KOLAR Document ID: 1485773

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

Name:	
Feet from North / South Li	
City: State: Zip:	∃ast
Contact Person:	ne of Section
Phone: () NE NW SE SW CONTRACTOR: License #	ne of Section
CONTRACTOR: License #	
Name:	
Name:	
Wellsite Geologist:	xxx.xxxxx)
Purchaser:	
Designate Type of Completion:	_
New Well Re-Entry Workover Field Name:	
Producing Formation:	
Gas DH EOR	
OG GSW 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? ☐ Yes ☐ No	
If Workover/Re-entry: Old Well Info as follows:	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:	
SWD Permit #: Location of fluid disposal if hauled offsite:	
EOR Permit #:	
GSW Permit #: Operator Name:	
Lease Name: License #:	
Spud Date or Date Reached TD Completion Date or Quarter Sec. Twp. S. R	East West
Recompletion Date Recompletion Date Countv: 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 III Approved by: Date:							

KOLAR Document ID: 1485773

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 Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	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	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia reicent Additives	
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 Mcf	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	Darrah Oil Company, LLC
Well Name	BIRBECK-KELLER UNIT 1
Doc ID	1485773

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	24	320	60/40	325	2% gel, 3% CaCl
Production	6.25	4.5	10.5	3640	Class A		kolseal, NaCl, gypsum

Acid & Cement

POST OFFICE BOX 438 HAYSVILLE, KS 67060 (316) 524-1225 (316) 524-1027 FAX

Invoice

LEASE: BIRBECK KELLER UNIT #1

Page: 1

BURRTON, KS 6 GREAT BEND, KS (620) 463-5161

FAX (620) 463-2104

(620) 793-3366 FAX (620) 793-3536

V56032

INVOICE NUMBER: C60007-IN

BILL TO:

DARRAH OIL COMPANY LLC PO BOX 2786 WICHITA, KS 67202-2786

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE O			ISTRUCTIONS
09/17/2019	60007	09/14/2019 BIRBECK KE			LER UNIT	#1 N	ET 30
QUANTITY	U/M	ITEM NO./DE	ESCRIPTION		D/C	PRICE	EXTENSION
10.00	МІ	MILEAGE PICKL	JP		15.00	2.00	17.00
10.00	МІ	MILEAGE CEME	NT PUMP TRUCK		15.00	4.00	34.00
1.00	EA	PUMP CHARGE	SURFACE		15.00	1,100.00	935.00
325.00	sĸ	60/40 POZ MIX 2	% GEL		15.00	11.25	3,107.81
17.00	sk	CALCIUM CHLO	RIDE		15.00	40.00	578.00
342.00	EA	BULK CHARGE			15.00	1.25	363.38
150.48	МІ	BULK TRUCK - 1	TON MILES		15.00	1.10	140.70
		CK. NO	PAID 74 DATE 11/20/10				
REMIT TO: P.O. BOX HAYSVILI	. 438 LE, KS 67060		COP E IS NOT TAXABLE AND	The state of the s	STF	Net Invoice:	5,175.89 388.19
RECEIVED BY	or .		AND OR DELIVERY CHAI	RGES ONLY.		Invoice Total:	5,564.08



HIELU ORDER Nº C 60007

iciu a	Ceme		316	524-1225		44.0	00 40
					DATE	14-Sep	2019
AUTHORIZED	BY: JOHI	N JAY DARRAH JR.	(NAME O	F CUSTOMER)			
idress			_City		State	·	
TREAT WELL		ECK KELLER UNIT	_Well No.	#1	Customer Order No	·	-
ec. Twp. ange			_County _	STAFFORD	State	KS_	
held liable for any dan stied, and no represent street is payable. The impropring department	rage that may occur ations have been re re will be no discou- in occordance with a ed represents hin	hereof it is agreed that Copoland Acid is to service or to be in cornection with said service or treatment. Copolan stid on, as to what may be the results or effect of the sent allowed subsequent to such date. 6% interest will be latest published price schoolutes. The day of the country such order to be duty sutherized to sign this order for well as the country sutherized to sign this order for well as the country sutherized to sign this order for well as the country sutherized to sign this order for well as the country such order for well as the country such order to sign this order for well as the country such order for well as the cou	d Acid Service h ervicing or troutin charged after 60	es made no representation g azid well. The consider days. Total charges are	on, expressed or ration of said service or subject to correction by		
FORE WORK IS C	OMMENCED .	Well Owner or O	perator		By	Agent	
CODE	QUANTITY		RIPTION		UNIT COST		MOUNT
20.0001	10	Mileage P.U.			\$2.00	T	\$20.00
20.0002		Mileage P.T.			\$4.00		\$40.00
20.0005		Pump Charge Surface			\$1,100.00		\$1,100.00
20.1002		60/40 Poz 2% Gel			\$11.25		\$3,656.25
20.1012	17	Calcium Chloride per 50 lb.			\$40.00		\$680.00
20.0011	342	Bulk Charge	· · · · · · · · · · · · · · · · · · ·		\$1.25		\$427.50
20.0012	150.48	Bulk Truck Miles			\$1.10		\$165.53
		Process License Fee on		Gallo	ns		
<u></u>					BILLING	_1	\$6,089.28
manner unde		terial has been accepted and used; to on, supervision and control of the own GREG C.					^{\$5175.8}
Station GE	3			WILL			
Remarks					Well Owner, Operator or	Agent	

NET 30 DAYS



TREATMENT REPORT

Acid	& Cemen	t 🕰						Acid Stage No).	
				!	Type Treatment:	Amt.	Type Fluid	Sand Size	Pound	ts of Sand
Date 9	9/14/2019	District GB	F.O. 1		Bkdown					
_	JOHN JAY DA									
		K KELLER UNIT	#1			861./Gal.				
Location			Field			861./Gal.				
County	STAFFORD		State KS		Flush	Bbl./Gal.				
					Treated from		ft. to	ft	No. ft.	0
Casing:	Size 8 5/8	3 Type & Wt.		Set at ft.			ft. to		No. ft.	
Formation			Perf.		from		_ft. to	ft.	No. ft.	0
Formation										
			Perf		Actual Volume of Oil	/ Water to Load H	ole:			Bbt./Gal.
Formation				to						
Liner: Si			•		Pump Trucks. No				Twin _	
			om		Auxiliary Equipment			7-310T		
lubing:					Personnel GREG C	LARENCE MIKI	<u> </u>			-
	Perforated f	rom	<u> </u>		Auxiliary Tools					
	-	-4 -			Plugging or Sealing M	laterials: Type				
Open Hole	Size	T.D	ft. P.	.B. toft.				Gals.		Cb.
Company (Representativo		WILL	·	Troater		GREG	C.		
TIME		SURES	Total Fluid Pumped							
am/pm	Tubing	Casing	Total Fund Fundos			REMARK	,			
7:15				ON LOCATION						
						1				
				RUN 320' OF 8 5	/8 SURFACE I	PIDE	·			
				MOIT DEG - 01 0 5/	O SOM ACE	1112				
		 		PUMP 325 SKS 6	0/40.29/ CEL	20/ CC				
				FUNIT 323 3K3 6	0/40 2% GEL	3% ()				
		 		DICDI A CE MATA						
				DISPLACE WITH:	19.25 BBLS H	20				
	·									
				CEMENT CIRCUL	ATED TO SUR	RFACE				
8:45				JOB COMPLETE						
				THANK YOU!!!						
								· · · · · · · · · · · · · · · · · · ·		
				<u> </u>						
										
