

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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416 Main Street
P.O. Box 225
Victoria, KS 67671
Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Invoice

Date	Invoice #
2/14/2023	0865

Please Pay from this Invoice.
Remit Payment to:
416 Main Street PO BOX 225
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949
Email: franksoilfield@yahoo.com

KCC License Number
35469

Bill To
ARP Operating, LLC 730 17th St, Suite 715 Denver, CO 80202

County/State	Lease/Well#	Terms	Job Type
Thomas County, KS	Los Primos 2	Net 30	Port Collar

Description	Quantity	Rate	Amount
Pump Charge	1	1,850.00	1,850.00
Mileage	54	6.50	351.00
12.03 tons at 54 miles	649.62	1.50	974.43
Thixo blend OWC	175	29.55	5,171.25T
60/40 4% gel 1/4# floseal	50	17.35	867.50T
5-1/2" Port Collar	1	3,000.00	3,000.00T
5-1/2" Guide Shoe AFU	1	600.00	600.00T
5-1/2" Latchdown Plug & Assembly	1	695.00	695.00T
5-1/2" Basket	3	385.00	1,155.00T
5-1/2" Turbalizer Centralizers	10	108.00	1,080.00T
Salt	50	0.50	25.00T
5 1/2 Stop Ring	3	35.00	105.00T
Head & Manifold Charge	1	200.00	200.00T
Mud Flush	500	1.00	500.00T
Medium Truck Miloise	54	1.50	81.00T
KCL	2	30.00	60.00T
Discount		-835.75	-835.75

PAID

CK. NO. 2573
DATE 3-24-23

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

We appreciate your business and look forward to serving you again!

Subtotal	\$15,879.43
Sales Tax (8.25%)	\$1,061.18
Balance Due	\$16,940.61

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0865
 LOCATION Hoxie
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-14-23	35695	Los Primos 2	2G	10	33	Thomas
CUSTOMER ARR Operating LLC			TRUCK #		DRIVER	
MAILING ADDRESS 730 17th St, #715			103		Preston P	
CITY Denver			41301		Saul T. Tom W.	
STATE CO			ZIP CODE 80202			
JOB TYPE Port collar	HOLE SIZE 7 7/8"	HOLE DEPTH 4247'	CASING SIZE & WEIGHT 5 1/2" 15.5#			
CASING DEPTH 4738'	DRILL PIPE	TUBING	OTHER			
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING			
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE			

REMARKS: Ran float equipment & set up on Duke #1 circular mud
 kill v.v. - 37 lbm mix 500gal mud flush. Plug RH & MH with 50sf
 mix 175sf only. Wash up & displace plug. Plugdown 12:45 PM

Thanks Tom & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL003	1	PUMP CHARGE Port collar	\$1850.00	\$1850.00
MO01	54	MILEAGE	\$6.50	\$351.00
MO02	12.03 tons	Ton Mileage Delivery	\$974.43	\$974.43
CB030	175 sf	class A 100 solc 5th hole 1 290 gal	\$29.55	\$5171.25
CB010	50 sf	CP40 490 gal 1/4" # Flashed	\$17.35	\$867.50
FE050	1	5 1/2" port collar	\$3000.00	\$3000.00
FE0033	1	5 1/2" AFD Guide shoe	\$100.00	\$100.00
FE051	1	5 1/2" hatch down Plug assy.	\$695.00	\$695.00
FE022	3	5 1/2" Basket	\$385.00	\$1155.00
FE014	10	5 1/2" turbolizer	\$108.00	\$1080.00
CP005	50 lbs	salt	\$1.50	\$75.00
FE102	3	stop rings 5 1/2"	\$35.00	\$105.00
CB003	1	5 1/2" head + manifold	\$200.00	\$200.00
CP013	500 gal	mud flush	\$1.00	\$500.00
MO04	54	medium Truck charge	\$1.50	\$81.00
CP014	2 gal.	KCl	\$30.00	\$60.00
			Sub total	\$14,715.18
			less 5% disc.	\$735.75
			Sub total	\$13,979.43
			SALES TAX	1061.18
			ESTIMATED TOTAL	16,940.61

AUTHORIZATION _____ TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



416 Main Street
 P.O. Box 225
 Victoria, KS 67671
 Office (785) 639-3949
 24 Hour Service Line (785) 639-7269

7774

Invoice

Date	Invoice #
2/8/2023	0857

Please Pay from this Invoice.
 Remit Payment to:
 416 Main Street PO BOX 225
 Victoria, KS 67671
 Billing Questions-Call Tianna at
 (785) 639-3949
 Email: franksoilfield@yahoo.com

KCC License Number
 35469

Bill To
ARP Operating, LLC 730 17th St, Suite 715 Denver, CO 80202

County/State	Lease/Well#	Terms	Job Type
Thomas County, KS	Los Primos 2	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	54	6.50	351.00
11.27 tons at 54 miles	608.58	1.50	912.87
Surface Blend	230	25.50	5,865.00T
Salt	100	0.50	50.00T
Discount		-416.44	-416.44

PAID
 CK. NO. 2573
 DATE 3-24-23

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	Subtotal	\$7,912.43
<i>We appreciate your business and look forward to serving you again!</i>	Sales Tax (8.25%)	\$463.59
	Balance Due	\$8,376.02

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

KET NUMBER 0857

LOCATION Hoyie

FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-8-23	35695	Los Primas 2	26	10	33	Thomas
CUSTOMER ABP Operating LLLC			TRUCK #		DRIVER	
MAILING ADDRESS 730 17th St #215			103		Tom W	
CITY Denver			203		Chase M	
STATE CO		ZIP CODE 80202				

