St	whoce					
The second secon			100 (0.07) (0.07)	27 1000 3000	Mileage 3 4							
		* ;					Tax					
	a.	to some				u projekta na postavani. Se osefickia na projekt	Discount					
X Signature Salu Do	alle-	Table Gel	Burker Y TILLAU (D.	Yo are		still market	Total Charge					



QUALITY OILWELL CEMENTING, INC.

PO BOX 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665 PHONE:785-324-1041 FAX:785-483-1087

EMAIL: cementing@ruraltel.net

Date: 1/14/2020 Invoice # 1877

P.O.#:

Due Date: 2/13/2020 Division: Russell

Taxable

Yes

Νo

Invoice

Contact: SHELBY RESOURCES Address/Job Location:

P.O. BOX 1213 HAYS KS 67601

Reference:

MARESCH UNIT 1-32 SEC 32-19-19

Description of Work:

PROD STRING

Services / Items Included:	Quantity	Price	Taxable	ltem .	Quantity		Price	7
Labor		\$ 684.02	No	POZ Mix-Standard	20 "		\$107.33	
Common-Class A	230	\$ 3,632.47	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	34		\$91.23	
Gilsonite	1000	\$ 1,150.00	Yes					
5 1/2" Triplex Shoe	1	\$ 1,027.33	Yes					
Mud Clear	500	\$ 559.67	Yes					
5 1/2" Turbolizer	5	\$ 276.00	Yes					
5 1/2" Basket	1	\$ 214.67	Yes					
Latch Down Plug & Baffle, 5 1/2"	1	\$ 203.93	Yes					
Bulk Truck Matl-Material Service Charge	267	\$ 204.70	No	,				
Salt (Fine)	17	\$ 170.74	Yes	•				
Pump Truck Mileage-Job to Nearest Camp	34	\$ 117.30	No					
Invoice Terms:					SubTotal:	\$	8,439.39)
Net 30		Discou	ınt Ava	ilable <u>ONLY</u> if Invoice is Paid 8 within listed terms		\$	(210.98	3)
				SúbTotal for T	axable Items:	\$	7,158.58	3
				SubTotal for Non-T	axable Items:	\$	1,069.82	2
					Total:	\$	8,228.41	
			6.50%	Rush County Sales Tax	Tax:	\$	465.31	
Thank You For Your Business!	!			An	ount Due:	\$	8,693.72	·
				Applied	Payments:			
				Ва	lance Due:	\$ (8,693.72	

Past Due Invoices are subject to a service charge (annual rate of 24%) This does not include any applicable taxes unless it is listed. ©2008-2013 Straker Investments, LLC. All rights reserved.

ACCT. 9208 PROP.____

JAN 20 REC'D

CHRIS GOTTSCHALL

APPROVED

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Cell 785-324-1041 Home Office P.O. Box 32 Russell, KS 67665

No. 1877

Date 1-14-20 30	Twp. Range	Rus	County	State	On Location	4. COO AM
		Location	2 Rush	Costos	71.17 18	NRJ 75
Lease Maresch W	No. Well No.	-32	Owner T	× Qd II.	SHOTO	5001
Contractor Discound #		301	To Quality Oi	ilwell Cementing, Inc.) CTALLO	
				by requested to rent of d helper to assist own		
Hole Size	TD 4764		Charge <	12-16 20	3 1	, work do notod.
	T.D. 4763 Depth 4390.5	(0)	To C	mer by m	Commen	
	Depth 7570.3	,0	Street		01-1-	
Tbg. Size Tool	Depth		The above we	a dono to cotiofoction or	State Id supervision of super	accept or acestroptor
Cement Left in Csg. 42.60	//)	40)		ount Ordered 50		200 Sx Cox
	Shoe Joint 42, Displace 103 1/2	RIS		7 23/0 C'1/22		CC 2X COM
EQUIPM			Common 2		nj te	
Pumptrk No. Cementer Helper			Poz. Mix 2			
No. Driver	10r		Gel.			
Bulktik O. Wo. Driver R.			Calcium			
JOB SERVICES	& REMARKS		Hulls			
Remarks:			Salt /7	*		
Rat Hole 36 SX			Flowseal		•	
Mouse Hole 20 5X			Kol-Seal /	ino #		
Centralizers 2.46.8.1	O	er i reig	Mud CLR 48	500 gal		
Baskets 2		The second secon		CD110 CAF 38		
D/V or Port Collar pipe on	battam bre	ak	Sand			
Circologian Dar	20 500 and	Mud		47		
	Rothule +m	MAN	Mileage			
hale . Hook to 5	58" Casin			FLOAT EQUIPMI	ENT	
	0/40 150 SX		Guide Shee	Topolex =	ch-10	
John 10°W Salt 5%		Jul.	Centralizer	5		
down wash pur	7.	130	Baskets			
Dliver w/ 103 1/2 Bi	5 K701	7	AFU Inserts			
Roleasod	1012		Float Shoe			
19F7 Dressure &	\$00#		Latch Down			
Land oline to 10	500 #					
30+ Triples 8	OD =1					
			Pumptrk Cha	arge Oreel S	Fring	
			Mileage ?	4		
					Tax	
		: . V.			Discount	
X Signature					Total Charge	



Shelby Resources LLC

32-19s-19w

Tester:

Unit No:

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood

Maresch Unit #1

CO 80401+3248

Job Ticket: 65716 DST#: 1

Benny Mulligan

ATTN: Jeremy Scw artz

Test Start: 2020.01.09 @ 13:50:00

GENERAL INFORMATION:

Formation: Paw nee

Deviated: No Test Type: Conventional Bottom Hole (Initial) Whipstock: ft (KB)

Time Tool Opened: 16:02:10 Time Test Ended: 21:05:39

Interval:

4194.00 ft (KB) To 4244.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 4244.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

2280.00 ft (KB)

2273.00 ft (CF)

Serial #: 6772 Inside

Press@RunDepth: 4195.00 ft (KB) Capacity: 24.35 psig @ 8000.00 psig

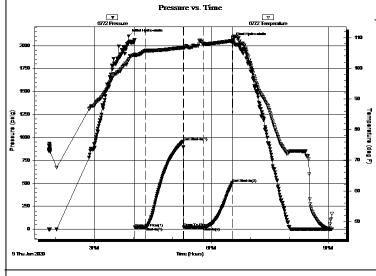
Start Date: 2020.01.09 End Date: 2020.01.09 Last Calib.: 2020.01.09 Start Time: 13:50:01 End Time: 21:05:40 Time On Btm: 2020.01.09 @ 15:53:00 Time Off Btm: 2020.01.09 @ 18:33:09

TEST COMMENT: IF-15- w eak surface blow

ISI-60- no blow back

FF-30- w as dead w hen opened

FSI-45- no blow back



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2102.15	102.83	Initial Hydro-static
10	20.82	104.06	Open To Flow (1)
26	23.03	105.75	Shut-In(1)
84	957.14	106.70	End Shut-In(1)
85	21.95	106.56	Open To Flow (2)
115	24.35	108.05	Shut-In(2)
160	505.70	108.97	End Shut-In(2)
161	2061.54	109.93	Final Hydro-static

PRESSURE SUMMARY

Recovery

Description	Volume (bbl)
Mud 100% M	0.03
	·

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

Trilobite Testing, Inc. Ref. No: 65716 Printed: 2020.01.09 @ 21:40:47



Shelby Resources LLC

32-19s-19w

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood

Maresch Unit #1

CO 80401+3248

Job Ticket: 65716 DST#: 1

ATTN: Jeremy Scw artz

Test Start: 2020.01.09 @ 13:50:00

GENERAL INFORMATION:

Formation: Paw nee

Deviated: Test Type: Conventional Bottom Hole (Initial) No Whipstock: ft (KB)

Time Tool Opened: 16:02:10 Time Test Ended: 21:05:39 Tester: Benny Mulligan

Unit No:

2280.00 ft (KB)

4194.00 ft (KB) To 4244.00 ft (KB) (TVD)

Reference Elevations:

2273.00 ft (CF)

Total Depth: 4244.00 ft (KB) (TVD)

KB to GR/CF:

7.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 6769 Outside

Press@RunDepth: 4195.00 ft (KB) psig @

Capacity: Last Calib.: 8000.00 psig

Start Date: 2020.01.09 End Date: 2020.01.09 21:05:40

Time On Btm:

2020.01.09

Start Time:

Interval:

13:50:01

End Time:

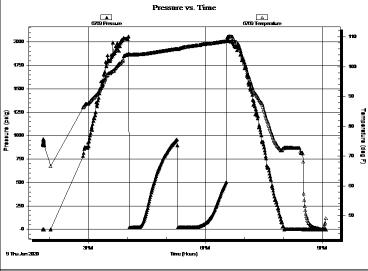
Time Off Btm:

TEST COMMENT: IF-15- w eak surface blow

ISI-60- no blow back

FF-30- w as dead w hen opened

FSI-45- no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100% M	0.03

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 65716 Printed: 2020.01.09 @ 21:40:47



TOOL DIAGRAM

2500.00 lb

Shelby Resources LLC

32-19s-19w

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood

Maresch Unit #1

CO 80401+3248

Job Ticket: 65716 **DST#:1**

ATTN: Jeremy Scw artz

Test Start: 2020.01.09 @ 13:50:00

Tool Information

Drill Pipe: Length: 4173.00 ft Diameter: 3.80 inches Volume: 58.54 bbl Tool Weight: 0.00 inches Volume: 0.00 bbl Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Total Volume: 58.54 bbl

Weight set on Packer: 25000.00 lb
Weight to Pull Loose: 70000.00 lb
Tool Chased 0.00 ft

Drill Pipe Above KB: 10.00 ft
Depth to Top Packer: 4194.00 ft
Depth to Bottom Packer: ft

String Weight: Initial 55000.00 lb Final 55000.00 lb

Interval between Packers: 50.00 ft
Tool Length: 81.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4164.00		
Shut In Tool	5.00			4169.00		
Hydraulic tool	5.00			4174.00		
Jars	5.00			4179.00		
E.M. tool	4.00			4183.00		
Safety Joint	2.00			4185.00		
Packer	5.00			4190.00	31.00	Bottom Of Top Packer
Packer	4.00			4194.00		
Stubb	1.00			4195.00		
Recorder	0.00	6772	Inside	4195.00		
Recorder	0.00	6769	Outside	4195.00		
Perforations	10.00			4205.00		
Change Over Sub	1.00			4206.00		
Drill Pipe	32.00			4238.00		
Change Over Sub	1.00			4239.00		
Perforations	1.00			4240.00		
Bullnose	4.00			4244.00	50.00	Bottom Packers & Anchor

Total Tool Length: 81.00

Trilobite Testing, Inc Ref. No: 65716 Printed: 2020.01.09 @ 21:40:47



FLUID SUMMARY

Shelby Resources LLC

32-19s-19w

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood

Maresch Unit #1

DST#: 1

CO 80401+3248

Job Ticket: 65716

Serial #:

ATTN: Jeremy Scw artz

Test Start: 2020.01.09 @ 13:50:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 54.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5700.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100% M	0.028

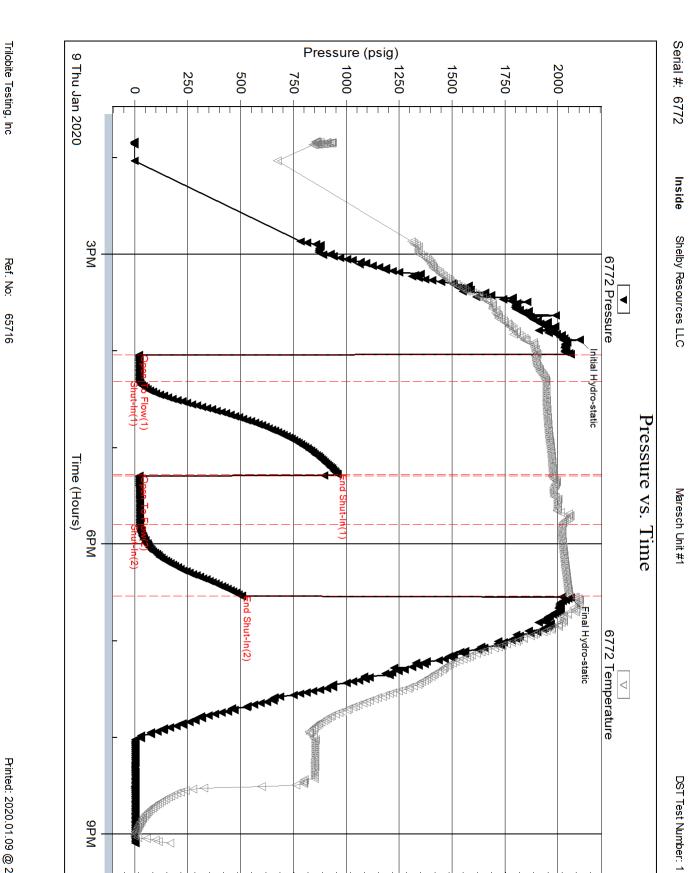
Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

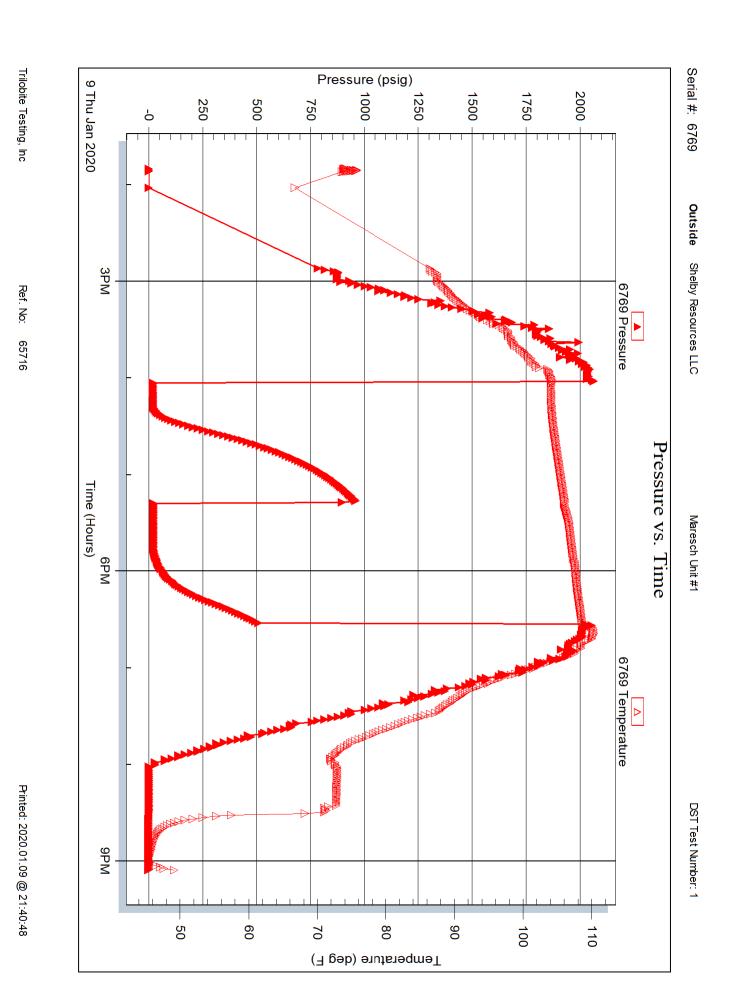
Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 65716 Printed: 2020.01.09 @ 21:40:47



Temperature (deg F)





Shelby Resources LLC

32-19s-19w

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood

lab Tiakat: 65717

CO 80401+3248

ATTN: Jeremy Scw artz

Job Ticket: 65717 **DST#: 2**

Test Start: 2020.01.10 @ 04:53:00

Maresch Unit #1

GENERAL INFORMATION:

Formation: Cherokee

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: Tester: Benny Mulligan

Time Test Ended: 10:48:00 Unit No: 6

Interval: 4246.00 ft (KB) To 4265.00 ft (KB) (TVD) Reference Elevations: 2280.00 ft (KB)

Total Depth: 4265.00 ft (KB) (TVD) 2273.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

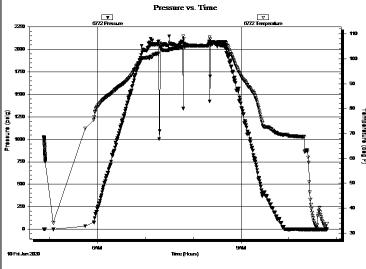
Serial #: 6772

 $\label{eq:press} \text{Press} @ \text{RunDepth:} \qquad \qquad \text{psig} \ \ @ \qquad \qquad \text{ft (KB)} \qquad \qquad \text{Capacity:} \qquad \qquad 8000.00 \ \text{ psig}$

Start Date: 2020.01.10 End Date: 2020.01.10 Last Calib.: 2020.01.10

Start Time: 04:53:01 End Time: 10:48:00 Time On Btm: Time Off Btm:

TEST COMMENT: Miss Run



	PRESSURE SUMMARY				
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	
Temp					
Temperature (deg F)					
J					

Recovery

Length (ft)	Description	Volume (bbl)
840.00	Mud	11.78

Gas Nai	.65	
Choke (inches)	Pressure (psig.)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 65717 Printed: 2020.01.10 @ 11:55:41



Shelby Resources LLC

ATTN: Jeremy Scw artz

32-19s-19w

13949 W. Colfax AVE Bldg 1 ste 120 Lakewood

CO 80401+3248

Maresch Unit #1

Job Ticket: 65717

Test Start: 2020.01.10 @ 04:53:00

Benny Mulligan

DST#: 2

GENERAL INFORMATION:

Formation: Cherokee

Test Type: Conventional Bottom Hole (Initial) Deviated: Whipstock: ft (KB) No

Time Tool Opened:

Time Test Ended: 10:48:00

4265.00 ft (KB) (TVD)

Interval: 4246.00 ft (KB) To 4265.00 ft (KB) (TVD) Reference Elevations:

2280.00 ft (KB) 2273.00 ft (CF)

Tester:

Unit No:

Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 6769

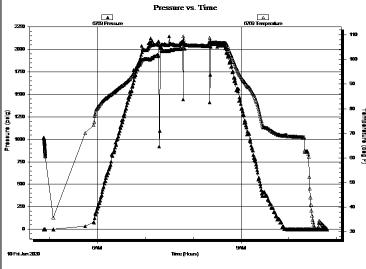
Total Depth:

Press@RunDepth: ft (KB) Capacity: 8000.00 psig psig @

Start Date: 2020.01.10 End Date: 2020.01.10 Last Calib.: 2020.01.10

Start Time: 04:53:01 End Time: 10:48:00 Time On Btm: Time Off Btm:

TEST COMMENT: Miss Run



PRESSURE SUMMARY				
Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
	Time (Min.)	Time Pressure	Time Pressure Temp	

Recovery

Description	Volume (bbl)
Mud	11.78
	·

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

Ref. No: 65717 Printed: 2020.01.10 @ 11:55:42 Trilobite Testing, Inc.



FLUID SUMMARY

Shelby Resources LLC

32-19s-19w

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood

Maresch Unit #1

Serial #:

CO 80401+3248

Job Ticket: 65717 **DST#: 2**

ATTN: Jeremy Scw artz

Test Start: 2020.01.10 @ 04:53:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 54.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5700.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
840.00	Mud	11.783

Total Length: 840.00 ft Total Volume: 11.783 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 65717 Printed: 2020.01.10 @ 11:55:42

30

50

40

60

80

90

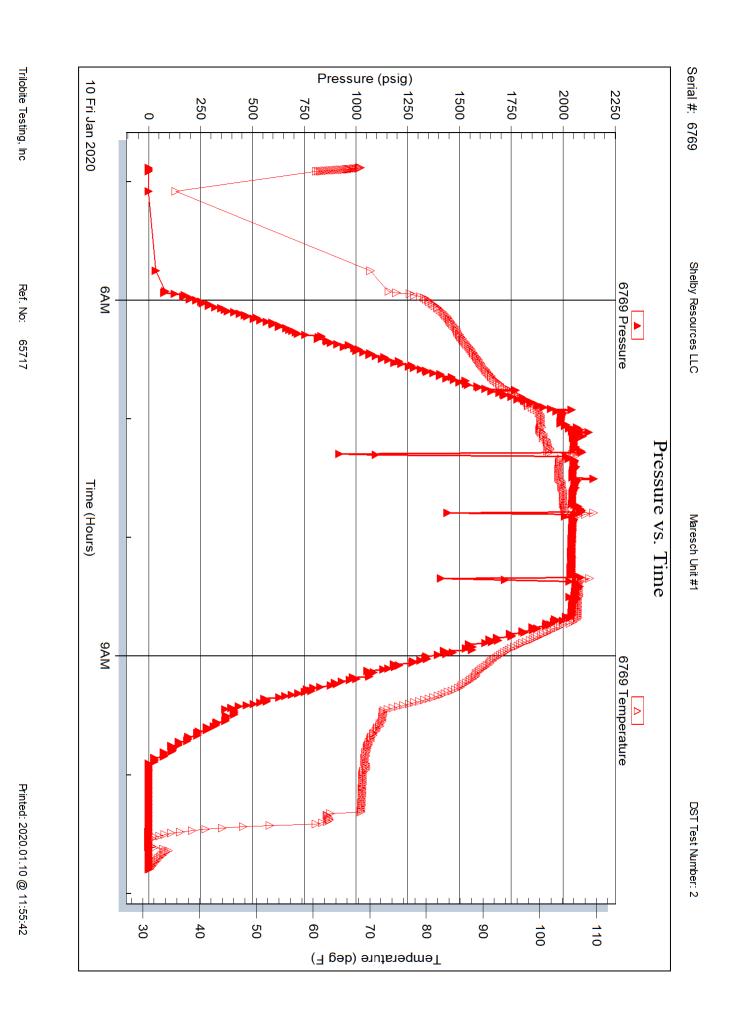
70

Temperature (deg F)