										
					· · · · · · · · · · · · · · · · · · ·					
										
						· · · · · · · · · · · · · · · · · · ·				
				· · · · · · · · · · · · · · · · · · ·			·			



Remit To: Hurricane Services, Inc. 250 N. Water, Suite 200 Wichita, KS 67202

316-303-9515

Customer:

DARRAH OIL C/O JOHN JAY DARRAH JR PO BOX 2786 WICHITA, KS 67201-2786 Invoice Date: 9/25/2019
Invoice #: 0344112
Lease Name: Birbeck-Keller
Well #: Unit 1 (New)
County: Stafford
Job Number: ICT2457
District: El Dorado

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Cement pump #265	1.000	1,350.000	1,350.00
Heavy Eq Mileage	5.000	3.600	18.00
Light Eq Mileage	5.000	1.800	9.00
Ton Mileage-Minimum	1.000	270.000	270.00
Casing Swivel	1.000	346.500	346.50
H-CON	150.000	18.900	2,835.00
HSC Blend	40.000	21.600	864.00
Mud flush	500.000	0.900	450.00
4 1/2" Float Shoe AFU-FT	1.000	315.000	315.00
4 1/2" LD Plug & Baffle	1.000	247.500	247.50

Total	6,705.00
i Otai	01.00.0

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.



HURRICANE SERVICES INC

Customer	Darrah Oil Compa	ıny, LLC	Lease & Well #	Birbeck-Keller Uni	it #1			Date	9/2	25/201	9
Service District	El Dorado, KS		County & State	Stafford, KS	Legals S/T/R	2-21s-1	l4w	Job#	IC	T 245	7
Job Type	Longstring	✓PROD	□INJ	□swb	New Well?	√YES	□No	Ticket # ICT 2457		7	
Equipment #	Driver			Job Safety Ana	lysis - A Discuss	ion of Hazards	& Safety Pro	ocedures			
265	Kevin	✓ Hard hat		✓Gloves		Lockout/Tage	out	Warning Signs & Flagging			
240	Mark	✓H2S Monitor		✓ Eye Protection		Required Per	mits	Fall Protection	Fall Protection		
77	Jake H	Safety Footwea	ar	Respiratory Prot	ection	Slip/Trip/Fall	Hazards	Specific Job Se	equence/Expe	ectatio	ns
91	Fuzzy	FRC/Protective	Clothing	Additional Chem	nical/Acid PPE	Overhead Ha	zards	Muster Point/	Medical Local	tions	
		✓ Hearing Protec	tion	Fire Extinguisher			ncerns or is	sues noted below			
					Con	nments					
		-									
Product/ Service					VELTON A 22775 TO 1		59K (11. 15) (4			RIFERR	
Code		Descr	iption		Unit of Measure	Quantity				Net	Amount
c015	Cement Pump				ea	1.00				-	\$1,350.00
m010	Heavy Equipment N	Mileage			mi	5.00					\$18.00
m015	Light Equipment M	ileage			mi	5.00					\$9.00
m025	Ton Mileage- Minin	num			each	1.00					\$270.00

c040	Casing Swivel				job	1.00					\$346.50

cp025	H-Con			~	sack	150.00			\$2,835.00		
cp031	HSC				sack	40.00			\$864.00		
cp170	Mud Flush				gal	500.00					\$450.00
	4.400.51.401										
fe070	4 1/2" Float Shoe -				ea	1.00					\$315.00
fe095	4 1/2" Latch Down	Plug & Barrie			ea	1.00		-			\$247.50
								 			
											
Custo	mer Section: On th	e following scale h	ow would you rate	Hurricane Services	Inc.?				Net:		\$6,705.00
						Total Taxable	\$ -	Tax Rate:		\geq	\leq
Ba				d HSI to a colleague	97	used on new wells	to be sales to	ducts and services ax exempt. Hurricane	Sale Tax:	\$	
						Services relies on information above					
U	Inlikely 1 2	3 4 5	6 7 8	9 10 в	xtremely Likely	services and/or pr			Total:	\$	6,705.00
						HSI Represe	entative:	Jake Hea	ard		
TERMS: Cach in adu	TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved a										sias Dani

due accounts shall pay interest on the balance past due at the rate of 1 %% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is no location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

was Hed



			11						
CEMENT TRE					Y. Carlot				
Customer:	Darran C	Oil Com	pany, LLC Well:	Birbeck-	Keller Unit	#1	Ticket:	ICT 2457	
City, State:			County:	Staf	ford, KS		Date:	9/25/2019	
Field Rep:	Seth E.		S-T-R:	2-2	1s-14w		Service: Longstring		
Downhole I	nformatio	n	Slurry				Ca	ment Blend	
Hole Size:	6.25	in	Weight:	#/s		Р	roduct	% #	
Hole Depth:	3640	ft	Water / Sx:	gal /		Class A			
Casing Size:	4.5	in	Yield:	ft ³ /		Gel			
Casing Depth:	3640.5	ft	Bbls / Ft.:			CaCl			
Intermediate	7	in	Depth:	ft		Metso			
Depth:	1800	ft	Volume:	bbls		KolSea	ı		
Tool / Packer:			Excess:	%	\neg	PhenoS	eal		
Depth:		ft	Total Slurry:	bbls		Salt			
Displacement:	57.88	bbls	Total Sacks:	sx					
								Total -	
TIME RATE	PSI	BBLs	REMARKS	TIME RA	re PSI	BBLs		REMARKS	
			On location safety meeting				Lead Slurry 1	2 PPG 150 sacks	
			Spot in and rig up	-		<u> </u>	Class A cemer	nt, gypsum,gel,cacl,metso,	
			Run casing				phenoseal		
			On bottom break circulation			1			
			Pump ball. Circulate 2 HRS			<u> </u>		3 PPG 40 sacks	
3.5	250.0	5.0	Pump water			 		nt, kolseal, salt, gypsum,	
3.5	250.0	12.0	Mix and pump mudflush		_	 	fluid loss		
2.5	100.0	7.5	Plug rat hole						
3.8	200.0	69.0	Mix and pump lead cement		_	-		14750 - 1 - 000 - 1 (1 - 1 - 1 - 1	
3.6	10.0	11.0	Mix and pump 40 sx tail Pump goes down			 		MATED to be 900+/- feet inside	
			Wash pump and lines		-	-	of 7" intermedi	ate	
			Drop plug		_	 			
3.5	10.0	1.0	Displace			 			
3.5	200.0	23.0	See lift		_	<u> </u>			
2.5	600.0	55.0	Slow rate						
2.5	1,100.0	57.8	Bump plug						
			Release pressure			<u> </u>			
			Wash up truck					***************************************	
	-				1	T			
								A STATE OF THE STA	
	CREW		UNIT				SUMMAR	Y	
Cementer:	Jake	Fuzzy	77 91	A	erage Rate	Avera	ge Pressure	Total Fluid	
Pump Operator:	Kevir		265	3.23	333 bpm	302.22	psi	241.30 bbls	
Bulk #1:	Mark		240						
Bulk #2:									



