KOLAR Document ID: 1417986

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: Si	ate:+ Zip:+	Feet from
Contact Person:		Footages Calculated from Nearest Outside Section Corner:
Phone: ()		NE NW SE SW
CONTRACTOR: License #		ai o Location. Lat, Long
Name:		(e.g. xx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:		
Purchaser:		
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 ☐ OG	☐ EOR	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)		Amount of Surface Pipe Set and Cemented at: Feet
	e, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well In	o 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. ☐ Plug Back ☐ Liner	Conv. to EOR Conv. to SWI	
I lug back Lillei		
Commingled	Permit #:	
Dual Completion	Permit #:	Dewatering method used:
SWD	Permit #:	Location of fluid disposal if hauled offsite:
☐ EOR	Permit #:	Operator Name:
GSW	Permit #:	
		Lease Name: License #:
Spud Date or Date Rea	ached TD Completion Date or	QuarterSec TwpS. R East West
Recompletion Date	Recompletion Date	County: Permit #:
necompletion Date	Hecompletion 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: 1417986

#### Page Two

Operator Name:					Lease Nam	ne:			Well #:		
Sec Tw	pS. F	R [	East	West	County:						
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery,  Digital electronic log	
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample	
Samples Sent to Geological Survey Yes No								Datum			
Cores Taken Electric Log Run Geologist Report / Mud Logs List All E. Logs Run:				es No es No es No							
			Repo		RECORD [	Nev	w Used rmediate, producti	on. etc.			
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
				ADDITIONAL	OF MENTING /						
Purpose:	[	Depth	Typo		# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives		
Perforate Protect Ca Plug Back	Top	Bottom	Type of Cement		# Sacks Use	" odore esec		туре а			
Plug Off Z											
Did you perform     Does the volum     Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,	
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)			
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity	
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity	
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:	
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom	
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)			
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record	
TUBING RECOR	D: Size:		Set At:		Packer At:						

Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	UNREIN 1
Doc ID	1417986

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	1106	SMD	1/4# flo- seal, 3% cc, 2% gel

**OPERATOR** 

Company: TDI, INC

Address: 1310 BISON ROAD

HAYS, KANSAS 67601-9696

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

Location: NW SE SE SE, SEC.29-TWP14S-RGE17W

API: 15-051-26,920-00-00

Pool: WILDCAT Field: UNNAMED State: KANSAS Country: USA



Scale 1:240 Imperial

Well Name: UNREIN # 1

Surface Location: NW SE SE SE, SEC.29-TWP14S-RGE17W

Bottom Location:

API: 15-051-26,920-00-00

License Number: 4767

Spud Date: 7/20/2018 Time: 5:00 PM

Region: ELLIS COUNTY

Drilling Completed: 7/26/2018 Time: 7:43 PM

Surface Coordinates: 625' FSL & 565' FEL

**Bottom Hole Coordinates:** 

Ground Elevation: 1926.00ft K.B. Elevation: 1936.00ft

Logged Interval: 2800.00ft To: 3550.00ft

Total Depth: 3550.00ft

Formation: CONGLOMERATE/ARBUCKLE
Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

#### **SURFACE CO-ORDINATES**

Well Type: Vertical
Longitude: -99.2277252
Latitude: 38.8003456
N/S Co-ord: 625' FSL
E/W Co-ord: 565' FEL

### **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 #: 8

Rig Type: MUD ROTARY

Spud Date: 7/20/2018 Time: 5:00 PM
TD Date: 7/26/2018 Time: 7:43 PM

Rig Release: 7/27/2018 Time: 10:30 AM

#### **ELEVATIONS**

K.B. Elevation: 1936.00ft Ground Elevation: 1926.00ft

K.B. to Ground: 10.00ft

#### **NOTES**

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF DST # 1 AND LOG ANALYSIS.

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG.

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

UNR	EIN # 1	MILLER-LEIKER #1-28	<b>LEIKER #1-32</b>
NW:	SE SE SE	NE NE SW NW	<b>SW SE NE NE</b>
SEC.	29-14S-17W	SEC.28-14-17W	SEC.32-145-17W
1936	'KB	KB 1965'	KB 1934'
	LOG TOPS		
Anhydrite top	1103 +833	+ 842	+ 837
Anhydrite base	1140 +796	+ 803	+ 801
Topeka	2948-1012	-1004	-1009
Heebner Sh.	3169-1233	-1227	-1232
Toronto	3189-1253	-1246	-1251
LKC	3216-1280	-1273	-1279
ВКС	3444-1508	-1499	-1508
Arbuckle	<b>NOT REACHED</b>	-1525	-1552
RTD	3550-1614	-1630	-1656

