

Form	ACO1 - Well Completion
Operator	Jaspar Co.
Well Name	BJW 4
Doc ID	1731207

All Electric Logs Run

MICRO
DUAL INDUCTION
COMPENSATED DENSITY/NEUTRON
SONIC

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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	218	COMMON	180	80/20 POZ 35 GEL 3 CALCIUM 7
Production	7.875	5.5	15.5	3648	COMMON	180	10%SALT, 5#GIL, 500 GAL CLR48



Scale 1:240 Imperial

Well Name:	BJW #4	
Surface Location:	SW, SE, NE, NE, Sec. 10, T6S, R20W	
Bottom Location:		
API:	15-163-24485	
License Number:	34903	
Spud Date:	7/12/2023	Time: 12:00 PM
Region:	ROOKS COUNTY	
Drilling Completed:	7/17/2023	Time: 3:30 AM
Surface Coordinates:	1220' FNL & 620' FEL	
Bottom Hole Coordinates:		
Ground Elevation:	2159.00ft	
K.B. Elevation:	2166.00ft	
Logged Interval:	3100.00ft	To: 3650.00ft
Total Depth:	3650.00ft	
Formation:	LKC, REAGAN SAND	
Drilling Fluid Type:	CHEMICAL MUD	

OPERATOR

Company:	JASPAR CO. INC	
Address:	P.O. BOX 1120	
	HAYS, KS 67601	
Contact Geologist:	SHANE VEHIGE	
Contact Phone Nbr:	785-623-6982	
Well Name:	BJW #4	
Location:	SW, SE, NE, NE, Sec. 10, T6S, R20W	
API:	15-163-24485	
Pool:		Field: EDGAR SOUTHWEST
State:	KS	Country:

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-99.529527
Latitude:	39.550068
N/S Co-ord:	1220' FNL
E/W Co-ord:	620' FEL

LOGGED BY

Company:	KEYSTONE CONSULTING, LLC	
Address:	2511 E 19TH	
	HAYS, KS 67601	
Phone Nbr:	(785) 639-0721	
Logged By:	Geologist	Name: CAMERON BRIN

CONTRACTOR

Contractor:	STP DRILLING	
Rig #:	2	
Rig Type:	MUD ROTARY	
Spud Date:	7/12/2023	Time: 12:00 PM
TD Date:	7/17/2023	Time: 3:30 AM
Rig Release:	7/18/2023	Time: 3:30 PM

ELEVATIONS

K.B. Elevation:	2166.00ft	Ground Elevation:	2159.00ft
K.B. to Ground:	7.00ft		

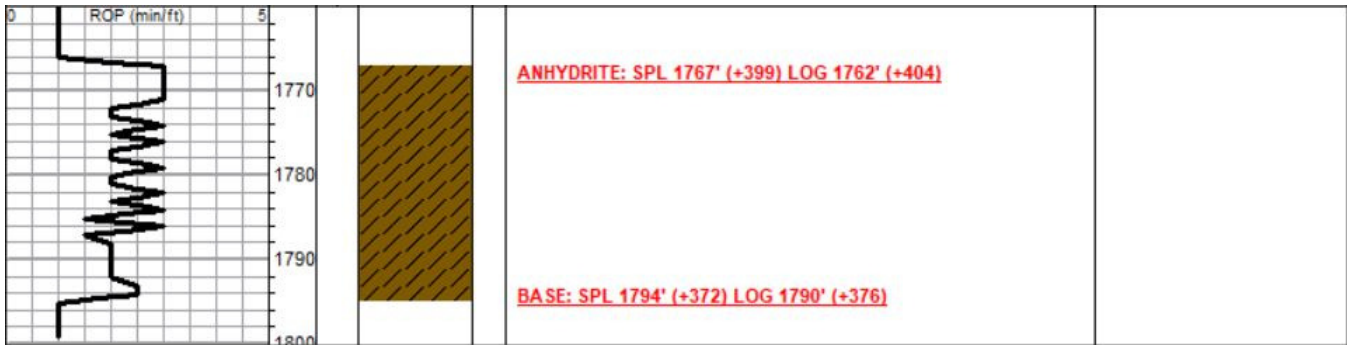
NOTES

DUE TO POSTIVE RESULTS ON DST #1, DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING TO FURTHER EVALUATE THE BJW #4 WELL.

TOPS COMPARISON

				●				●				●				D&A 8/22/1942			
				BJW #3				BJW #2				BJW #1				FED LAND BANK #1			
				JASPAR CO INC				JASPAR CO INC				JASPAR CO INC				BLACK MARSHALL			
				W2, NE, NE, NE SEC 10-6-20				NE, NE, NW, NE, SEC 10-6-20				SE, NE, NE, NW, SEC 10-6-20				S2, SW, NW, SEC 11-6-20			
BJW #4				2132				2147				2198				2161			
KB		2166		GL		2159		KB		2147		KB		2198		KB		2161	
LOG TOPS		SAMPLE TOPS		LOG		LOG		LOG		LOG		LOGS		LOG		LOG		LOG	
DEPTH		DATUM		DEPTH		DATUM		DEPTH		DATUM		DEPTH		DATUM		DEPTH		DATUM	
FORMATION																			
ANHYDRITE TOP		1762	404	1767	399	1722	410	- 6	- 11	1742	405	- 1	- 6	1796	402	+ 2	- 3	1760	401
BASE		1790	376	1794	372	1752	380	- 4	- 8	1773	374	+ 2	- 2	1822	376	+ 0	- 4		
TOPEKA		3159	-993	3162	-996	3116	-984	- 9	- 12	3141	-994	+ 1	- 2	3193	-995	+ 2	- 1	3165	-1004
HEEBNER SHALE		3360	-1194	3365	-1199	3318	-1186	- 8	- 13	3342	-1195	+ 1	- 4	3393	-1195	+ 1	- 4	3375	-1214
TORONTO		3383	-1217	3387	-1221	3342	-1210	- 7	- 11	3364	-1217	+ 0	- 4	3415	-1217	+ 0	- 4		
LKC		3396	-1230	3400	-1234	3358	-1226	- 4	- 8	3378	-1231	+ 1	- 3	3428	-1230	+ 0	- 4	3395	-1234
BKC		3600	-1434	3600	-1434	3556	-1424	- 10	- 10	3575	-1428	- 6	- 6	3626	-1428	- 6	- 6	3599	-1438
GORHAM																			
REAGAN				3648	-1482					3621	-1474		- 8	3668	-1470		- 12		
GRANITE						3597	-1465											3640	-1479
TOTAL DEPTH		3644	-1478	3650	-1484	3600	-1468	- 10	- 16	3623	-1476	- 2	- 8	3671	-1473	- 5	- 11	3642	-1481

