

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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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Suemaour Exploration & Production

27-5s-28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

Job Ticket: 62870

DST#: 1

ATTN: Rocky Milford

Test Start: 2016.01.19 @ 00:58:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:34:00

Time Test Ended: 09:23:15

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 3925.00 ft (KB) To 3950.00 ft (KB) (TVD)

Reference Elevations: 2757.00 ft (KB)

Total Depth: 3950.00 ft (KB) (TVD)

2752.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 106.31 psig @ 3926.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.01.19

End Date:

2016.01.19

Last Calib.:

2016.01.19

Start Time: 00:58:05

End Time:

09:23:14

Time On Btm:

2016.01.19 @ 03:33:45

Time Off Btm:

2016.01.19 @ 07:06:00

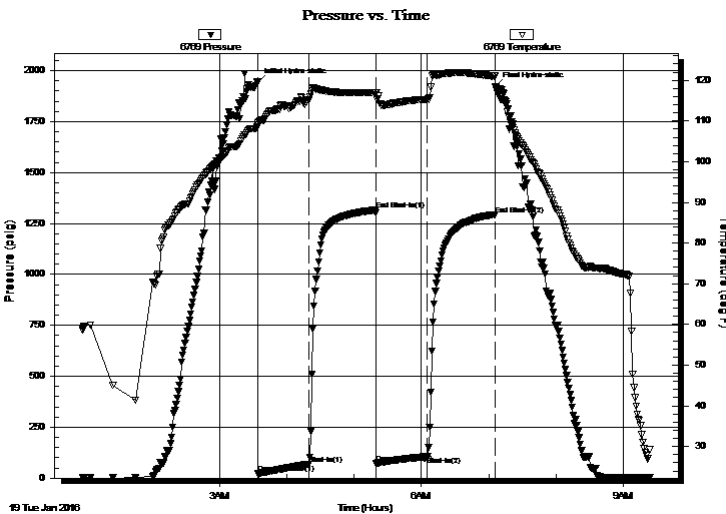
TEST COMMENT: 45 - IF: 1/4" Blow at open, built to 7 1/2" (Diesel in bucket)

60 - IS: No blow back

45 - FF: Blow built to 6"

60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.42	108.56	Initial Hydro-static
1	21.31	109.04	Open To Flow (1)
46	68.66	115.21	Shut-In(1)
106	1315.42	116.88	End Shut-In(1)
106	72.64	116.92	Open To Flow (2)
152	106.31	115.31	Shut-In(2)
212	1294.05	121.05	End Shut-In(2)
213	1921.42	118.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SO/MCW 79%w , 19%m, 2%o	0.61
33.00	OWCM 70%m, 17%w , 10%o, 3%	0.16
30.00	MCO 75%o, 2%g	0.15
30.00	GO 50%o, 50%g	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemaur Exploration & Production

27-5s-28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

Job Ticket: 62870

DST#: 1

ATTN: Rocky Milford

Test Start: 2016.01.19 @ 00:58:00

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:

27000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	SO/MCW 79%w , 19%m, 2%o	0.610
33.00	OWCM 70%m, 17%w , 10%o, 3%	0.162
30.00	MCO 75%o, 2%g	0.148
30.00	GO 50%o, 50%g	0.421