JOB TYPE Section HOLE SIZE 12 1/4" HOLE DEPTH 272' CASING SIZE & WEIGHT 8 3/8"
 CASING DEPTH 271' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting & set up on Dulce #1 Circulate mud.
Mr X 230 sf & displaced 16.5 Bbl shot in 475 cm
cement did circulate

8 3/8" head
Thanks Tom & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P002	1	PUMP CHARGE <u>Surf</u>	\$1150 ⁰⁰	\$1150 ⁰⁰
M001	54	MILEAGE	\$6 ⁵⁰	\$351 ⁰⁰
M002	11.27 hours	Tan Mileage Delivery	\$912 ⁸⁷	\$912 ⁸⁷
CP004	230sf	Class A 3900 29g/gal	\$25 ⁵⁰	\$5845 ⁰⁰
CP005	100lbs	Salt	\$1 ⁵⁰	\$150 ⁰⁰
			subtotal	\$8,328 ⁸⁷
			less 5% disc.	\$416 ⁴⁴
			subtotal	\$7,912 ⁴³
			SALES TAX	463.59
			ESTIMATED TOTAL	8376.02

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Sean Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **ARP Operating, LLC**

LEASE **Los Primos #2**

FIELD **KB_3100'**

LOCATION **1650' E 1/2 & 1320' E 1/2**

SEC **26** TWP **S 10S** RGE **33W**

COUNTY **Thomas** STATE **Kansas**

CONTRACTOR **Duke Drilling Rig #1**

SPUD **2/5/22** COMP **2/13/22**

RTD **4747'** LTD **4744'**

MUD UP **CHEMICAL**

SAMPLES SAVED FROM **3800'** TO **RTD**

DRILLING TIME KEPT FROM **3800'** TO **RTD**

SAMPLES EXAMINED FROM **3800'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3800'**

REFERENCE WELL **CNDDDL**

FORMATION **MICCON**

Formation	Sample Tops	E-log Tops	Struct. Foss.
B/Anhydrite		2628 (-472)	
Heebner Sh.		4016 (-916)	
Lansing		4055 (-955)	
Stark Sh.		4274 (-1174)	
Johnson		4600 (-1500)	
Mississippi		4702 (-1602)	



MEASUREMENTS ARE ALL FROM KELLY BUSHING

GL 3088'

CASING

CONDUCTOR

SURFACE 8-5/8" at 261'

PRODUCTION 5.37" at TD'

ELECTRICAL SURVEYS

ELI

CNDDDL

MICCON

REMARKS The Los Primos #2 ran structurally as expected. The Lansing had shows of oil that might be commercial with adequate stimulation and the Johnson had fair shows of oil that were very encouraging. The decision was made to complete this well with 5.5" casing. Drill time and samples were adjusted 3-6' to correct to log depths

Respectfully Submitted,

Sean P. Deenihan

Engineering Data

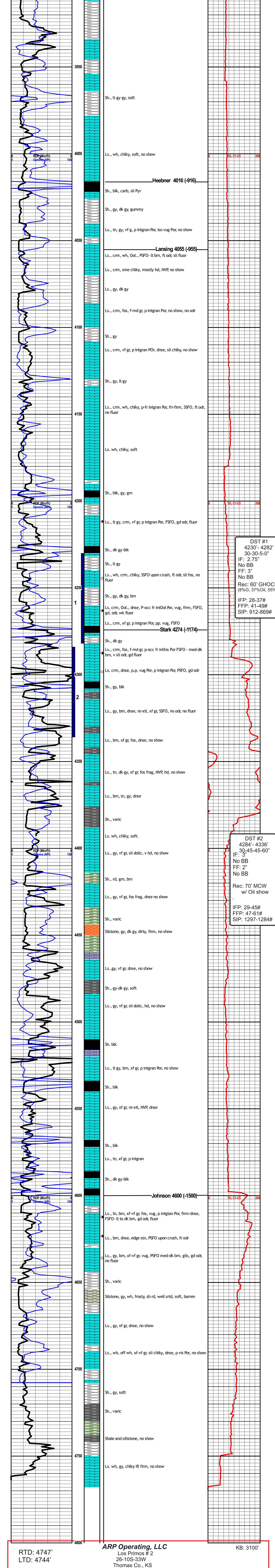
TG (units) ————

C2 (units) ————

C3 (units) ————

C4 (units) ————

C5 (units) ————



RTD: 4747'
LTD: 4744'

ARP Operating, LLC
Los Primos # 2
26-10S-33W
Thomas Co., KS

KB: 3100'



DRILL STEM TEST REPORT

Prepared For: **ARP Operating LLC**

730 17TH ST.c#715
Denver, CO 80202

ATTN: Sean Deenihan

Los Primos #2

26-10S.-33W. Thomas,KS

Start Date: 2023.02.11 @ 21:00:00

End Date: 2023.02.12 @ 04:45:50

Job Ticket #: 69438 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.02.14 @ 11:46:16

ARP Operating LLC
26-10S.-33W. Thomas,KS
Los Primos #2
DST # 1
LKC "1 - J"
2023.02.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

ARP Operating LLC

26-10S.-33W. Thomas,KS

730 17TH ST.c#715
Denver,CO 80202

Los Primos #2

Job Ticket: 69438

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.02.11 @ 21:00:00

GENERAL INFORMATION:

Formation: **LKC "I - J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:56:40

Time Test Ended: 04:45:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4230.00 ft (KB) To 4282.00 ft (KB) (TVD)

Reference Elevations: 3096.00 ft (KB)

