

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 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)</i> <i>(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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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 0529
 LOCATION Victoria
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-14-22	35695	Hudson 1-15	15	12	20W	Ellis

CUSTOMER	MAILING ADDRESS	CITY	STATE	ZIP CODE
ARP Operating	1444 Wazee Street Suite 125	Denver	CO	80202

TRUCK #	DRIVER	TRUCK #	DRIVER
101	Tom W		
#2/10.3	Sade T		
	Preston P		

JOB TYPE DV Tool HOLE SIZE _____ HOLE DEPTH 4096' CASING SIZE & WEIGHT 5 1/2" 15.5 #
 CASING DEPTH 4092' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.81 SLURRY VOL 1.41 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & set up on Duke #4. Hooked up head & man. fold. Circulated & resperated for one hr. Mix 50 sacks 60/40 followed by 150 sacks OWC. Wash clean. Pump plug with 96.5 Bbl water & mud. Pressure to 200psi. Release pressure & dropped dart. 20 min. Release tool. Circulate for 3 hrs. Mix 425 sacks 395 down casing 30-RIT. Wash clean. Pump top plug with 4 1/4 Bbl. Release pressure. Break down head - Rack up made off. Cement dk circulate. Plug down 8:50 pm. Thanks Tom & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC004	1	PUMP CHARGE DV Tool	\$2500 ⁰⁰	\$2500 ⁰⁰
MA01	21	MILEAGE	\$6 ⁵⁰	\$136 ⁵⁰
MO02	30.90 tons	Tan Mileage delivery	\$973 ³⁵	\$973 ³⁵
LB030	150 sacks	Class A 2% plastic 10% salt 2% gel 5# Kalsol	\$28 ⁵⁶	\$4282 ⁵⁰
LE003	1	head & manifold		
LB021	750 475	60/40 89 gel 1/4" 50 gal	\$17 ³⁵	\$8241 ²⁵
FE0033	1	5 1/2" AFU guide shoe	\$400 ⁰⁰	\$400 ⁰⁰
FE022	3	5 1/2" baskets	\$385 ⁶⁰	\$1155 ⁰⁰
FE014	8	5 1/2" turbolizers	\$108 ⁰⁰	\$864 ⁰⁰
FE051	1	5 1/2" hatch down plug essy.	\$695 ⁰⁰	\$695 ⁰⁰
FE059	1	5 1/2" DV Tool IR	\$4200 ⁰⁰	\$4200 ⁰⁰
CP013	1000 gal	Mud Flash	\$1 ⁰⁰	\$1000 ⁰⁰
CP014	2 gal	KCL	\$30 ⁰⁰	\$60 ⁰⁰
			sub total	\$24,707 ⁶⁰
			less 15% disc.	\$3,706 ¹⁴
			sub total	\$21,001 ⁴⁶
			SALES TAX	1255.32
			ESTIMATED TOTAL	22256.78

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.

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 0525
 LOCATION Tom Williams
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
3-11-22	35695	Hudson 1-15	19	12	20W	Ellis																
CUSTOMER 1444 Wazee Street Suite 125 MAILING ADDRESS			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>Proctor D</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Brennan</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Tom Wi</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	101	Proctor D				Brennan				Tom Wi		
TRUCK #	DRIVER	TRUCK #	DRIVER																			
101	Proctor D																					
	Brennan																					
	Tom Wi																					
CITY Denver	STATE CO	ZIP CODE 80202																				

JOB TYPE surface HOLE SIZE 12 1/4" HOLE DEPTH 224' CASING SIZE & WEIGHT 8 5/8" 24#
 CASING DEPTH 224' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.7 SLURRY VOL 1.3 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 13 Bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & set up on Puke # 4. Put 175 sacks & displaced 13 Bbl. Cement did circulate
Plug down 9:00 pm