110

100

Trilobite Testing, Inc





Shelby Resources LLC

32-19s-19w

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood

CO 80401+3248

Maresch Unit #1

Reference Elevations:

Job Ticket: 65718

Tester:

DST#: 3

2280.00 ft (KB)

2273.00 ft (CF)

ATTN: Jeremy Scw artz

Test Start: 2020.01.10 @ 16:12:00

Benny Mulligan

GENERAL INFORMATION:

Formation: Cherokee

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) No ft (KB)

Time Tool Opened: 18:55:10 Time Test Ended: 00:20:30

Interval:

Unit No:

Total Depth: 4265.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF:

7.00 ft

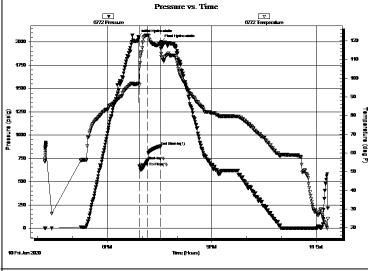
Serial #: 6772 Inside

Press@RunDepth: 4202.00 ft (KB) Capacity: 725.13 psig @ 8000.00 psig

Start Date: 2020.01.10 End Date: 2020.01.11 Last Calib.: 2020.01.11 Start Time: 16:12:01 End Time: Time On Btm: 00:20:30 2020.01.10 @ 18:53:20 Time Off Btm: 2020.01.10 @ 19:32:50

TEST COMMENT: IF-15-BOB 30 secs total build of 180" ISI-20- no blow back

4201.00 ft (KB) To 4265.00 ft (KB) (TVD)



		PI	RESSUR	RE SUMMARY
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2055.95	97.30	Initial Hydro-static
	2	663.70	96.34	Open To Flow (1)
	17	725.13	122.96	Shut-ln(1)
	39	880.92	118.48	End Shut-In(1)
	40	2001.74	112.93	Final Hydro-static
,				
9				

DDECCLIDE CLIMANADY

Recovery

Length (ft)	Description	Volume (bbl)
315.00	GOCM 10%G 20%O 70%M	4.42
1260.00	GHOCM 10%G 40%O 50%M	17.67
63.00	M.W 80%W 20%M	0.88

Gas Nai	.65	
Choke (inches)	Pressure (psig.)	Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 65718 Printed: 2020.01.11 @ 02:32:23



Shelby Resources LLC

32-19s-19w

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood

CO 80401+3248

Job Ticket: 65718

Maresch Unit #1

DST#: 3

ATTN: Jeremy Scw artz Test Start: 2020.01.10 @ 16:12:00

GENERAL INFORMATION:

Formation: Cherokee

Test Type: Conventional Bottom Hole (Initial) Deviated: Whipstock: ft (KB) No

Time Tool Opened: 18:55:10 Tester: Benny Mulligan

Time Test Ended: 00:20:30 Unit No:

Interval: 4201.00 ft (KB) To 4265.00 ft (KB) (TVD) Reference Elevations: 2280.00 ft (KB)

Total Depth: 4265.00 ft (KB) (TVD) 2273.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 6769 Outside

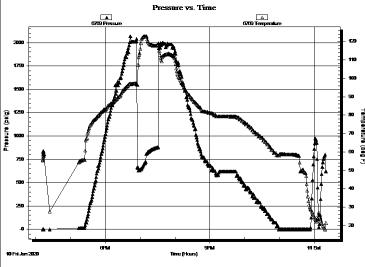
Press@RunDepth: 4202.00 ft (KB) Capacity: 8000.00 psig psig @

Start Date: 2020.01.10 End Date: 2020.01.11 Last Calib.: 2020.01.11

Start Time: 16:12:01 End Time: 00:20:30 Time On Btm: Time Off Btm:

TEST COMMENT: IF-15-BOB 30 secs total build of 180"

ISI-20- no blow back



Pl	RESSUR	RE SU	JMMAR	Ϋ́

			(LCCC)	L OOMINIATE
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
3				
Temperature (deg F)				
6				
Ĵ				
		l l		i

Recovery

Length (ft)	Description	Volume (bbl)
315.00	GOCM 10%G 20%O 70%M	4.42
1260.00	GHOCM 10%G 40%O 50%M	17.67
63.00	M.W 80%W 20%M	0.88

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Printed: 2020.01.11 @ 02:32:23 Trilobite Testing, Inc. Ref. No: 65718



FLUID SUMMARY

Shelby Resources LLC

32-19s-19w

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood CO 80401+3248

Maresch Unit #1

Job Ticket: 65718

DST#: 3

ATTN: Jeremy Scw artz

Test Start: 2020.01.10 @ 16:12:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 49.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5700.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	GOCM 10%G 20%O 70%M	4.419
1260.00	GHOCM 10%G 40%O 50%M	17.674
63.00	M.W 80%W 20%M	0.884

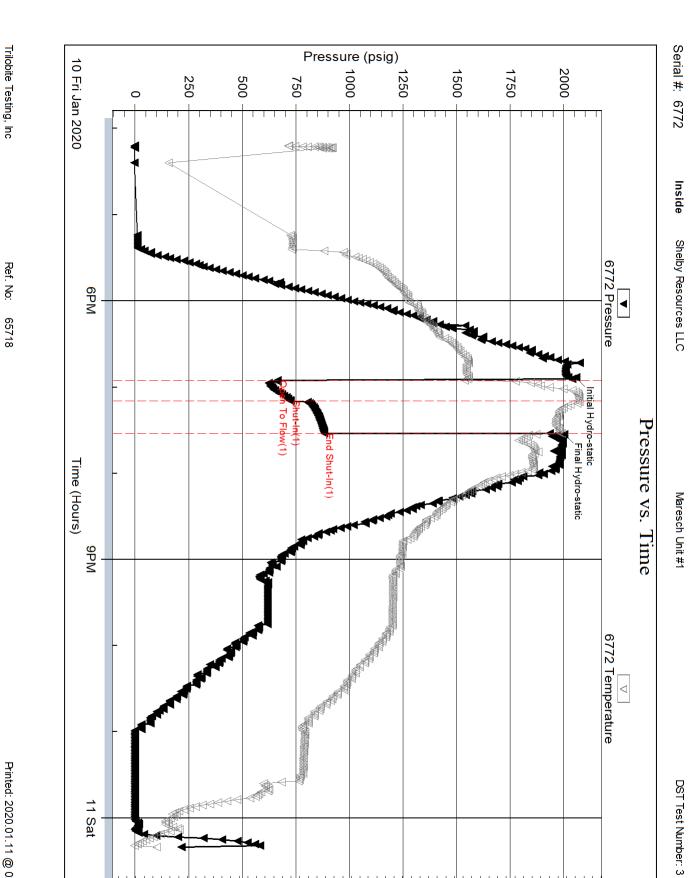
Total Length: 1638.00 ft Total Volume: 22.977 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

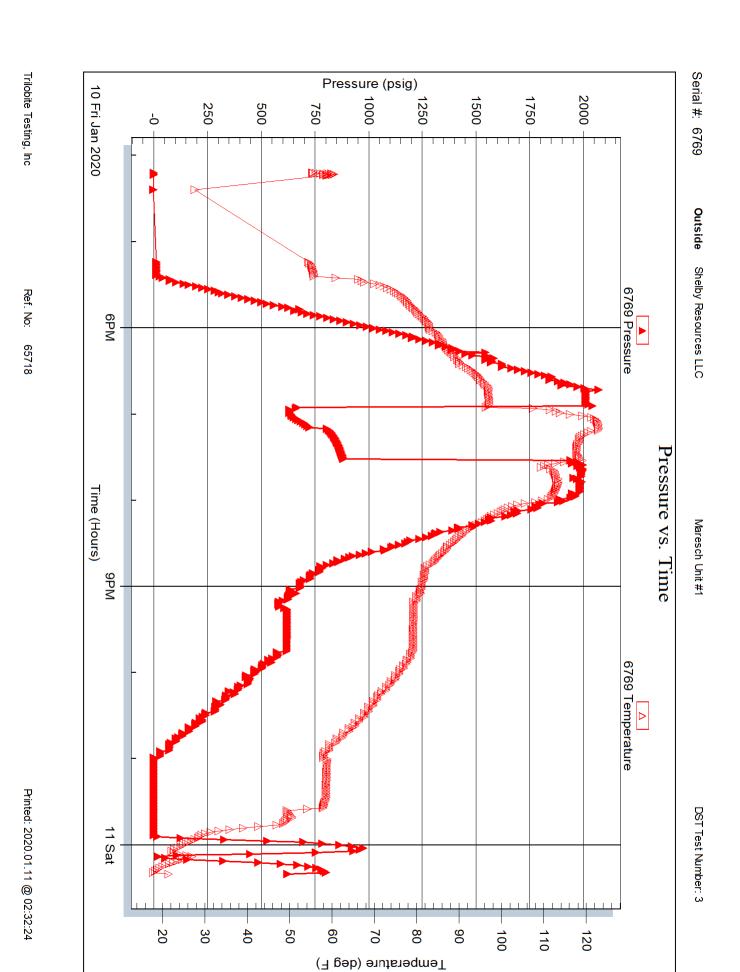
Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 65718 Printed: 2020.01.11 @ 02:32:24



Temperature (deg F)





Scale 1:240 Imperial

Well Name: Maresch Unit #1

Surface Location: 1255' FNL _60' FWL, Sec. 32-T19s-R19w

Bottom Location:

API: 15-165-22171-00-00

License Number: 31725

Spud Date: 12/13/2019 1:25 PM Time:

Region: Rush

Drilling Completed: 1/13/2020 Time: 6:25 AM

Surface Coordinates:

Bottom Hole Coordinates:

Ground Elevation: 2271.00ft K.B. Elevation: 2280.00ft

Logged Interval: 3600.00ft 4764.00ft To:

Total Depth: 4764.00ft

Formation: Pawnee/Cherokee Sands Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Shelby Resources, LLC Company:

13949 W Colfax Ave., Bldg 1, Ste 120 Address:

Lakewood, CO 80401

Contact Geologist: Jeff Zoller / Jeremy Schwartz Contact Phone Nbr: 620-786-0807 / 203-671-6034

> Well Name: Maresch Unit #1

Location: 1255' FNL _60' FWL, Sec. 32-T19s-R19w

API: 15-165-22171-00-00

Pool: Wildcat Field: USA

State: Kansas Country:

LOGGED BY



Company: Mile High Exploration, LLC 14645 Sterling Road Address:

Colorado Springs, CO 80921

Phone Nbr: 203-671-6034

Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC Maresch Unit #1 was drilled to a total depth of 4764', bottoming in the Pre-Cambrian. An iBall Instruments Bloodhound gas detector was employed in the drilling of said well.

