KOLAR Document ID: 1579153

Confidentiality Requested:

Yes No

#### Kansas Corporation Commission Oil & Gas Conservation Division

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

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

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from  North / South Line of Section
City: State: Zip: +	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.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:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	
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)
Described	Chloride content: ppm Fluid volume: bbls
☐ Commingled     Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if flauled offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
Recompletion Date  Recompletion Date	County: Permit #:

#### **AFFIDAVIT**

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

**Submitted Electronically** 

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

KOLAR Document ID: 1579153

#### Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a     Does the volume     Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

Form	CO1 - Well Completion			
Operator	TDI, Inc.			
Well Name	BRULL 1			
Doc ID	1579153			

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	20	214	80/20 Poz		3% cc, 2% gel
Production	7.875	5.5	14	3792	EA-2	150	None

**OPERATOR** 

Company: TDI, INC

Address: 1310 BISON ROAD

HAYS, KANSAS 67601-9696

Contact Geologist: TOM DENNING Contact Phone Nbr: 785-628-2593 Well Name: BRULL # 1

Location: SE NE SE SW, SEC,13-T13S-R19W

API: 15-051-26,997-00-00

Pool: Field: GATSCHET

State: KANSAS Country: USA



Scale 1:240 Imperial

Well Name: BRULL # 1

Surface Location: SE NE SE SW, SEC,13-T13S-R19W

Bottom Location:

API: 15-051-26,997-00-00

License Number: 4787 Spud Date: 6/3/2021 Time: 5:45 PM

Region: ELLIS COUNTY

Drilling Completed: 6/8/2021 Time: 12:25 PM

Surface Coordinates: 975' FSL & 2365' FWL

**Bottom Hole Coordinates:** 

Ground Elevation: 2065.00ft K.B. Elevation: 2075.00ft

Logged Interval: 3000.00ft To: 3800.00ft

Total Depth: 3800.00ft Formation: ARBUCKLE

Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

#### SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.3826165
Latitude: 38.9170836
N/S Co-ord: 975' FSL
E/W Co-ord: 2365' FWL

#### **LOGGED BY**



Company: SOLUTIONS CONSULTING, INC.

Address: 108 W 35TH

HAYS, KS 67601

Phone Nbr: (785) 639-1337

Logged By: GEOLOGIST Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING INC.

Rig #: 1

Rig Type: MUD ROTARY

Spud Date: 6/3/2021 Time: 5:45 PM
TD Date: 6/8/2021 Time: 12:25 PM

Rig Release: 6/9/2021 Time: 7:30 AM

#### **ELEVATIONS**

K.B. Elevation: 2075.00ft Ground Elevation: 2065.00ft

K.B. to Ground: 10.00ft

#### **NOTES**

DECISION TO RUN PRODUCTION CASING BASED ON LOG ANALYSIS AND POSITIVE RESULTS OF DST # 1.

OPEN HOLE LOGGING BY MIDWEST WIRELINE: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG.

DRILL STEM TESTING BY TRILOBITE TESTING INC: ONE (1) CONVENTIONAL TEST.

		SE SW 3-13S-19W	DREILING A # 1 SE SE SW SEC.13-13S-19W KB 2055'	JACOBS # 2 NW SE NW NE SEC.24-13S-19W KB 2062'
		LOG TOPS		
Anhydrite-top	p	1365 +710	+711	+722
Anhydrite-ba	se	1402 +673	+677	+685
Topeka		3084-1009	-1009	-1008
Heebner Shal	le	3334-1259	-1261	-1250
Toronto		3353-1278	-1279	-1269
LKC		3379-1304	-1308	-1302
BKC		3608-1533	-1539	-1528
Arbuckle		3674-1599	-1609	-1609
RTD		3800-1725	-1665	-1625
6-03-21	Spud	5:45 PM. Drill 12 ¼" h	ole for surface casing.	
6-04-21			The state of the s	s 80/20 pos 3%CC 2%gel, plug
			N=3	ours, drilled plug at 11:00 AM
		DC bit.	O and and the Control of the Control	
6-05-21	1715′,	drilling		
6-06-21	2980',	drilling, pulled PDC b	it at 2980', displaced 3	012'-3044'
6-07-21	3487	drilling, CFS 3650', sh	ort trip, drilling, CFS 3	704' DST # 1 3679'-3704', slope
	1 degi	ree @ 3704'		
6-08-21	3704′,	TIWB, drilling, RTD 38	300' @ 12:28 PM, CCH,	TOWB, logs, TIWB, LDDP, run
	produ	ction casing		
6-09-21	3800′	finish cementing bot	tom and top stages, rel	ease rig.



TDI Inc.