#### **SUMMARY OF DAILY ACTIVITY**

7-20-18	RU, spud 5:00 PM, drilling
7-21-18	865', drill to 1107', set 8 5/8" surface casing to 1106' w/ 375 sxs
	SMD, slope ¾ degree, plug down 9:15 PM, WOC
7-22-18	1107', WOC, drill plug at 9:15 AM
7-23-18	1914', drilling
7-24-18	2505', drilling, displaced 2676' to 2726'
7-25-18	3125', drilling, CFS 3200', short trip 15 stands, CFS 3255', CFS
	3325',TOWB, DST # 1 3228' to 3325' "C" to "G", slope 1 degree
7-26-18	3333' finish DST # 1, TIWB, CFS 3485', CFS 3495', RTD 3550'
	@7:43PM, CCH, TOWB, logs
7-27-18	3550', LDDP, plug and abandon well



TDI, Inc.

29-14S-17W Ellis, KS

1310 Bison Rd.

Unrein #1

Hays, KS 67601

Job Ticket: 63133

ATTN: Herb Deines

ft (KB)

Test Start: 2018.07.25 @ 22:40:00

#### GENERAL INFORMATION:

LKC "C-G" Formation:

Time Tool Opened: 00:52:30

Time Test Ended: 04:26:30

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

Tester: Brannan Lonsdale

> Unit No: 73

3228.00 ft (KB) To 3325.00 ft (KB) (TVD)

Total Depth: 3325.00 ft (KB) (TVD) Reference Bevations: 1936.00 ft (KB)

KB to GR/CF:

1926.00 ft (CF) 10.00 ft

Hole Diameter: 7.88 inchesHole Condition: Fair

Serial #: 6753 Outside

Press@RunDepth:

25.64 psig @ 3229.00 ft (KB) Capacity:

DST#: 1

2018.07.25

2018.07.26

Start Date:

Last Calib.:

8000.00 psig

22:40:05

End Date:

Time On Btm:

2018.07.26

Start Time:

End Time:

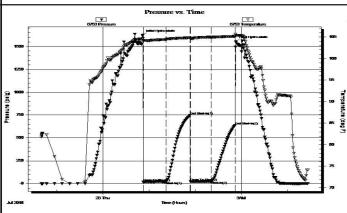
04:26:29

Time Off Btm:

2018.07.26 @ 00:52:00 2018.07.26 @ 02:53:00

TEST COMMENT: 30- IF- Slow ly built to 1"