Total Depth: 4282.00 ft (KB) (TVD)

3088.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 49.23 psig @ 4231.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.11

End Date:

2023.02.12

Last Calib.:

2023.02.12

Start Time: 21:00:01

End Time:

04:45:50

Time On Btm:

2023.02.11 @ 23:56:30

Time Off Btm:

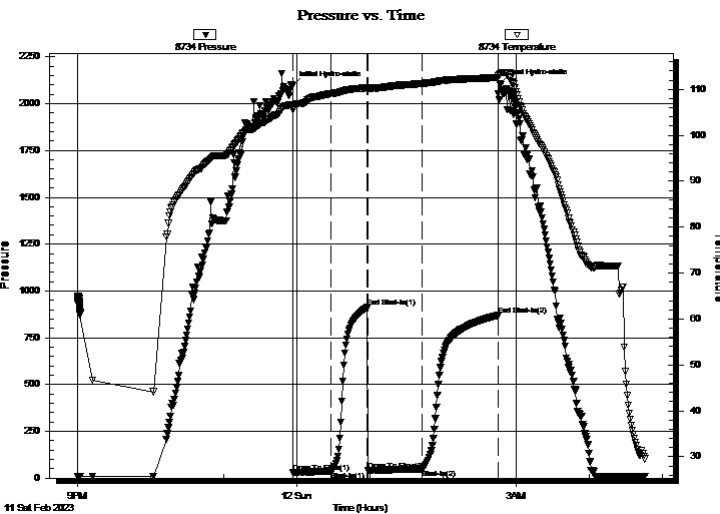
2023.02.12 @ 02:46:39

TEST COMMENT: 30-IF-Blow built to 2 3/4"

30-ISI-No return

45-FF-Blow built to 3"

60-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2096.23	106.66	Initial Hydro-static
1	28.40	105.44	Open To Flow (1)
32	37.14	109.03	Shut-In(1)
62	912.04	110.32	End Shut-In(1)
62	41.07	110.12	Open To Flow (2)
106	49.23	111.24	Shut-In(2)
169	868.63	112.55	End Shut-In(2)
171	2109.01	113.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 8%G, 37%O, 55%M	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

ARP Operating LLC

26-10S.-33W. Thomas, KS

730 17TH ST. c#715
Denver, CO 80202

Los Primos #2

Job Ticket: 69438

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.02.11 @ 21:00:00

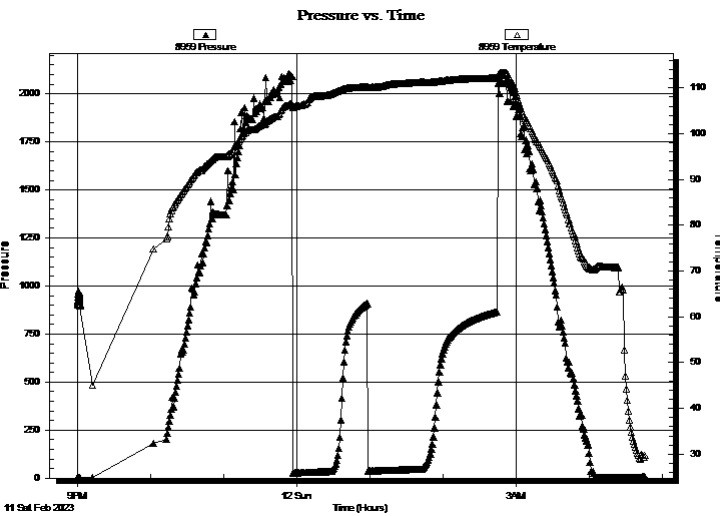
GENERAL INFORMATION:

Formation: **LKC "I - J "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:56:40
 Time Test Ended: 04:45:50
 Interval: **4230.00 ft (KB) To 4282.00 ft (KB) (TVD)**
 Total Depth: 4282.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: 3096.00 ft (KB)
 3088.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4231.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.11 End Date: 2023.02.12 Last Calib.: 2023.02.12
 Start Time: 21:00:01 End Time: 04:45:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Blow built to 2 3/4"
 30-ISI-No return
 45-FF-Blow built to 3"
 60-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 8%G, 37%O, 55%M	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

ARP Operating LLC

26-10S.-33W. Thomas,KS

730 17TH ST.c#715
Denver,CO 80202

Los Primos #2

Job Ticket: 69438

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.02.11 @ 21:00:00

Tool Information

Drill Pipe:	Length: 4221.00 ft	Diameter: 3.80 inches	Volume: 59.21 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 59.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4230.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4198.00	
Shut In Tool	5.00			4203.00	
Hydraulic tool	5.00	1113		4208.00	
Jars	5.00	01-07		4213.00	
EM Tool	5.00			4218.00	
Safety Joint	3.00	-001		4221.00	
Packer	5.00			4226.00	33.00 Bottom Of Top Packer
Packer	4.00			4230.00	
Packer - Shale	0.00			4230.00	
Stubb	1.00			4231.00	
Recorder	0.00	8959	Inside	4231.00	
Recorder	0.00	8734	Outside	4231.00	
Perforations	12.00			4243.00	
Change Over Sub	1.00			4244.00	
Drill Pipe	32.00			4276.00	
Change Over Sub	1.00			4277.00	
Bullnose	5.00			4282.00	52.00 Bottom Packers & Anchor
Total Tool Length:	85.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

ARP Operating LLC

26-10S.-33W. Thomas,KS

730 17TH ST.c#715
Denver,CO 80202

Los Primos #2

Job Ticket: 69438

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.02.11 @ 21:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GHOCM 8%G, 37%O, 55%M	0.842