13-13s-19w

1310 Bison RD Hays, KS 67601-9696

ATTN: Herb Dienes

Brull #1

Job Ticket: 61766

Unit No:

Reference ⊟evations:

Test Start: 2021.06.07 @ 21:58:00

GENERAL INFORMATION:

Formation: Arbuckle

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

Kevin Webster Time Tool Opened: 01:04:32 Tester:

Time Test Ended: 05:54:02

3679.00 ft (KB) To 3704.00 ft (KB) (TVD) Interval:

3704.00 ft (KB) (TVD) Total Depth:

2076.00 ft (KB) 2068.00 ft (CF)

DST#: 1

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

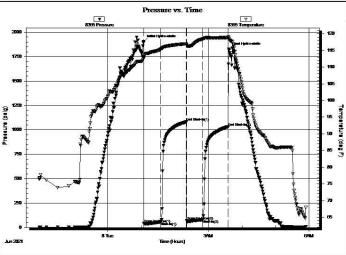
Serial #: 8365

Press@RunDepth: 79.27 psig @ 3680.00 ft (KB) Capacity:

Start Date: 2021.06.07 End Date: 2021.06.08 Last Calib .: 2021.06.08 Start Time: 21:58:01 End Time: 05:54:02 Time On Btm: 2021.06.08 @ 01:04:17 Time Off Btm: 2021.06.08 @ 03:36:47

TEST COMMENT: IF-Surface blow built to bob in 24 min

ISI No blow back FF-built to 8 1/2" FSI-no blow back



	PRESSURE SUMMARY										
1	Time	Pressure	Temp	Annotation							
	(Mn.)	(psig)	(deg F)								
	0	1903.47	112.95	Initial Hydro-static							
	1	44.00	112.62	Open To Flow (1)							
	31	57.10	115.43	Shut-In(1)							
	77	1081.78	116.97	End Shut-In(1)							
	77	70.93	116.67	Open To Flow (2)							
	106	79.27	118.46	Shut-In(2)							
6	151	1029.88	118.91	End Shut-In(2)							
2	153	1828.37	118.66	Final Hydro-static							
		1		İ							