30- ISI- No blow 30- FF- No blow 30- FSI- No blow

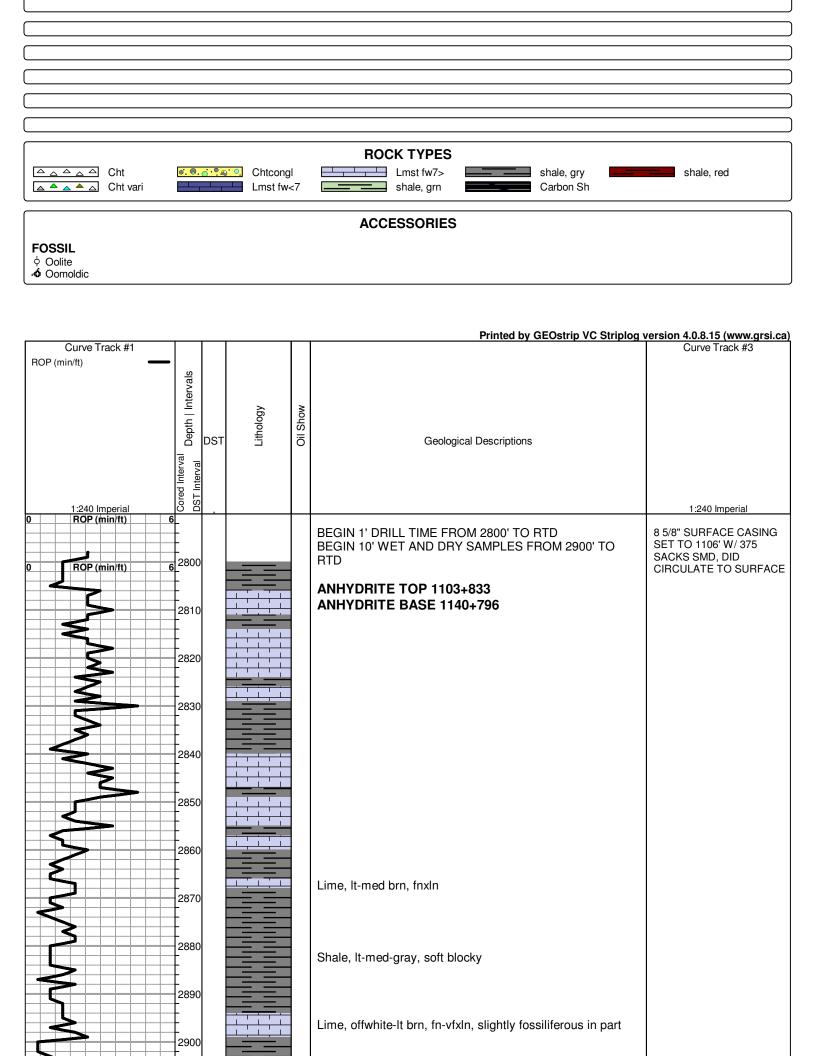


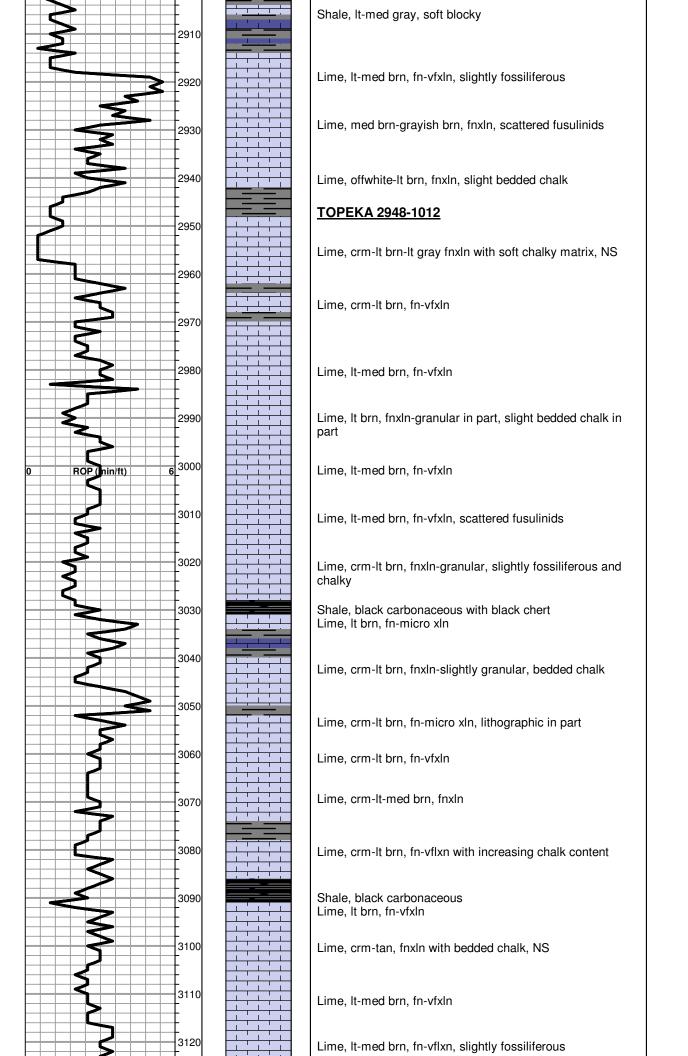
	PRESSURE SUMMARY									
1	Time	Pressure	Temp	Annotation						
6	(Min.)	(psig)	(deg F)							
	0	1623.37	104.60	Initial Hydro-static						
•	1	17.11	104.21	Open To Flow (1)						
2	30	21.70	104.45	Shut-ln(1)						
٦.	62	746.76	104.83	End Shut-In(1)						
Temperature	62	23.64	104.65	Open To Flow (2)						
Tetura	89	25.64	104.98	Shut-In(2)						
(deg F)	120	638.05	105.15	End Shut-In(2)						
J	121	1552.73	105.39	Final Hydro-static						
Č.										
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8										
ä										

