

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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CEMENT TREATMENT REPORT

Customer:	Suemaaur Exploration	Well:	Fortin/Long 1-28	Ticket:	ICT 2916
City, State:		County:	Decatur KS	Date:	12/12/2019
Field Rep:		S-T-R:	28-2S-27W	Service:	PTA

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	3950 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	4 1/2 DP in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	bbls

Calculated Slurry	
Weight:	13.5 # / sx
Water / Sx:	6.89 gal / sx
Yield:	1.42 ft ³ / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	68.3 bbls
Total Sacks:	270 sx

Product	% / #	#
Class A	60.00	
Poz	40.00	
Gel	4.00	0
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
Total		-

TIME	RATE	PSI	BBLs	REMARKS
345A				ON LOCATION
400A				SAFETY MEETING
410A				RIG UP
445A				INSTALL PLUGGING PIN
450A	3.5	150.0	5.0	H2O AHEAD
452A	3.0	200.0	12.6	CEMENT 50 SKS H-PLUG @ 2180 FT
454A	3.0	260.0	5.0	DISPLACE H2O
500A				DISPLACE MUD WITH RIG PUMP
540A	3.3	150.0	5.0	H2O AHEAD
542A	6.0	470.0	27.7	CEMENT 100 SKS H-PLUG @ 1385 FT
545A	3.0	120.0	13.0	DISPLACE H2O
631A	3.0	120.0	5.0	H2O AHEAD
634A	4.0	150.0	12.6	CEMENT 50 SKS H-PLUG @ 270
638A	4.0	200.0	0.5	DISPLACE H2O
731A	2.0	60.0	10.1	CEMENT 40 SKS H-PLUG @ 40 FT USE 8 5/8 WOODEN PLUG
739A	2.0	60.0	7.5	CEMENT 30 SKS H-PLUG IN RATHOLE
743A				WASH UP
750A				RIG DOWN
810A				LEFT LOCATION

CREW		UNIT	SUMMARY		
Cementer:	Jimmie Cottrell	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Josh Mosier	231	3.34545 bpm	176 psi	104 bbls
Bulk #1:	Kale Ochs	180			
Bulk #2:					

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

SUEMAUR EXPLORATION & PRODUCTION, LLC

FORTIN/LONG #1-28
SEC. 28 TWP 2S RGE 27W
NW SE NW NE
939' FNL & 1666' FEL
DECATUR COUNTY, KS
API:15-039-21267-00-00
NAD 27 LON. -100.3528617
NAD 27 LAT. 39.85469

ELEVATION

KB: 2590'
 GL: 2585'
 LOG MEASURED FROM: KB

SURFACE CASING

8-5/8" SE @217' W/250 SX

PRODUCTION CASING

D&A

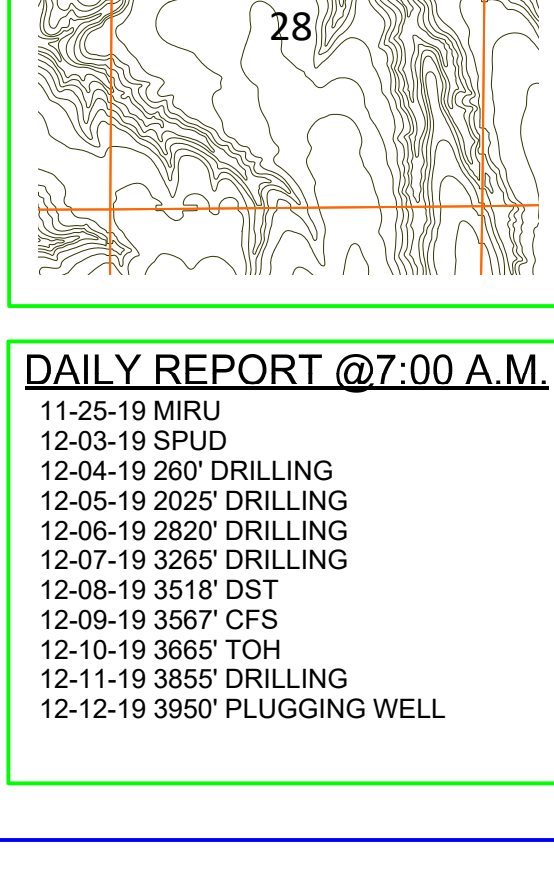
DRILLING CONTR.: MURFIN RIG #108
SPUD:12-03-2019 COMP: 12-12-2019
MUD UP: 3000' TYPE MTD: CHEM.
DRILL TIME: 3100' to RTD
RTD:3950' LTD: 3947'
SAMPLES SAVED: 3100' to RTD
GEOLOGIST: ROBERT J. PETERSEN

WELL LOG SURVEYS

DUAL INDUCTION
 COMPENSATED NEUTRON
 MICROCRESISTIVITY
 SONIC

LOG TOPS

FORMATION	DEPTH	DATUM	POS A	POS B	POS C
SC	2164	+426	-23	N/A	+20
BASE SC	2197	+393	-14	N/A	+15
TOPEKA	3303	-713	-20	-25	+14
DEER CR	3349	-759	-18	-25	+10
LB	3396	-806	-18	-23	+10
LEC.	3415	-825	-20	-24	+10
OREAD B	3449	-859	-20	-24	+13
HEEBNER	3471	-881	-22	-26	+12
TORONTO	3502	-912	-25	-29	+14
LKC	3509	-919	-20	-26	+13
C ZONE	3535	-945	-21	-26	+7
D ZONE	3548	-958	-22	-27	+12
E/F ZONE	3561	-971	-20	-25	+9
G ZONE	3582	-992	-23	-25	+10
H- ZONE	3611	-1021	-18	-22	+12
J- ZONE	3647	-1057	-20	-22	+15
STARK	3659	-1069	-21	-25	+14
BKC	3706	-1116	-19	-64	+11
ARBUCKLE	3903	-1313	-36	-42	N/A



REFERENCE WELL

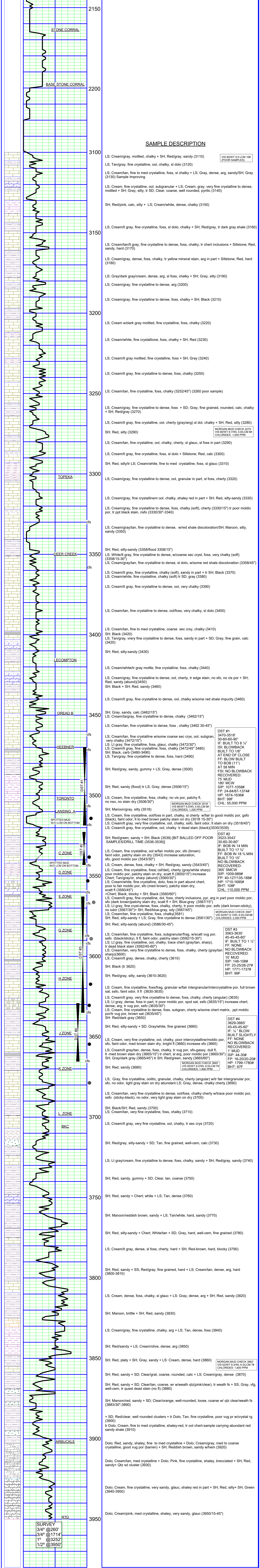
REF WELL A: MURIN DRILLING CO LONG SIMPSON 1-22 15-039-20908 700' FWL & 1200' FSL SW/4 22-2-28W	REF WELL B: DFW OIL & GAS INC SIMPSON INV. NO. 1 15-039-20486 C SW SW 22-2-27W	REF WELL C: DARK HORSE HARMON -RUSH 1-20 15-039-20985 1690' FSL & 860' FEL 20-2-27W
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REMARKS

THIS WELL WAS PLUGGED AND ABANDONED BY THE OPERATOR

DAILY REPORT @7:00 A.M.