Three DST's were conducted during the drilling of this well throughout the Pawnee and Cherokee zones. The DST reports can be found at the bottom of this log. *Note: DST #2 was a misrun and re-tested as DST #3*

Due to positive DST results in the Cherokee, sample shows, gas kicks, and log anlysis it was determined by all parties

furthur review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted, Jeremy Schwartz Geologist

CONTRACTOR

Contractor: Discovery Drilling

Rig #: 4

Rig Type: mud rotary
Spud Date: 12/13/2019 Time: 1:25 PM
TD Date: 1/13/2020 Time: 6:25 AM

Rig Release: Time:

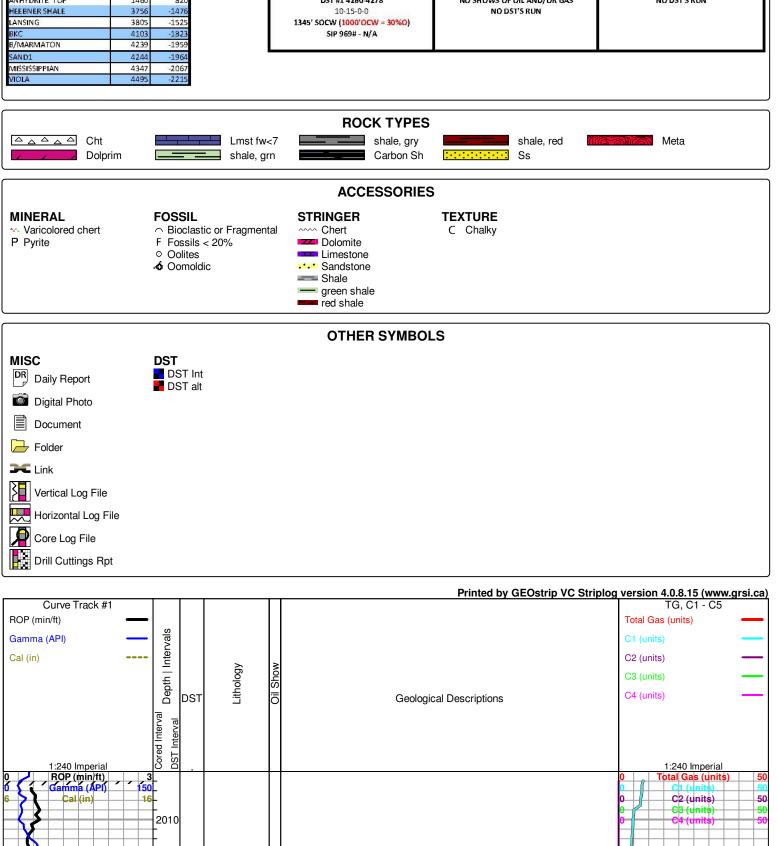
ELEVATIONS

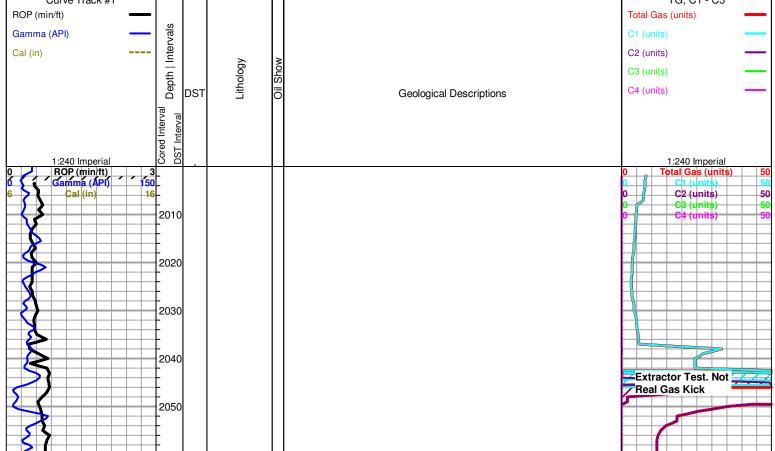
K.B. Elevation: 2280.00ft Ground Elevation: 2271.00ft

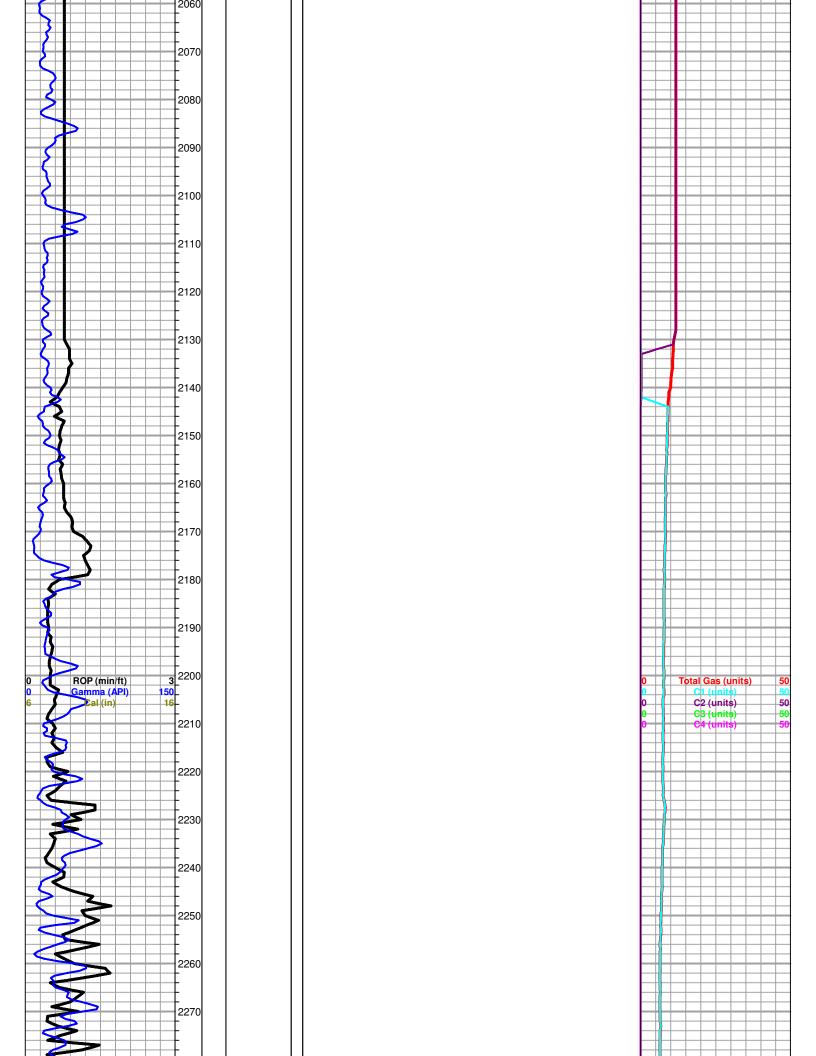
K.B. to Ground: 9.00ft

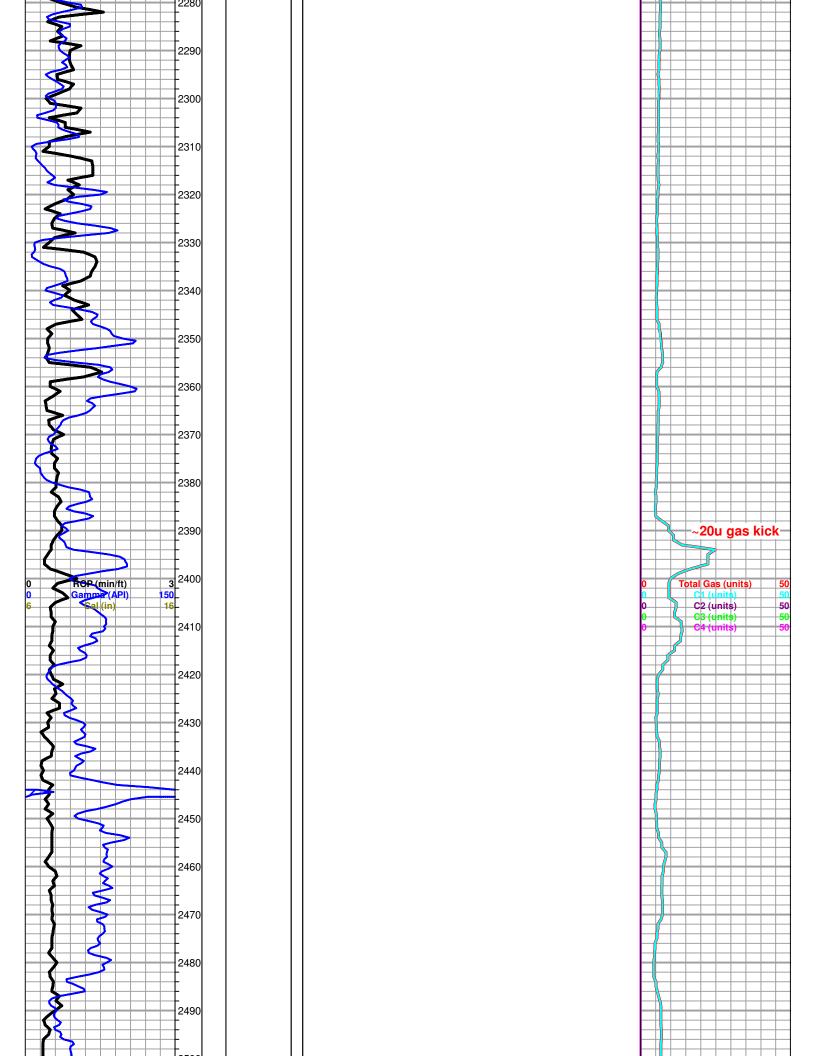
DATE	<u>DEPTH</u>	<u>ACTIVITY</u>
Tuesday, January 07, 2020	3014'	Geologist Jeremy Schwartz on location @~1730hrs, 3014', rig down for repairs as crew swaps
		out mud pump, resume drlg ahead @ 2224hrs, monitoring well from motel room
ednesday, January 08, 2020	3775'	Back out on location @~1510hrs, ~3775', drlg ahead through Douglas Shale, Lansing (LKC),
	4110'	BKC, CFS 1hr @ 4110', drop survey, conditions too windy to safely strap pipe, TOH to
		conduct Bit Trip
Thursday, January 09, 2020	4110'	Successful Bit Trip, resume drlg ahead through Marmaton, Pawnee Limestone, B/Marmaton,
0.00	4244'	CFS @ 4244', strap out of hole in order to conduct DST #1 in the Pawnee
Friday, January 10, 2020	4265'	Successful test, resume drlg, CFS @ 4252', resume drlg, CFS @ 4265', show in sand warrants
**		DST, TOH for DST #2 in the Cherokee Sand, DST #2 tool slid and could not get to bottom,
		Misrun - TOH in order to condition hole, CTCH 1.5hrs, TIH for DST #3
Saturday, January 11, 2020	4272'	DST #3 successful test, resume drlg, CFS @ 4272', show in sand warrants test, short trip
		5 stands, had to ream hole to get back to bottom, due to short anchor and condition of
		hole it was decided to not run DST #4, resume drlg, CFS @ 4280, CFS @ 4300', resume drlg
Sunday, January 12, 2020	4590'	Drig ahead, CFS @ 4572', continue drig ahead through Arbuckle, CFS @ 4613' and TOH to
	46131	conduct Bit Trip due to very poor ROP rates, successful Bit Trip, resume drlg ahead,
Monday, January 13, 2020	4764'	TD of 4764' reached @ 0625hrs, CFS 90 minutes, TOH to conduct logging operations
		Logging operations complete @ 1500hrs
		Geologist Jeremy Schwartz off location @ 1545hrs