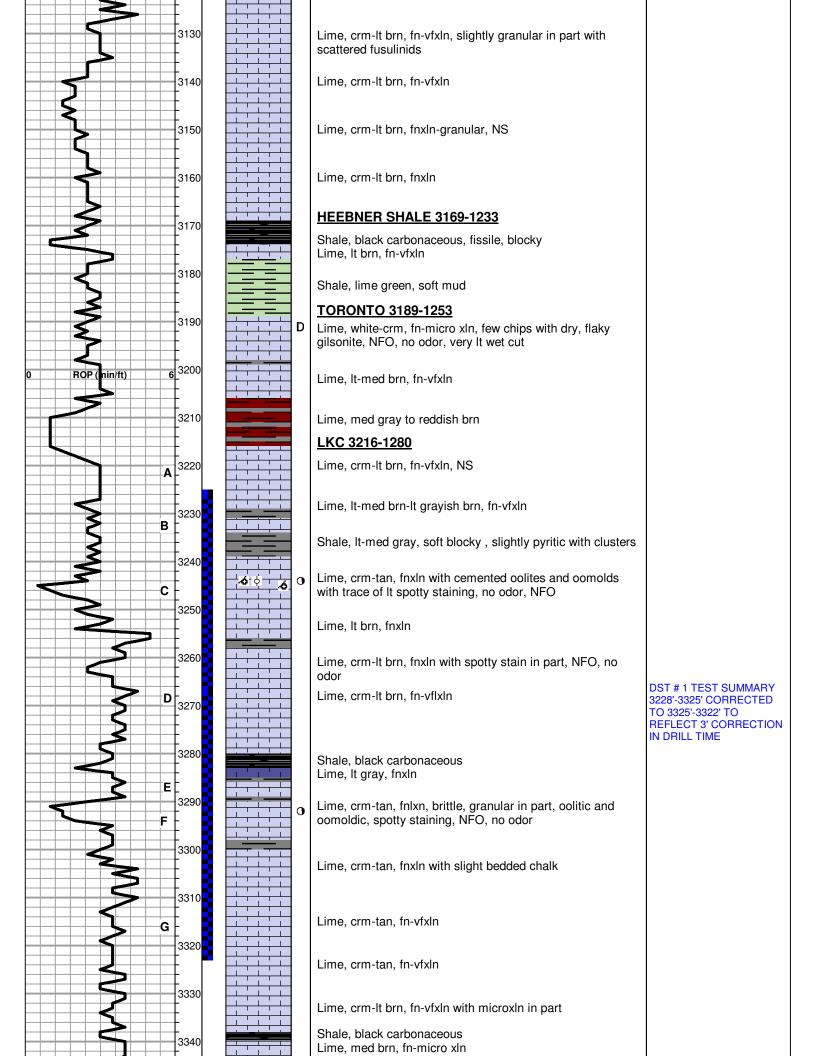
Volume (bbl)
0.28

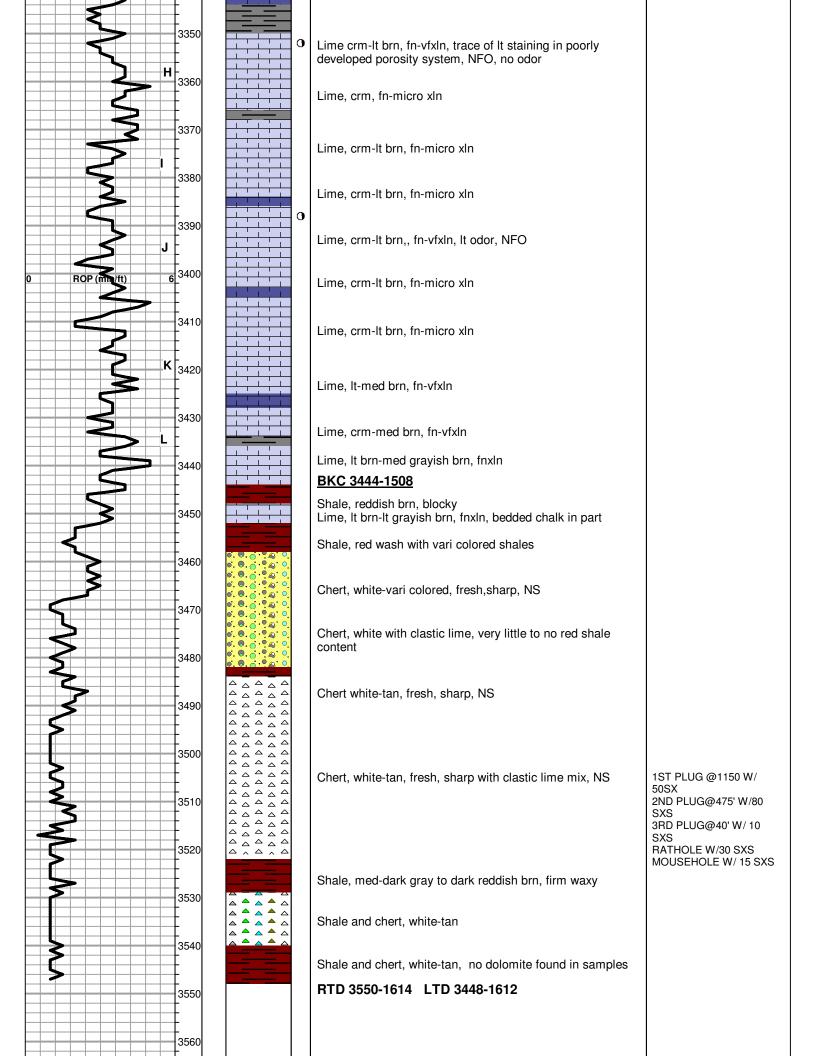
Gas Ra	les	
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 63133 Printed: 2018.07.26 @ 06:58:39