Darrah Oil Company

2-21s-14w

125 N Market Suite 1425 Wichita KS 67202+1425

Birback-Keller Unit

Job Ticket: 65823

DST#: 1

ATTN: Seth Evenson Test Start: 2019.09.23 @ 03:24:00

GENERAL INFORMATION:

Formation: LKC H-J

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

Time Tool Opened: 06:36:15 Time Test Ended: 10:24:15

Unit No:

Tester:

Benny Mulligan

3445.00 ft (KB) To 3525.00 ft (KB) (TVD)

Reference Elevations:

1924.00 ft (KB) 1919.00 ft (CF)

Total Depth: 3550.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Hole Diameter: 6.88 inches Hole Condition: Fair

Serial #: 6666

Interval:

Start Time:

Inside

psig @

03:24:01

3446.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Press@RunDepth: Start Date: 2019.09.23

End Date: End Time:

2019.09.23 10:24:15

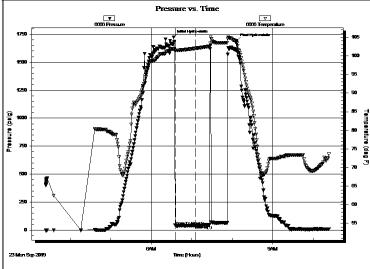
2019.09.23 2019.09.23 @ 06:33:30

Time On Btm: Time Off Btm:

2019.09.23 @ 08:07:00

TEST COMMENT: IF-30- built to 4"

ISI-tool would not close so pulled the test



	PRESSUR			RE SUMMARY
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1723.52	101.89	Initial Hydro-static
	3	38.98	101.47	Open To Flow (1)
	32	41.75	101.99	Shut-In(1)
	94	1691.71	103.63	Final Hydro-static
,				

DDECCLIDE CLIMMADY

Recovery

Description	Volume (bbl)
O.C.M. 15%O 85%M	0.50
	·

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

Trilobite Testing, Inc. Ref. No: 65823 Printed: 2019.09.23 @ 11:16:43



Darrah Oil Company

2-21s-14w

Tester:

125 N Market Suite 1425 Wichita KS 67202+1425

Birback-Keller Unit

Job Ticket: 65823

DST#: 1

ATTN: Seth Evenson

Test Start: 2019.09.23 @ 03:24:00

GENERAL INFORMATION:

Formation: LKC H-J

Deviated: ft (KB) No Whipstock:

Time Tool Opened: 06:36:15

Time Test Ended: 10:24:15

Interval: 3445.00 ft (KB) To 3525.00 ft (KB) (TVD)

Total Depth: 3550.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Benny Mulligan Unit No:

Test Type: Conventional Straddle (Initial)

Reference Elevations: 1924.00 ft (KB)

> 1919.00 ft (CF) KB to GR/CF: 5.00 ft

Serial #: 8874 Outside

Press@RunDepth: 3446.00 ft (KB) Capacity: 8000.00 psig psig @

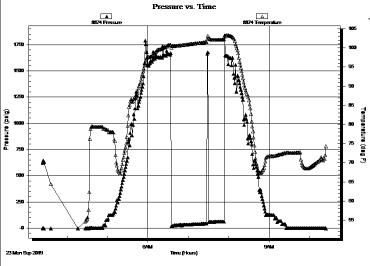
Start Date: 2019.09.23 End Date: 2019.09.23 Last Calib.: 2019.09.23

Start Time: 03:24:01 End Time: Time On Btm: 10:24:06

Time Off Btm:

TEST COMMENT: IF-30- built to 4"

ISI-tool would not close so pulled the test



•	PI	RESSUR	E SUMMARY
Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
	Time (Min.)	Time Pressure	Time Pressure Temp

Recovery

Description	Volume (bbl)
O.C.M. 15%O 85%M	0.50

Gas Rat	es	
Choko (inoboo)	Drocoure (poig)	Coo Roto (Mof/d)

Trilobite Testing, Inc. Ref. No: 65823 Printed: 2019.09.23 @ 11:16:43



FLUID SUMMARY

Darrah Oil Company

2-21s-14w

125 N Market Suite 1425 Wichita KS 67202+1425

Birback-Keller Unit

Job Ticket: 65823

DST#: 1

ATTN: Seth Evenson

Test Start: 2019.09.23 @ 03:24:00

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/galCushion Length:ftViscosity:54.00 sec/qtCushion Volume:bbl

7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1500.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
90.00	O.C.M. 15%O 85%M	0.504

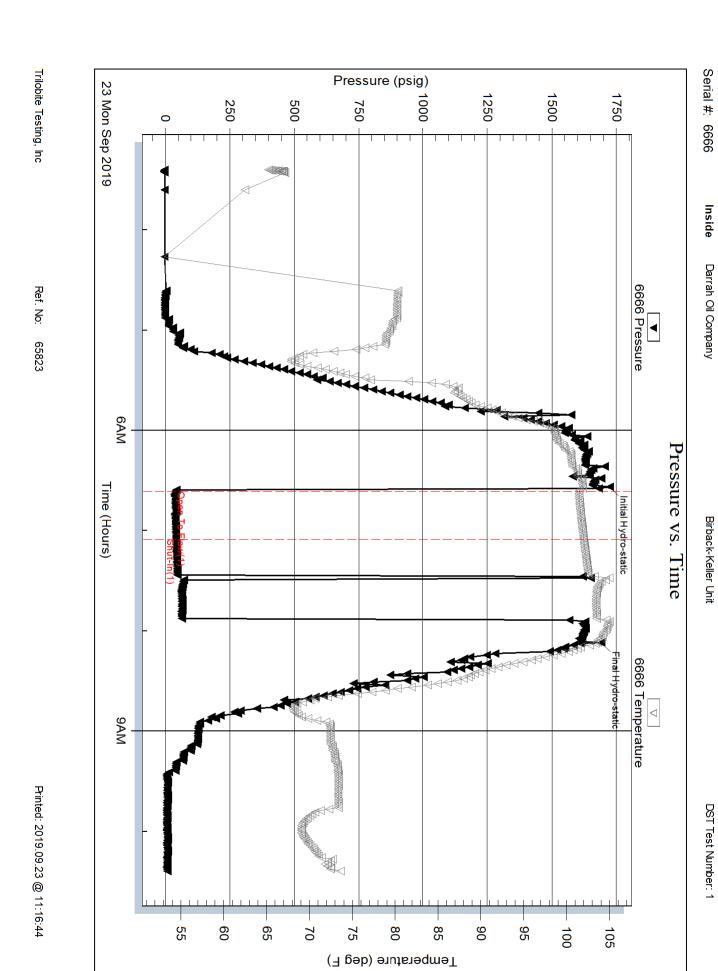
Total Length: 90.00 ft Total Volume: 0.504 bbl