11-25-19 MIRU
 12-03-19 SPUD
 12-04-19 260' DRILLING
 12-05-19 2025' DRILLING
 12-06-19 2820' DRILLING
 12-07-19 3265' DRILLING
 12-08-19 3518' DST
 12-09-19 3567' CFS
 12-10-19 3665' TOH
 12-11-19 3855' DRILLING
 12-12-19 3950' PLUGGING WELL



SAMPLE DESCRIPTION

LS: Cream/gray, mottled, chalky + SH; Red/gray, sandy (3110) VIS 90W/7 9.0 LCM #8 (POOR SAMPLES)

LS: Tan/gray, fine crystalline, ool, chalky, sl dolo (3120)

LS: Cream/tan, fine to med crystalline, foss, sl chalky + LS; Gray, dense, arg, sandy/SH; Gray (3130) Sample Improving

LS: Cream, fine crystalline, ool, subgranular + LS; Cream, gray, very fine crystalline to dense, mottled + SH; Gray, silty, tr SD; Clear, coarse, well rounded, pyritic (3140)

SH; Red/pink, calc, silty + LS; Cream/white, dense, chalky (3150)

LS: Cream/lt gray, fine crystalline, foss, sl dolo, chalky + SH; Red/gray, tr dark gray shale (3160)

LS: Cream/tan/lt gray, fine crystalline to dense, foss, chalky, tr chert inclusions + Siltstone; Red, sandy, hard (3170)

LS: Cream/gray, dense, foss, chalky, tr yellow mineral stain, arg in part + Siltstone; Red, hard (3180)

LS: Gray/dark gray/cream, dense, arg, sl foss, chalky + SH; Gray, silty (3190)

LS: Cream/gray, fine crystalline to dense, arg (3200)

LS: Cream/gray, fine crystalline to dense, foss, chalky + SH; Black (3210)

LS: Cream w/dark gray mottled, fine crystalline, foss, chalky (3220)

LS: Cream/white, fine crystalline, foss, chalky + SH; Red (3230)

LS: Cream/lt gray mottled, fine crystalline, foss + SH; Gray (3240)

LS: Cream/lt gray, fine crystalline to dense, foss, chalky (3250)

LS: Cream/tan, fine crystalline, foss, chalky (3252/45") (3260 poor sample)

LS: Cream/gray, fine crystalline to dense, foss + SD; Gray, fine grained, rounded, calc, chalky + SH; Red/gray (3270)

LS: Cream/lt gray, fine crystalline, ool, cherty (gray/arg) sl dol, chalky + SH; Red, silty (3280)

SH; Red, silty (3290) MORGAN MUD CHECK 3270' VIS 60W/7 8.7W/L 5.6 LCM #8 CHLORIDES: 1.000 PPM

LS: Cream/tan, fine crystalline, ool, chalky, cherty, sl glauc, sl foss in part (3290)

LS: Cream/lt gray, fine crystalline, foss, sl dolo + Siltstone; Red, calc (3300)

SH; Red, silty/tr LS; Cream/white, fine to med crystalline, foss, sl glauc (3310)

LS: Cream/gray, fine crystalline to dense, ool, granular in part, sl foss, cherty (3320)

LS: Cream/gray, fine crystalline ool, chalky, shaley red in part + SH; Red, silty-sandy (3330)

LS: Cream/gray, fine crystalline to dense, foss, chalky (soft), cherty (3330/15") tr poor moldic por, tr ppt black stain, nsfo (3330/30"-3340)

LS: Cream/gray/tan, fine crystalline to dense, w/red shale discoloration/SH; Maroon, silty, sandy (3350)

SH; Red, silty-sandy (3358/flood 3358/15")

LS: White/lt gray, fine crystalline to dense, w/coarse sec cryst, foss, very chalky (soft) (3358/15-30")

LS: Cream/gray/tan, fine crystalline to dense, sl dolo, w/pore red shale discoloration (3358/45")

LS: Cream/lt gray, fine crystalline, cherty (soft), ls, in part + tr SH; Black (3370)

LS: Cream/white, fine crystalline, chalky (soft) tr SD; gray (3380)

LS: Cream/lt gray, fine crystalline to dense, ool, very chalky (3390)

LS: Cream/tan, fine crystalline to dense, ool/foss, very chalky, sl dolo (3400)

LS: Cream/tan, fine to med crystalline, coarse sec crsy, chalky (3410)

SH; Black (3420)

LS: Tan/gray, very fine crystalline to dense, foss, sandy in part + SD; Gray, fine grain, calc (3420)

SH; Red, silty-sandy (3430)

LS: Cream/white/tr gray mottled, fine crystalline, foss, chalky (3440)

LS: Cream/gray, fine crystalline to dense, ool, cherty, tr edge stain, no sfo, no vis por + SH; Red, sandy (abund)(3450)

SH; Black + SH; Red, sandy (3460)

LS: Cream/lt gray, fine crystalline to dense, ool, chalky w/some red shale impurity (3460)

SH; Gray, sandy, calc (3462/15")

LS: Cream/ta/gray, fine crystalline to dense, chalky (3462/15")

LS: Cream/tan, fine crystalline to dense, foss, chalky (3462/30-45")

LS: Cream/tan, fine crystalline w/some chalky sec crs, ool, subgran, ssto (black/sticky), lt fl, faint odor, patchy stain (3592/15-30")

LS: Lt gray, fine crystalline, foss, glauc, chalky (3472/30")

LS: Cream/lt gray, fine crystalline, foss, chalky (3472/45" 3480)

SH; Black, carb (3480-3490)

LS: Tan/gray, fine crystalline to dense, foss, hard (3490)

SH; Red/gray, sandy, gummy + LS; Gray, dense (3500)

SH; Red, sandy (flood) tr LS; Gray, dense (3506/15")

LS: Cream, fine crystalline, foss, chalky, no vis por, patchy fl, no nso, no stain dry (3506/30")

SH; Maroon/gray, silty (3518) MORGAN MUD CHECK 3518' VIS 66W/7 9.0W/L 5.6 LCM #8 CHLORIDES: 1.200 PPM