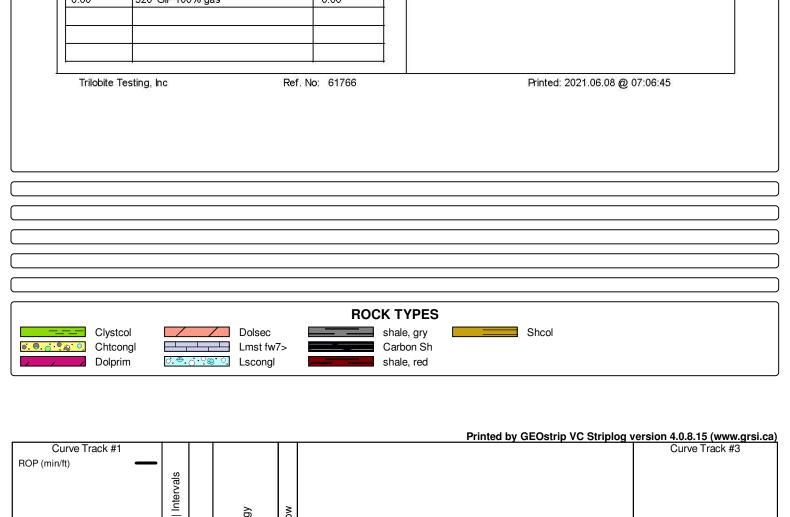
DDECOLIDE OLIMANA DV

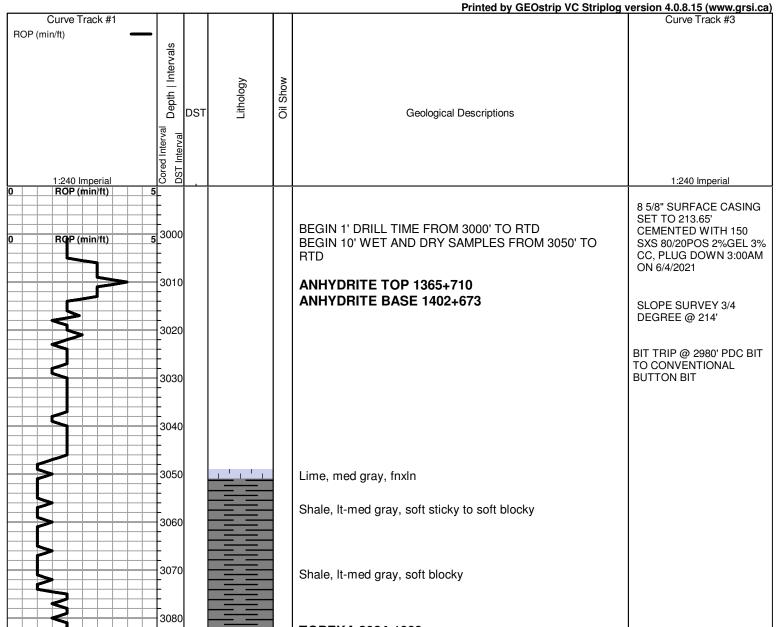
#### Recovery

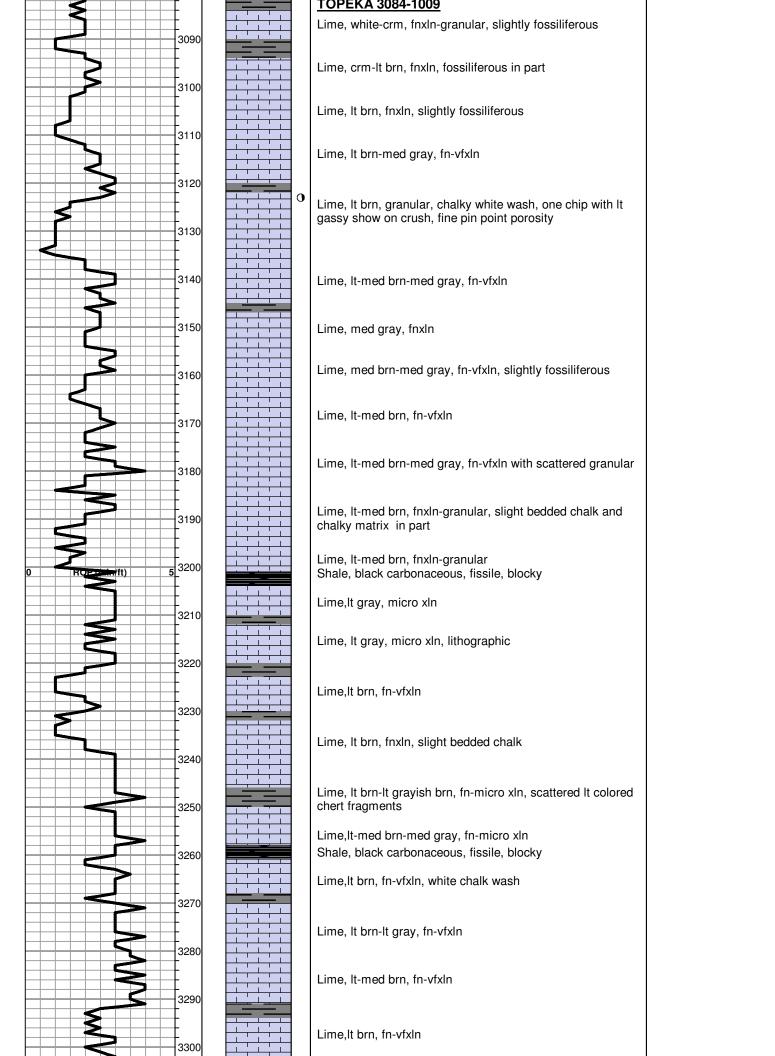
Length (ft)	Description	Volume (bbl)
20.00	OCM 10% oil 90% mud	0.28
180.00	Gassy Oil 5% gas 95% oil	2.55
0.00	2201 CID 1000/ goo	0.00

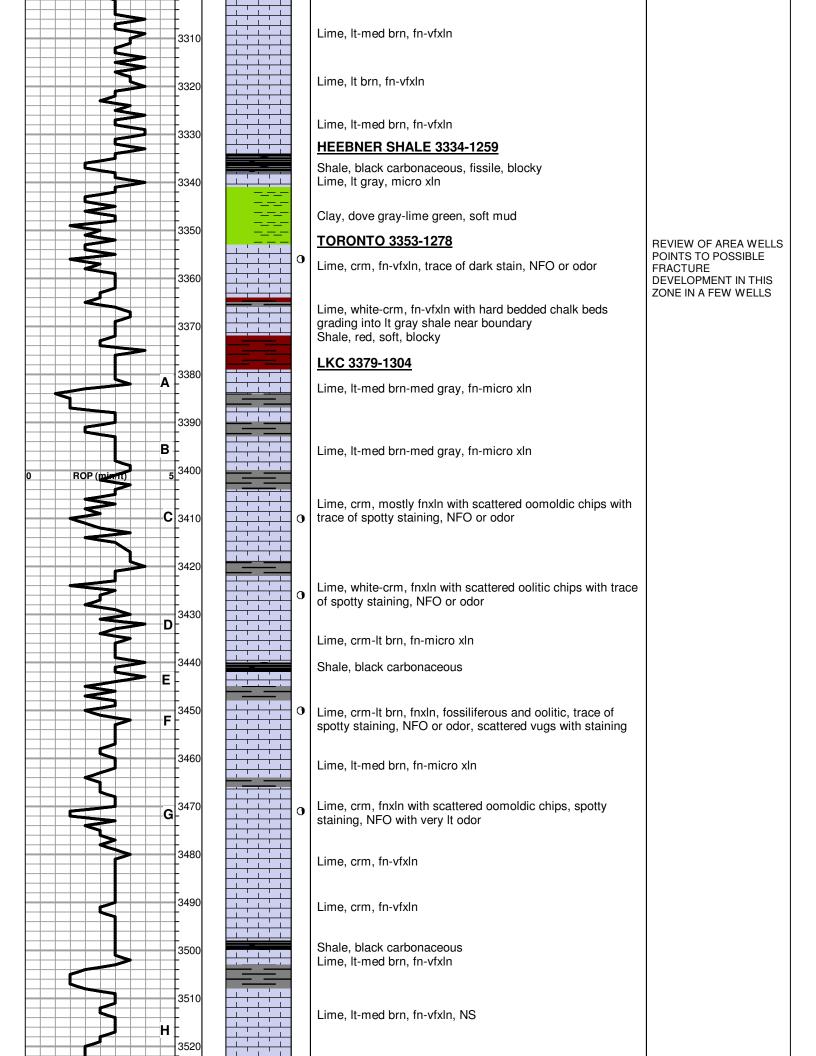
Ga	sК	ate:

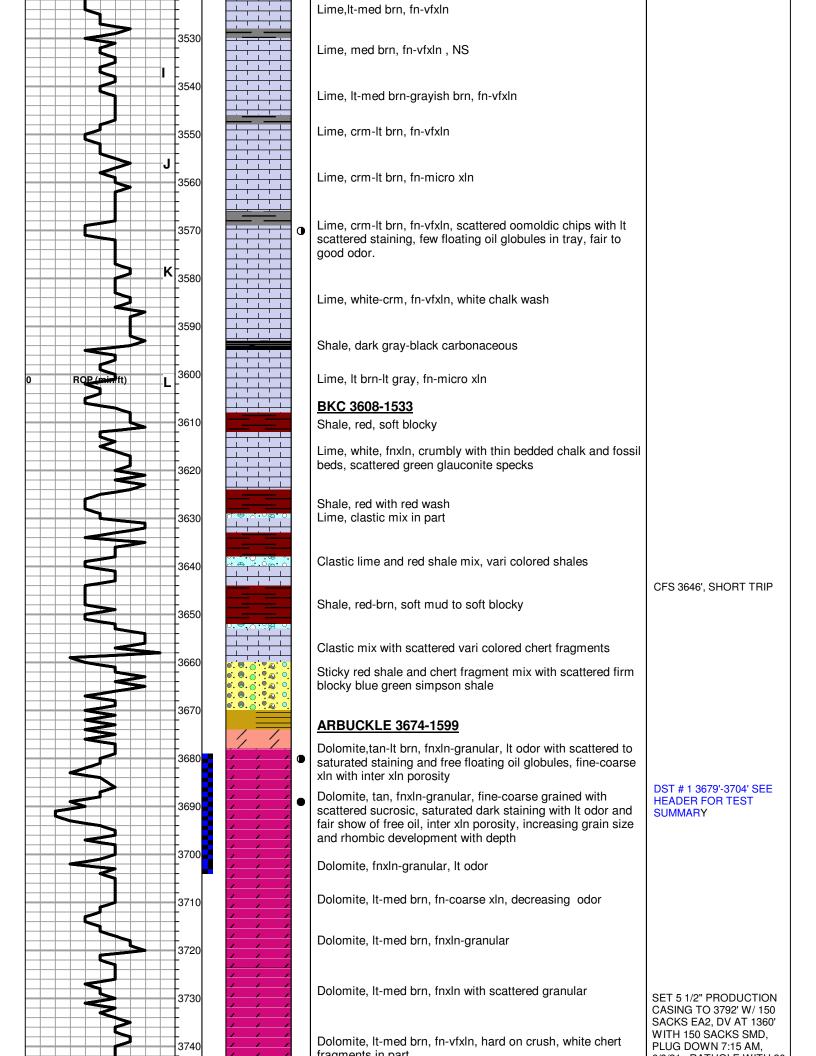
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