ANHYDRITE



DST #1 3588'-3650' (REAGAN SAND)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co Inc **10-6s-20w Roofs KS**

PO Box 1120 **BJW #4**

Hays KS 67601+1120 Job Ticket: 71525 **DST#: 1**

ATTN: Cameron Brin Test Start: 2023.07.17 @ 07:50:00

GENERAL INFORMATION:

Formation: **Reagan Ss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:25:57

Time Test Ended: 14:14:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: **3588.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Reference Elevations: 2166.00 ft (KB)

Total Depth: 3650.00 ft (KB) (TVD)

2159.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8875 Inside

Press@RunDepth: 114.67 psig @ 3591.00 ft (KB)

Capacity: psig

Start Date: 2023.07.17

Last Calib.: 2023.07.17

Start Time: 07:50:01

End Date: 14:14:32

Time On Btm: 2023.07.17 @ 10:25:47

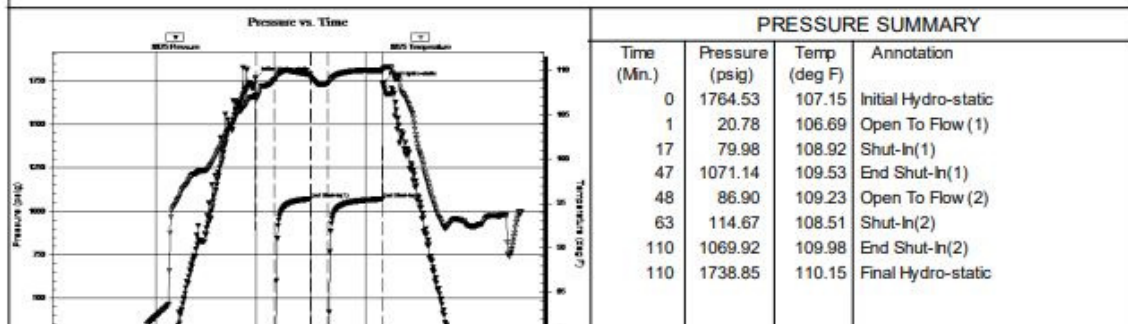
Time Off Btm: 2023.07.17 @ 12:15:32

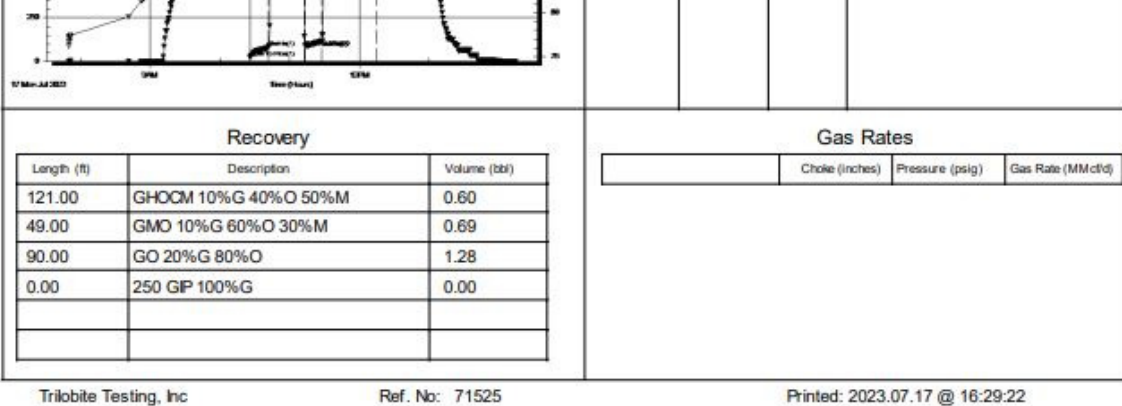
TEST COMMENT: 15-IF-BOB 12 mins Built to 15"

30-ISI-Surface to 2.25"

15-FF-BOB 12.5 mins Built to 16"

45-FSI-Surface to 5"