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

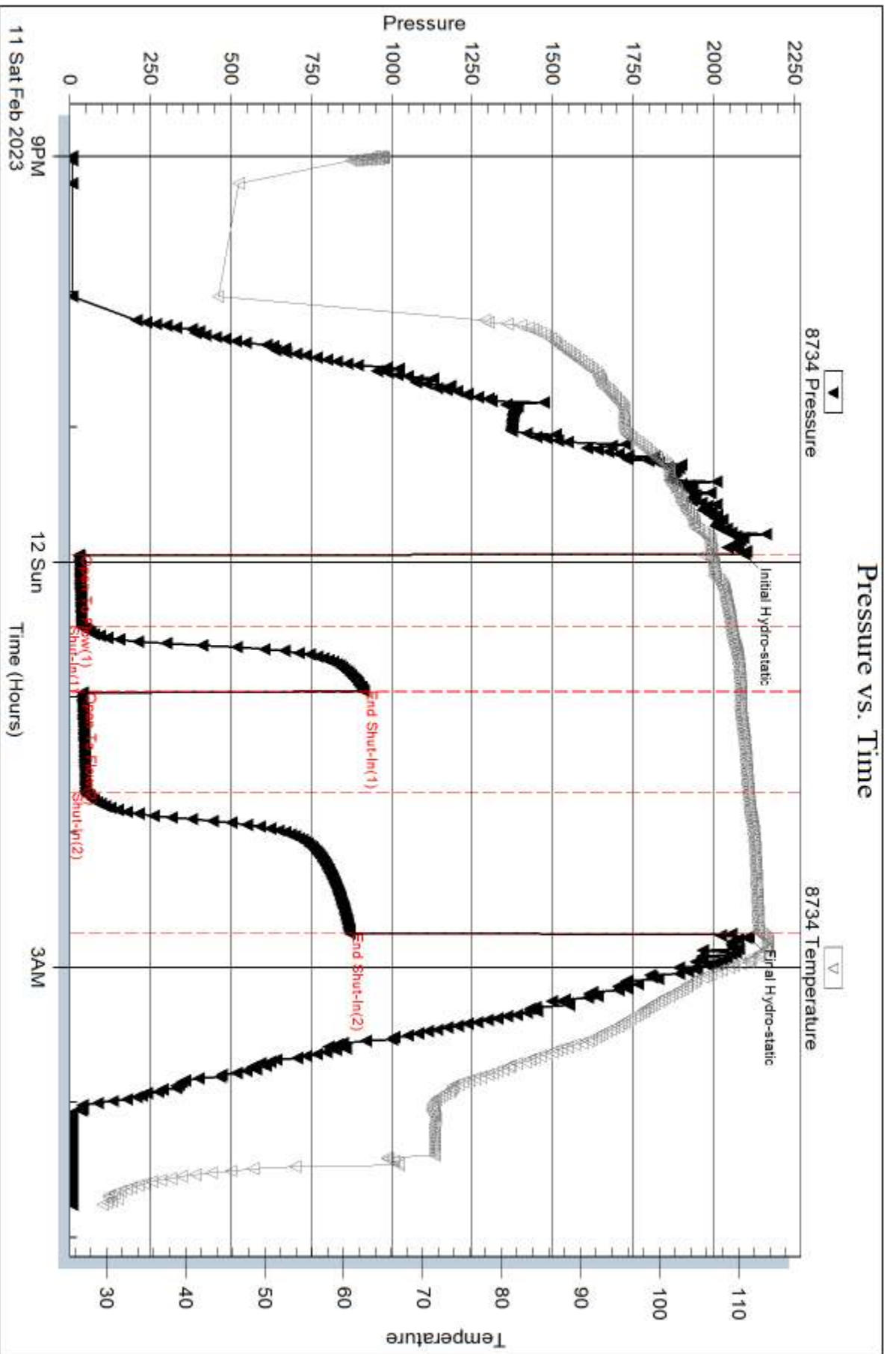
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