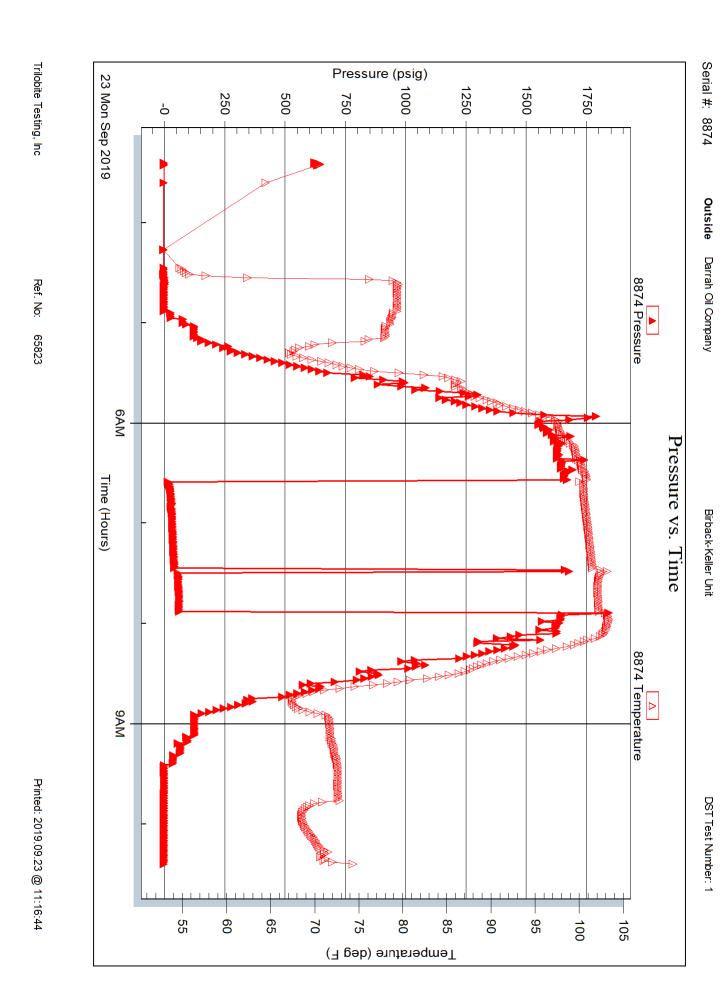
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 65823 Printed: 2019.09.23 @ 11:16:44







Darrah Oil Company

2-21s-14w

125 N Market Suite 1425 Wichita KS 67202+1425

Birback-Keller Unit

Job Ticket: 65824

DST#: 2

ATTN: Seth Evenson

Test Start: 2019.09.23 @ 17:46:00

GENERAL INFORMATION:

Formation: Viola-Simpson

Deviated: Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 20:43:00 Tester: Benny Mulligan

Time Test Ended: 23:40:00 Unit No:

Interval: 3550.00 ft (KB) To 3610.00 ft (KB) (TVD) Reference Elevations: 1924.00 ft (KB)

Total Depth: 3610.00 ft (KB) (TVD) 1919.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

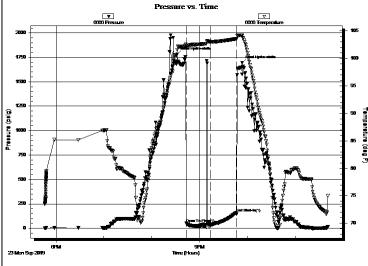
Serial #: 6666 Inside

Press@RunDepth: 3551.00 ft (KB) Capacity: 35.01 psig @ 8000.00 psig

Start Date: 2019.09.23 End Date: 2019.09.23 Last Calib.: 2019.09.23 Start Time: 17:46:01 End Time: 23:40:00 Time On Btm: 2019.09.23 @ 20:31:45 2019.09.23 @ 21:53:00 Time Off Btm:

TEST COMMENT: IF-30- weak surface blow that died 4 mins into the flow

ISI-30- no blow back



		PI	RESSUR	RE SUMMARY
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1782.08	101.58	Initial Hydro-static
	12	50.66	102.29	Open To Flow (1)
	42	35.01	103.02	Shut-In(1)
.	74	159.13	103.56	End Shut-In(1)
	82	1694.79	104.20	Final Hydro-static
ì				
9				

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01

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

Ref. No: 65824 Trilobite Testing, Inc. Printed: 2019.09.24 @ 06:13:23



Darrah Oil Company

2-21s-14w

125 N Market Suite 1425 Wichita KS 67202+1425

Birback-Keller Unit

Job Ticket: 65824

DST#: 2

ATTN: Seth Evenson

Test Start: 2019.09.23 @ 17:46:00

Test Type: Conventional Bottom Hole (Initial)

GENERAL INFORMATION:

Formation: Viola-Simpson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:43:00 Tester: Benny Mulligan

Time Test Ended: 23:40:00 Unit No: 6

Interval: 3550.00 ft (KB) To 3610.00 ft (KB) (TVD) Reference ⊟evations: 1924.00 ft (KB)

Total Depth: 3610.00 ft (KB) (TVD) 1919.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8874 Outside

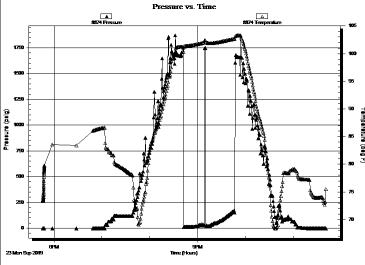
 Press@RunDepth:
 psig
 @
 3551.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2019.09.23 End Date: 2019.09.23 Last Calib.: 2019.09.23

Start Time: 17:46:01 End Time: 23:40:06 Time On Btm: Time Off Btm:

TEST COMMENT: IF-30- weak surface blow that died 4 mins into the flow

ISI-30- no blow back



PRESSURE S	SUMMARY
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	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
7				
Temperature (deg F)				

Recovery

Description	Volume (bbl)
Mud 100%M	0.01
	·

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc Ref. No: 65824 Printed: 2019.09.24 @ 06:13:24



FLUID SUMMARY

Darrah Oil Company

2-21s-14w

125 N Market Suite 1425 Wichita KS 67202+1425

Birback-Keller Unit

Job Ticket: 65824

Serial #:

DST#: 2

ATTN: Seth Evenson

Test Start: 2019.09.23 @ 17:46:00

Mud and Cushion Information

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

Viscosity: 48.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1500.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%M	0.008