ROCK TYPES

Lmst fw7>

shale, grn

shale, gry

Carbon Sh

shale, red

Ss

Cht brn

ACCESSORIES

MINERAL

▲ Chert, dark

• Sandy

△ Chert White

FOSSIL

F Fossils < 20%

φ Oolite

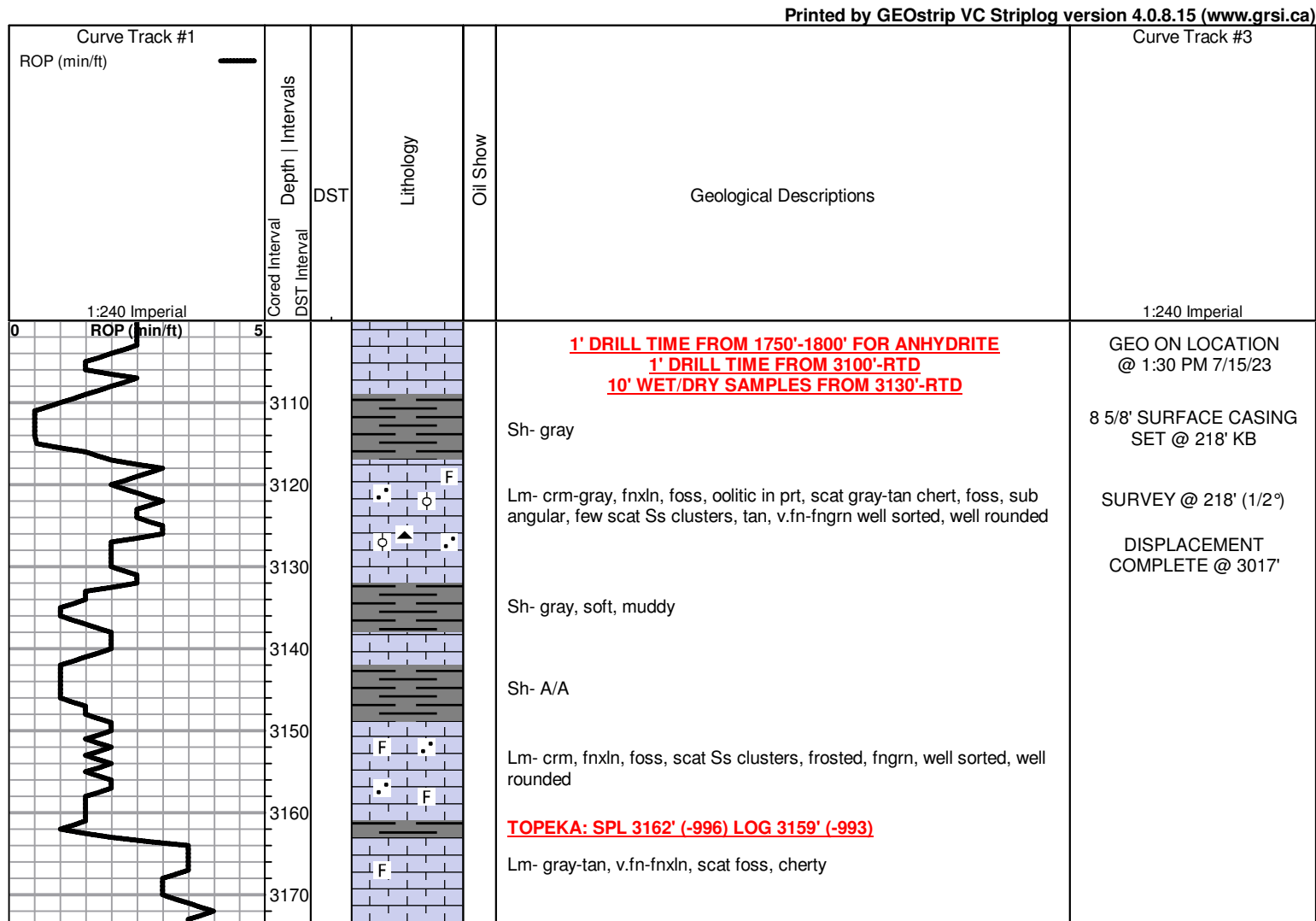
STRINGER

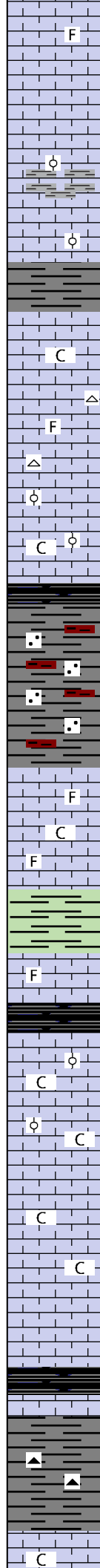
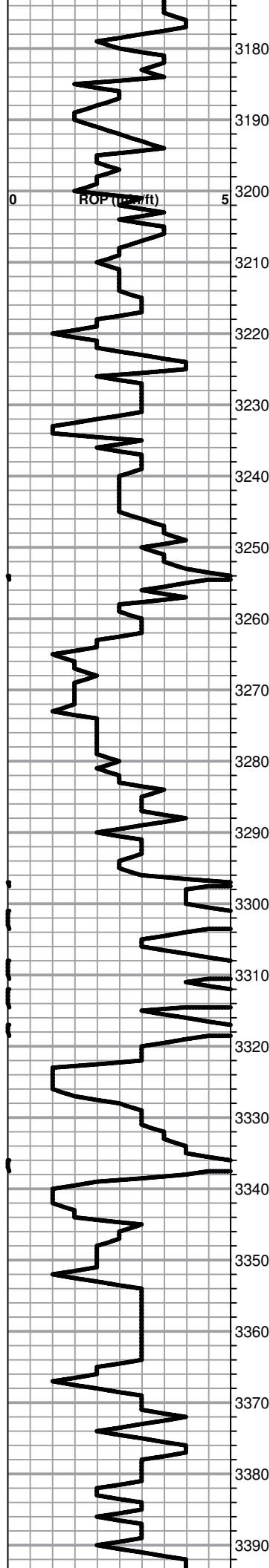
Shale

red shale

TEXTURE

C Chalky





Lm- A/A
Sh- drk gray

Lm- tan-crm, v.fnxln, cherty

Lm- gray-crm, v.fn-fnxln, oolitic in prt
Sh- gray-blk

Lm- A/A

Sh- gray-brn-grn

Lm- crm, fnxln, foss, chalky

Lm- crm, v.fn-fnxln, scat foss
Chert- wt, angular, fresh

Lm- crm, fnxln, oolitic, chalky in prt

Sh- blk, carb

Sh- gray-brn, muddy red wash, few Ss clusters, wt-tan, fn-mdgrn, well sorted, well rounded

Lm- crm, fnxln, foss in prt, chalky in prt

Lm- crm, fnxln, foss, scat foss, sli chalky

Sh- green

Lm- crm, fnxln-fngn, scat foss, cherty in prt

Sh- blk, carb

Lm- crm, fnxln, oolitic in prt, chalky in prt, 3-4 scat pcs w/ pr-fr ppt-inxln
por, spotty brn stn in por, sli SFO upon crush, no odor

Lm- crm, fnxln-fngn, foss, sli chalky

Lm- crm, v.fn-fnxln, dense

HEEBNER: SPL 3365' (-1199) LOG 3360' (-1194)