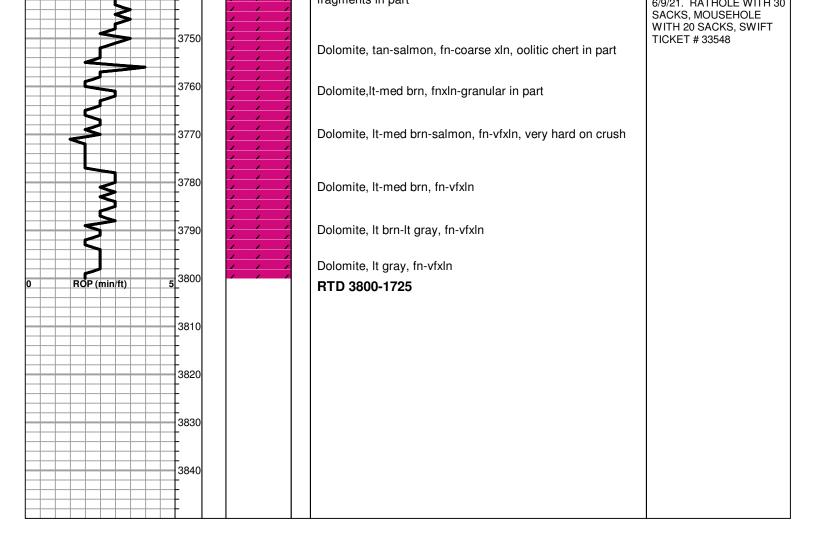












## QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

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

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

No. 1792

Date 6-5-21 13	Twp. 13	Range	County 2/1.5	State	On Location	Finish 3.00 An				
of interest that YOUSTONIED may	eter er		Location LWH	AYS, KI	alces, Coustoniem : saalnd in no event stic	will sold teas to will arit probability				
Lease BRUII Contractor Southwand	al ydens der isk erong	Well No.	Owner To Quality O You are here	Owner  To Quality Oilwell Cementing, Inc.  You are hereby requested to rent cementing equipment and furnish						
Type Job SURFACE			cementer an	cementer and helper to assist owner or contractor to do work as listed.						
Hole Size 124	T.D.	219	To 7	DL	layed was et 2939 VB	MBOTTA				
Csg. 828	Depth	2/3	Street	Contract, the prove	and to mea ent of this	any way pertain				
Tbg. Size	Depth		City HA	15	State KS	STANGE TO				
Tool man also says to the says of the says	Depth	or to Jacob	The above wa	s done to satisfaction	and supervision of owner	agent or contractor.				
Cement Left in Csg. 15	Shoe	,	Cement Amo	ount Ordered 15	ODY 8/20 34	2				
Meas Line EQUIP	Displac	ce /2,6	read unels are	120	CHARGES QUALITY	DVRVOT				
No Cementer	13:41	Common		or it most to or log of the						
Pumptrk 5 Helper		CRail	Poz. Mix	30	UO yd bisg bas of bad GTICNA CHAROLTA	LACCHER ATT				
Bulktrk /9 Driver	q TILLES		Gel.							
Bulktrk Driver	NDKC.	Calcium 6	TOUR TO BE A SECOND OF THE SEC	UE CHARGES U	SHOAND FORMAN					
JOB SERVICES	AHKS		Hulls							
Remarks:	io3 eldel			Salt samula samu						
Rat Hole	estantos es vos s	end serbes no Enspain	Flowseal							
Mouse Hole			Kol-Seal							
Centralizers	2001, 1002	and family, referre		Mud CLR 48						
Baskets			CFL-117 or (	CFL-117 or CD110 CAF 38						
D/V or Port Collar	CHEST SE	4	Sand							
RUNS 5+5 of 8	J se	re	Handling /	Handling 159						
Cent of 150A	/ /	11	Mileage							
11 /1 / 1-1	2.6 b.	bh water		FLOAT EQUIPMENT						
Cent did Co	Re	770	Guide Shoe							
Britania di nosas (Establia mos	E THE STATE OF THE	i Milliant and th	Centralizer							
them the boundary and of about	ESPECT CO		Baskets	· - Signature of Ap	Stephine TT JALIS C	ED-CRECTAME				
deligible of TEARLY as bright of			AFU Inserts		NA CONTRACTOR AND A	MEN TERRO CINE				
BEADLING PLANTANT	Ш		Float Shoe		Cardinal Card No.	AUG vd henim				
1 1	ETHALIF	AN YVV	Latch Down		2014/23/270 80 88	BRIXE BURLES				
Mants	on Loria	VOLUMBA PER	Approx Market St.	a alkaretasella s	s foar sit townersloot	to the repair of				
all asilqu	uaro di	ubstrage and a		, promise gardinage	William and to A	inetioni, lichaga				
			Pumptrk Cha	arge Surface		unidite(2 (A)				
			Mileage /	rige Surface 5 min	Those from estimator	work done or m				
P.	al yright		2015 (A) A18 TO SOURCE		Tax	ALEGORIANIA				
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X Signature	dan ed	Sade VILIAUC	7/11		Total Charge	A 30 ROBERTORS OF A				
the following the parton area		AT STANFACTORY		0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second second second	NOTEUD and to				