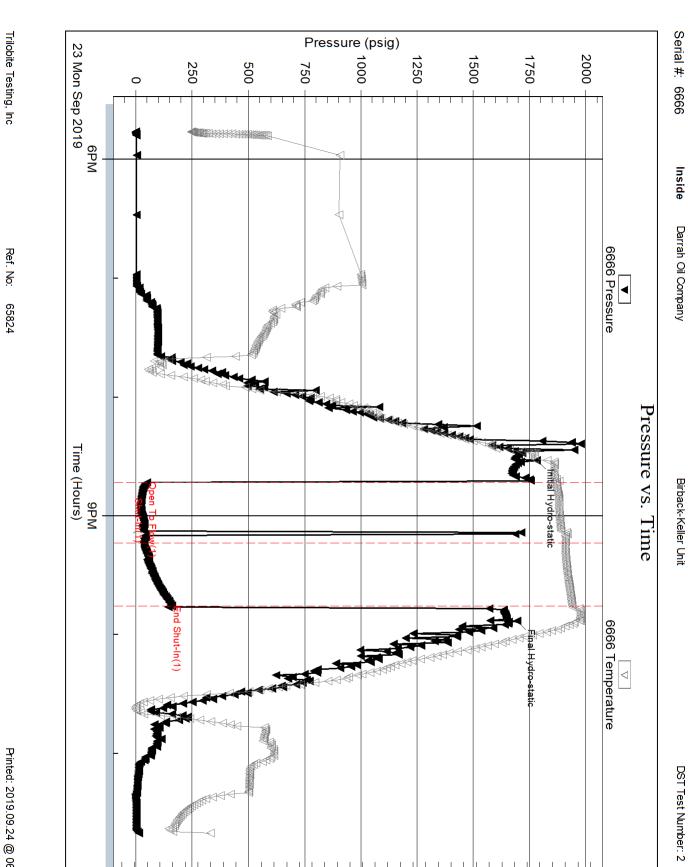
Total Length: 2.00 ft Total Volume: 0.008 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

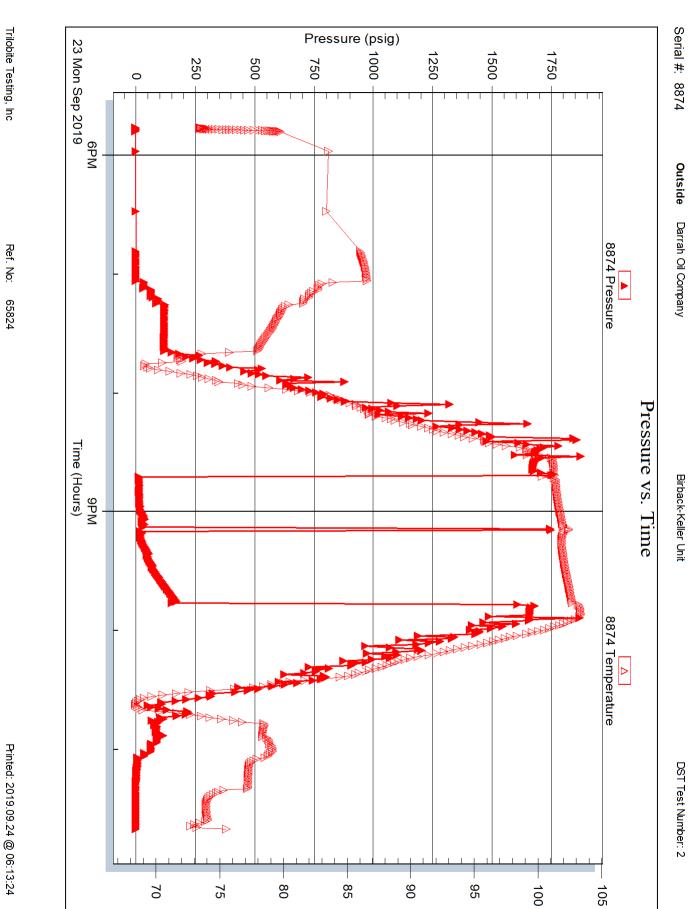
Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 65824 Printed: 2019.09.24 @ 06:13:24



Temperature (deg F)



Temperature (deg F)



Darrah Oil Company

2-21s-14w

125 N Market Suite 1425 Wichita KS 67202+1425

Birback-Keller Unit

Job Ticket: 65825

DST#: 3

ATTN: Seth Evenson

Test Start: 2019.09.24 @ 06:13:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:26:00 Time Test Ended: 13:42:15

Interval:

3550.00 ft (KB) To 3640.00 ft (KB) (TVD)

Total Depth: 3640.00 ft (KB) (TVD)

6.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial) Tester: Benny Mulligan

Unit No: Reference Elevations:

1924.00 ft (KB)

1919.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6666 Inside

Press@RunDepth: 3551.00 ft (KB) 710.93 psig @

Start Date: 2019.09.24 End Date: Start Time: 06:13:01 End Time: 2019.09.24 Last Calib.: 13:42:15

8000.00 psig

Time On Btm:

2019.09.24 2019.09.24 @ 08:18:15

Time Off Btm:

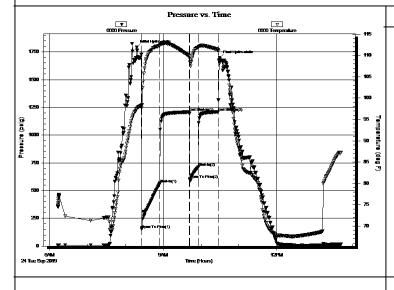
Capacity:

2019.09.24 @ 10:29:45

TEST COMMENT: IF-30- BOB 1min 45secs total build of 172"

ISI-45- 1/4" blow back

FF-15- BOB 2mins total build of 70" FIS-30- weak surface blow back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1789.46	97.49	Initial Hydro-static
8	152.53	97.73	Open To Flow (1)
37	565.56	112.34	Shut-In(1)
83	1208.07	109.88	End Shut-In(1)
84	604.50	109.21	Open To Flow (2)
98	710.93	111.87	Shut-In(2)
129	1207.51	111.32	End Shut-In(2)
132	1696.90	108.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GMCO 10%G 10%M 80%O	0.93
1472.00	GCO 20%G 80%O	14.64
	•	

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 65825 Printed: 2019.09.24 @ 14:20:17



Darrah Oil Company

2-21s-14w

125 N Market Suite 1425 Wichita KS 67202+1425

Birback-Keller Unit

Job Ticket: 65825

DST#: 3

ATTN: Seth Evenson

Test Start: 2019.09.24 @ 06:13:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Time Tool Opened: 08:26:00

Time Test Ended: 13:42:15

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial) Tester: Benny Mulligan

Unit No:

1924.00 ft (KB)

3550.00 ft (KB) To 3640.00 ft (KB) (TVD)

Reference Elevations:

1919.00 ft (CF)

Total Depth: 3640.00 ft (KB) (TVD) Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF:

5.00 ft

Serial #: 8874 Press@RunDepth: Outside

psig @

3551.00 ft (KB)

Capacity: 2019.09.24 Last Calib.: 8000.00 psig

Start Date:

2019.09.24

End Date:

2019.09.24

Start Time:

Interval:

06:13:01

End Time:

13:42:21

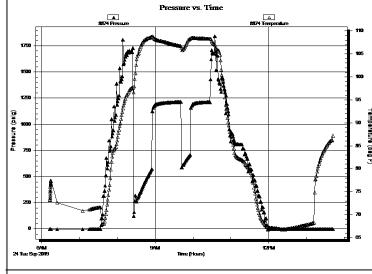
Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- BOB 1min 45secs total build of 172"

ISI-45- 1/4" blow back

FF-15- BOB 2mins total build of 70" FIS-30- weak surface blow back



PRESSURE SUMMARY

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	(101111.)	(psig)	(deg i)	
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2				
Temperatura (dea F)				
-				