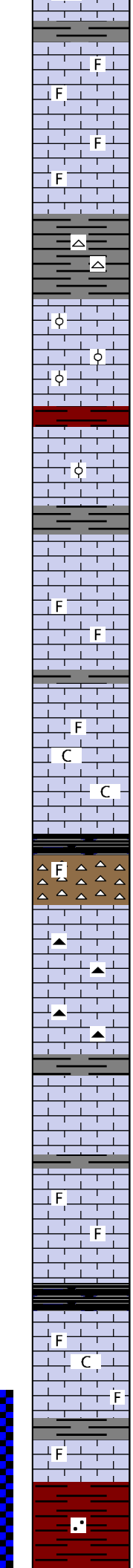
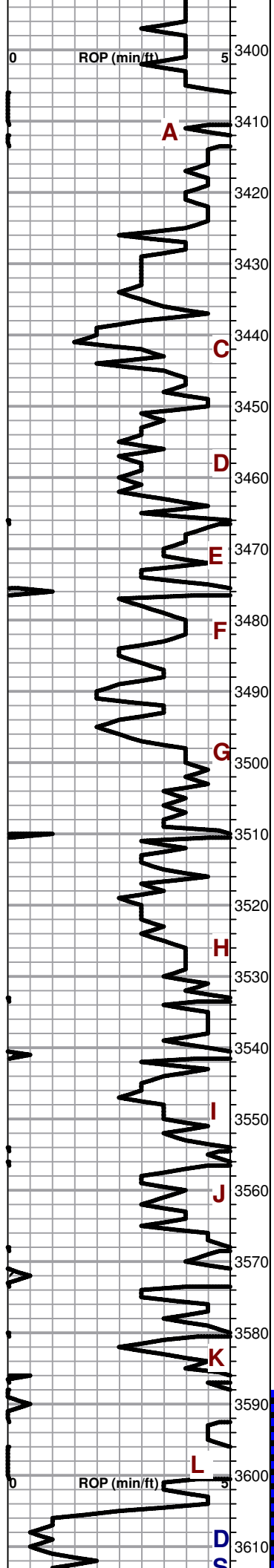
Sh- blk, carb

Sh- brn-gray, scat tan angular chert

TORONTO: SPL 3387' (-1221) LOG 3383' (-1217)

Lm- crm, v.fn-fnxln, chalky in prt, 2-3 pcs w/ pr ppt por, spotty brn stn
in por, sli chert EQ upon crush, no odor

CFS @ 3370'
SHORT TRIP (45 STANDS)



LANSING: SPL 3400' (-1234) LOG 3396' (-1230)

in por, sli sheen FO upon crush, no odor

Lm- crm, fnxln, scat foss, v.few scat pcs w/ pr ppt por, spotty brn stn, sli sheen FO in cup, pr-no odor

Lm- crm-wt, v.fnxln, scat foss, cherty

Lm- crm-wt, v.fnxln, cherty, barren

Sh- gray- brn-blk, scat gray weathered chert

Lm- crm, fnxln, oolitic, scat pr ppt & pr-fr oolitic por, brn fairly spotty stn, SFO upon crush, fr-gd odor

Sh- brn-green-blk

Lm- crm, fnxln, scat foss, oolitic in prt, scat pr ppt-inoolitic por, 2-3 pcs w/ v. spotty brn stn & scat blk dead stn, NSFO, pr odor

Lm- crm, v.fnxln, cherty, few scat pcs w/ pr ppt-inlxn por, brn-blk stn, v. sli sheen FO upon crush, pr odor

Lm- crm, fnxln, scat foss, scat pr ppt-inlxn-infoss & tr vuggy por, scat spotty brn stn, v. sli sheen FO upon crush, pr odor

Lm- crm, v.fn-fnxln, cherty, scat foss, few scat pcs w/ pr ppt-inlxn-infoss por, few scat pcs w/ v. spotty brn stn, NSFO, pr-no odor

Lm- crm-wt, v.fnxln, chalky wt wash, barren

Sh- blk, carb

Chert- tan, angular, fresh, bedded, foss in prt

Lm- crm-wt, v.fnxln, barren, scat fresh orange angular chert

Lm- A/A

Sh- lt. gray

Lm- crm, v.fn-fnxln, cherty in prt, scat v. pr xln por, few scat pcs w/ spotty brn face stn, sli SFO in cup, pr-no odor

Lm- crm, v.fnxln, cherty, scat foss, scat v. pr ppt-infoss por, scat spotty brn stn, v. sli SFO in cup, pr odor

Sh- blk-gray-brn

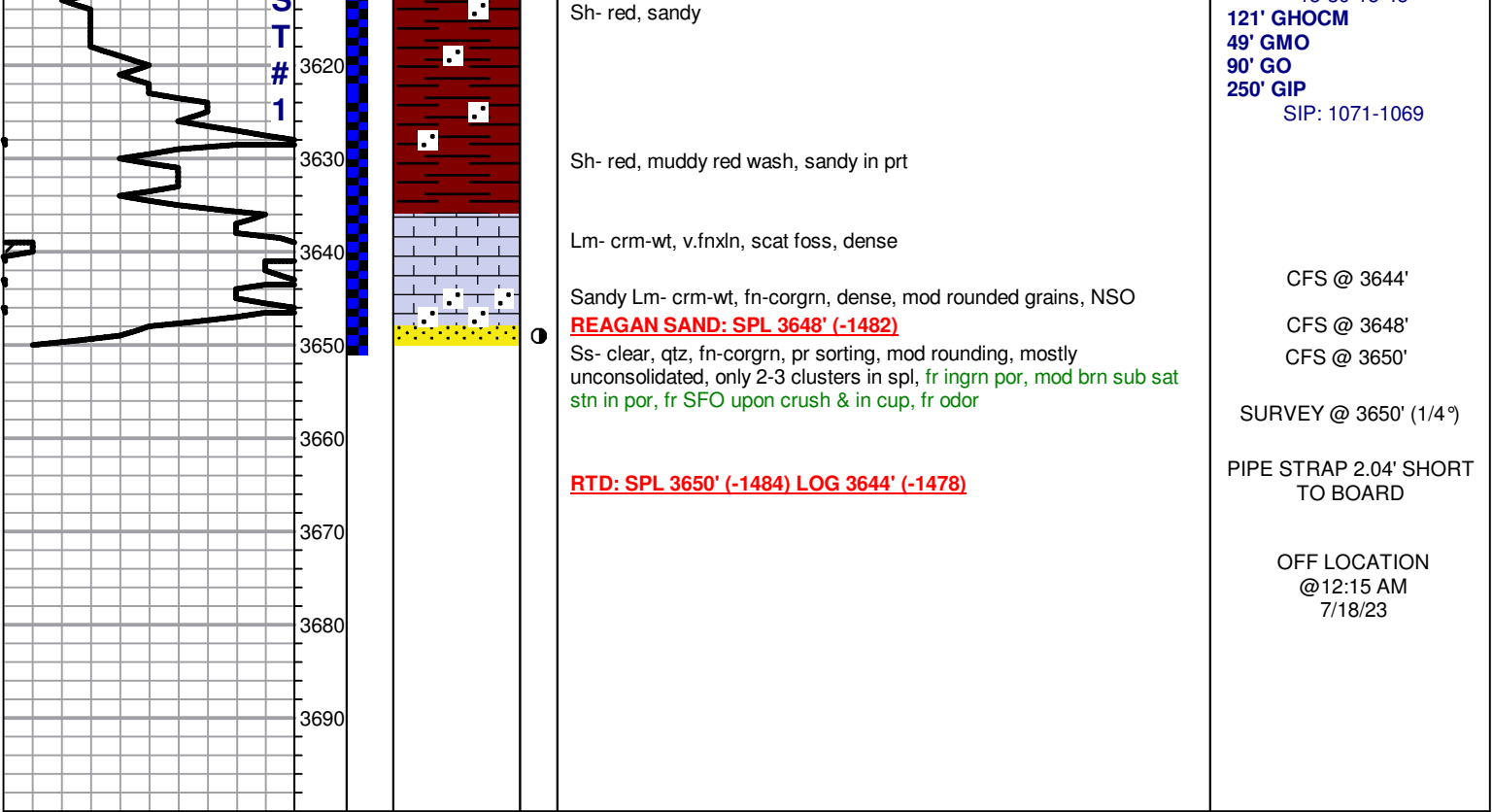
Lm- crm, v. fn-fnxln, cherty, chalky in prt, foss in prt