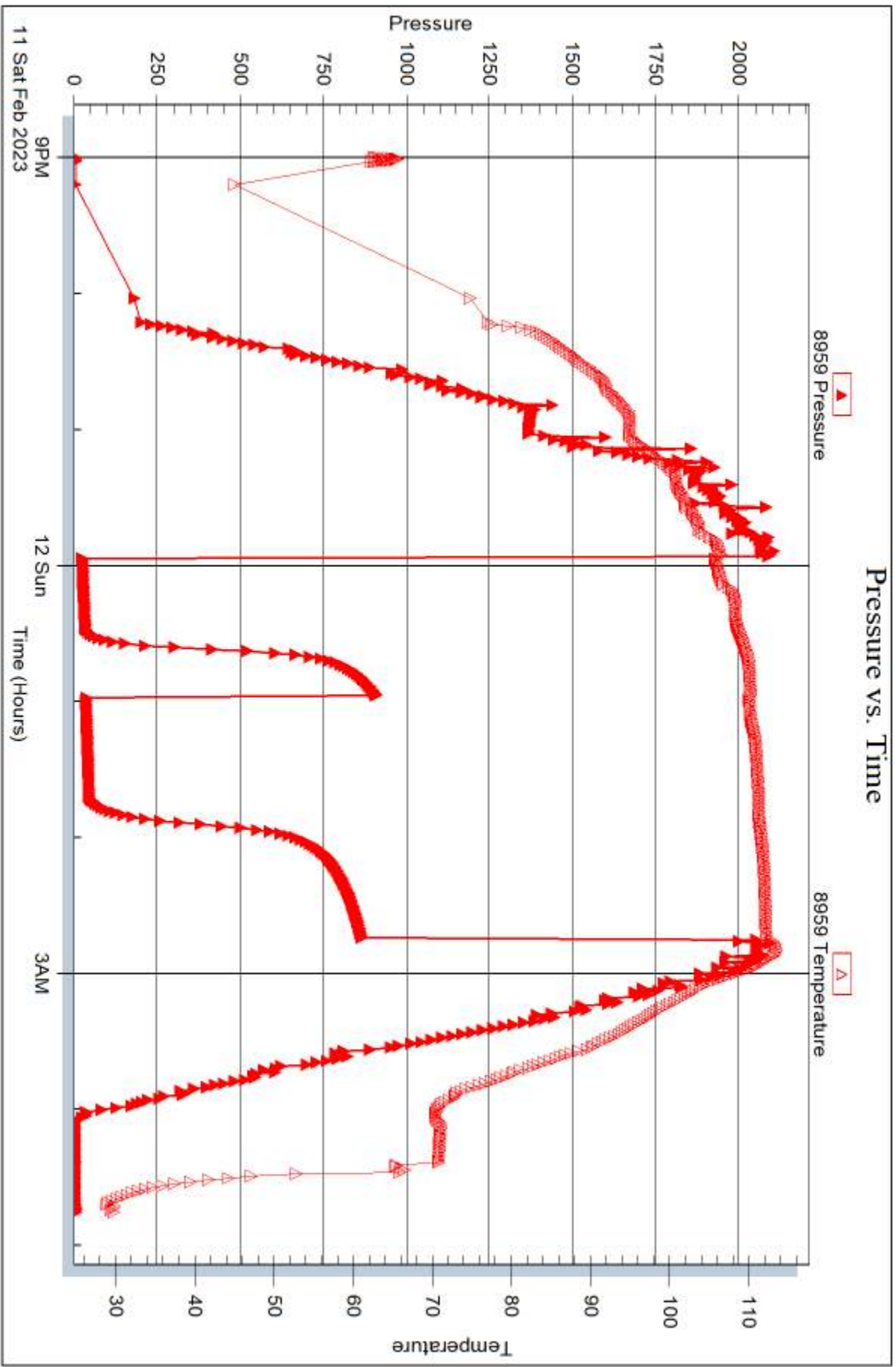
Serial #: 8959

Inside

ARP Operating LLC

Los Pinos #2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 69438

Printed: 2023.02.14 @ 11:46:17



DRILL STEM TEST REPORT

Prepared For: **ARP Operating LLC**

730 17TH ST.
#715
Denver, CO 80202

ATTN: Sean Deenihan

Los Primos #2

26-10S.-33W. Thomas,KS

Start Date: 2023.02.12 @ 14:25:00

End Date: 2023.02.12 @ 20:13:30

Job Ticket #: 69439 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.02.14 @ 11:45:33



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

ARP Operating LLC

26-10S.-33W. Thomas,KS

730 17TH ST.
#715
Denver, CO 80202
ATTN: Sean Deenihan

Los Primos #2

Job Ticket: 69439

DST#: 2

Test Start: 2023.02.12 @ 14:25:00

GENERAL INFORMATION:

Formation: **LKC "K - L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:19:50

Time Test Ended: 20:13:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4284.00 ft (KB) To 4336.00 ft (KB) (TVD)

Reference Elevations: 3096.00 ft (KB)

Total Depth: 4336.00 ft (KB) (TVD)

3088.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 61.25 psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.12

End Date:

2023.02.12

Last Calib.:

2023.02.12

Start Time: 14:25:01

End Time:

20:13:30

Time On Btm:

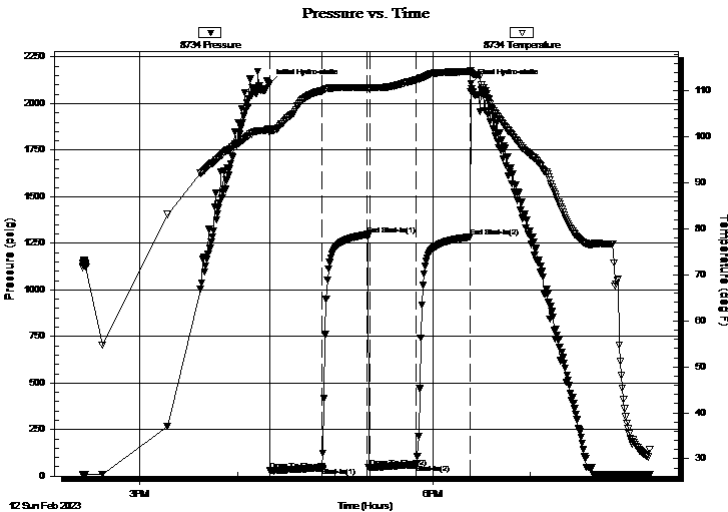
2023.02.12 @ 16:19:40

Time Off Btm:

2023.02.12 @ 18:23:40

TEST COMMENT: 30-IF-Blow built to 3"
30-ISI-No return
30-FF-Blow built to 2"
30-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.51	101.76	Initial Hydro-static
1	28.85	100.96	Open To Flow (1)
32	45.27	110.00	Shut-In(1)
61	1297.00	110.75	End Shut-In(1)
62	47.20	110.66	Open To Flow (2)
91	61.25	112.38	Shut-In(2)
124	1284.15	114.17	End Shut-In(2)
124	2107.15	114.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	MCW w/Oil scum 45%M, 55% W	0.98