LS: Cream, fine crystalline, ool/foss in part, chalky, sl cherty w/fair to good moldic por, gsfo (black), faint odor, lt to med brown patchy stain on dry (3518 15-30")

LS: Cream/lt gray, very fine crystalline, ool, chalky, sso, faint odor, lt stain on dry (3518/45")

LS: Cream/lt gray, fine crystalline, ool, chalky tr dead stain (black)(3530/3539)

SH; Red/green, sandy + SH; Black (3539) [BIT BALLED OFF POOR SAMPLES/DRILL TIME (3536-3539)]

LS: Cream, fine crystalline, ool w/fair moldic por, sfo (brown) faint odor, patchy stain on dry (3543) increase saturation, sfo, good moldic por (3543/30")

LS: Cream, dense, foss, chalky + SH; Red/gray, sandy (3543/45")

LS: Cream, fine crystalline, foss (csf/det), cherty (gray/white sharp) poor moldic por, patchy stain on dry, scatt fl + SH; Blue-gray (3567/15")

LS: Cream/tan, fine crystalline, foss, chalky(3581)

LS: Cream/white, fine crystalline, dolo, foss in part abund chert, poor to fair moldic por, sfo (med brown), patchy stain dry, scatt fl (3560/45")

+Chert, Black, blocky + SH; Black (3560/60")

LS: Cream/lt gray, fine crystalline, dol, foss, cherty inclusions, pyr, arg in part poor moldic por, sfo (dark brown) patchy stain dry, scatt fl + SH; Blue-gray (3567/15")

LS: Lt gray, dense, foss in part, tr poor moldic por, spot sat, sso (3635/15") increase chert, dense, arg, tr vug por, sso (3635/30")

LS: Cream, fine crystalline to dense, foss, subgran, cherty w/some chert matrix, ppt moldic por/tr vug por, brown sat (3635/45")

SH; Red/dark gray (3650)

SH; Red, silty-sandy + SD; Gray/white, fine grained (3660)

LS: Cream, very fine crystalline, ool, chalky, poor intercrystalline/moldic por, sfo, faint odor, med brown stain dry, bright fl (3660) increase sfo (3665)

LS: Cream/lt gray, dense, foss, chalky, tr vug por, sfo-gassy, dull fl, lt-med brown stain dry (3665/15") tr chert, sl arg, poor moldic por (3665/30")

SH; Gray/dark gray (3665/45") tr SH; Red/green, sandy (3665/60")

SH; Red, sandy (3680) MORGAN MUD CHECK 3665' VIS 56W/7 9.2W/L 6.0 LCM #7 CHLORIDES: 1.800 PPM

LS: Gray, fine crystalline, oolitic, granular, chalky, cherty (angular) w/tr fair intergranular por, sfo, no odor, light gray stain on dry abundant LS; Gray, dense, chalky cherty (3690)

SH; Black/SH; Red, sandy (3700)

LS: Cream/tan, very fine crystalline, foss, chalky (3710)

LS: Cream/lt gray, very fine crystalline, ool, chalky, tr sec crys (3720)

SH; Red/gray, silty-sandy + SD; Tan, fine grained, well-cem, calc (3730)

LS: Lt gray/cream, fine crystalline to dense, foss, chalky + SH; Red/gray, sandy (3740)

SH; Red, sandy, gummy + SD; Clear, tan, coarse (3750)

SH; Red, sandy + Chert; white + LS; Tan, dense (3760)

SH; Maroon/reddish brown, sandy + LS; Tan/white, hard, sandy (3770)

SH; Red, silty-sandy + Chert; White/tan + SD; Gray, hard, well-cem, fine grained (3780)

LS: Cream/lt gray, dense, sl foss, cherty, hard + SH; Red-brown, hard, blocky (3790)

SH; Red, sandy + SS; Red/gray, fine grained, hard + LS; Cream/tan, dense, arg, hard (3800-3810)

LS: Cream, dense, foss, chalky, sl glauc + LS; Gray, dense, arg + SH; Red, sandy (3820)

SH; Maroon, brittle + SH; Red, sandy (3830)

LS: Cream/gray, fine crystalline, chalky, arg + LS; Tan, dense, foss (3840)

SH; Red/sandy + LS; Cream/olive, dense, arg (3850)

SH; Red, platy + SH; Gray, sandy + LS: Cream, dense, hard (3860) MORGAN MUD CHECK 3862' VIS 52W/7 9.3W/L 6.0 LCM #7 CHLORIDES: 1.800 PPM

SH; Red, sandy + SD; Clear/grat, coarse, rounded, calc + LS; Cream/gray, dense (3870)

SH; Red, sandy + SD; Clear/tan, coarse, wr w/wealth qtz(pink/red), tr weath fs + SS; Gray, vfg, well-cem, tr quest dead stain (no fl) (3880)

SH; Maroon/red, sandy + SD; Clear/orange, well-rounded, loose, coarse w/ qtz clear/weath fs (3883/30"-3890)

+ SD; Red/clear, well rounded clusters + tr Dolo; Tan, fine crystalline, poor vug pr w/crystal rg tr Dolo; Cream, fine to med crystalline, shaley-red, tr ool chert-sample carrying abundant red sandy shale (3910)

Dolo; Red, sandy, shaley, fine to med crystalline + Dolo; Cream/gray, med to coarse crystalline, good vug por (barren) + SH; Reddish brown, sandy whem (3920)

Dolo; Cream/tan, med crystalline + Dolo; Pink, fine crystalline, shaley, brecciated + SH; Red, sandy+ Qtz sd cluster (3930)

Dolo; Cream, fine crystalline, very sandy, glauc, shaley red in part + SH; Red, silty+ SH; Green (3940-3950)

Dolo; Cream/pink, med crystalline, shaley, very sandy, glauc (3950/15-45")

SUEMAUR EXPLORATION & PRODUCTION, LLC
 FORTIN/LONG #1-28
 SEC. 28 TWP 2S RGE 27W
 2585' GL/2590' KB
 NW SE NW NE
 939' FNL & 1666' FEL
 DECATUR COUNTY, KS
 API:15-039-21267-00-00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Suema Exploration & Production LLC

28/2s/27w Decatur KS

555 N Carancahua STE 1230
Corpus Christi, TX 78401

Fortin/ Long #1-28

Job Ticket: 66404

DST#: 1

ATTN: Bob Peterson

Test Start: 2019.12.08 @ 03:00:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:50:00

Time Test Ended: 10:22:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: **3470.00 ft (KB) To 3518.00 ft (KB) (TVD)**

Reference Elevations: 2590.00 ft (KB)

Total Depth: 3518.00 ft (KB) (TVD)

2585.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 136.59 psig @ 3471.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.08