Lm- crm, v.fn-fnxln, cherty, scat foss

BKC: SPL 3600' (-1434) LOG 3600' (-1434)

CFS @ 3462'

CFS @ 3485'



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 3727

Cell 785-324-1041

Date	7-18-23	Sec.	10	Twp.	6	Range	20	County	ROOKS	State	Ks	On Location		Finish	
								Location STOCKTON 4 N 13 W 2 N							
Lease	BJW			Well No.			4			Owner					
Contractor				STP				To Quality Oilwell Cementing, Inc.							
Type Job				LONG STRING				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				78				T.D.				3650			
Csg.				5 1/2				Depth				3648.22			
Tbg. Size								Street							
Tool								City				State			
Cement Left in Csg.				42.86				Shoe Joint				42.86			
Meas Line								Displace				85.22			
EQUIPMENT															
Pumptrk	7	No.	Cementer	Bill			Common								
			Helper				180								
Bulktrk		No.	Driver	NICK			Poz. Mix								
			Driver				Gel.								
Bulktrk		No.	Driver	BRYANT			Calcium								
			Driver												
JOB SERVICES & REMARKS															
Remarks:								Hulls							
Rat Hole								Salt							
30 pbr								13							
Mouse Hole								Flowseal							
								Kol-Seal							
								750 #							
Centralizers								Mud CLR 48							
								500 gal							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
35 2168															
pipe set e								Handling							
3645.22								190							
shoe								Mileage							
42.86															
Insert								FLOAT EQUIPMENT							
3602.36															
pump 500 gal Flush								Guide Shoe							
Cemt w/ 150 gal								Centralizer							
								7							
pump plug w/ 85.22								Baskets							
land plug e								3							
								AFU Inserts							
								Float Shoe - /							
								Latch Down - /							
								P.C. - /							
								Pumptrk Charge							
								prod String							
								Mileage							
								61							
X Signature								Thanks							
CABE															
								Tax							
								Discount							
								Total Charge							

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

— **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

— **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

— **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

— **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

— **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

— **DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

— **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

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. **3732**

Date 7-26-23	Sec.	Twp.	Range	County ROCK	State Ks	On Location	Finish
				Location STOCKTON SW 13 W 3 N			
Lease B.J.W.	Well No. 4			Owner			
Contractor OUTLAW				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job P.C.				Charge To JASPER Co			
Hole Size 7 7/8	T.D.			Street			
Csg. 5 1/2	Depth			City			
Tbg. Size 2 3/8	Depth			State			
Tool				The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.				Cement Amount Ordered 350 21 QmDC 1/4 Flowseal			
Meas Line				Displace 350 #6 1/2			
EQUIPMENT							
Pumptrk 16	No.	Cementer			Common 250 #6 1/2 QmDC		
		Helper			Poz. Mix		
Bulktrk	No.	Driver	BILL JORDAN		Gel. 4		
		Driver			Calcium		
Bulktrk 21	No.	Driver	DOUG		Hulls		
				Salt			
Remarks:				Flowseal 75 #			
Rat Hole				Kol-Seal			
Mouse Hole				Mud CLR 48			
Centralizers				CFL-117 or CD110 CAF 38			
Baskets				Sand			
D/V or Port Collar				Handling 350			
P.C. e 2193				Mileage			
Est. Cike, w/ 350 #6 1/2				FLOAT EQUIPMENT			
Cement 250 21				Guide Shoe			
Cement Did Cir				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
Used 250 21				Pumptrk Charge port collar Tub			
350 #6 1/2				Mileage 61			
				Thanks			
				Tax			
				Discount			
X Signature Shawn Veky				Total Charge			

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– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

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. **3723**

Date 7-12-23	Sec. 10	Twp. 6	Range 20	County ROCKS	State KS	On Location	Finish 5:00pm
Lease BJW				Well No. 4	Location Stockton 4 1/2 N TO ERD 13 W TO SRD		
Contractor STP				Owner 2n			
Type Job SURFACE				To Quality Oilwell Cementing, Inc. 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 1/4	T.D.			Charge To JASPER CO.			
Csg. 8 3/8	Depth			Street			
Tbg. Size	Depth			City		State	
Tool	Depth			The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. 15	Shoe Joint			Cement Amount Ordered 180 89/20 3-2			
Meas Line	Displace 12.9						
EQUIPMENT							
Pumptrk 17	No.	Cementer	Bill	Common 145			
		Helper		Poz. Mix 35			
Bulktrk	No.	Driver	JORDAN	Gel. 3			
Bulktrk 20	No.	Driver	DOUG	Calcium 7			
JOB SERVICES & REMARKS							
Remarks:				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Sete 218				Sand			
Cement 180 21				Handling 190			
Displace w/ 12.9 bbls				Mileage			
Cement Did Circ.				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge Surface			
				Mileage 61			
				Tax			
				Discount			
				Total Charge			