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

ARP Operating LLC
730 17TH ST.
#715
Denver, CO 80202
ATTN: Sean Deenihan

26-10S.-33W. Thomas, KS

Los Primos #2

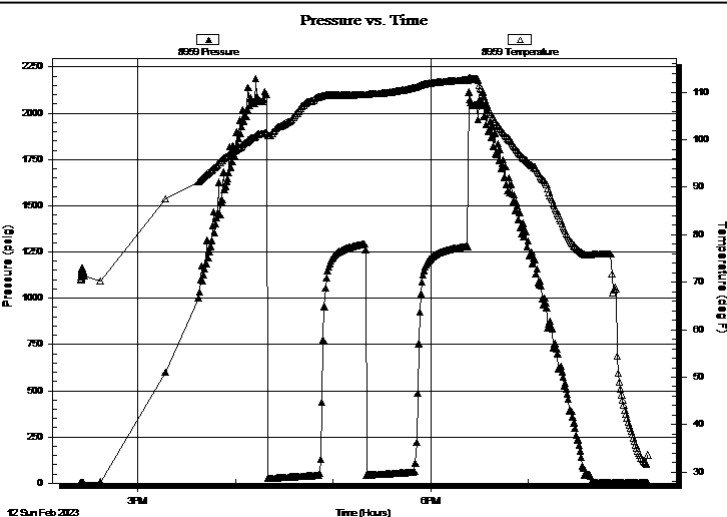
Job Ticket: 69439 **DST#: 2**
Test Start: 2023.02.12 @ 14:25:00

GENERAL INFORMATION:

Formation: **LKC "K - L "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 16:19:50 Tester: Martine Salinas
Time Test Ended: 20:13:30 Unit No: 82
Interval: 4284.00 ft (KB) To 4336.00 ft (KB) (TVD) Reference Elevations: 3096.00 ft (KB)
Total Depth: 4336.00 ft (KB) (TVD) 3088.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8959 Inside
Press@RunDepth: psig @ 4285.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2023.02.12 End Date: 2023.02.12 Last Calib.: 2023.02.12
Start Time: 14:25:01 End Time: 20:13:30 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Blow built to 3"
30-ISI-No return
30-FF-Blow built to 2"
30-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	MCW w/Oil scum 45%M, 55% W	0.98

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

ARP Operating LLC

26-10S.-33W. Thomas,KS

730 17TH ST.

Los Primos #2

#715

Job Ticket: 69439

DST#: 2

Denver, CO 80202

ATTN: Sean Deenihan

Test Start: 2023.02.12 @ 14:25:00

Tool Information

Drill Pipe:	Length: 4285.00 ft	Diameter: 3.80 inches	Volume: 60.11 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4284.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4252.00	
Shut In Tool	5.00			4257.00	
Hydraulic tool	5.00	1113		4262.00	
Jars	5.00	01-07		4267.00	
EM Tool	5.00			4272.00	
Safety Joint	3.00	-001		4275.00	
Packer	5.00			4280.00	33.00 Bottom Of Top Packer
Packer	4.00			4284.00	
Packer - Shale	0.00			4284.00	
Stubb	1.00			4285.00	
Recorder	0.00	8959	Inside	4285.00	
Recorder	0.00	8734	Outside	4285.00	
Perforations	12.00			4297.00	
Change Over Sub	1.00			4298.00	
Drill Pipe	32.00			4330.00	
Change Over Sub	1.00			4331.00	
Bullnose	5.00			4336.00	52.00 Bottom Packers & Anchor
Total Tool Length:	85.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

ARP Operating LLC

26-10S.-33W. Thomas,KS

730 17TH ST.

Los Primos #2

#715

Job Ticket: 69439

DST#: 2

Denver, CO 80202

Test Start: 2023.02.12 @ 14:25:00

ATTN: Sean Deenihan

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	MCW w/Oil scum 45%M, 55% W	0.982