Thanks Tom & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
FUB02	1	PUMP CHARGE <u>Surface</u>	\$1150 ⁰⁰	\$1150 ⁰⁰
MO01	21	MILEAGE	\$6 ⁵⁰	\$126 ⁵⁰
MO02	5.64 tons	Ton mileage delivery	\$100 ⁰⁰	\$400 ⁰⁰
LB004	175 sacks	Class A 3900 28gal	\$24 ⁵⁰	\$4,287 ⁵⁰
			sub total	\$6,174 ⁰⁰
			less 15% disc.	\$926 ¹⁰
			sub total	\$5,247 ⁹⁰
			SALES TAX	255.11
			ESTIMATED TOTAL	5503.01

AUTHORIZATION Hector Torres 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.



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

ARP Operating LLC
1444 Wazee Street Suite 125
Denver, CO 80202
ATTN: Sean Deenihan

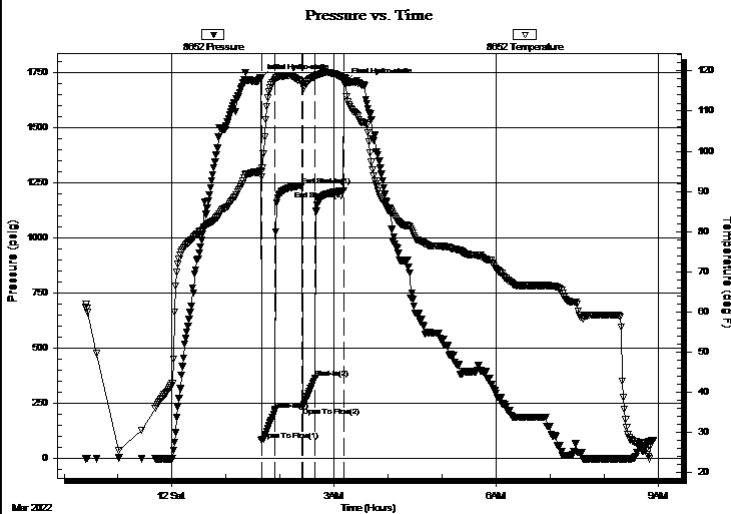
15_12_20 Ellis KS
Hudson #1-15
Job Ticket: 68345 **DST#: 1**
Test Start: 2022.03.11 @ 22:24:00

GENERAL INFORMATION:

Formation: **LKC B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:39:15
Time Test Ended: 08:54:30
Interval: **3622.00 ft (KB) To 3674.00 ft (KB) (TVD)**
Total Depth: 3674.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Day
Unit No: 70
Reference Elevations: 2289.00 ft (KB)
2281.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8652 Outside
Press@RunDepth: 365.91 psig @ 3623.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.03.11 End Date: 2022.03.12 Last Calib.: 2022.03.12
Start Time: 22:24:05 End Time: 08:54:30 Time On Btm: 2022.03.12 @ 01:39:00
Time Off Btm: 2022.03.12 @ 03:11:30

TEST COMMENT: IF-15- BOB in 1 min. Built to 142"
SI1-30- BOB in 7 min. Built to 37"
FF-15- BOB in 30 sec. Built to 75 3/4"
SI2-30- BOB in 29 min. Built to 12 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1724.20	94.89	Initial Hydro-static
1	84.35	93.61	Open To Flow (1)
16	221.79	117.78	Shut-In(1)
46	1237.26	117.26	End Shut-In(1)
46	232.92	116.82	Open To Flow (2)
61	365.91	118.57	Shut-In(2)
92	1213.80	118.20	End Shut-In(2)
93	1704.40	118.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GMCO 10% gas 60% oil 30% mud	0.88
1154.00	GO 30% gas 70% oil	16.19
0.00	1283' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

ARP Operating LLC

15_12_20 Ellis KS

1444 Wazee Street Suite 125
Denver, CO 80202

Hudson #1-15

Job Ticket: 68345

DST#: 1

ATTN: Sean Deenihan

Test Start: 2022.03.11 @ 22:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	GMCO 10% gas 60% oil 30% mud	0.884
1154.00	GO 30% gas 70% oil	16.188
0.00	1283' GIP	0.000