PAGE NO. SWIFT Services, Inc. 2190118 JOB LOG JOB TYPE COMENT DOUP SWIJORE TICKET NO. 31566 WELL NO. LEASE Unpein CUSTOMER DESCRIPTION OF OPERATION AND MATERIALS **PUMPS** PRESSURE (PSI) RATE (BPM) CHART TIME (BBL) (GAL) TUBING NO. 375 sk SW cenent w/ 4 flocale \$ \$ x 23 \* Casing TD 107 Bayle pto 1063'
Centrolize 1, 3, 13 25 jts onloc TRX 114 1500 start 85g 23th casing in well 1715 circulate well 10745 purp 20 bbl RCL flush 20 200 Mix 5MD cenet 1858 @ 12 ppg 13.5 ppg 200 375th total 200 2047 200 Displace plug 2052 6 And plug (9:1574) + 2115 2120 job complete 2150 Brine Flig & presell

# GLOBAL OIL FIELD SERVICES, LLC

REMIT TO 24 S. Lincoln Russell, KS 6766	65	SE TRANSPORTER	SERVICE POINT: Russell 45				
DATE 7-7-16 SEC. 9 TWP.	RANGE 17 W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH		
LEASE / WELL#.	LOCATION 2	11999	15 will to	COUNTY	STATE		
OLD OR NEW (CIRCLE ONE)	960 08	Tright of the second	Joby Orline 1. For pr Tull and void If the C	es los incentración	f silw beinerg sire		
CONTRACTOR Southwind Drit	les Ric 118	OWNER	707	IN			
TYPE OF JOB ROLLING	) / > )	LIPPA OF EQUIPMENTS		A NEW YORK OF THE	o armor anii qir goini		
HOLE SIZE CASING SIZE	T.D. 3550	CEMENT	184	5-11/20	(n P)-		
TUBING SIZE	DEPTH DEPTH	AMOUNT OR	4 1	15 X 100	170100		
DRILL PIPE	DEPTH	4/268	1 Aprend	+ lov 5801 /			
TOOL	DEPTH	ABINO/LUO or	regretting done betor	p orti di becció	id by GOS shall ba		
PRES. MAX	MINIMUM	COMMON		@			
MEAS. LINE	SHOE JOINT	POZMIX	dunanté el denoceaux	@	J : SSECRATO DA		
CEMENT LEFT IN CSG.		GEL	outone aris amonto	@	osal to toog to eau		
PERFS	nohim on an icon fan	CHLORIDE _		@			
DISPLACEMENT		ASC		. @	Halvo:		
EQUIPMENT		AOTRI IO <del>Inc. I della Colonia</del>		@	_		
PUMP TRUCK CEMENTER Code	Annualization and subtra-	Uzon a sa estar varioni	a nontribute la caracter de la carac	@			
PUMP TRUCK CEMENTER COOL  # HELPER		***************************************		@	Carlotter to Tool		
BULK TRUCK	PO ES SESTO IDENTIFICADOS	togridag Quality to thost ea		@	TANKS HINE		
# 409 DRIVER TON	bag	VOUS TOINER DUCKET	which is proceed by	@			
BULK TRUCK		The second secon		@			
# DRIVER			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	@	MOLTENIOS SON		
	es many uncertain and se	HANDLING_	Bruan égantal ya	@	OS, carries puello l		
	g an mon griune agames	MILEAGE	o (Pagero or asing)	U TOT BYCKE BOX	a Jene Sue), lotig		
REMARKS:				TOTAL	enokuo leelonsi		
1150' 505Y							
11:30 363X	leha enemeh no aani vious			DOG TOT TO VARIETE	aq ar epameru		
475 4051	accordance with this contr	ni ezibnertasan to prin	SEI	RVICE	aming ange at Olio diku rejtoggi		
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13 x x per prog		PUMP TRUCK			o yme of teaches di		
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Mary 155V		MANIFOLD	OP to eanapilean	@	Ten anamakan		
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CHARGE TO:	VC			TOTAL	,		
manage data at the second	CID CONTROL OF CASE OF						
CITYSTATE	ZIP		PLUG & FLOA	AT EQUIPMEN	NT		
Global Oil Field Services, LLC		The season visa from			L 84 2 Ft L. Sylbala		
You are hereby requested to rent cer	menting equipment and	dika uhampa ulaa kas a		@			
furnish cementer and helper(s) to assis	t owner or contractor to	Berbie Die Berbie Berbare		@			
do work as is listed. The above work	was done to satisfaction	ro armidenta elementore e	. Rostob will begun	@	ranerica sulla		
and supervision of owner agent or cor	ntractor. I have read and			@	vilsoffbans en		
understand the "GENERAL TERMS	AND CONDITIONS"	variantly by GOS of the	e construed as a v		ist of printeld		
listed on the reverse side.	0		d under this contra	TOTAL	bacu-selboardma		
one to parenti les se notemble le	1/			s contrast shall t	id ni politicki d		
PRINTED NAME	1 //	SALES TAX (If	Any)_	(ests, moler rea			
SIGNATURE I Jellearn	James (m)	TOTAL CHARC		edurada 12 Cayas Abata	Nooni to yearubosi en acksonatal atra		
a as do on the room and	ting GUSTOMER or his ag	DISCOUNT		GOS shall be	F PAID IN 30 DAYS		
		220000111		A			