End Date: 2019.12.08

Last Calib.: 2019.12.08

Start Time: 03:00:05

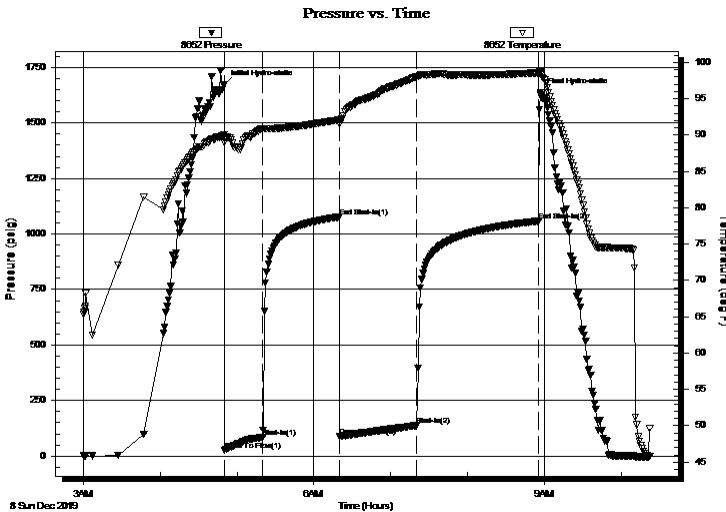
End Time: 10:22:29

Time On Btm: 2019.12.08 @ 04:49:45

Time Off Btm: 2019.12.08 @ 08:57:00

TEST COMMENT: 30 - IF: Blow built to 8 1/4"
60 - IS: Blow back built to 1/8" at end of close
60 - FF: Blow built to BOB (11") at 58 min.
90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1673.71	90.02	Initial Hydro-static
1	24.36	88.92	Open To Flow (1)
31	83.85	90.86	Shut-In(1)
90	1076.95	92.09	End Shut-In(1)
91	87.43	91.58	Open To Flow (2)
151	136.59	97.99	Shut-In(2)
246	1058.30	98.55	End Shut-In(2)
248	1636.34	98.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 73%w, 27%m	1.43
75.00	Mud 100%	1.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemaaur Exploration & Production LLC

28/2s/27w Decatur KS

555 N Carancahua STE 1230
Corpus Christi, TX 78401

Fortin/ Long #1-28

Job Ticket: 66404

DST#: 1

ATTN: Bob Peterson

Test Start: 2019.12.08 @ 03:00:00

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:

55000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	MCW 73%w , 27%m	1.432
75.00	Mud 100%	1.052

Total Length: 255.00 ft Total Volume: 2.484 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

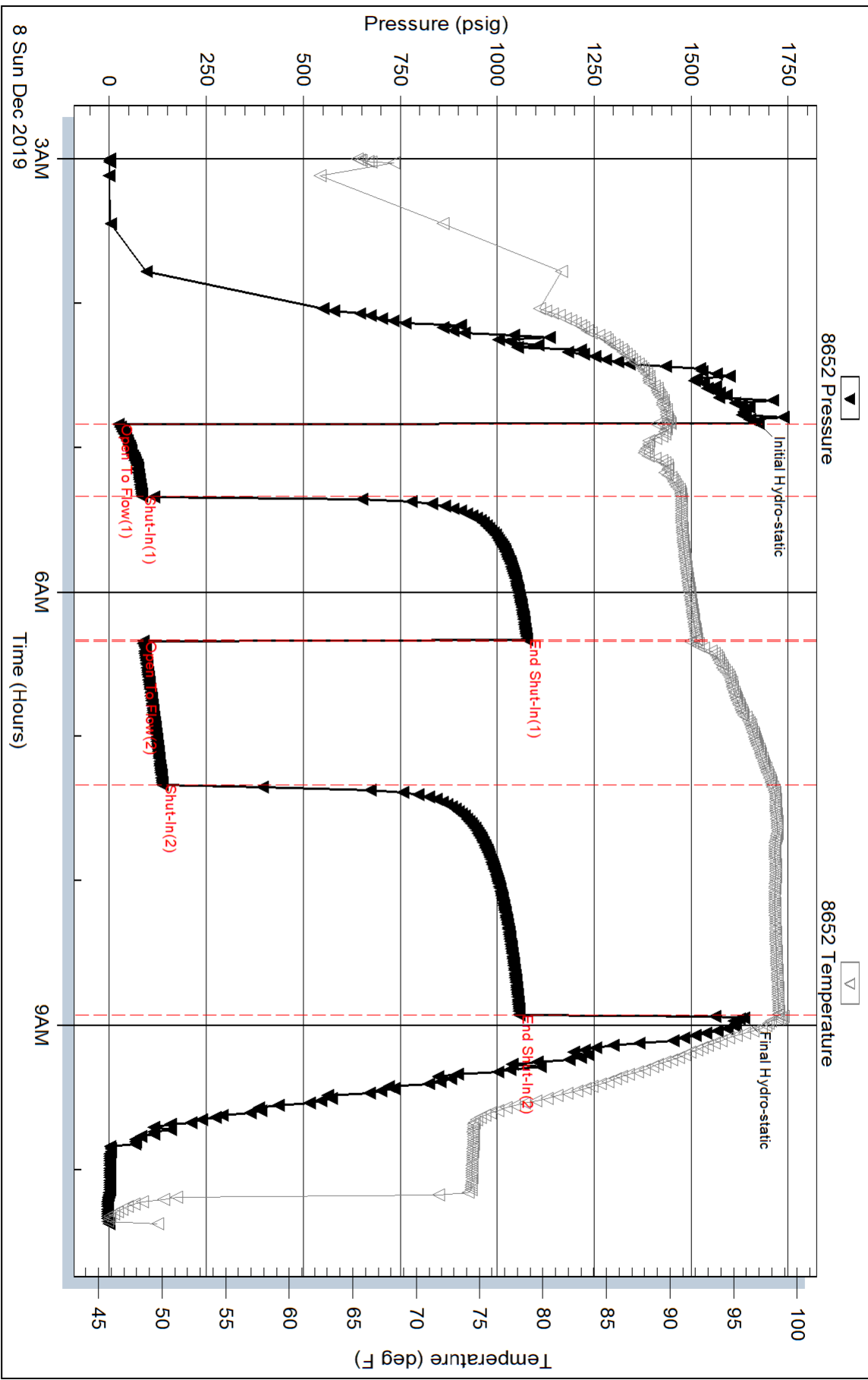
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .228 ohms @ 43 deg F Chlorides = 55,000 ppm