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GMCO 10%G 10%M 80%O	0.93
1472.00	GCO 20%G 80%O	14.64
ļ————		

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 65825 Printed: 2019.09.24 @ 14:20:17



FLUID SUMMARY

Darrah Oil Company

2-21s-14w

125 N Market Suite 1425 Wichita KS 67202+1425

Birback-Keller Unit

Job Ticket: 65825

DST#: 3

ATTN: Seth Evenson

Test Start: 2019.09.24 @ 06:13:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:37 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:48.00 sec/qtCushion Volume:bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1500.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	GMCO 10%G 10%M 80%O	0.933
1472.00	GCO 20%G 80%O	14.643

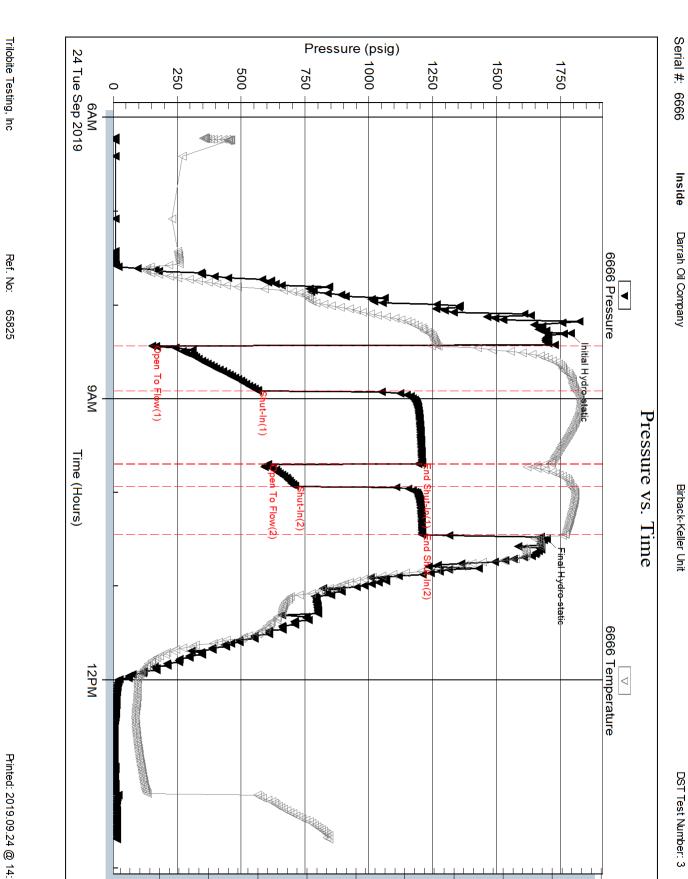
Total Length: 1712.00 ft Total Volume: 15.576 bbl

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

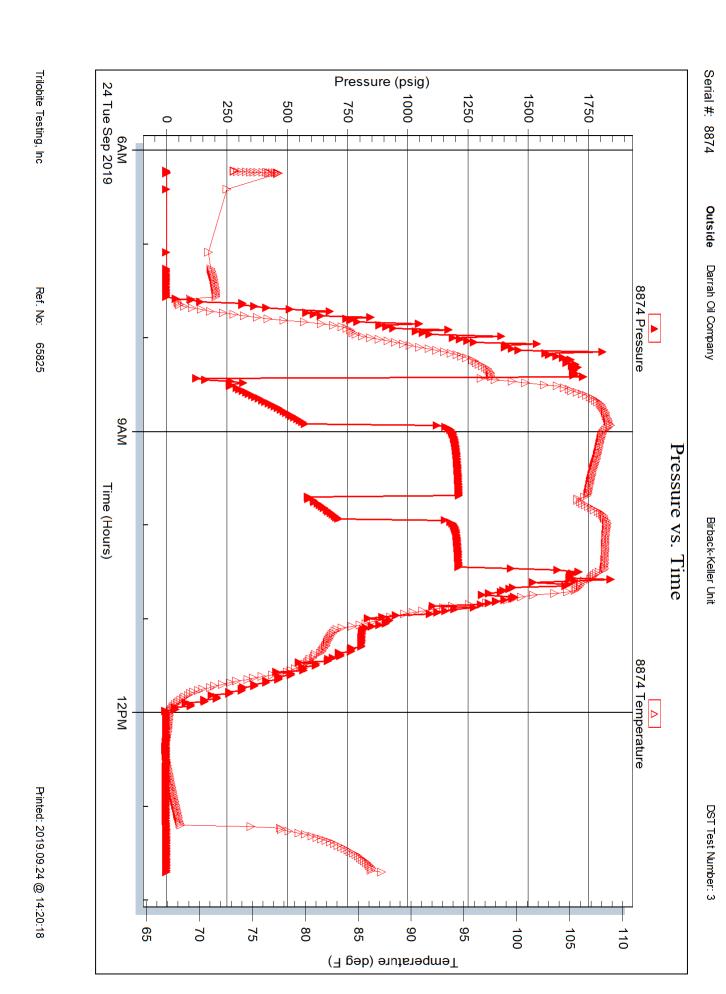
Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 65825 Printed: 2019.09.24 @ 14:20:18