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

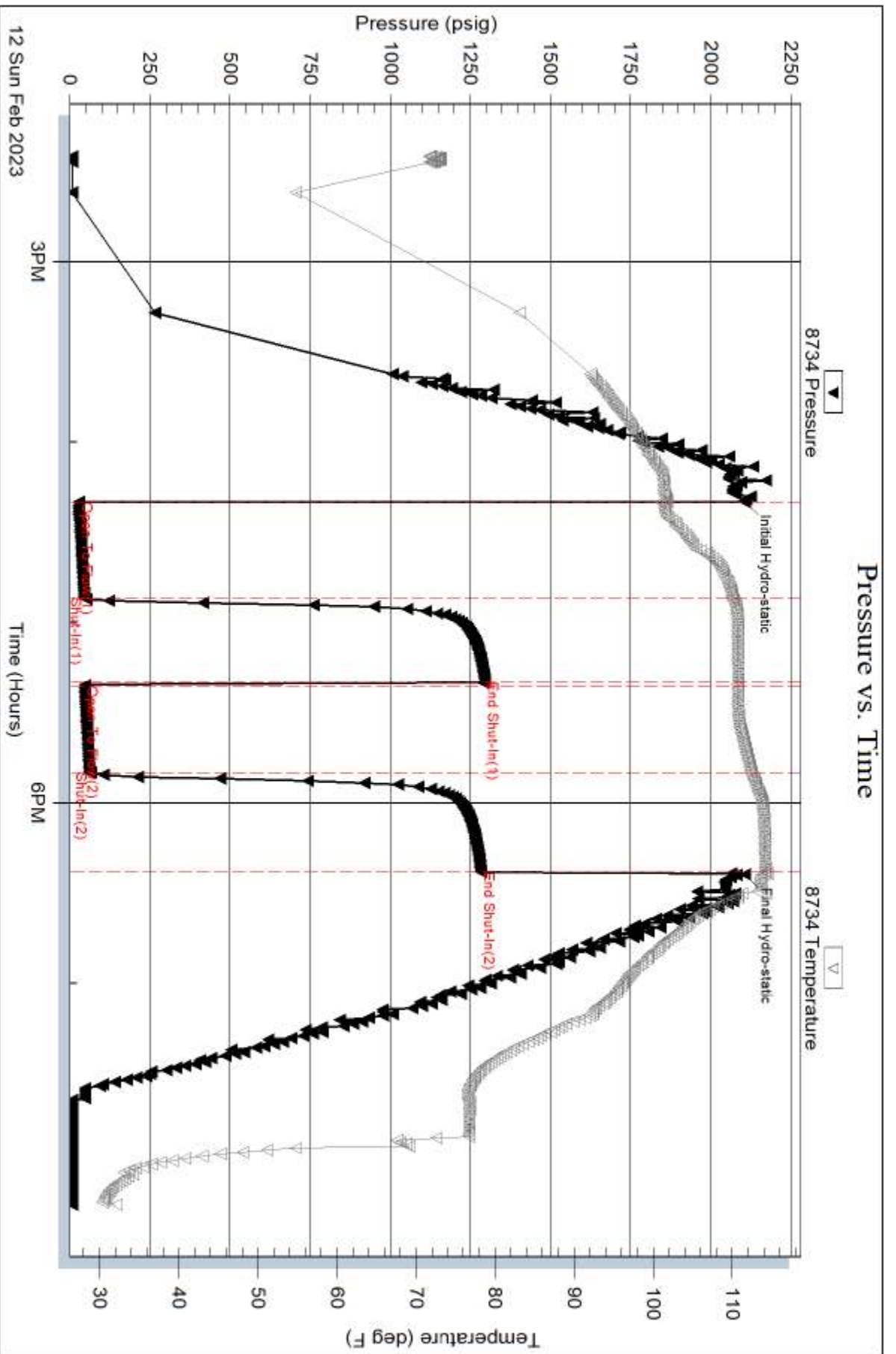
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .523 @ 34.5 degs = 28,000 PPM



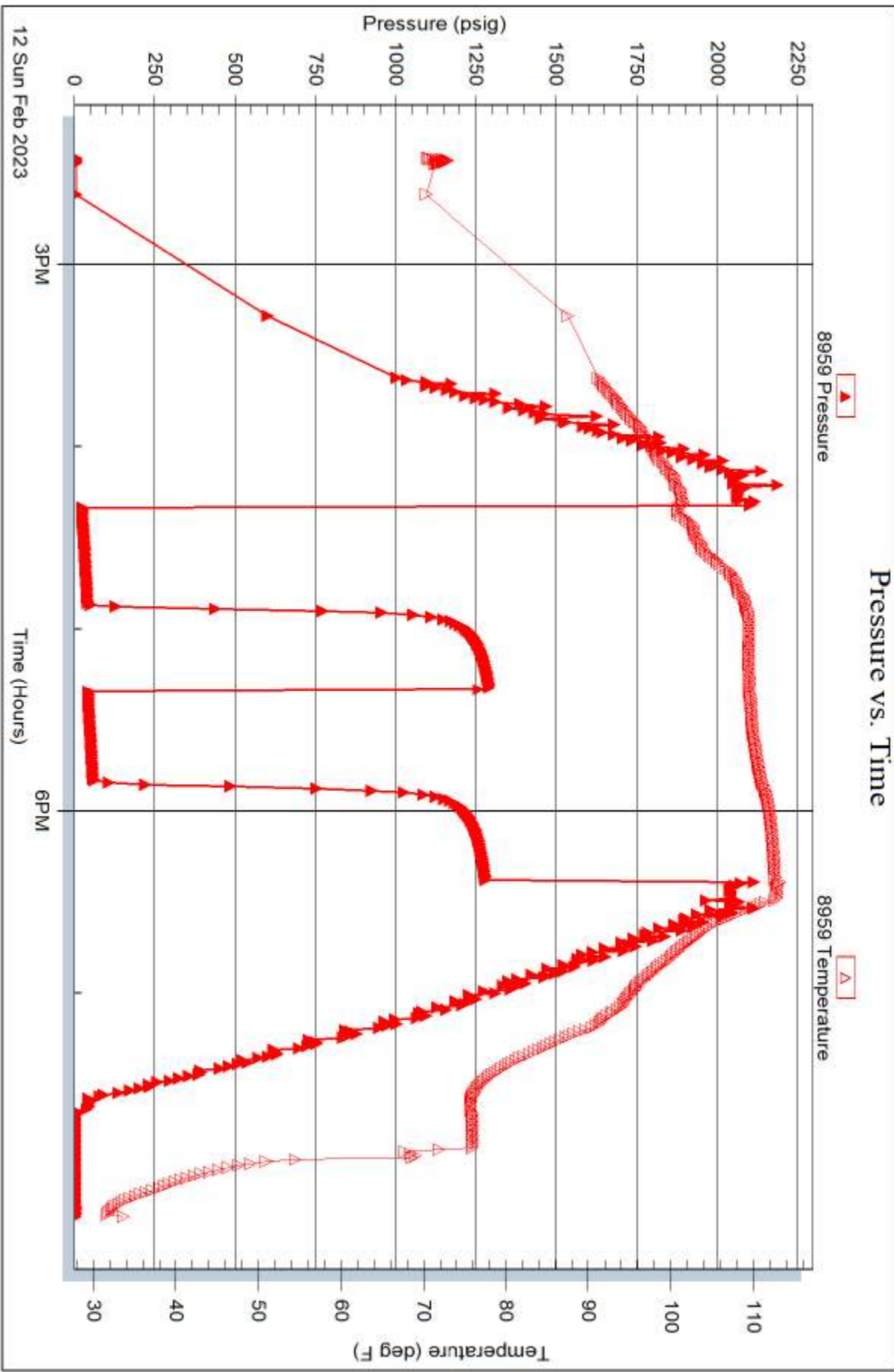
Serial #: 8959

Inside

ARP Operating LLC

Los Pinos #2

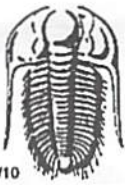
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69439