Prepared For: TDI, Inc.

1310 Bison Rd. Hays, KS 67601

ATTN: Herb Deines

#### Unrein #1

# 29-14S-17W Ellis,KS

Start Date: 2018.07.25 @ 22:40:00 End Date: 2018.07.26 @ 04:26:30 Job Ticket #: 63133 DST #: 1

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601

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

Printed: 2018.07.27 @ 10:26:18



TDI, Inc.

29-14S-17W Ellis, KS

1310 Bison Rd. Hays, KS 67601 Unrein #1

Job Ticket: 63133

DST#: 1

ATTN: Herb Deines

Test Start: 2018.07.25 @ 22:40:00

#### **GENERAL INFORMATION:**

Formation: LKC "C-G"

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

Time Tool Opened: 00:52:30 Time Test Ended: 04:26:30

Unit No: 73

Interval: 3228.00 ft (KB) To 3325.00 ft (KB) (TVD)

Reference Elevations:

1936.00 ft (KB) 1926.00 ft (CF)

Total Depth: 3325.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

2018.07.26 @ 02:53:00

Serial #: 6753 Press@RunDepth: Outside

25.64 psig @

3229.00 ft (KB)

Capacity: Last Calib.:

Time Off Btm:

8000.00 psig

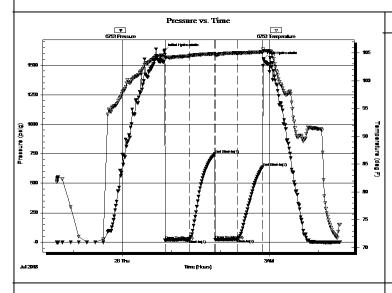
Start Date: Start Time: 2018.07.25 22:40:05

End Date: End Time: 2018.07.26 04:26:29

2018.07.26 Time On Btm: 2018.07.26 @ 00:52:00

TEST COMMENT: 30- IF- Slow ly built to 1"

30- ISI- No blow 30- FF- No blow 30- FSI- No blow



## PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1623.37	104.60	Initial Hydro-static
1	17.11	104.21	Open To Flow (1)
30	21.70	104.45	Shut-In(1)
62	746.76	104.83	End Shut-In(1)
62	23.64	104.65	Open To Flow (2)
89	25.64	104.98	Shut-In(2)
120	638.05	105.15	End Shut-In(2)
121	1552.73	105.39	Final Hydro-static

#### Recovery

0.28
0.20

#### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 63133 Printed: 2018.07.27 @ 10:26:18



TDI, Inc. 29-14S-17W Ellis, KS

1310 Bison Rd. Unrein #1

Hays, KS 67601 Job Ticket: 63133 DST#: 1

ATTN: Herb Deines Test Start: 2018.07.25 @ 22:40:00

#### GENERAL INFORMATION:

LKC "C-G" Formation:

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

Time Tool Opened: 00:52:30 Tester: Brannan Lonsdale 73

Time Test Ended: 04:26:30 Unit No:

Interval: 3228.00 ft (KB) To 3325.00 ft (KB) (TVD) Reference Elevations: 1936.00 ft (KB)

Total Depth: 3325.00 ft (KB) (TVD) 1926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 6771 Inside

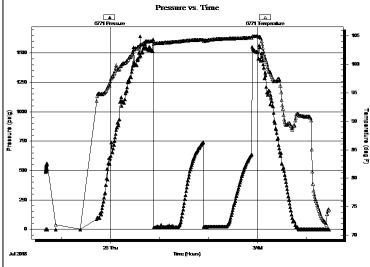
Press@RunDepth: 3229.00 ft (KB) Capacity: 8000.00 psig psig @

Start Date: 2018.07.25 End Date: 2018.07.26 Last Calib.: 2018.07.26

Start Time: 22:40:17 End Time: 04:26:52 Time On Btm: Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 1"

30- ISI- No blow 30- FF- No blow 30- FSI- No blow



Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
1				
Temperature (dec F)				
, (4)				
3				

PRESSURE SUMMARY

#### Recovery

Length (ft)	Description	Volume (bbl)
20.00	М	0.28

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

Trilobite Testing, Inc. Ref. No: 63133 Printed: 2018.07.27 @ 10:26:19



**TOOL DIAGRAM** 

TDI, Inc.