Pressure vs. Time



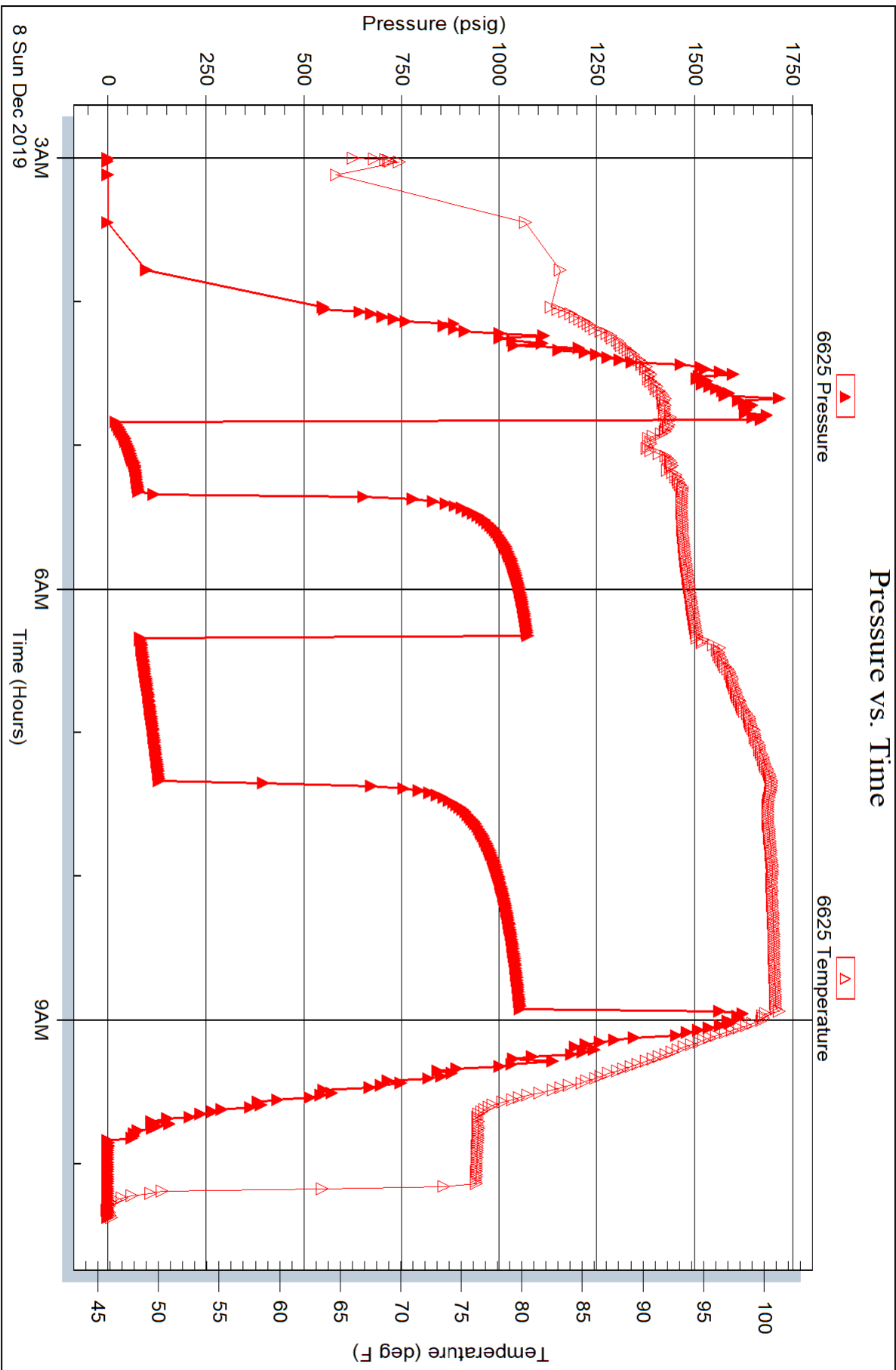
Serial #: 6625

Inside

Suenaar Exploration & Production LLC

Fortin/ Long #1-28

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Suemaur Exploration & Production LLC

28/2s/27w Decatur KS

555 N Carancahua STE 1230
Corpus Christi, TX 78401

Fortin/ Long #1-28

Job Ticket: 66405

DST#: 2

ATTN: Bob Peterson

Test Start: 2019.12.08 @ 19:18:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:15:30

Time Test Ended: 01:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3523.00 ft (KB) To 3543.00 ft (KB) (TVD)

Reference Elevations: 2590.00 ft (KB)

Total Depth: 3543.00 ft (KB) (TVD)

2585.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 188.07 psig @ 3524.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.08 End Date: 2019.12.09

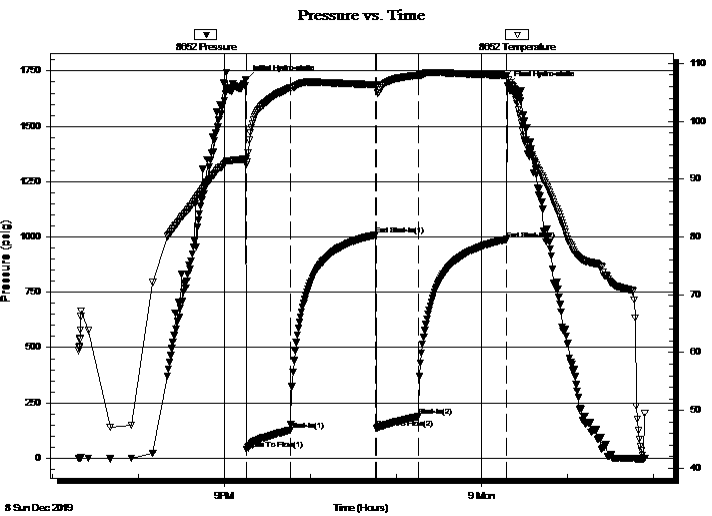
Last Calib.: 2019.12.09

Start Time: 19:18:05 End Time: 01:53:59

Time On Btm: 2019.12.08 @ 21:15:15

Time Off Btm: 2019.12.09 @ 00:18:00

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 14 1/4 min., built to 17 3/4"
60 - IS: No blow back
30 - FF: Blow built ot BOB at 18 3/4 min., built to 15"
60 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.38	93.45	Initial Hydro-static
1	39.99	92.47	Open To Flow (1)
31	126.60	105.82	Shut-In(1)
91	1008.99	106.34	End Shut-In(1)
92	134.99	105.90	Open To Flow (2)
121	188.07	107.92	Shut-In(2)
182	988.67	107.92	End Shut-In(2)
183	1685.36	108.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
365.00	SMCW 92%w, 8%m	4.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemaaur Exploration & Production LLC

28/2s/27w Decatur KS

555 N Carancahua STE 1230
Corpus Christi, TX 78401

Fortin/ Long #1-28

Job Ticket: 66405

DST#: 2

ATTN: Bob Peterson

Test Start: 2019.12.08 @ 19:18:00

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:

110000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
365.00	SMCW 92%w , 8%m	4.027

Total Length: 365.00 ft Total Volume: 4.027 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