Total Length: 1217.00 ft

Total Volume: 17.072 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

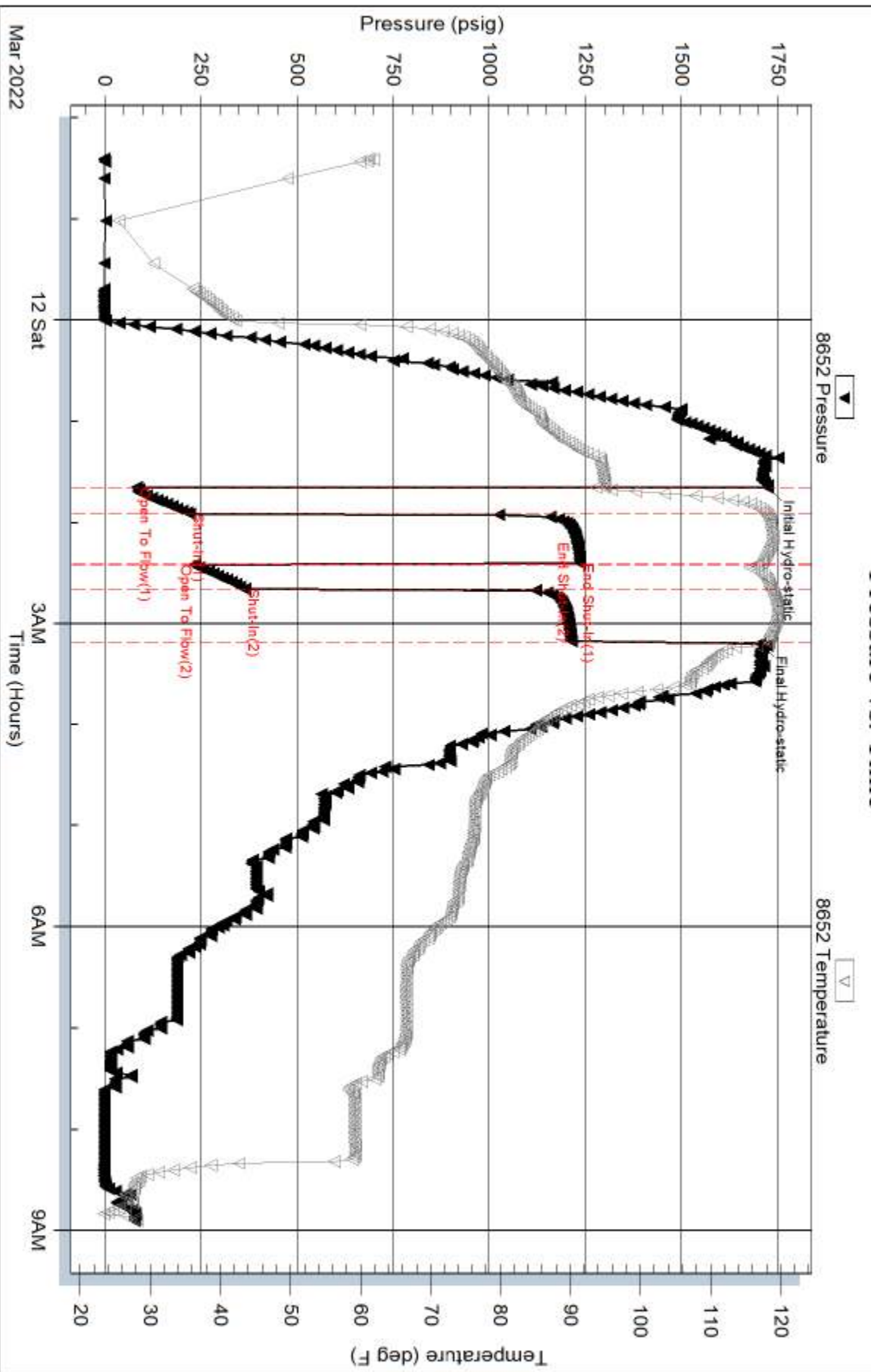
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM

Pressure vs. Time



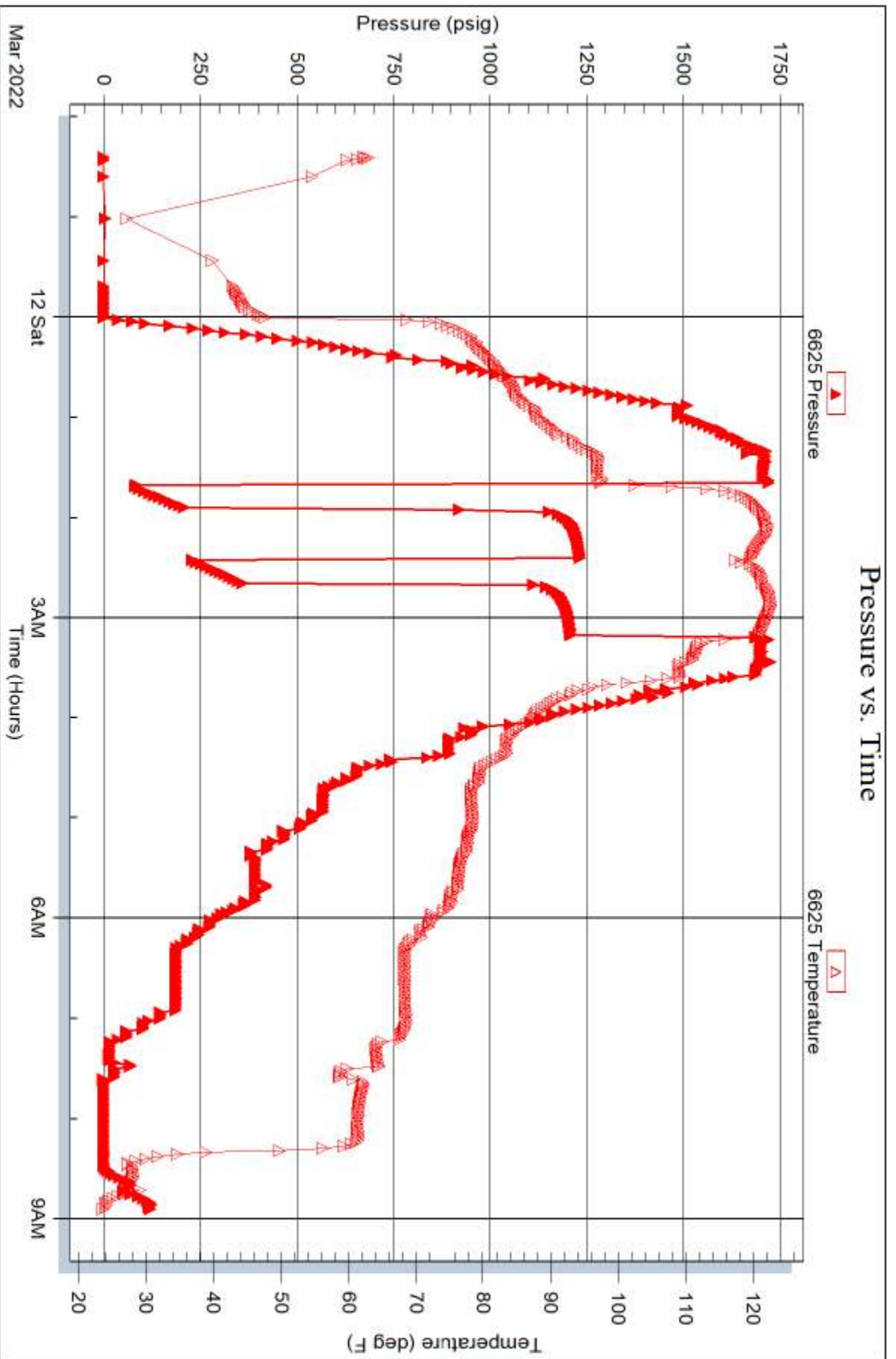
Serial #: 6625

Inside

ARP Operating LLC

Hudson #1-15

DST Test Number: 1





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

ARP Operating LLC
1444 Wazee Street Suite 125
Denver, CO 80202
ATTN: Sean Deenihan

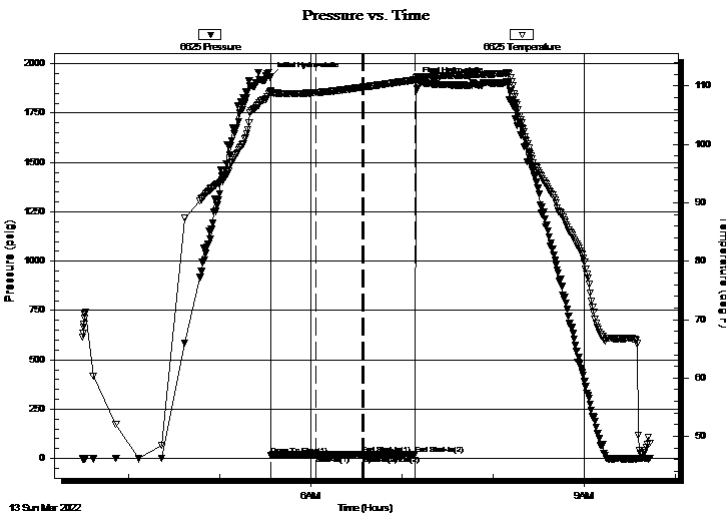
15_12_20 Ellis KS
Hudson #1-15
Job Ticket: 68346 **DST#: 2**
Test Start: 2022.03.13 @ 03:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:34:00
Time Test Ended: 09:42:45
Interval: **3979.00 ft (KB) To 3990.00 ft (KB) (TVD)**
Total Depth: 3990.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole (Reset)
Tester: Dustin Day
Unit No: 70
Reference Elevations: 2289.00 ft (KB)
2281.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625 Inside
Press@RunDepth: 18.31 psig @ 3980.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.03.13 End Date: 2022.03.13 Last Calib.: 2022.03.13
Start Time: 03:30:05 End Time: 09:42:44 Time On Btm: 2022.03.13 @ 05:33:45
Time Off Btm: 2022.03.13 @ 07:09:00

TEST COMMENT: IF-30- Built to 1/2"
SI1-30- No return
FF- Turned the tool 5 times to open it back up and the table continued to turn another 4 times so we went straight to SI2-
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.20	109.15	Initial Hydro-static
1	16.09	108.89	Open To Flow (1)
30	18.56	108.85	Shut-In(1)
61	21.73	109.78	End Shut-In(1)
61	18.35	109.78	Open To Flow (2)
61	18.31	109.80	Shut-In(2)
95	20.11	111.03	End Shut-In(2)
96	1908.29	111.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

ARP Operating LLC

15_12_20 Ellis KS

1444 Wazee Street Suite 125
Denver, CO 80202

Hudson #1-15

Job Ticket: 68346

DST#: 2

ATTN: Sean Deenihan

Test Start: 2022.03.13 @ 03:30:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud 100%	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