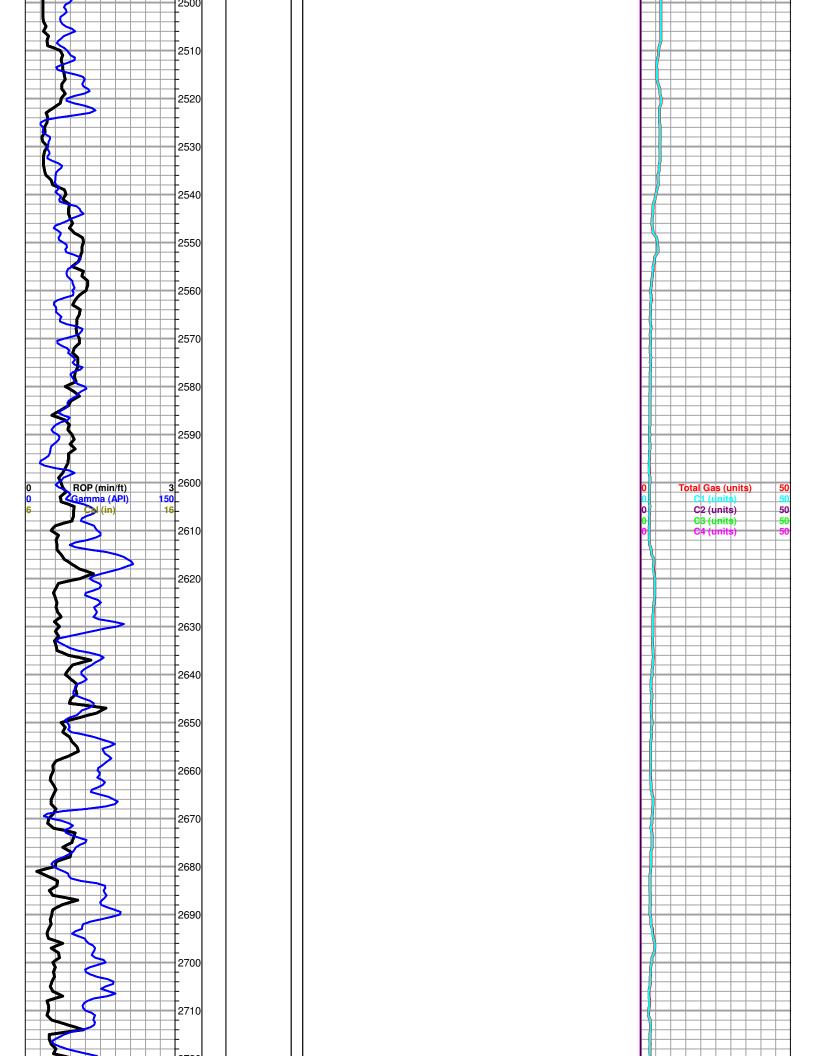
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						D	&A					D	&A						8.A			
						Mustang	Drlg 8	Ехр.				CM	X, Inc					Anador R	esour	ces, Inc		
					-	Mare	sch 1-:	32				Mare	sch 2-3	31				Price Fl	ying U	1-31		
		Maresch	h Unit #1			NW-NW Se	c. 32-1	95-19\	N		N	1/2-SE-NE Se	c. 31-	195-19	9W			NE-SE Sec	. 31-19	95-19W	Ē.	
	КВ		2280		КВ		2:	289			КВ		2:	278			КВ		2	265		
	LOG	TOPS	SAMPL	E TOPS	COME	. CARD	L	OG .	SM	IPL.	COMP	. CARD	L	OG .	SN	IPL.	COM	P. CARD	L	0G	SN	APL.
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	8	RR.	CO	RR.	DEPTH	DATUM	CO	RR.	CC	RR.	DEPTH	DATUM	CC	ORR.	CC	RR.
ANHYDRITE TOP	1448	832			1469	820	+	12			1454	824	+	8			1430	835	-	3		
BASE	1476	804			1494	795	+	9			1482	796	+	8			1460	805	1.00	1		
TOPEKA	3413	-1133	3416	-1136	3436	-1147	+	14	+	11	3423	-1145	+	12	+	9	3400	-1135	+	2		1
HEEBNER SHALE	3750	-1470	3752	-1472	3775	-1486	+	16	+	14	3766	-1488	+	18	+	16	3746	-1481	+	11	+	9
DOUGLAS SHALE	3778	-1498	3781	-1501	3803	-1514	+	16	+	13	3795	-1517			+	16	3772	-1507			+	6
LANSING (LKC)	3798	-1518	3800	-1520	3824	-1535	+	17	+	15	3815	-1537	+	19	+	17	3792	-1527	+	9	+	7
LKC B POROSITY	3822	-1542	3827	-1547	3850	-1561	+	19	+	14							3818	-1553	+	11	+	6
LKC G	3901	-1621	3904	-1624	3923	-1634	+	13	+	10	3922	-1644	+	23	+	20	3889	-1624	+	3	+	0
MUNCIE CREEK	3952	-1672	3956	-1676	3976	-1687	+	15	+	11	3976	-1698	+	26	+	22	3950	-1685	+	13	+	9
LKC H	3959	-1679	3963	-1683	3982	-1693	+	14	+	10	3983	-1705	+	26	+	22	3958	-1693	+	14	+	10
STARK SHALE	4039	-1759	4040	-1760	4062	-1773	+	14	+	13	4063	-1785	+	26	+	25	4034	-1769	+	10	+	9
ВКС	4098	-1818	4103	-1823	4122	-1833	+	15	+	10	4120	-1842	+	24	+	19	4098	-1833	+	15	+	10
MARMATON	4110	-1830	4113	-1833	4133	-1844	+	14	+	11	4133	-1855	+	25	+	22	4107	-1842	+	12	+	9
PAWNEE LIMESTONE	4175	-1895	4180	-1900	4204	-1915	+	20	+	15	4207	-1929	+	34	+	29	4178	-1913	+	18	+	13
B/MARMATON	4233	-1953	4233	-1953	4258	-1969	+	16	+	16	4264	-1986	+	33	+	33	4242	-1977	+	24	+	24
SAND1	NP		NP		4263	-1974					NP						4247	-1982				
SAND2	4254	-1974	4257	-1977	4283	-1994	+	20	+	17	4287	-2009	*	35	+	32	4263	-1998	+	24	+	21
B/CHEROKEE LIME	4264	-1984	4267	-1987	4293	-2004	+	20	+	17	4296	-2018	+	34	+	31	4274	-2009	+	25	+	22
SAND3	4265	-1985	4268	-1988	4294	-2005	+	20	+	17	4297	-2019	+	34	+	31	4275	-2010	+	25	+	22
CONG. SAND/CHERT	4346	-2066			4375	-2086	+	20														
MISSISSIPPIAN	4352	-2072	4350	-2070	4386	-2097	+	25	+	27							4350	-2085	+	13	+	15
VIOLA	4502	-2222																				
ARBUCKLE	4632	-2352													8		0					
PRE-CAMBRAIN	4732	-2452	4731	-2451																		
RTD			4674	-2394	4433	-2144			0.50	250	4350	-2072			7.	322						
LTD	4671	-2391			4437	-2148	14	243			4355	-2077	-	314								
					Î	<u>TE.</u>	<u>STED</u>					<u>TE</u> .	STED					<u>TE</u>	<u>STED</u>			
PROGNO	1460	910				DÉT #1		10 0			200	CHOME OF	20 20		202054		I	222	CTIC D			