Printed: 2023.02.14 @ 11:45:34



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69438**

Well Name & No. Los Primas #2 Test No. 1 Date 2-11-23
 Company ARP Operating LLC Elevation 3096 KB 3088 GL
 Address 730 17th St. # 715 Denver, CO 80202
 Co. Rep / Geo. Sean Deenihan Rig Duke#1
 Location: Sec. 26 Twp 10S. Rge. 33W. Co. Thomas. State KS.

Interval Tested 4230 - 4282 Zone Tested Lansing "I-J"
 Anchor Length 52' Drill Pipe Run 4221 Mud Wt. 9.6
 Top Packer Depth 4225 Drill Collars Run — Vls 60
 Bottom Packer Depth 4230 (Shale) Wt. Pipe Run — WL 6.4
 Total Depth 4282 Chlorides 2900 ppm System LCM 4#
 Blow Description IF - Blow built to 2 3/4"

ISI - No return.

FF - Blow built to 3"

FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GHOCM</u>	<u>8</u>	<u>37</u>	<u>55</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 113 Gravity — API RW — @ — F Chlorides — ppm

- (A) Initial Hydrostatic 2096
- (B) First Initial Flow 28
- (C) First Final Flow 37
- (D) Initial Shut-In 912
- (E) Second Initial Flow 41
- (F) Second Final Flow 49
- (G) Final Shut-In 869
- (H) Final Hydrostatic 2109

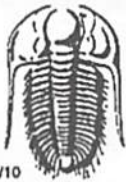
- Test ¹⁹⁵⁰
- Jars ³⁰⁰
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 122RT ^{213.50}
- Sampler
- Straddle
- Shale Packer ²⁵⁰
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2713.50

- T-On Location 19:30
- T-Started 21:00
- T-Open 23:56
- T-Pulled 02:41
- T-Out 04:45
- Comments
- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 2713.50
- MP/DST Disc't

Approved By _____

Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69439**

Well Name & No. Los Primas #2 Test No. 2 Date 2-12-23
 Company ARP Operating LLC Elevation 3096 KB 3088 GL
 Address 730 17th St. #715 Denver, CO 80202
 Co. Rep / Geo. Sean Dechiben Rig Duke #1
 Location: Sec. 26 Twp 10S. Rge. 33W. Co. Thomas State KS

Interval Tested 4284-4336 Zone Tested Lansing "K-L"
 Anchor Length 52' Drill Pipe Run 4285 Mud Wt. 9.2
 Top Packer Depth 4279 Drill Collars Run — Vis 60
 Bottom Packer Depth 4284 (Snake) Wt. Pipe Run — WL 7.2
 Total Depth 4336 Chlorides 2400 ppm System LCM 3#
 Blow Description IF - Blow built to 3"
ISI - No return
FF - Blow built to 2"
ESE - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Feet of MLW w/oil scum.</u>		<u>55</u>	<u>45</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70 BHT 114° Gravity — API RW .523 @ 34.5° F Chlorides 28,000 ppm

(A) Initial Hydrostatic <u>2107</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>14:15</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>14:25</u>
(C) First Final Flow <u>45</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>16:20</u>
(D) Initial Shut-In <u>1297</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>18:20</u>
(E) Second Initial Flow <u>47</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:14</u>
(F) Second Final Flow <u>61</u>	<input checked="" type="checkbox"/> Mileage <u>122 RT</u> ^{213.50}	Comments <u>Tools loaded @</u>
(G) Final Shut-In <u>1284</u>	<input type="checkbox"/> Sampler	<u>21:00</u>
(H) Final Hydrostatic <u>2107</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer ²⁵⁰	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2713.50</u>
	Sub Total <u>2713.50</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the 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.

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER _____
 LOCATION Hoxie
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-1-23		Los Primas 2	24	10S	35N	Thomas
CUSTOMER <u>ARP</u>			TRUCK #		DRIVER	
MAILING ADDRESS			103		Tom W	
CITY			202		Chris K	
STATE			203		Secret	
ZIP CODE						

JOB TYPE Part Collar HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting + set up on well. Mix 3200# gel with 2500# hulls. no circulation. Pump 100 bbl drilling mud, no circulation. Mix 400# 60/40 890 with 2500# hulls - no circulation. Displace 15 bbl. Shot part collar. Run 5 joints + washed clean.

Rack up maov 0.5

Thanks Tom & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT
PL003	1	PUMP CHARGE <u>Part Collar</u>
ma01	47	MILEAGE
ma02	22.59 tons	Tan Mileage Delivery
ma04	47	medium truck charge
CB021	400#	60/40 890 1/2" flo seal
CP016	5000#	calten seed hulls
CP003	3200#	gel
		less \$

HORIZONTAL _____ TITLE _____

I hereby acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's order, and conditions of service on the back of this form are in effect for services identified on this form.