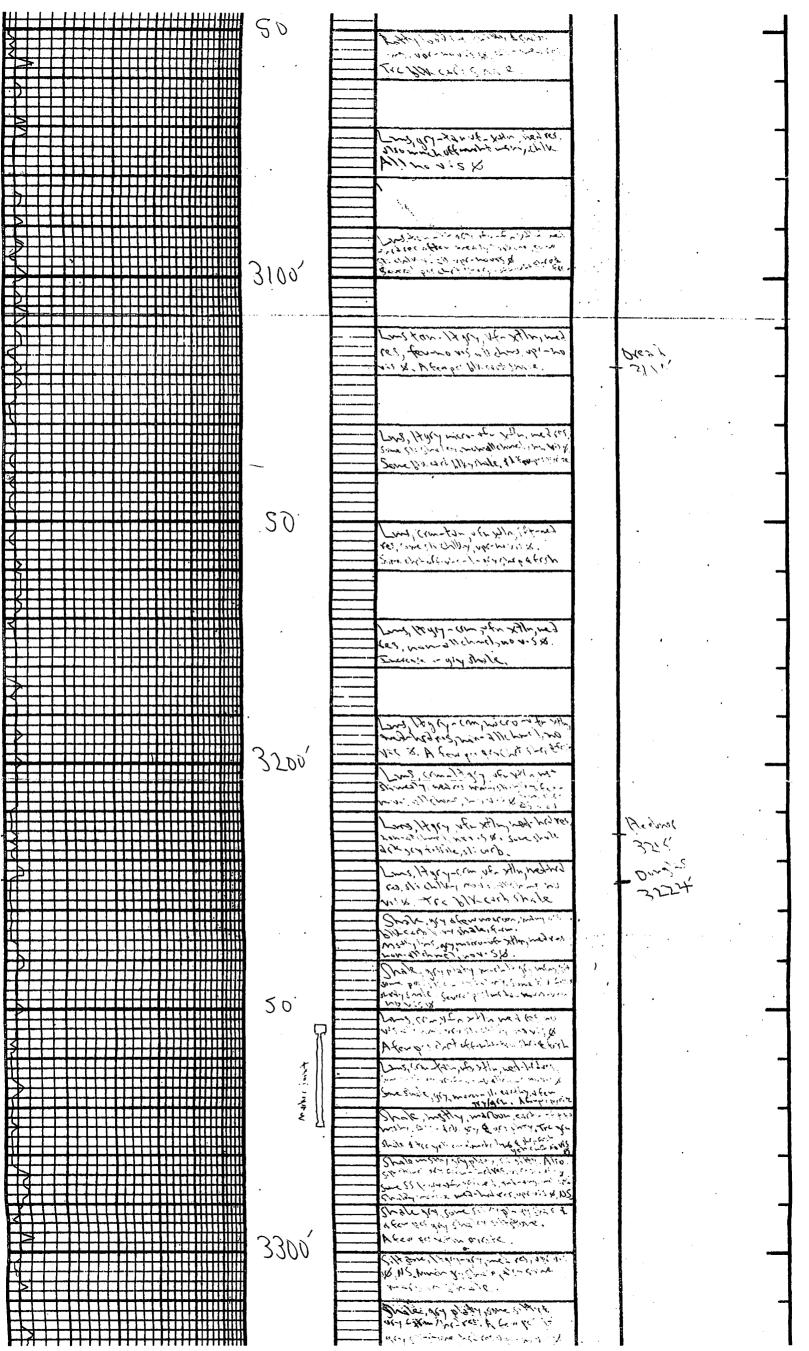


Temperature (deg F)



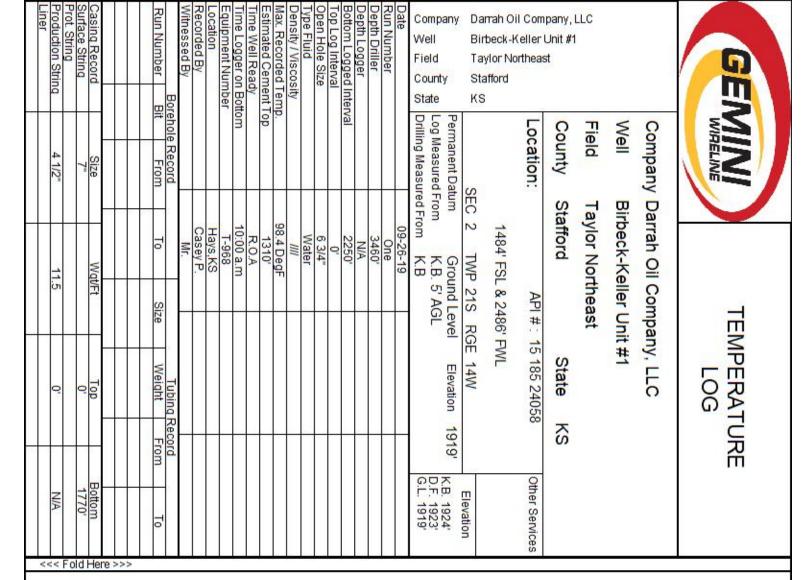
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Great Bend, KS South 8 mi. (1mi past barton/stafford county line) to 200TH St., Then West for 4.5 mi. on 200TH St., North into Location

Thanks for using Gemini Wireline LLC 785-625-1182



MAIN PASS

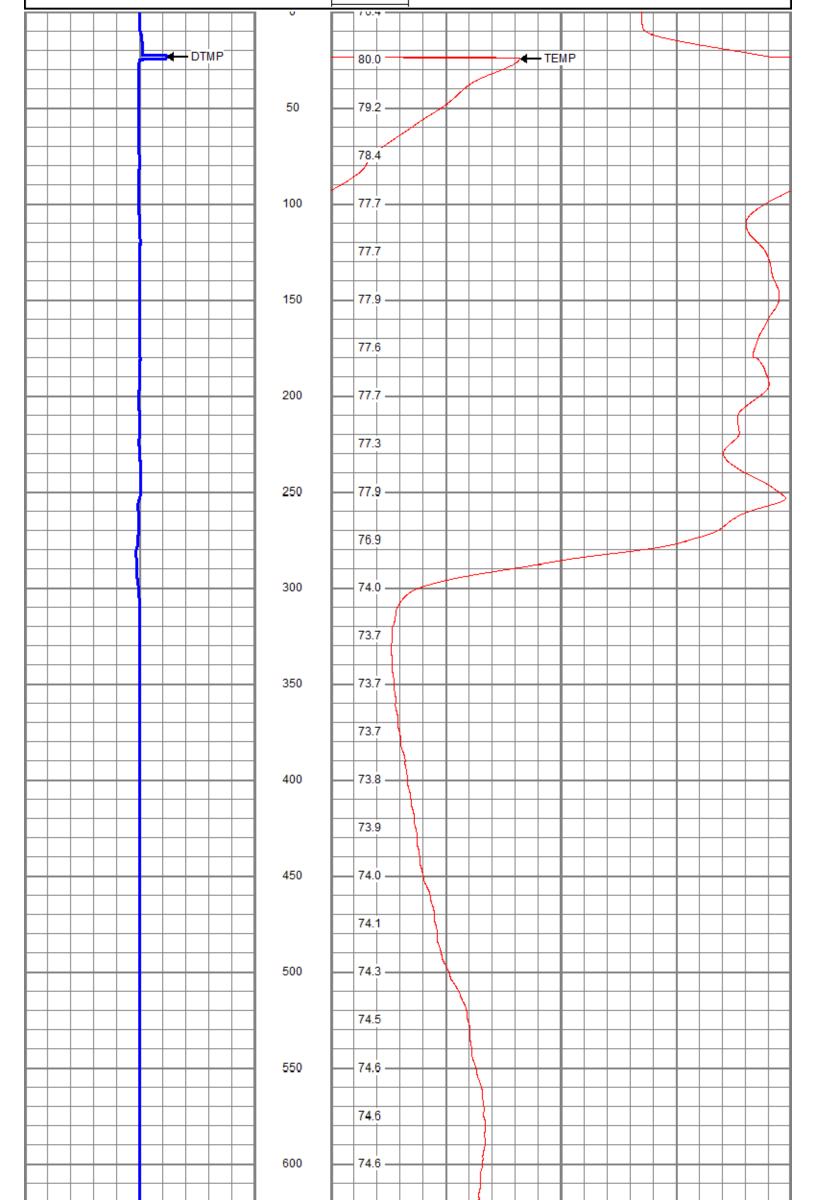
Database File dobirbeck-kellerunit#1temp.db