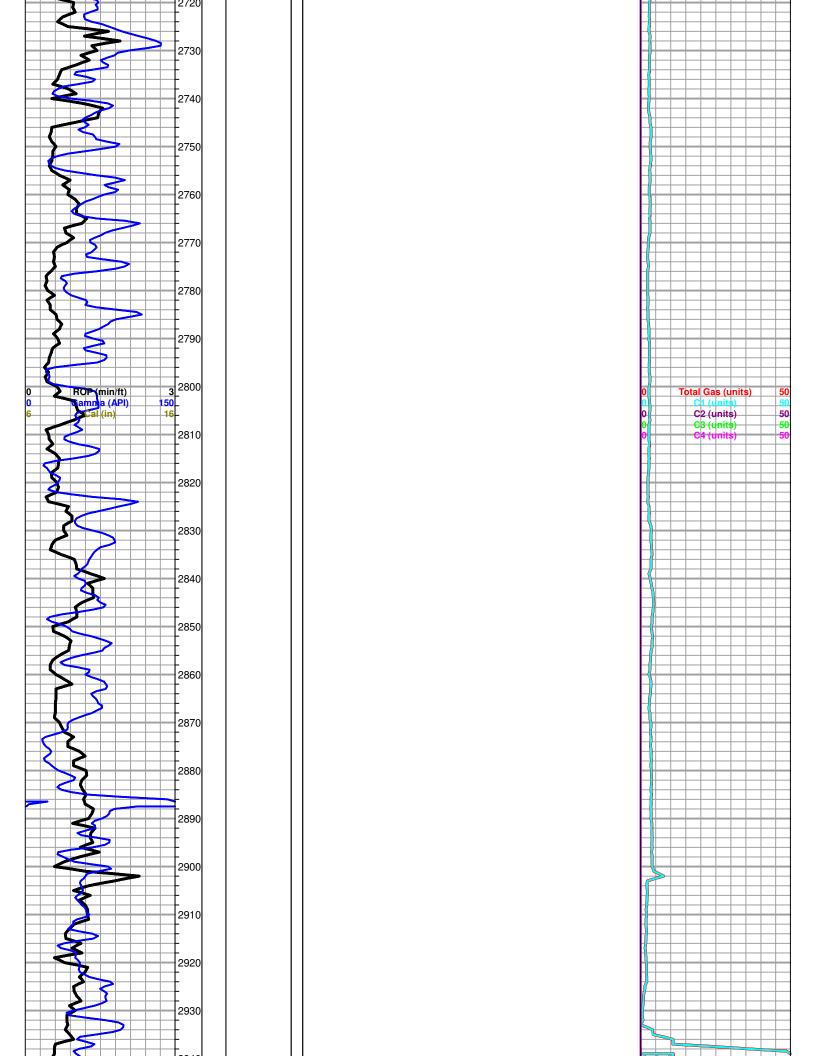


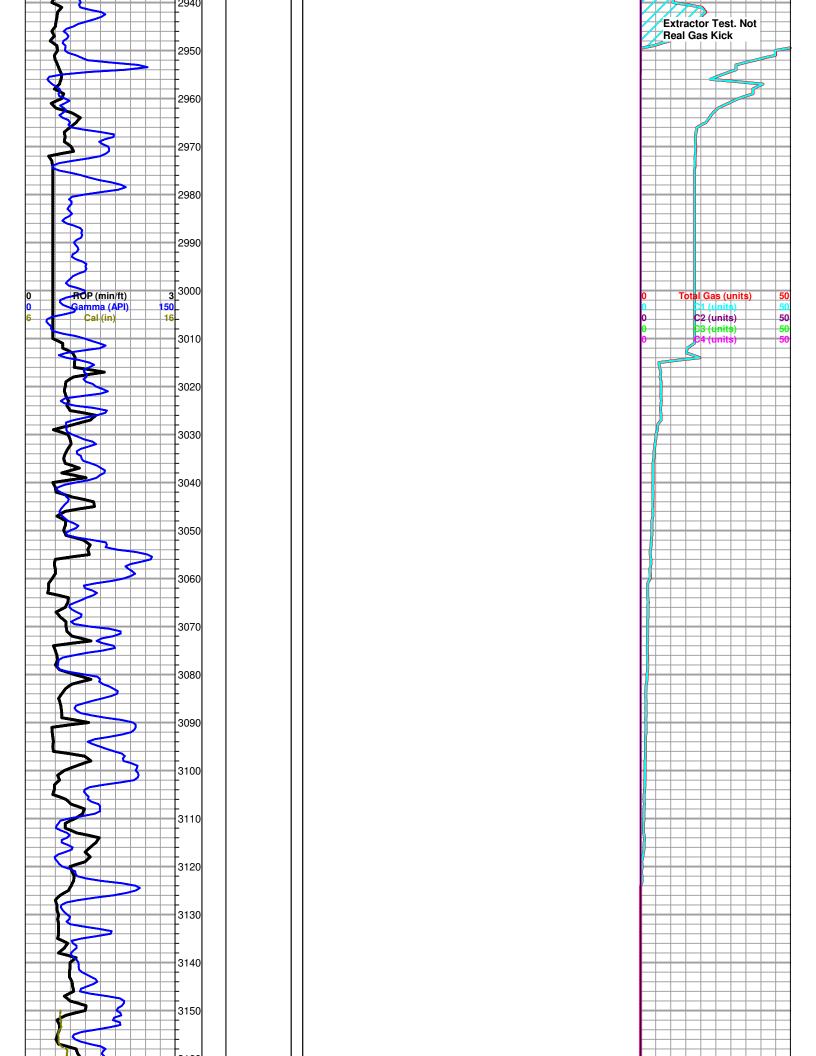


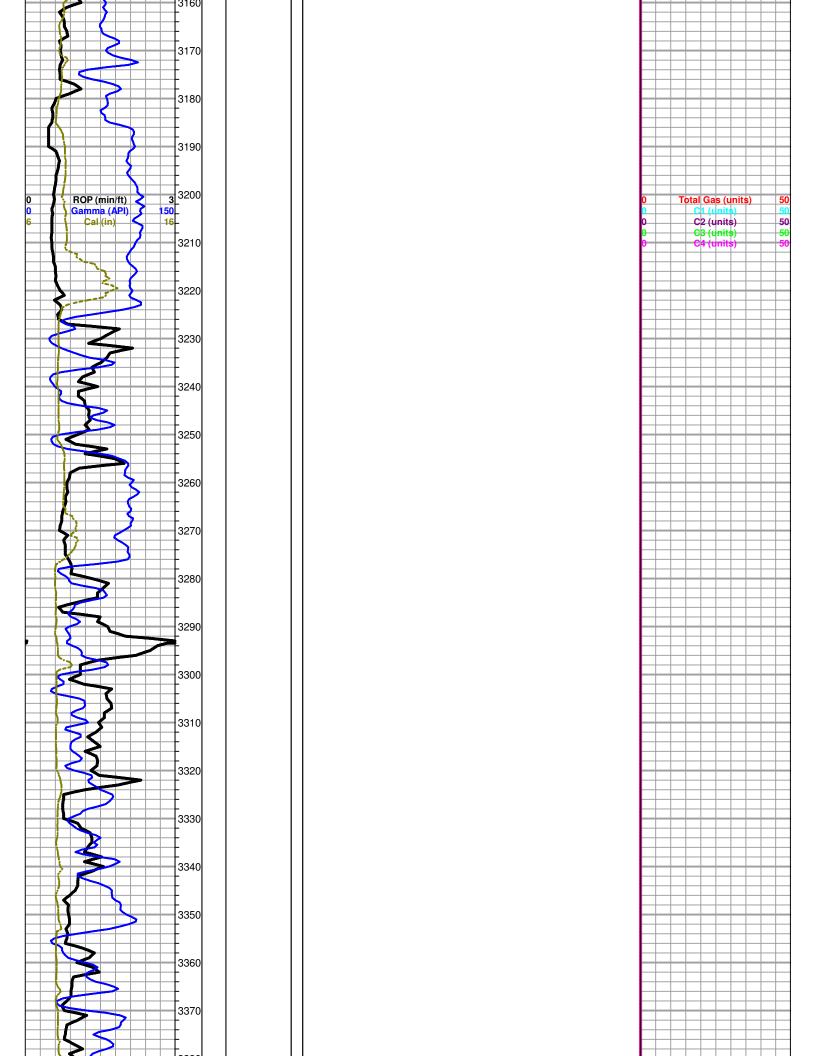


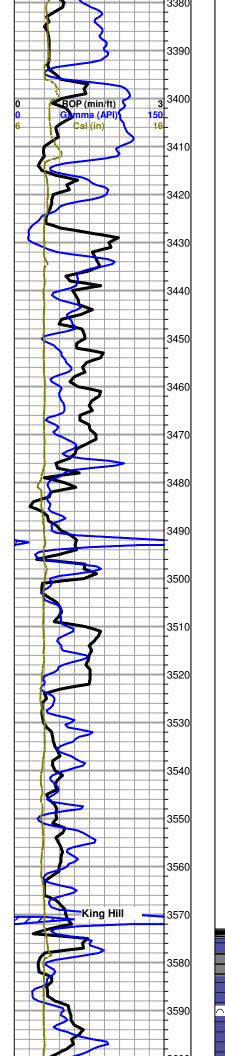










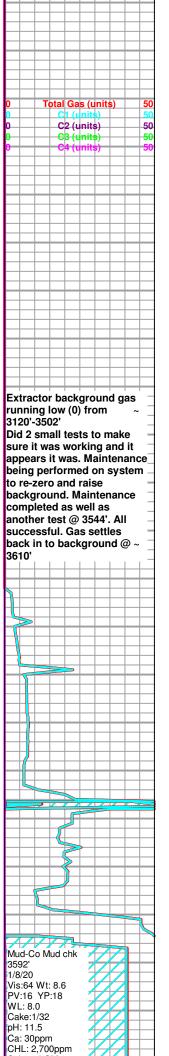


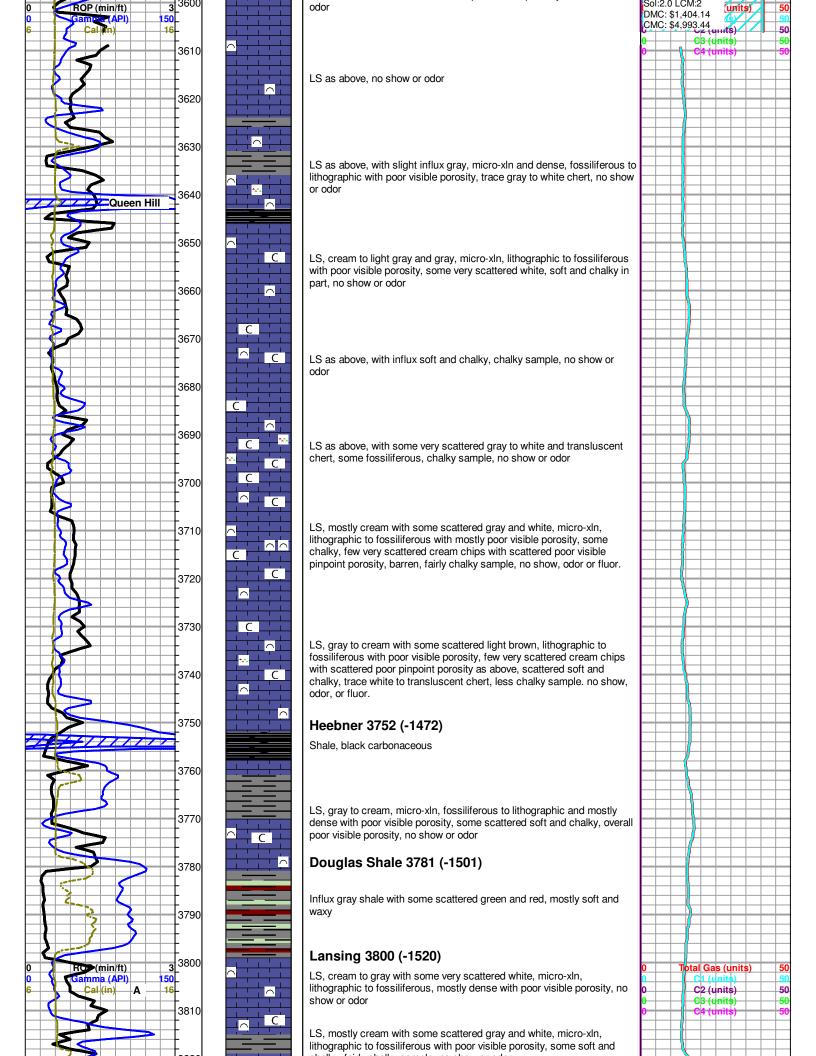
Topeka 3416 (-1136)