STOM	FI		WELL NO.		SWIFT Services. Inc. 9 JUN 3  LEASE Brull Cement langstring 2 tstage					
HART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE (	(PSI)	DESCRIPTION OF OPERATION AND MATERIALS			
110.		(Bi iii)	(BBE) (GAE)	1 0	TUBING C	CASING	1505k EA-2 count -15Istage			
							200 sk 3 mD cent - Ind stage			
							52×14+ cosing 90,000 TD - 3800			
							Hotelp: pe-3793' DV tool \$ 57 1360' short 42.57			
							total pipe - 3793' DV tool # 57 1360' shoet 42.57 Centralizees 1, 3,5,7,9,92,12.14 Broket 4,57			
	0/00						onlac TRK III			
	6360						stant 52×14 cosing in well			
	0425						Drop ball - circulate			
	0530		32				Pump 500 gal med Flush + 20 bil RCL flush			
	0545	4	36		2	90	Mix Et-Zament 500 @ 15.3 ppg Drop 1st stage plig			
							Drop st stage plug			
	0623	,					wood Pup & Zon			
7	9558	6				00	Displace Plug			
	-1:-		do			300				
	045		92		K	500	Lord plug - Pelase presuntitruck / dried			
							Drop bomb			
	Alan		1			×	Drop bomb  Ply RH-MH 305k - 205k  open DV tool			
	0623				8	700	openall tool			
	0635	42	84		7	200	Mix 5MD court, 50 de 11.2 ppg			
	V 4 37	1					Don 2nd stree than			
	0710		5		2	00	Displace plug			
	134						, 0			
	0718						> cement tosupace 255k topit			
					6	10	255 top. t			
	97/5		32		18	BOD	LAUCH Dlug / close DV			
							LAND log/close DV Release pressure totevek-devel-p			
	0725						und tende			
	0 10 3						wash that Rock up			
	0755						To complete harks			
			200				Zack Haire & 15Apr			
Far							LSTUR, DUNE, 9 15AARC			



Prepared For: TDI Inc.

1310 Bison Rd Hays, KS 67601-9696

ATTN: Herb Dienes

#### Brull #1

#### 13-13s-19w Ellis,KS

Start Date: 2021.06.07 @ 21:58:00 End Date: 2021.06.08 @ 05:54:02 Job Ticket #: 61766 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TDI Inc.

13-13s-19w Ellis, KS

1310 Bison Rd

Hays, KS 67601-9696

Job Ticket: 61766

Brull #1

Tester:

Unit No:

DST#: 1

ATTN: Herb Dienes Test Start: 2021.06.07 @ 21:58:00

**GENERAL INFORMATION:** 

Formation: Arbuckle

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

Time Tool Opened: 01:04:32

Time Test Ended: 05:54:02

Interval: 3679.00 ft (KB) To 3704.00 ft (KB) (TVD)

Total Depth: 3704.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2076.00 ft (KB)

Kevin Webster

72

2068.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365 Inside

Press@RunDepth: 79.27 psig @ 3680.00 ft (KB) Capacity: psig

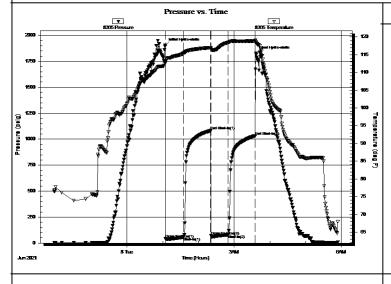
 Start Date:
 2021.06.07
 End Date:
 2021.06.08
 Last Calib.:
 2021.06.08

 Start Time:
 21:58:01
 End Time:
 05:54:02
 Time On Btm:
 2021.06.08 @ 01:04:17

Time Off Btm: 2021.06.08 @ 03:36:47

TEST COMMENT: IF-Surface blow built to BOB in 24 min

ISI- No blow back FF-Blow built to 8 1/2" FSI-No blow back



P	RESSUR	RE SU	JMMA	RY
	_			

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1903.47	112.95	Initial Hydro-static
1	44.00	112.62	Open To Flow (1)
31	57.10	115.43	Shut-In(1)
77	1081.78	116.97	End Shut-In(1)
77	70.93	116.67	Open To Flow (2)
106	79.27	118.46	Shut-In(2)
151	1029.88	118.91	End Shut-In(2)
153	1828.37	118.66	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 10% oil 90% mud	0.28
180.00	Gassy Oil 5% gas 95% oil	2.55
0.00	320' GIP 100% gas	0.00

#### Gas Rates

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

Trilobite Testing, Inc Ref. No: 61766 Printed: 2021.06.08 @ 16:17:13



TDI Inc. 13-13s-19w Ellis,KS

1310 Bison Rd Hays, KS 67601-9696 Brull #1

Tester:

Unit No:

Job Ticket: 61766 **DST#:1** 

Kevin Webster

2068.00 ft (CF)

72

ATTN: Herb Dienes Test Start: 2021.06.07 @ 21:58:00

#### **GENERAL INFORMATION:**

Formation: Arbuckle

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

Time Tool Opened: 01:04:32 Time Test Ended: 05:54:02

Interval:

**3679.00 ft (KB) To 3704.00 ft (KB) (TVD)** Reference Elevations: 2076.00 ft (KB)

Total Depth: 3704.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

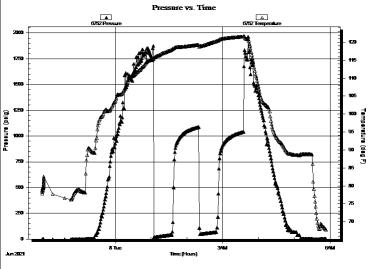
Press@RunDepth: psig @ 3680.00 ft (KB) Capacity: psig

Start Date: 2021.06.07 End Date: 2021.06.08 Last Calib.: 2021.06.08

Start Time: 21:58:01 End Time: 05:53:02 Time On Btm: Time Off Btm:

TEST COMMENT: IF-Surface blow built to BOB in 24 min

ISI- No blow back FF-Blow built to 8 1/2" FSI-No blow back



PRESSURE S	UMMARY
------------	--------

Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
J				
ij,				
Temperature (deg F)				
œ.				
0				

#### Recovery

Length (ft)	Description	Volume (bbl)	
20.00	OCM 10% oil 90% mud	0.28	
180.00	Gassy Oil 5% gas 95% oil	2.55	
0.00	320' GIP 100% gas	0.00	

#### Gas Rates

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

Trilobite Testing, Inc Ref. No: 61766 Printed: 2021.06.08 @ 16:17:14



**TOOL DIAGRAM** 

TDI Inc.

13-13s-19w Ellis, KS

1310 Bison Rd Hays, KS 67601-9696 Brull #1

Job Ticket: 61766

DST#: 1

ATTN: Herb Dienes

Test Start: 2021.06.07 @ 21:58:00

**Tool Information** 

Drill Pipe:Length:3672.00 ftDiameter:3.82 inches Volume:Heavy Wt. Pipe:Length:0.00 ftDiameter:2.75 inches Volume:Drill Collar:Length:0.00 ftDiameter:2.25 inches Volume:

aches Volume: 52.05 bbl aches Volume: 0.00 bbl aches Volume: 0.00 bbl Total Volume: 52.05 bbl Tool Weight: 2000.00 lb
Weight set on Packer: 25000.00 lb
Weight to Pull Loose: 52000.00 lb

Tool Chased 0.00 ft
String Weight: Initial 48000.00 lb

Final 50000.00 lb

Drill Pipe Above KB: 12.00 ft
Depth to Top Packer: 3679.00 ft

Depth to Bottom Packer: ft
Interval betw een Packers: 25.00 ft
Tool Length: 44.00 ft

Number of Packers: 1 Diameter: inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3665.00		
Hydraulic tool	5.00			3670.00		
Packer	5.00			3675.00	19.00	Bottom Of Top Packer
Packer	4.00			3679.00		
Stubb	1.00			3680.00		
Recorder	0.00	8365	Inside	3680.00		
Recorder	0.00	6752	Inside	3680.00		
Perforations	21.00			3701.00		
Bullnose	3.00			3704.00	25.00	Bottom Packers & Anchor

Total Tool Length: 44.00

Trilobite Testing, Inc Ref. No: 61766 Printed: 2021.06.08 @ 16:17:15



**FLUID SUMMARY** 

ppm

TDI Inc. 13-13s-19w Ellis, KS

1310 Bison Rd Hays, KS 67601-9696

Job Ticket: 61766

Brull #1

DST#: 1

ATTN: Herb Dienes Test Start: 2021.06.07 @ 21:58:00

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: 29 deg API

Mud Weight: Cushion Length: 9.00 lb/gal ft Water Salinity:

Viscosity: 47.00 sec/qt Cushion Volume: bbl

Water Loss: 5.80 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

4100.00 ppm Salinity: Filter Cake: inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl 0.284
20.00	OCM 10% oil 90% mud	0.284
180.00	Gassy Oil 5% gas 95% oil	2.552
0.00	320' GIP 100% gas	0.000

Total Length: 200.00 ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 2# LCM

Trilobite Testing, Inc Ref. No: 61766 Printed: 2021.06.08 @ 16:17:15

65

70

75

80

85

90

Temperature (deg F)

95

100

105

Serial #: 8365

Inside

TDI Inc.