29-14S-17W Ellis, KS

1310 Bison Rd.

Unrein #1

Job Ticket: 63133

Hays, KS 67601

ATTN: Herb Deines

Test Start: 2018.07.25 @ 22:40:00

**Tool Information** 

Drill Collar:

Drill Pipe: Length: 3242.00 ft Diameter: Heavy Wt. Pipe: Length: ft Diameter: 3.82 inches Volume: inches Volume:

2.25 inches Volume:

45.96 bbl - bbl 0.00 bbl Tool Weight: 2000.00 lb Weight set on Packer: 25000.00 lb

Weight to Pull Loose: 55000.00 lb

DST#: 1

Drill Pipe Above KB: 34.00 ft

Length:

0.00 ft Diameter:

Total Volume: - bbl

Tool Chased 0.00 ft String Weight: Initial 47000.00 lb

Final 47000.00 lb

Depth to Top Packer: 3228.00 ft

Depth to Bottom Packer: ft Interval between Packers: 97.00 ft Tool Length: 117.00 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			3209.00		
Shut In Tool	5.00			3214.00		
Hydraulic tool	5.00			3219.00		
Packer	5.00			3224.00	20.00	Bottom Of Top Packer
Packer	4.00			3228.00		
Stubb	1.00			3229.00		
Recorder	0.00	6771	Inside	3229.00		
Recorder	0.00	6753	Outside	3229.00		
Perforations	28.00			3257.00		
Change Over Sub	1.00			3258.00		
Drill Pipe	63.00			3321.00		
Change Over Sub	1.00			3322.00		
Bullnose	3.00			3325.00	97.00	Bottom Packers & Anchor

Total Tool Length: 117.00

Printed: 2018.07.27 @ 10:26:19 Trilobite Testing, Inc Ref. No: 63133



**FLUID SUMMARY** 

TDI, Inc.

29-14S-17W Ellis, KS

1310 Bison Rd. Hays, KS 67601 Unrein #1

Job Ticket: 63133

Serial #:

DST#: 1

ATTN: Herb Deines

Test Start: 2018.07.25 @ 22:40:00

#### **Mud and Cushion Information**

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

Viscosity: 59.00 sec/qt Cushion Volume: bbl

6.39 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5900.00 ppm Filter Cake: inches

Water Loss:

# Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl	
20.00	M	0.284	

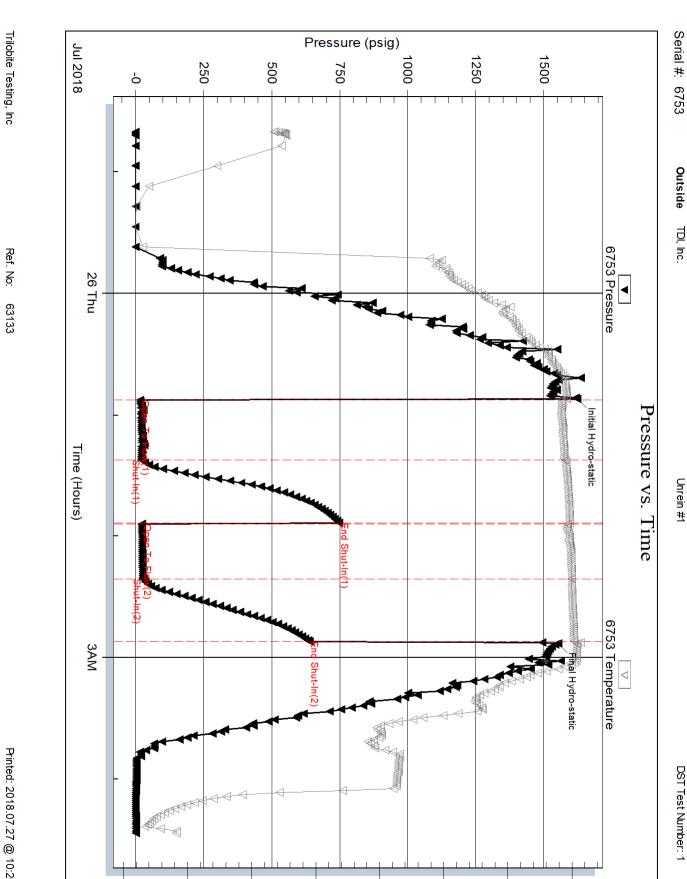
Total Length: 20.00 ft Total Volume: 0.284 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