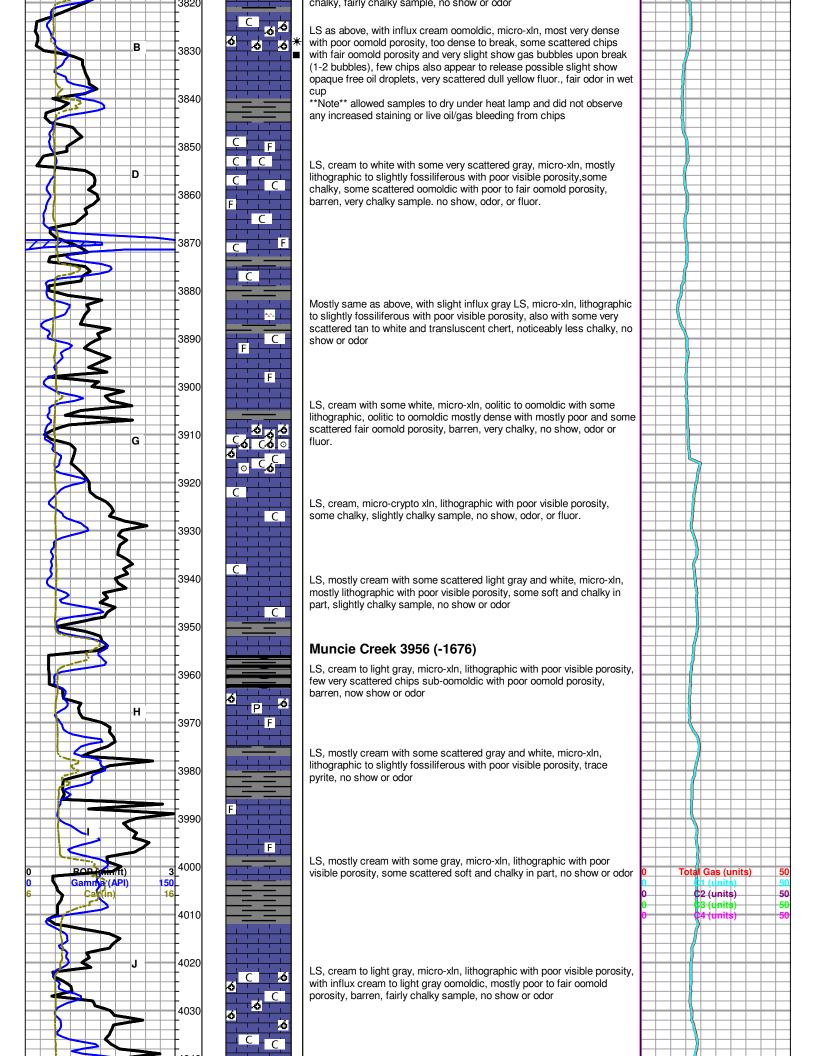


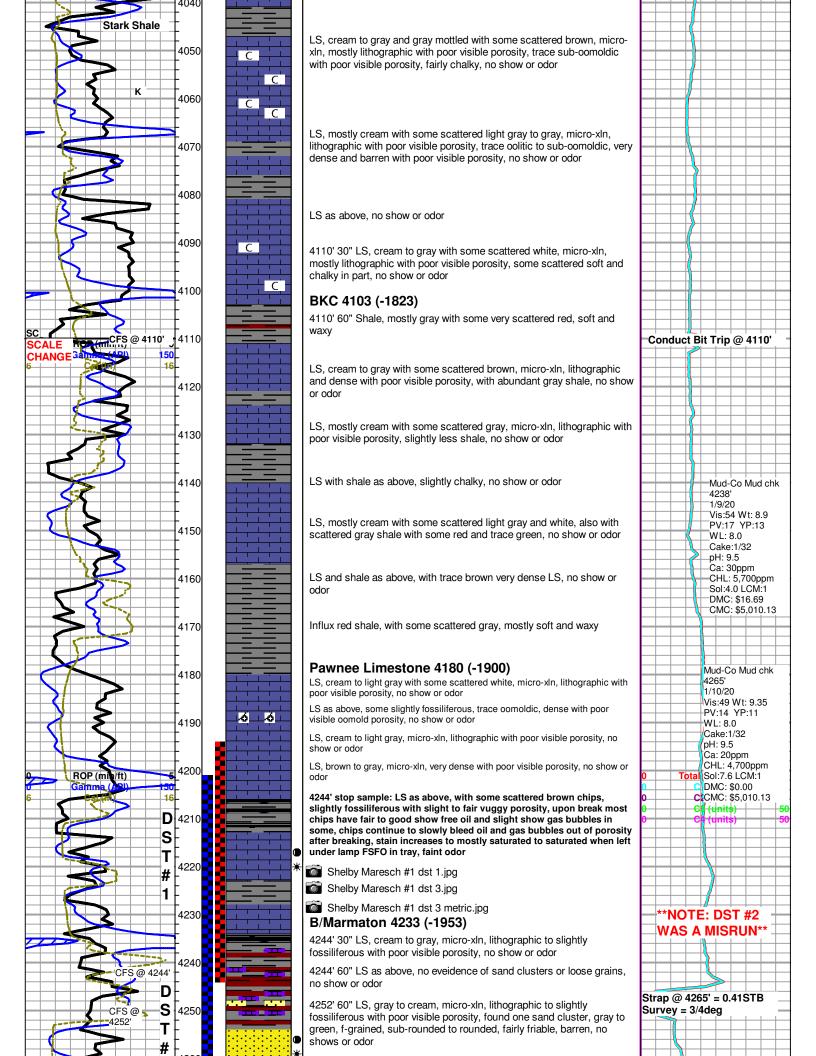
20' wet and dry samples begin @ 3600'

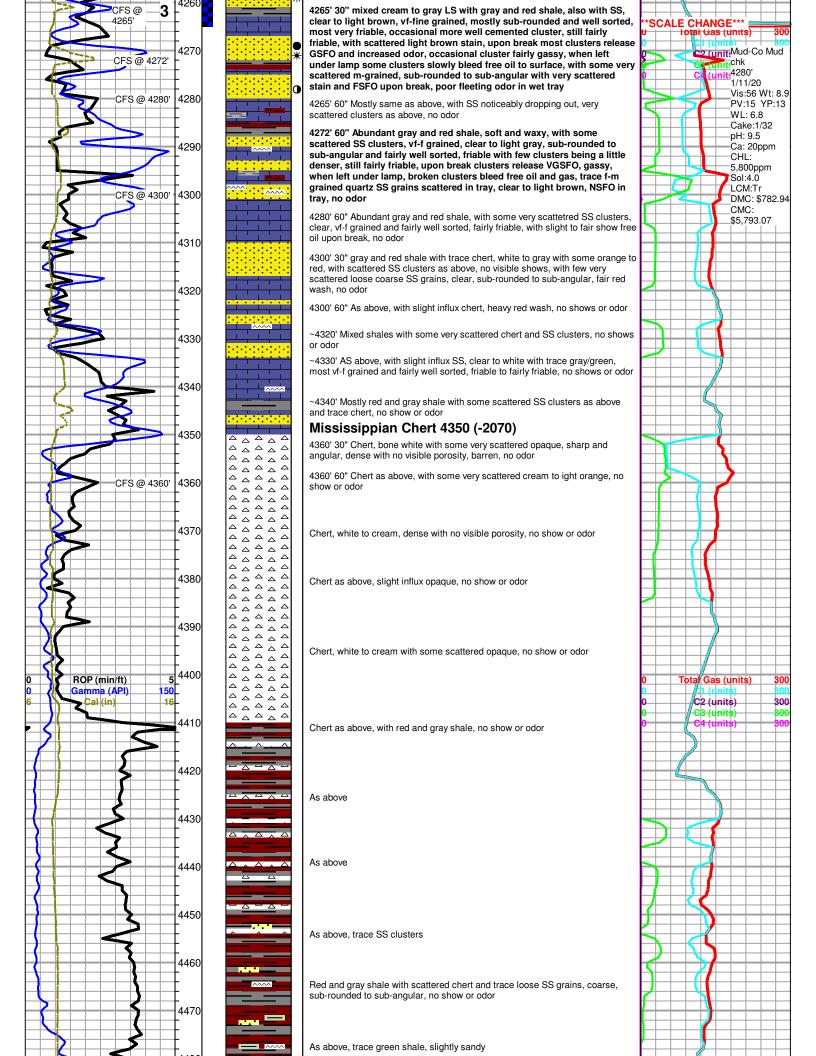
LS, mostly cream, micro-crypto xln, lithographic, with some gray, micro-xln, fossiliferous and dense, overall poor visible porosity, no show or

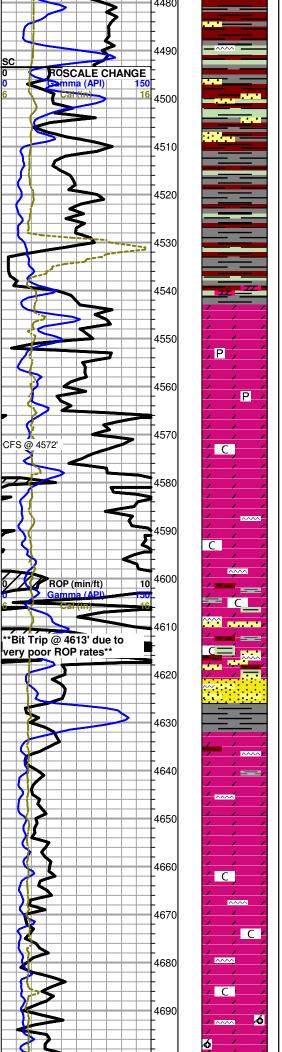












As above, slight influx green shale, soft and waxy, few pieces slightly sandy

As above, slight influx SS, clear, f-grained, fairly friable and well sorted, subrounded to rounded, no show or odor

Viola 4502' (-2222) (E-log top as samples were very poor probably due in part to a worn out bit??)

Gray and red shale with trace green, and some very scattered SS as above, no show or odor $\,$

As above (possible seeing abundant sloughing from above??