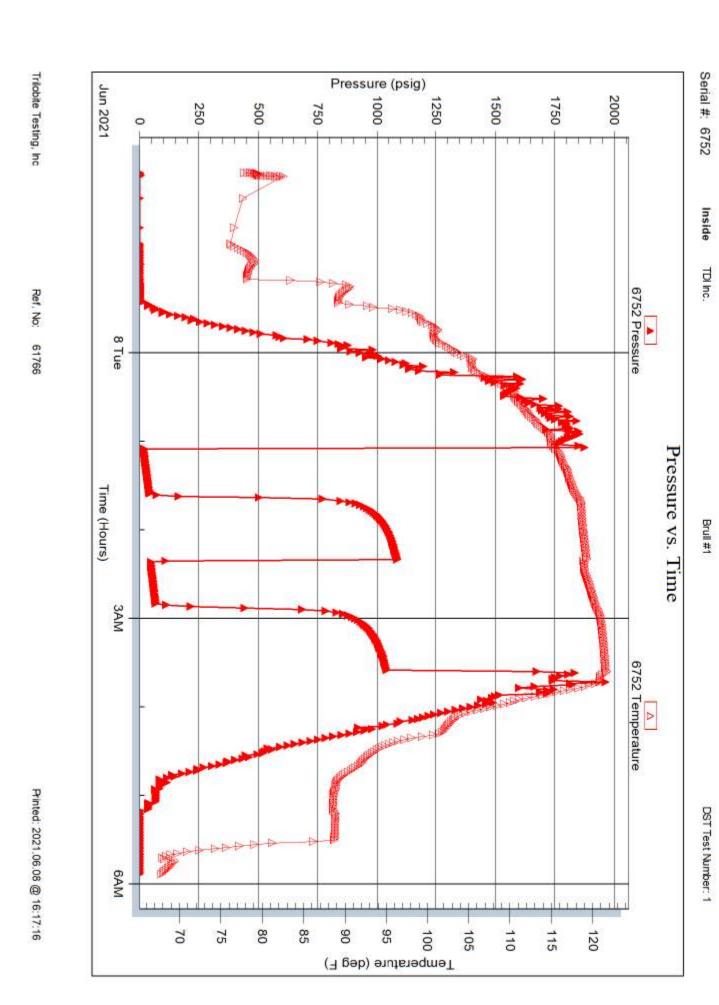
Brull #1

DST Test Number: 1

110

115

120





# RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

#### **Test Ticket**

**NO.** 61766

#10 whell.						
Well Name & No. 13/21/ #/			Test No	1		7/21
Company TOF INC.			Elevation _	20 76	кв 206	g <sub>L</sub>
Address 13 10 12 i San 1	(d Har	15.KS	67611	- 969	76	
Co. Rep/Geo. Herb Diene	;}	7 11 7	Rig <u>\$0</u>	uthai	'nd #	/
Location: Sec Twp	5 Rge	190	_co. <u>E</u> /	1:5	State(	15
Interval Tested 36 79 - 370	' <del></del>	ne Tested	/pac/	(10		
Anchor Length 25	/ Dril	l Pipe Run	3672	2	Mud Wt. 9.0	1
Top Packer Depth 36743	674 Dril	l Collars Run			Vis	
Bottom Packer Depth 36 79	Wt.	Pipe Run			WL	<u> </u>
Total Depth <u>3704</u>	Chl	orides $4/1$	aa j	ppm System	LCM Z	
Blow Description $FF - gu/fac$	e blow	buil	t to 1)	ob in	$24 \mu i \Lambda$	
FI - Built to 8x						
F9I- 140 6/00 1000	K					
Rec 120 Feet of Oil CUT	Mud		%gas	ld ‰il	%water	90 %mud
Rec 180 Feet of Cad954 0	<u> </u>			95%oil	%water	%mud
Rec Feet of <u>320</u>	Gif	10	<i>10</i> %gas	%oil	%water	%mud
Rec Feet of			%gas	%oil	%water	%mud
Rec Feet of			%gas	%oil	%water	%mud
Rec Total BHT	Gravity	29	API RW	@°F	Chlorides	ppm
(A) Initial Hydrostatic 1903	<b>A</b> Tes	t1200		T-On Lo	ocation 21.0	0
(B) First Initial Flow 44	' Jars	s		T-Starte	ed <b>@</b> 21:9	58
(C) First Final Flow <u>57</u>		ety Joint		T-Open	01:05	
(D) Initial Shut-In 1081		Sub		T-Pulle	03:35	<del></del>
(E) Second Initial Flow	D Hou	urly Standby		T-Out _		
(F) Second Final Flow		age	1	<b>Comm</b> o	ents	
(G) Final Shut-In 1020	•	npler	,			
(H) Final Hydrostatic 1828		•				
					ned Shale Packer_	
Initial Open 3 0				<b></b>	ned Packer	
Initial Shut-In 45				- LA	ra Copies tal <sup>0</sup>	
Final Flow						
Final Shut-In 4 9		•				<del></del>
		essibility tal1215			ST Disc't N <i>cel</i> Stoa	<u> </u>
Approved By	Jub 101		Representativo	Kerimi		<b>7</b>
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