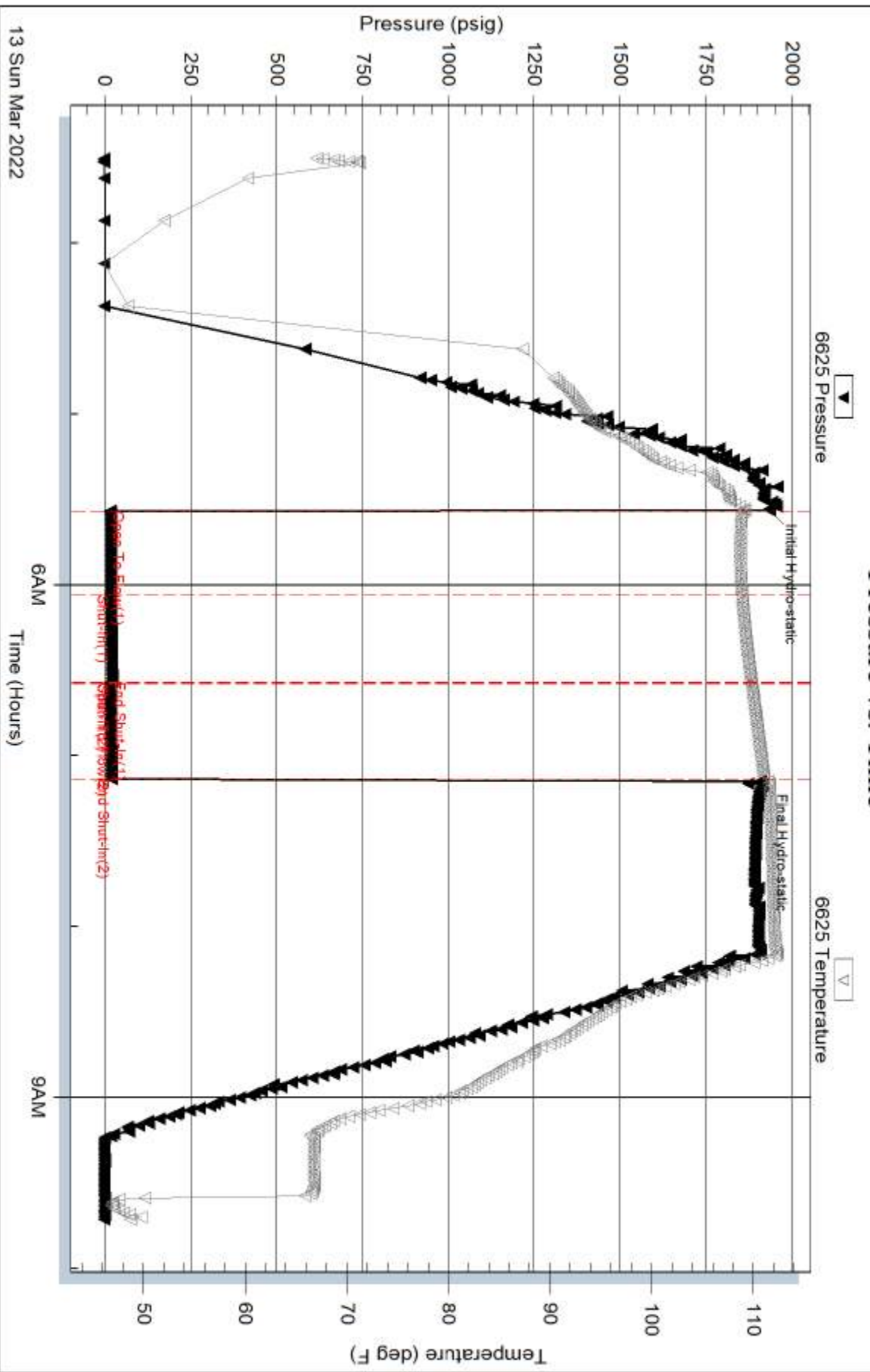
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