Mostly gray and red shale with trace green

As above, with trace dolomite, cream, sub-sucrosic and dense with poor visible porosity, no show or odor

Influx dolomite, cream, micro-xln, mostly sucrosic and dense with poor visible porosity, few chips micro-med xln with fair inter-xln to somewhat vuggy porosity, fairly friable, no show or odor

Dolomite, cream, micro-xln, mostly sucrosic and dense with poor visible porosity, some slightly pyritic, no show or odor

4572' 30" Dolomite as above, few very scattered chips, micro-med xln with some very scattered sub-rhombic development, dense with poor visible porosity, no show or odor

4572' 60" Dolomite, micro-xln, mostly sucrosic and dense with poor visible porosity, trace black shale, slightly chalky, no show or odor

Dolomite, cream with some scattered white, micro-xln, sucrosic and dense with poor visible porosity, no show or odor

Dolomite, cream, micro-xln, mosrlt sucrosic and dense with poor visible porosity, with some very scattered white to transluscent chert, slightly chalky, no show or odor

Dolomite with scattered chert as above, slightly chalky, with slight influx gray and red with trace green shale, no show or odor

Mixed dolomite, shale, and chert as above, with influx LS, brown, micro-xln, dense with no visible porosity, also with some scattered SS clusters, white to clear, f-med grained, sub-rounded to rounded and poorly sorted, fairly friable, fairly chalky, no show or odor

Simpson Sand 4622 (-2342)

As above, with Influx SS, clear, f-grained, sub-rounded to rounded and well sorted, most fairly firable to friable, barren, no odor

Arbuckle 4632' (-2352)

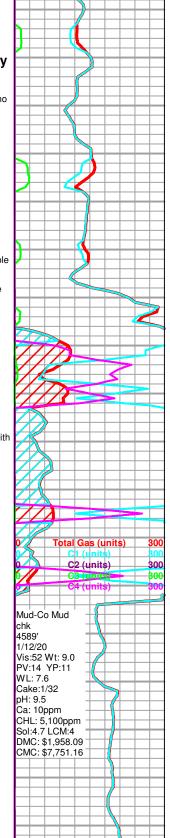
SS dropping out, with large influx dolomite, cream to light brown, micro-xln, sucrosic and dense with poor visible porosity, some scattered med-xln, sub-rhombic and very dense with poor visible porosity, very scattered chert, fairly chalky, no show or odor

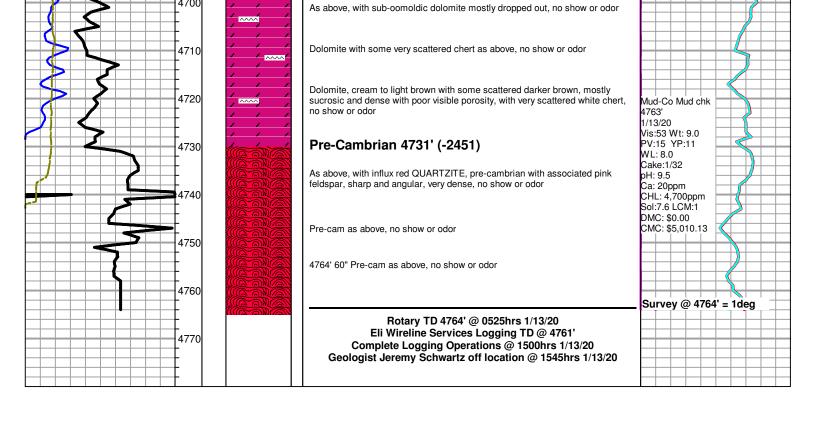
SS, chert, and shale mostly dropped out, dolomite, cream to light brown sucrosic and dense with poor visible porosity, with influx med-xln dolomite, some very scattered with secondary fairly large calcite crystal development, fairly chalky, no show or odor

Dolomite, cream to light brown, micro-xln, mostly sucrosic and dense with poor visible porosity, with scattered white chert, slightly chalky, no show or odor

Dolomite as above, with slight influx brown, same as above, very scattered white to transluscnet chert, no show or odor

Dolomite, cream to light brown with some scattered darker brown, micro-xln, mostly sucrosic and dense with poor visible porosity, some scattered sub-oomoldic, dense with poor oomold porosity, with very scattered white chert, no show or odor





Shelby Maresch #1 dst 1.jpg



DRILL STEM TEST REPORT

Shelby Resources LLC

32-19s-19w

Unit No:

13949 W. Colfax AVE Bldg 1 ste 120 Lakewood

∞ 80401+3248

Maresch Unit #1

Job Ticket: 65716

DST#: 1

ATTN: Jeremy Scwartz

Test Start: 2020.01.09 @ 13:50:00

66

GENERAL INFORMATION:

Formation: Pawnee

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 16:02:10 Tester: Benny Mulligan

Time Test Ended: 21:05:39

Interval: 4194.00 ft (KB) To 4244.00 ft (KB) (TVD)

Total Depth: 4244.00 ft (KB) (TVD)

Reference Elevations: 2280.00 ft (KB) 2273.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 6772 Inside

Press@RunDepth: 24.35 psig @ 4195.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2020.01.09
 End Date:
 2020.01.09
 Last Calib.:
 2020.01.09

 Start Time:
 13:50:01
 End Time:
 21:05:40
 Time On Btm:
 2020.01.09 @ 15:53:00

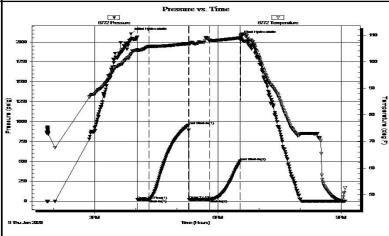
 Time Off Btm:
 2020.01.09 @ 18:33:09

TEST COMMENT: IF-15- w eak surface blow

ISI-60- no blow back

FF-30- was dead when opened

FSI-45- no blow back



	PRESSURE SUMMARY								
	Time	Pressure	Temp	Annotation					
	(Min.)	(psig)	(deg F)						
	0	2102.15	102.83	Initial Hydro-static					
	10	20.82	104.06	Open To Flow (1)					
	26	23.03	105.75	Shut-In(1)					
-	84	957.14	106.70	End Shut-In(1)					
T T	85	21.95	106.56	Open To Flow (2)					
Temperature (deg	115	24.35	108.05	Shut-In(2)					
9	160	505.70	108.97	End Shut-In(2)					
J	161	2061.54	109.93	Final Hydro-static					

Recovery

Description	Volume (bbl)
Mud 100% M	0.03
	X

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

Shelby Maresch #1 dst 3.jpg



DRILL STEM TEST REPORT

Shelby Resources LLC

32-19s-19w

Unit No:

13949 W. Colfax AVE Bldg 1 ste 120 Lakewood

∞ 80401+3248

Maresch Unit #1
Job Ticket: 65718

200 1101011 201 10

66

ATTN: Jeremy Scw artz Test Start: 2020.01.10 @ 16:12:00

GENERAL INFORMATION:

Formation: Cherokee

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 18:55:10 Tester: Benny Mulligan

Time Test Ended: 00:20:30

Interval: 4201.00 ft (KB) To 4265.00 ft (KB) (TVD)

Total Depth: 4265.00 ft (KB) (TVD)

Reference Elevations: 2280.00 ft (KB) 2273.00 ft (CF)

DST#: 3

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 6772 Inside

Press@RunDepth: 725.13 psig @ 4202.00 ft (KB) Capacity: 8000.00 psig

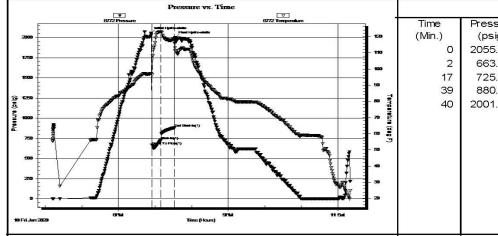
 Start Date:
 2020.01.10
 End Date:
 2020.01.11
 Last Calib.:
 2020.01.11

 Start Time:
 16:12:01
 End Time:
 00:20:30
 Time On Btm:
 2020.01.10 @ 18:53:20

 Time Off Btm:
 2020.01.10 @ 19:32:50

TEST COMMENT: IF-15-BOB 30 secs total build of 180"

ISI-20- no blow back



		Р	RESSUR	RE SUMMARY	
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	2055.95	97.30	Initial Hydro-static	
	2	663.70	96.34	Open To Flow (1)	
	17	725.13	122.96	Shut-In(1)	
4	39	880.92	118.48	End Shut-In(1)	
agr.	40	2001.74	112.93	Final Hydro-static	
Temperature (deg F)					
9 b					

Recovery Length (ft) Description Volume (bbl) 315.00 GOCM 10%G 20%O 70%M 4.42 1260.00 GHOCM 10%G 40%O 50%M 17.67 63.00 M.W 80%W 20%M 0.88

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

Shelby Maresch #1 dst 3 metric.jpg



DRILL STEM TEST REPORT

Shelby Resources LLC

32-19s-19w

Tester:

Unit No:

13949 W. Colfax AVE Bldg 1 ste 120 Lakew ood

CO 80401+3248

Maresch Unit #1 Job Ticket: 65718

Test Start: 2020.01.10 @ 16:12:00

66

Benny Mulligan

DST#: 3

694.94 m (KB)

ATTN: Jeremy Scwartz

GENERAL INFORMATION:

Formation: Cherokee

m (KB) Test Type: Conventional Bottom Hole (Initial) Deviated: Whipstock: No

Time Tool Opened: 18:55:10

Time Test Ended: 00:20:30

Interval: 1280.46 m (KB)To 1299.97 m (KB)(TVD)

Total Depth: 1299.97 m (KB) (TVD) Reference Elevations: 692.81 m (CF)

Hole Diameter: 20.02 cm Hole Condition: Fair KB to GR/CF: 2.13 m

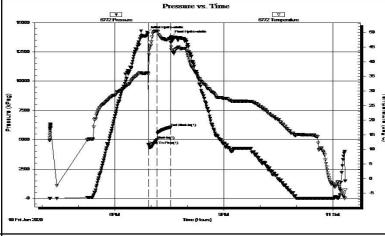
Serial #: 6772 Inside

Press@RunDepth: 4999.80 kPag @ 1280.77 m (KB) Capacity: 55000.00 kPag

Start Date: 2020.01.10 End Date: 2020.01.11 Last Calib.: 2020.01.11 Start Time: 16:12:01 End Time: 00:20:30 Time On Btm: 2020.01.10 @ 18:53:20 Time Off Btm: 2020.01.10 @ 19:32:50

TEST COMMENT: IF-15-BOB 30 secs total build of 180"

ISI-20- no blow back



	PRESSURE SUMMARY								
31.5	Time	Pressure	Temp	Annotation					
	(Min.)	(kPag)	(deg C)						
	0	14175.7	36.28	Initial Hydro-static					
	2	4576.24	35.74	Open To Flow (1)					
	17	4999.80	50.54	Shut-In(1)					
-	39	6073.94	48.05	End Shut-ln(1)					
ag d	40	13801.9	44.96	Final Hydro-static					
2									
Temperature (deg C)									
O									

Length (m)	Description	Volume (bbl)
96.01	GOCM 10%G 20%O 70%M	4.42
384.05	GHOCM 10%G 40%O 50%M	17.67
19.20	M.W 80%W 20%M	0.88

Recovery

Gas Rates						
	Choke (cm)	Pressure (ktPag)	Gas Rate (Mcf/d)			

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Laura Kelly, Governor

Susan K. Duffy, Chair Shari Feist Albrecht, Commissioner Dwight D. Keen, Commissioner

June 18, 2020

Chris Gottschalk Shelby Resources LLC 3700 QUEBEC ST UNIT 100 PMB 376 DENVER, CO 80207-1639

Re: ACO-1 API 15-165-22171-00-00 MARESCH UNIT 1 NW/4 Sec.32-19S-19W Rush County, Kansas

Dear Chris Gottschalk:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/14/2019 and the ACO-1 was received on June 18, 2020 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department