X Signature

Thanks

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

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DRILL STEM TEST REPORT

Prepared For: **Jaspar Co Inc**

PO Box 1120
Hays KS 67601+1120

ATTN: Cameron Brin

BJW #4

10-6s-20w Rooks,KS

Start Date: 2023.07.17 @ 07:50:00

End Date: 2023.07.17 @ 14:14:32

Job Ticket #: 71525 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.07.19 @ 09:02:15



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co Inc

10-6s-20w Rooks,KS

PO Box 1120
Hays KS 67601+1120

BJW #4

Job Ticket: 71525

DST#: 1

ATTN: Cameron Brin

Test Start: 2023.07.17 @ 07:50:00

GENERAL INFORMATION:

Formation: **Reagan Ss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:25:57

Time Test Ended: 14:14:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 3588.00 ft (KB) To 3650.00 ft (KB) (TVD)

Total Depth: 3650.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2166.00 ft (KB)

2159.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8875 Inside

Press@RunDepth: 114.67 psig @ 3591.00 ft (KB)

Start Date: 2023.07.17

End Date:

2023.07.17

Start Time: 07:50:01

End Time:

14:14:32

Capacity: psig

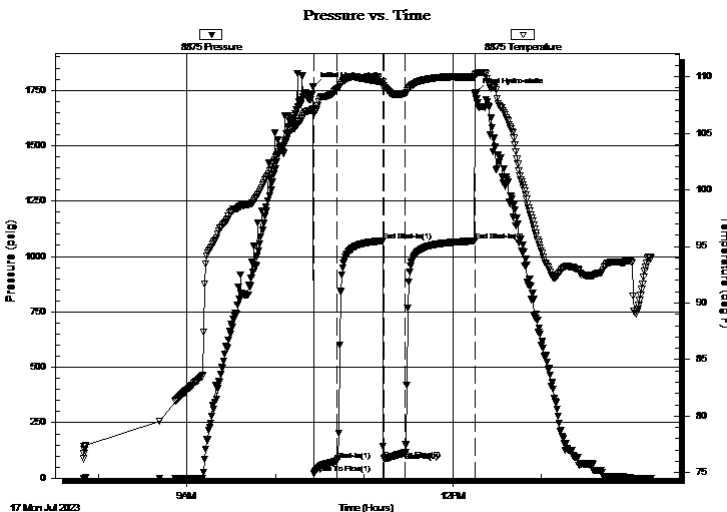
Last Calib.: 2023.07.17

Time On Btm: 2023.07.17 @ 10:25:47

Time Off Btm: 2023.07.17 @ 12:15:32

TEST COMMENT: 15-IF-BOB 12 mins Built to 15"
30-ISI-Surface to 2.25"
15-FF-BOB 12.5 mins Built to 16"
45-FSI-Surface to 5 "

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.53	107.15	Initial Hydro-static
1	20.78	106.69	Open To Flow (1)
17	79.98	108.92	Shut-In(1)
47	1071.14	109.53	End Shut-In(1)
48	86.90	109.23	Open To Flow (2)
63	114.67	108.51	Shut-In(2)
110	1069.92	109.98	End Shut-In(2)
110	1738.85	110.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	GHOCM 10%G 40%O 50%M	0.60
49.00	GMO 10%G 60%O 30%M	0.69
90.00	GO 20%G 80%O	1.28
0.00	250 GIP 100%G	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co Inc

10-6s-20w Rooks, KS

PO Box 1120
Hays KS 67601+1120

BJW #4

Job Ticket: 71525

DST#: 1

ATTN: Cameron Brin

Test Start: 2023.07.17 @ 07:50:00

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Time Test Ended: 14:14:32

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Tester: Spencer J Staab

Unit No: 84

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Total Depth: 3650.00 ft (KB) (TVD)

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Reference Elevations: 2166.00 ft (KB)

2159.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 3591.00 ft (KB)

Start Date: 2023.07.17

End Date:

2023.07.17

Start Time: 07:50:01

End Time:

14:14:32

Capacity: psig

Last Calib.:

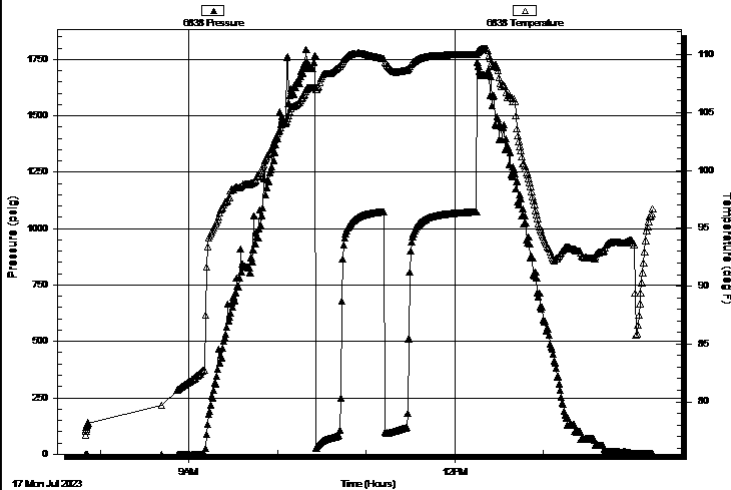
2023.07.17

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-BOB 12 mins Built to 15"
30-ISI-Surface to 2.25"
15-FF-BOB 12.5 mins Built to 16"
45-FSI-Surface to 5 "

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
121.00	GHOCM 10%G 40%O 50%M	0.60
49.00	GMO 10%G 60%O 30%M	0.69
90.00	GO 20%G 80%O	1.28
0.00	250 GIP 100%G	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jaspar Co Inc