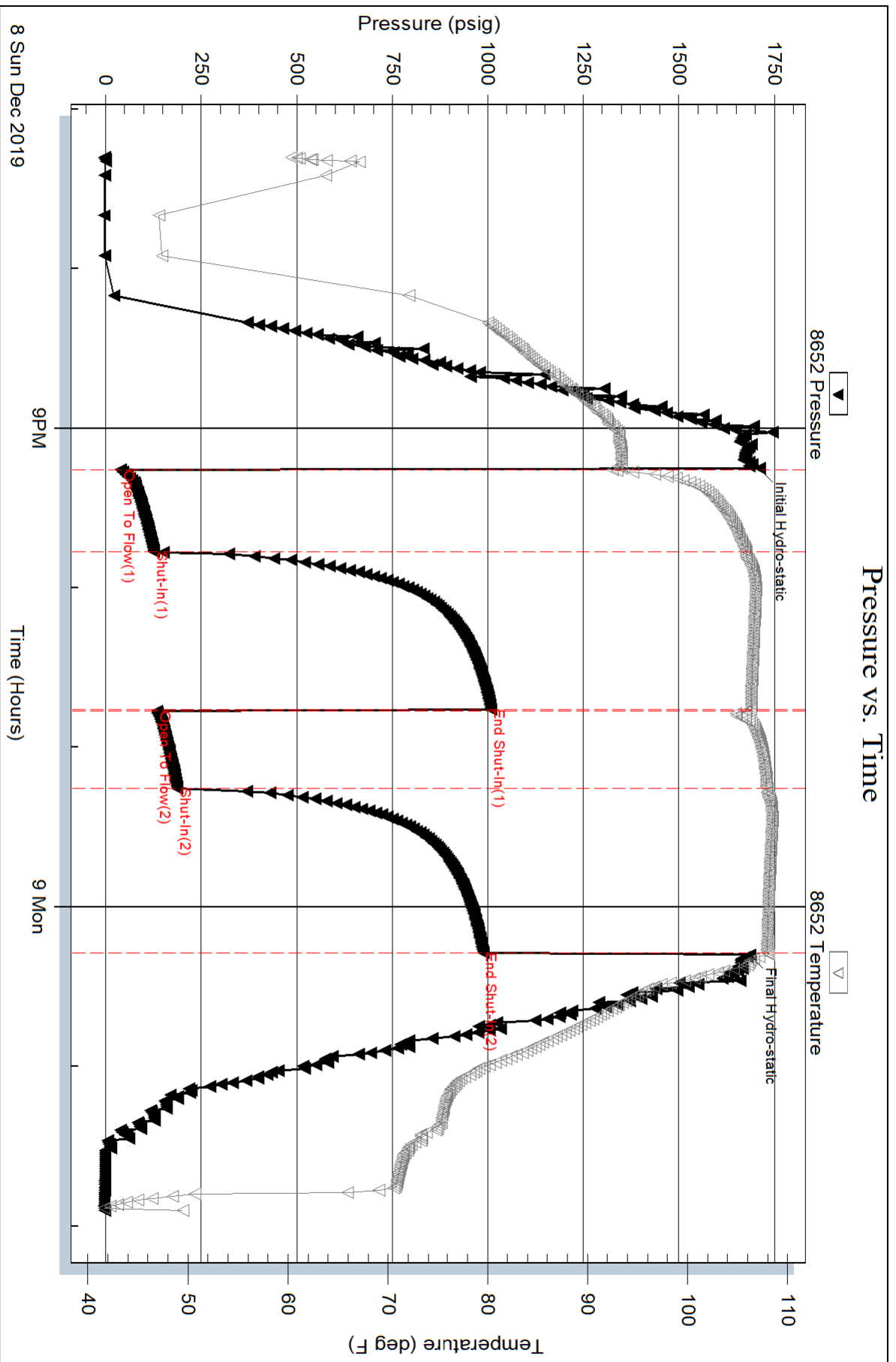
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .137 ohms @ 38 deg F Chlorides = 110,000 ppm

Pressure vs. Time



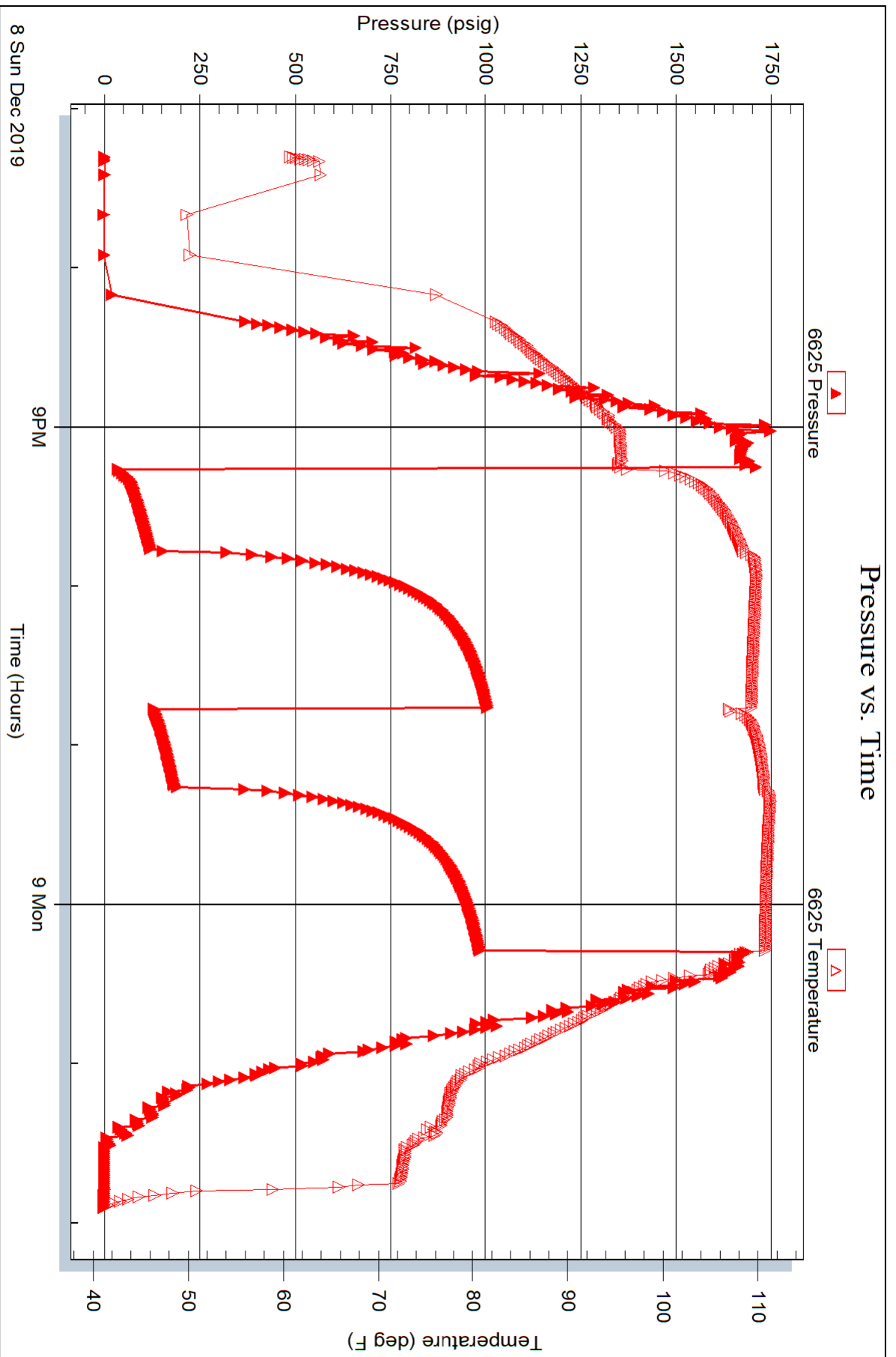
Serial #: 6625

Inside

Suenaar Exploration & Production LLC

Fortin/ Long #1-28

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Suemaour Exploration & Production LLC