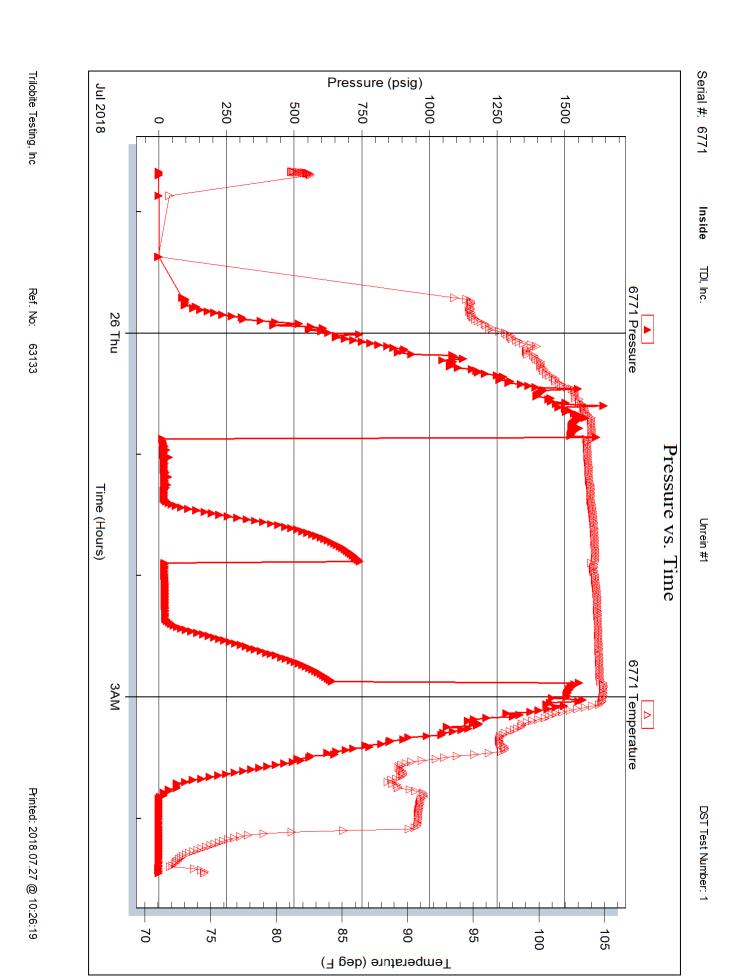
Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 63133 Printed: 2018.07.27 @ 10:26:19



Temperature (deg F)





# RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

# **Test Ticket**

NO.

63133

4/10 'RTINETTH'					
Well Name & No. Unpen I		Test No	1	ate 7/25	/18
Company TDI, Inc.		Elevation			926GL
Address 1310 Blson, Bl. Hays,	KS 67601				
Co. Rep/Geo. Herb Deinos		Rig Sout	hwand t	18	
Location: Sec. 29 Twp. 14 9	8 Rge. 17 W	Co		5_State	5
Interval Tested 3228-3325	Zone Tested LK	C"C-G"			
Anchor Length 97	Drill Pipe Run			d Wt	9.0
Top Packer Depth 3223	Drill Collars Run		Vis		59
Bottom Packer Depth 3228	Wt. Pipe Run	-	WL		6.4
Total Depth 3325	Chlorides	5,900ppm	System LC	М	2#
Blow Description IF - Souly built -	101"	U	1		
751 - No How	**************************************				
PF-No How					
FSI- No blow		F100 Pm - 2			
Rec 20 Feet of M		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
Rec Total 20 BHT 105°	A	PI RW	E F C	hlorides	ppm
(A) Initial Hydrostatic .1623	<b>№</b> Test 1050		T-On Locat	tion	2225
(B) First Initial Flow 17	☐ Jars		T-Started _		2240
(C) First Final Flow 22	☐ Safety Joint	700	T-Open		0052
(D) Initial Shut-In 247	☐ Circ Sub	644,015.00	T-Pulled	(	5252
(E) Second Initial Flow 24	☐ Hourly Standby		T-Out	_ / /	3421
(F) Second Final Flow26	X Mileage 16 B	1 16 16	Comments 7/2.7	TEXS (0	adecl
(G) Final Shut-In 638	☐ Sampler_			0243	100
(H) Final Hydrostatic 1553	☐ Straddle		· ·	Chala Dankar	
4	☐ Shale Packer		and Fidinise	Shale Packer	
Initial Open	☐ Extra Packer			Packer	
Initial Shut-In30	□ Extra Recorder			Copies	
Final Flow 30	☐ Day Standby		1 0	8.2	7
Final Shut-In 30	Accessibility			Disc't	
	Sub Total 1082		_ WIF/DST	DISC (	A
Approved By		Representative			
		Sandan Control of the	-1-1-		
	()·	rannan L	onsague		