10-6s-20w Rooks,KS

PO Box 1120
Hays KS 67601+1120

BJW #4

Job Ticket: 71525

DST#: 1

ATTN: Cameron Brin

Test Start: 2023.07.17 @ 07:50:00

Tool Information

Drill Pipe:	Length:	3467.00 ft	Diameter:	3.82 inches	Volume:	49.15 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75 inches	Volume:	- bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length:	121.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	71000.00 daN
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:		27.00 ft					String Weight: Initial	52000.00 daN
Depth to Top Packer:		3588.00 ft					Final	54000.00 daN
Depth to Bottom Packer:		ft						
Interval between Packers:		62.00 ft						
Tool Length:		89.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		3562.00	
Shut In Tool	5.00		3567.00	
Hydraulic tool	5.00		3572.00	
Gap Sub	4.00		3576.00	
Safety Joint	3.00		3579.00	
Packer	5.00		3584.00	27.00 Bottom Of Top Packer
Packer	4.00		3588.00	
Stubb	1.00		3589.00	
Perforations	1.00		3590.00	
Change Over Sub	1.00		3591.00	
Recorder	0.00	6838 Inside	3591.00	
Recorder	0.00	8875 Inside	3591.00	
Drill Pipe	32.00		3623.00	
Change Over Sub	1.00		3624.00	
Perforations	23.00		3647.00	
Bullnose	3.00		3650.00	62.00 Bottom Packers & Anchor
Total Tool Length:	89.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Jaspar Co Inc

10-6s-20w Rooks,KS

PO Box 1120
Hays KS 67601+1120

BJW #4

Job Ticket: 71525

DST#: 1

ATTN: Cameron Brin

Test Start: 2023.07.17 @ 07:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 7.80 in³

Resistivity: ohm.m

Salinity: 700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

28 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
121.00	GHOCM 10%G 40%O 50%M	0.595
49.00	GMO 10%G 60%O 30%M	0.695
90.00	GO 20%G 80%O	1.276
0.00	250 GIP 100%G	0.000