Dataset Pathname pass2 Presentation Format temp

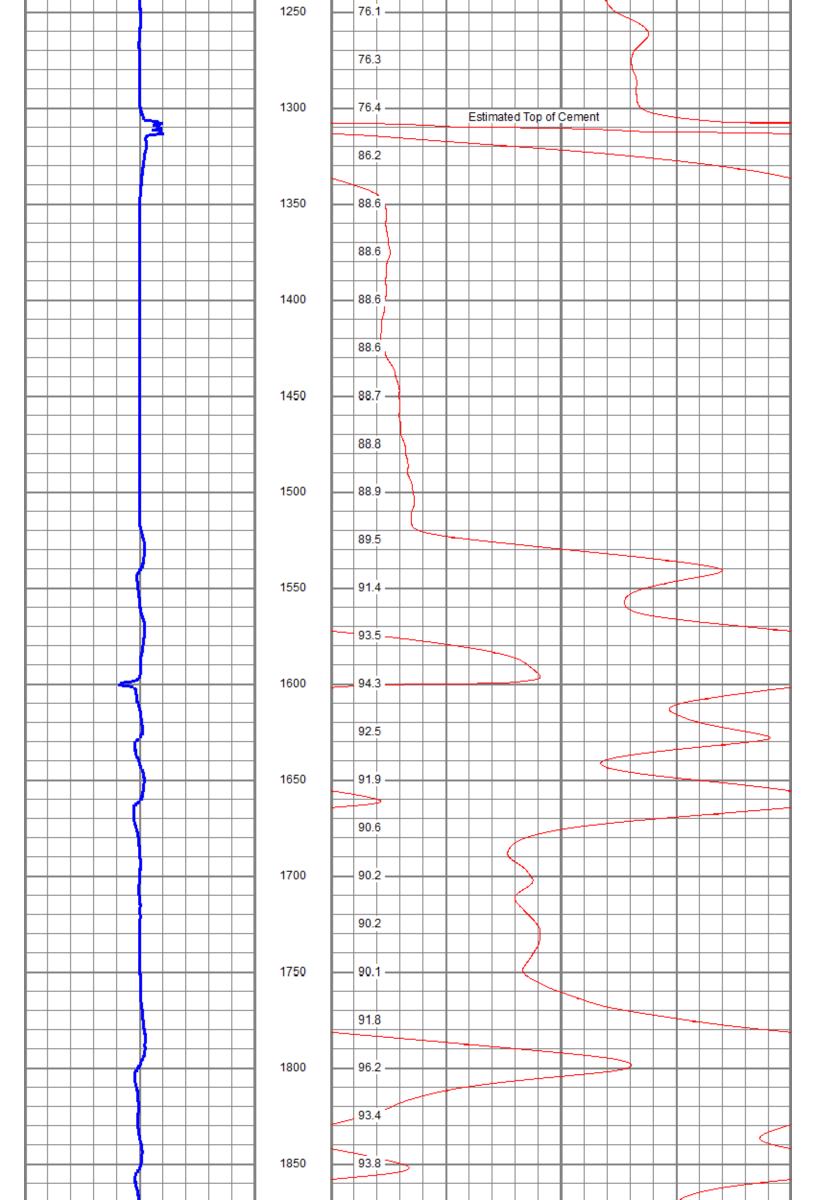
Dataset Creation Thu Sep 26 09:05:09 2019
Charted by Depth in Feet scaled 1:600

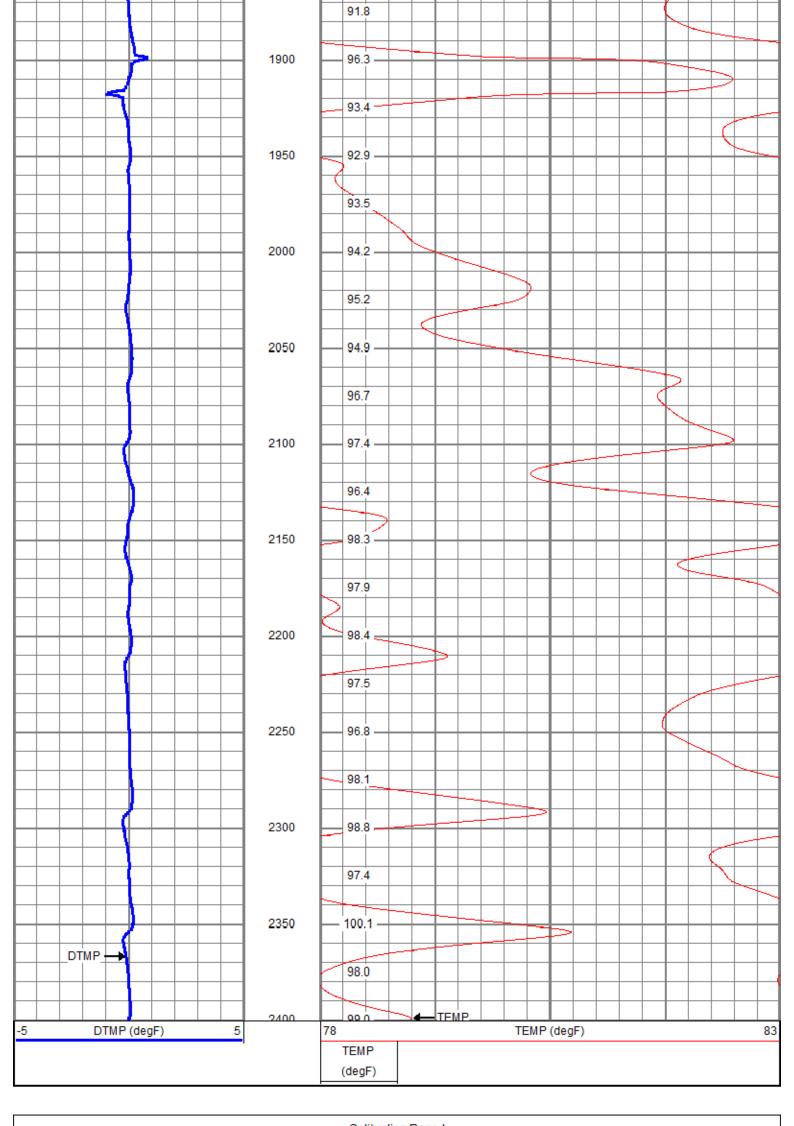
-5 DTMP (degF) 5 78 TEMP (degF) 83

TEMP (degF)



	74.6
650 -	74.7
-	74.6
<u></u> -	
700	74.5
-	74.5
	14.5
750	74.6
"	
	74.6
800	74.7
-	
	74.8
-	
850	74.9
	75.0
	75.0
900	75.2
	132
	75.3
950	75.2
	75.2
-	
1000	75.2
	75.5
1050	75.6
	75.5
1100	75.4
	75.5
-	
1150 -	75.6
	75.0
-	75.6
1200	75.9
1200	10.0
-	76.0





Calibration Report

Database File dobirbeck-kellerunit#1temp.db

Dataset Pathname pass2

Dataset Creation Thu Sep 26 09:05:09 2019

remperature Cambration Report Serial Number: Tool Model: С Performed: Fri Jul 31 16:24:47 2015 Reference Reading 56.00 degF 163.00 degF 590.26 cps 1683.31 cps Low Reference: High Reference: Gain: 0.11 Offset: -1.78

Delta Spacing

2

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	0.20		——TEMP-C (1)	1.25	1.83	2.00
	Dataset: dobirbeck-kellerunit#1temp.db: field/well/run1/pass2 Total length: 1.25 ft Total weight: 2.00 lb O.D.: 1.83 in					