28/2s/27w Decatur KS

555 N Carancahua STE 1230
Corpus Christi, TX 78401

Fortin/ Long #1-28

Job Ticket: 66406

DST#: 3

ATTN: Bob Peterson

Test Start: 2019.12.09 @ 17:20:00

GENERAL INFORMATION:

Formation: **LKC "G - H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:46:30

Time Test Ended: 00:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3563.00 ft (KB) To 3635.00 ft (KB) (TVD)

Reference Elevations: 2590.00 ft (KB)

Total Depth: 3635.00 ft (KB) (TVD)

2585.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 27.08 psig @ 3564.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.09 End Date: 2019.12.10

Last Calib.: 2019.12.10

Start Time: 17:20:05 End Time: 00:42:59

Time On Btm: 2019.12.09 @ 19:46:15

Time Off Btm: 2019.12.09 @ 23:04:30

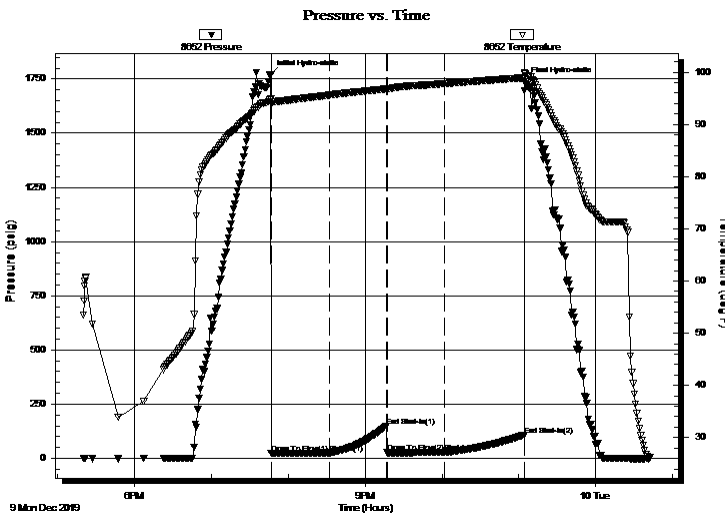
TEST COMMENT: 45 - IF: Blow built to 1 1/4"

45 - IS: No blow back

45 - FF: No blow

60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.59	94.82	Initial Hydro-static
1	22.56	93.92	Open To Flow (1)
46	24.83	95.61	Shut-In(1)
91	148.20	96.77	End Shut-In(1)
91	26.02	96.73	Open To Flow (2)
136	27.08	97.80	Shut-In(2)
198	107.84	98.91	End Shut-In(2)
199	1737.29	99.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemaur Exploration & Production LLC

28/2s/27w Decatur KS

555 N Carancahua STE 1230
Corpus Christi, TX 78401

Fortin/ Long #1-28

Job Ticket: 66406

DST#: 3

ATTN: Bob Peterson

Test Start: 2019.12.09 @ 17:20:00

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: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

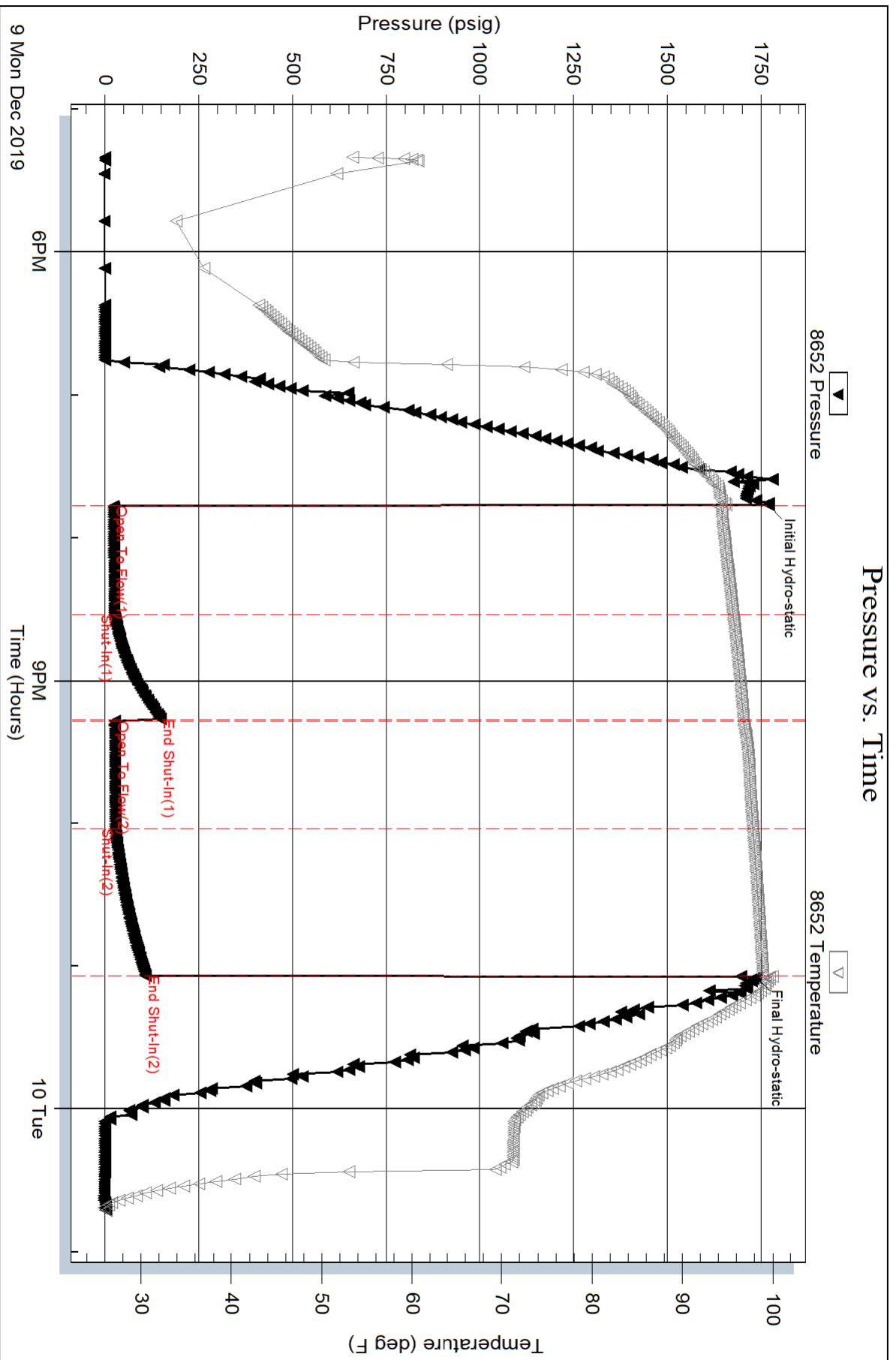
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