Total Length: 260.00 ft

Total Volume: 2.566 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

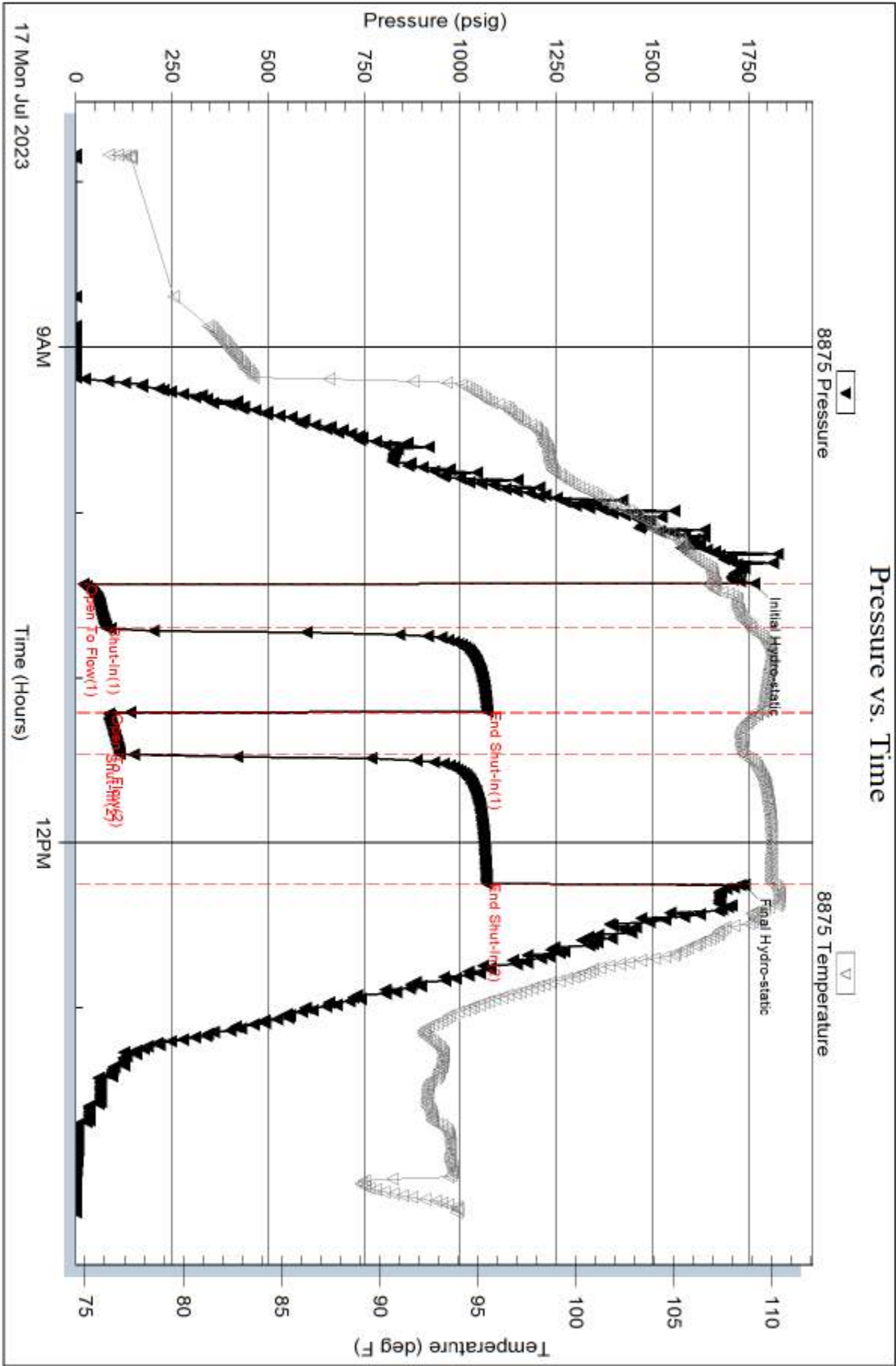
Recovery Comments: 4#LCM

Serial #: 8875

Inside Jasper Co Inc

BUW #4

DST Test Number: 1



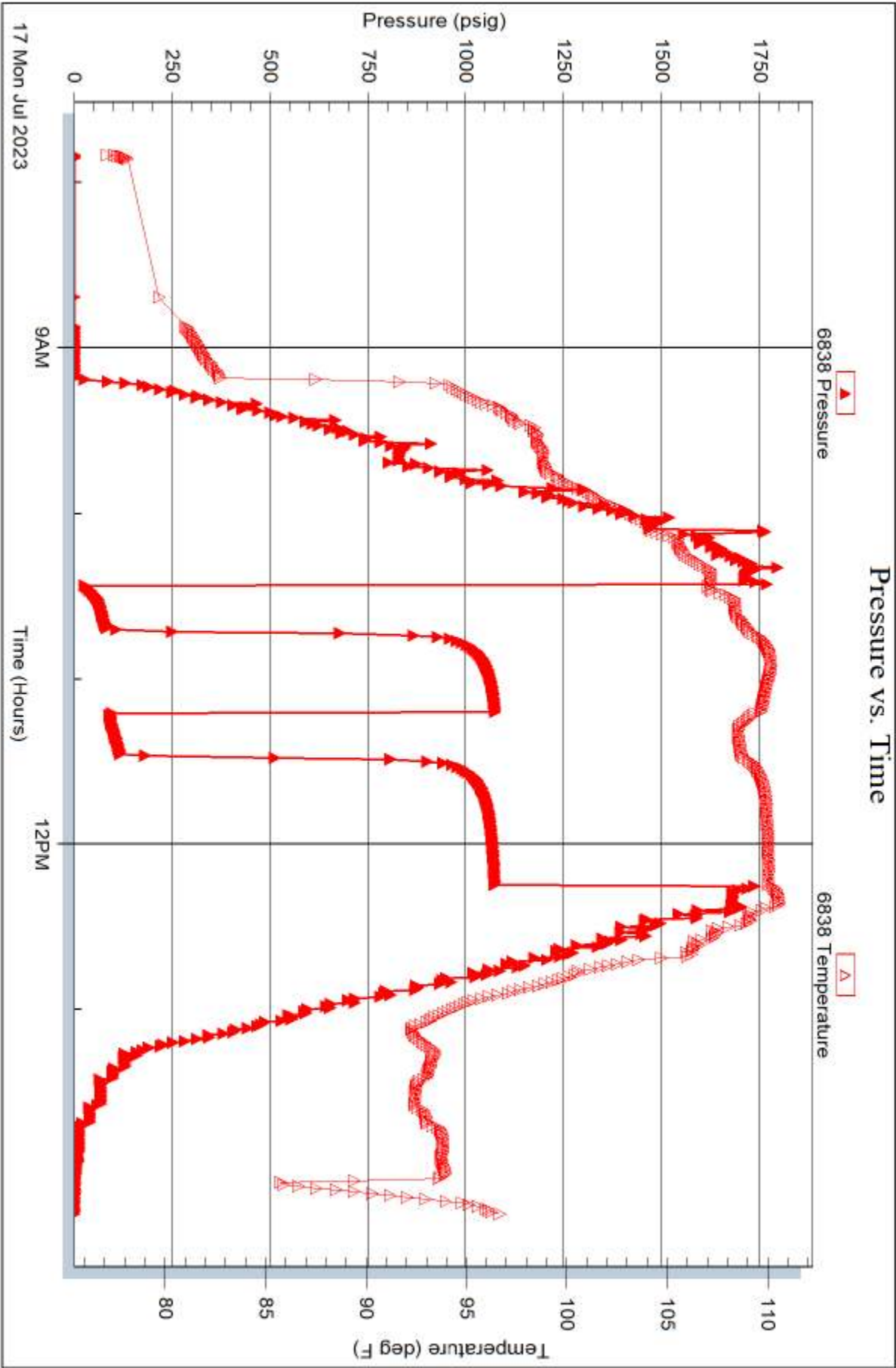
Serial #: 6838

Inside

Jaspar Co Inc

BW#4

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71525**

Well Name & No. B J W #4 Test No. 1 Date 07/17/2023
 Company Jasper Co., Inc. Elevation 2166' KB 2159' GL
 Address PO BOX 1120 Hays KS 67601 + 1120
 Co. Rep / Geo Cameron Brin Rig STP #2
 Location: Sec. 10 Twp 6S Rge. 20W Co. Rooks State Ks

Interval Tested 3588' - 3650' Zone Tested Reagan Ss
 Anchor Length 62' Drill Pipe Run 3487' Mud Wt. 9.1
 Top Packer Depth 3583' Drill Collars Run 121' Vis 52
 Bottom Packer Depth 3588' Wt. Pipe Run — WL 7.8
 Total Depth 3650' Chlorides 700 ppm System LCM 4#

Blow Description 17- BOB 12 mins; Built to 15"
15D - Surface to 24"
17- BOB 12.5 mins; Built to 16"
7SD - Surface to 5"

Rec <u>121</u>	Feet of <u>GHOXM</u>	<u>10</u> %gas	<u>40</u> %oil	%water	<u>50</u> %mud
Rec <u>49'</u>	Feet of <u>GMO</u>	<u>10</u> %gas	<u>60</u> %oil	%water	<u>30</u> %mud
Rec <u>90'</u>	Feet of <u>G10</u>	<u>20</u> %gas	<u>80</u> %oil	%water	%mud
Rec <u>—</u>	Feet of <u>250' GTP</u>	<u>100</u> %gas	%oil	%water	%mud
Rec <u>—</u>	Feet of <u>—</u>	%gas	%oil	%water	%mud
Rec <u>—</u>	Feet of <u>—</u>	%gas	%oil	%water	%mud
Rec <u>—</u>	Feet of <u>—</u>	%gas	%oil	%water	%mud

Rec Total 260' BHT 110° Gravity 28° API RW — @ — °F Chlorides — ppm
 Initial Hydrostatic 1764 ☒ Test 1800 ☐ Ruined Shale Packer —
 Initial Flow 20 to 79 ☐ Jars — ☐ Ruined Packer —
 Initial Shut-In 1071 ☐ Circ Sub — ☐ Hotel —
 Final Flow 86 to 114 ☐ Hourly Standby — ☒ EM Tool Successful —
 Final Shut-In 1069 ☒ Mileage 132.47 231 ☐ Accessibility —
 Final Hydrostatic 1738 ☐ Sampler — ☐ Gas Sample —

T- On Location 05:55 ☐ Straddle — ☐ Oversized Hole —
 Initial Flow 15 T-Started 07:50 ☐ Shale Packer — ☐ Sub Total 0
 Initial Shut-In 30 T-Open 10:26 ☐ Extra Packer — ☐ Total 2031
 Final Flow 15 T-Pulled 12:11 ☐ Extra Recorder — ☒ Tool Loaded 07/17 @ 15:00
 Final Shut-In 45 T-Out 14:14 ☐ Day Standby — ☐ MP/DST Disc't —

Comments —

Approved By — Our Representative JJ Staats Thanks!

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

785-259-0056