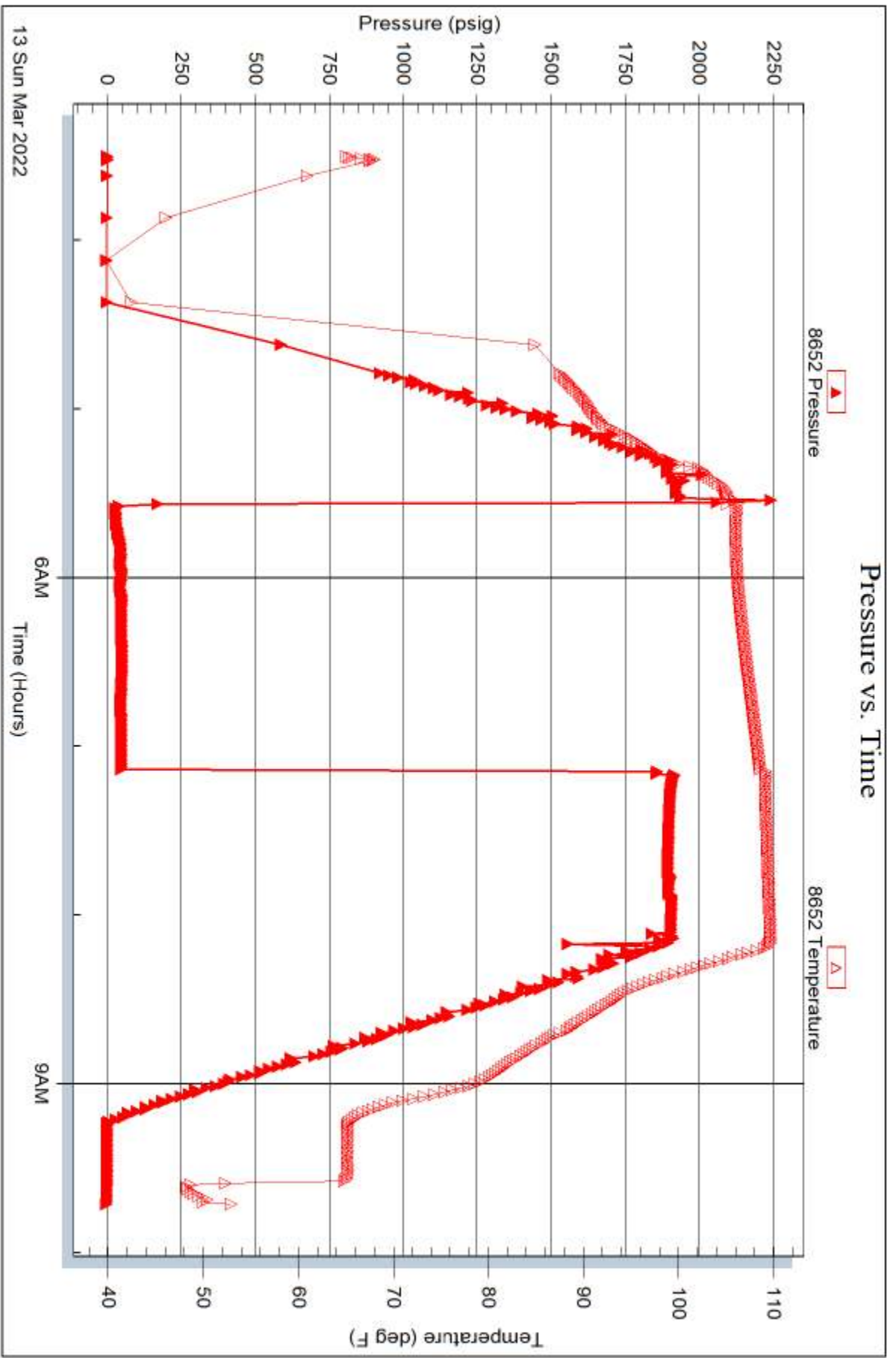
Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM

Pressure vs. Time





Sean Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	ARP Operating, LLC
LEASE	Hudson #1-15
FIELD	Wildcat
LOCATION	1150' ENL & 959' FWL
SEC	15 TWP 12S RGE 20W
COUNTY	Ellis STATE Kansas
CONTRACTOR	Duke Drilling Rig #4
SPUD	3/07/22 COMP 3/13/22
RTD	4096' LTD 4094'
MUD UP	3500' TYPE MUD Chemical
SAMPLES SAVED FROM	3500' TO RTD
DRILLING TIME KEPT FROM	3500' TO RTD
SAMPLES EXAMINED FROM	3500' TO RTD
GEOLOGICAL SUPERVISION FROM	3500'
REFERENCE WELL	

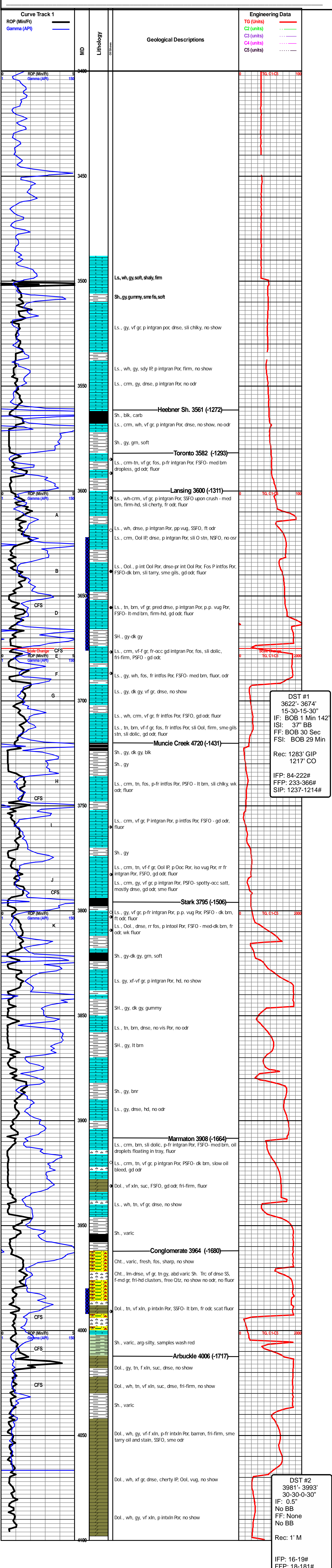
ELEVATIONS	KB 2289'
DF	
GL	2281'
Measurements Are All From Kelly Busting	
CASING	CONDUCTOR 8-5/8" at 224' SURFACE 5.5" @ 4094' PRODUCTION 5.5" @ 4094'
ELECTRICAL SURVEYS	Midwest Wireline CND/DIL. MIC/SON

Formation	Sample Tops	E-log Tops	Struct. Pos.
Anhydrite		1781 (-4560)	
Heebner Sh.		3561 (-1272)	
Lansing		3600 (-1311)	
Muncie Ck.		3720 (-1431)	
Stark Sh.		3800 (-1511)	
BKC		3840 (-1551)	
Arbuckle		4006 (-1717)	

REMARKS: The Hudson #1-15 had great sample shows through the Lansing and oil recovery on DST #1. Therefore, the well was completed with 5.5" production casing in anticipation of a good well.

Respectfully Submitted,

Sean P. Deenihan



RTD: 4096'
LTD: 4612'

ARP OPERATING, LLC
Hudson #1-15
15-12S-20W
Ellis Co., KS

KB: 2289'

DST #1
3622' - 3674'
15-30-15-30"
IF: BOB 1 Min 142"
ISI: 37" BB
FF: BOB 30 Sec
FSI: BOB 29 Min
Rec: 1283' GIP
1217' CO
IFP: 84-222#
FFP: 233-366#
SIP: 1237-1214#

DST #2
3981' - 3993'
30-30-0-30"
IF: 0.5"
No BB
FF: None
No BB
Rec: 1' M
IFP: 16-19#
FFP: 18-181#
SIP: 22-20#