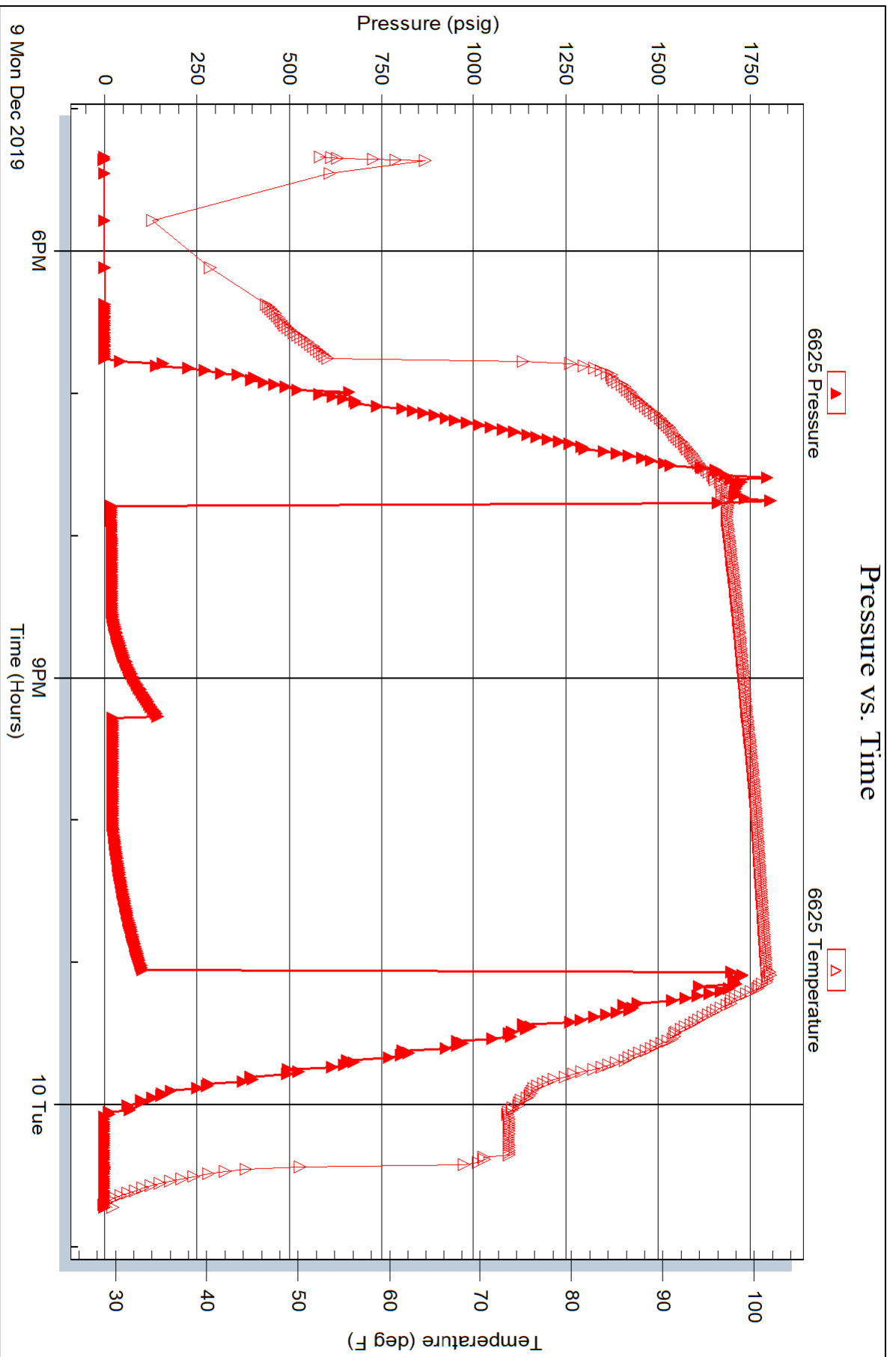
Serial #: 6625

Inside

Suenaar Exploration & Production LLC

Fortin/ Long #1-28

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Suema Exploration & Production LLC

28/2s/27w Decatur KS

555 N Carancahua STE 1230
Corpus Christi, TX 78401

Fortin/ Long #1-28

Job Ticket: 66407

DST#: 4

ATTN: Bob Peterson

Test Start: 2019.12.10 @ 07:20:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:20:15

Time Test Ended: 13:49:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3629.00 ft (KB) To 3665.00 ft (KB) (TVD)

Reference Elevations: 2590.00 ft (KB)

Total Depth: 3665.00 ft (KB) (TVD)

2585.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 20.03 psig @ 3630.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.10

End Date:

2019.12.10

Last Calib.:

2019.12.10

Start Time: 07:20:05

End Time:

13:48:59

Time On Btm:

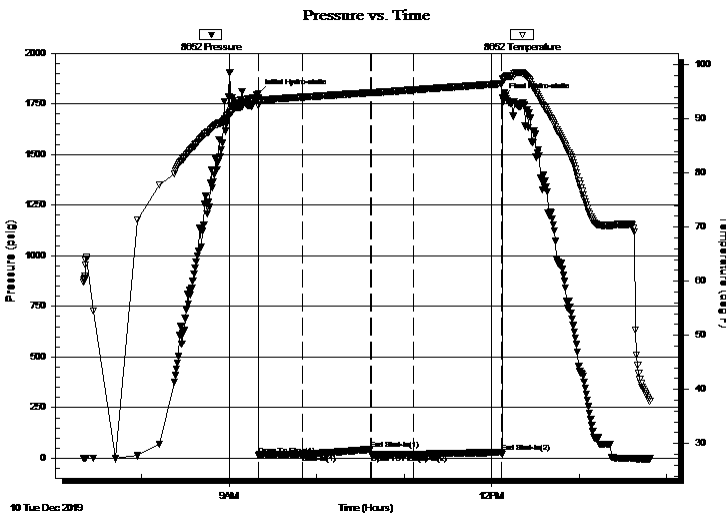
2019.12.10 @ 09:20:00

Time Off Btm:

2019.12.10 @ 12:07:30

TEST COMMENT: 30 - IF: 1/4" Blow at open, built slightly
45 - IS: No blow back
30 - FF: No blow
60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1798.75	93.82	Initial Hydro-static
1	16.26	92.44	Open To Flow (1)
31	19.81	94.02	Shut-In(1)
77	44.20	94.84	End Shut-In(1)
78	20.07	94.84	Open To Flow (2)
107	20.03	95.35	Shut-In(2)
167	29.75	96.49	End Shut-In(2)
168	1780.30	97.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemaar Exploration & Production LLC

28/2s/27w Decatur KS

555 N Carancahua STE 1230
Corpus Christi, TX 78401

Fortin/ Long #1-28

Job Ticket: 66407

DST#: 4

ATTN: Bob Peterson

Test Start: 2019.12.10 @ 07:20:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud 100%	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