Total Length: 217.00 ft

Total Volume: 1.341 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

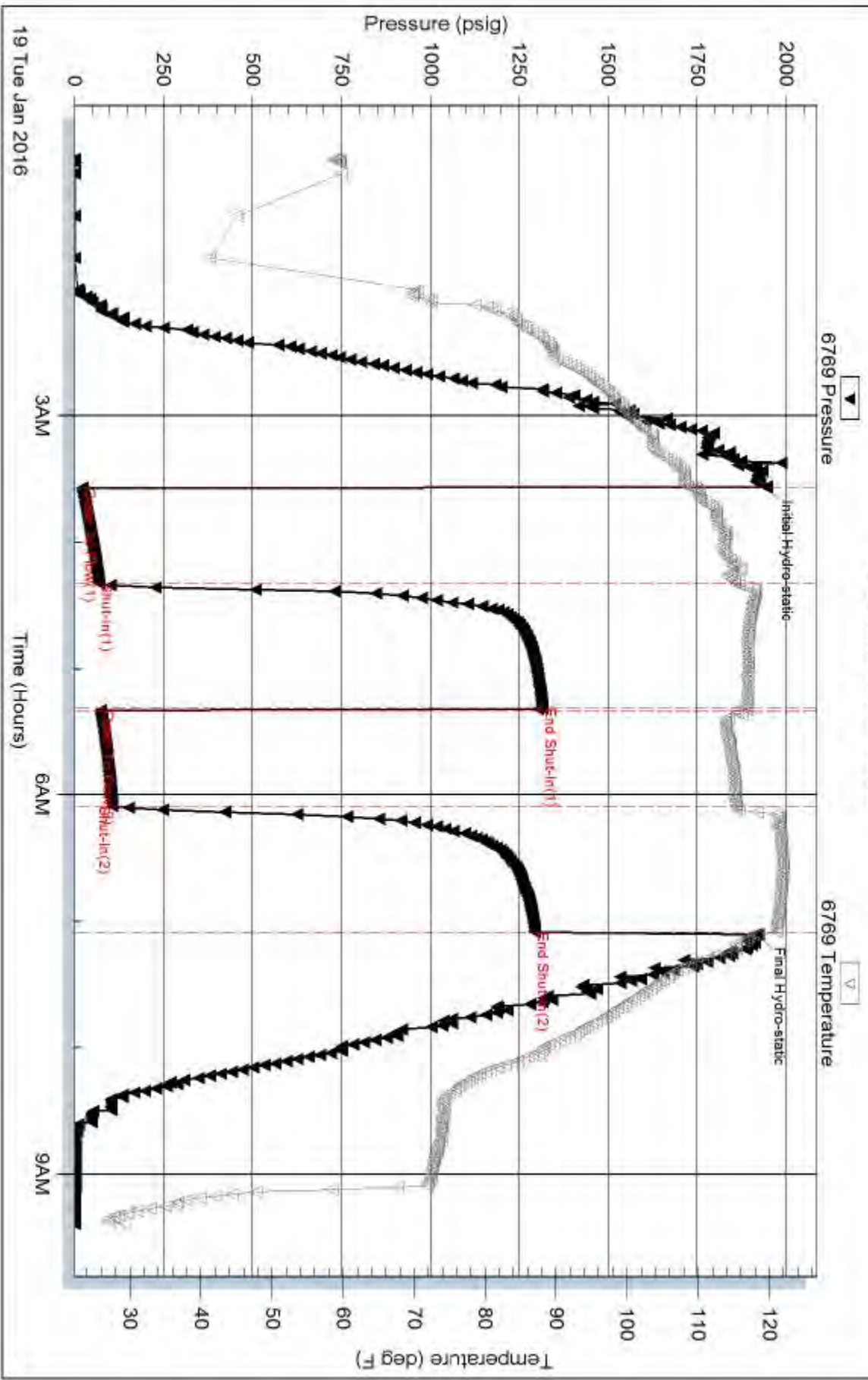
Laboratory Location:

Recovery Comments: Gravity is too low to check at current temp (guessing need around 90 deg to get a check)

RW = .655 ohms @ 26.6 deg F

Chlorides = 27,000 ppm

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Suemaour Exploration & Production

27/5s/28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

Job Ticket: 62871

DST#: 2

ATTN: Rocky Milford

Test Start: 2016.01.19 @ 19:50:00

GENERAL INFORMATION:

Formation: **LKC "C - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:34:00

Time Test Ended: 04:34:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3947.00 ft (KB) To 3990.00 ft (KB) (TVD)

Reference Elevations: 2757.00 ft (KB)

Total Depth: 3990.00 ft (KB) (TVD)

2752.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 132.83 psig @ 3948.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.01.19

End Date:

2016.01.20

Last Calib.:

2016.01.20

Start Time: 19:50:05

End Time:

04:34:15

Time On Btm:

2016.01.19 @ 22:33:45

Time Off Btm:

2016.01.20 @ 02:08:15

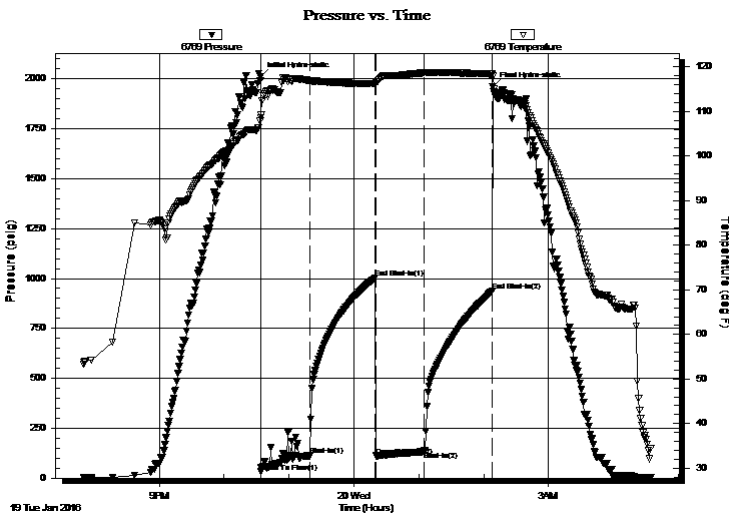
TEST COMMENT: 45 - IF: Blow built to 10" (surging blow first 15 min.) (Diesel in bucket)

60 - IS: No blow back

45 - FF: Blow built to 7"

60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.63	107.86	Initial Hydro-static
1	30.88	108.67	Open To Flow (1)
46	112.37	116.99	Shut-In(1)
106	1000.96	116.21	End Shut-In(1)
107	111.51	116.60	Open To Flow (2)
152	132.83	118.70	Shut-In(2)
214	935.75	118.43	End Shut-In(2)
215	1961.27	117.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCW w/trace oil 84%w, 16%m	0.61
125.00	WCM w/trace oil 69%m, 31%w	1.19

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Suema Exploration & Production

27/5s/28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

ATTN: Rocky Milford

Job Ticket: 62871

DST#: 2

Test Start: 2016.01.19 @ 19:50:00

GENERAL INFORMATION:

Formation: **LKC "C - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:34:00

Time Test Ended: 04:34:15

Interval: 3947.00 ft (KB) To 3990.00 ft (KB) (TVD)

Total Depth: 3990.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Reference Elevations: 2757.00 ft (KB)

2752.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366 Outside

Press@RunDepth: psig @ 3948.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.01.19

End Date: 2016.01.20

Last Calib.: 2016.01.20

Start Time: 19:50:05

End Time: 04:33:30

Time On Btm:

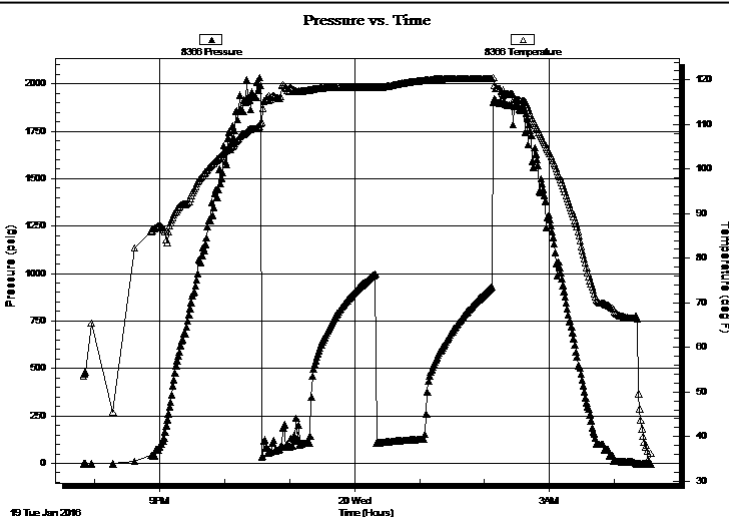
Time Off Btm:

TEST COMMENT: 45 - IF: Blow built to 10" (surging blow first 15 min.) (Diesel in bucket)

60 - IS! No blow back

45 - FF: Blow built to 7"

60 - FS! No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCW w/trace oil 84%w, 16%m	0.61
125.00	WCM w/trace oil 69%m, 31%w	1.19

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemaour Exploration & Production

27/5s/28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

Job Ticket: 62871

DST#: 2

ATTN: Rocky Milford

Test Start: 2016.01.19 @ 19:50:00

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:

32000 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MCW w /trace oil 84%w , 16%m	0.615
125.00	WCM w /trace oil 69%m, 31%w	1.189

Total Length: 250.00 ft Total Volume: 1.804 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

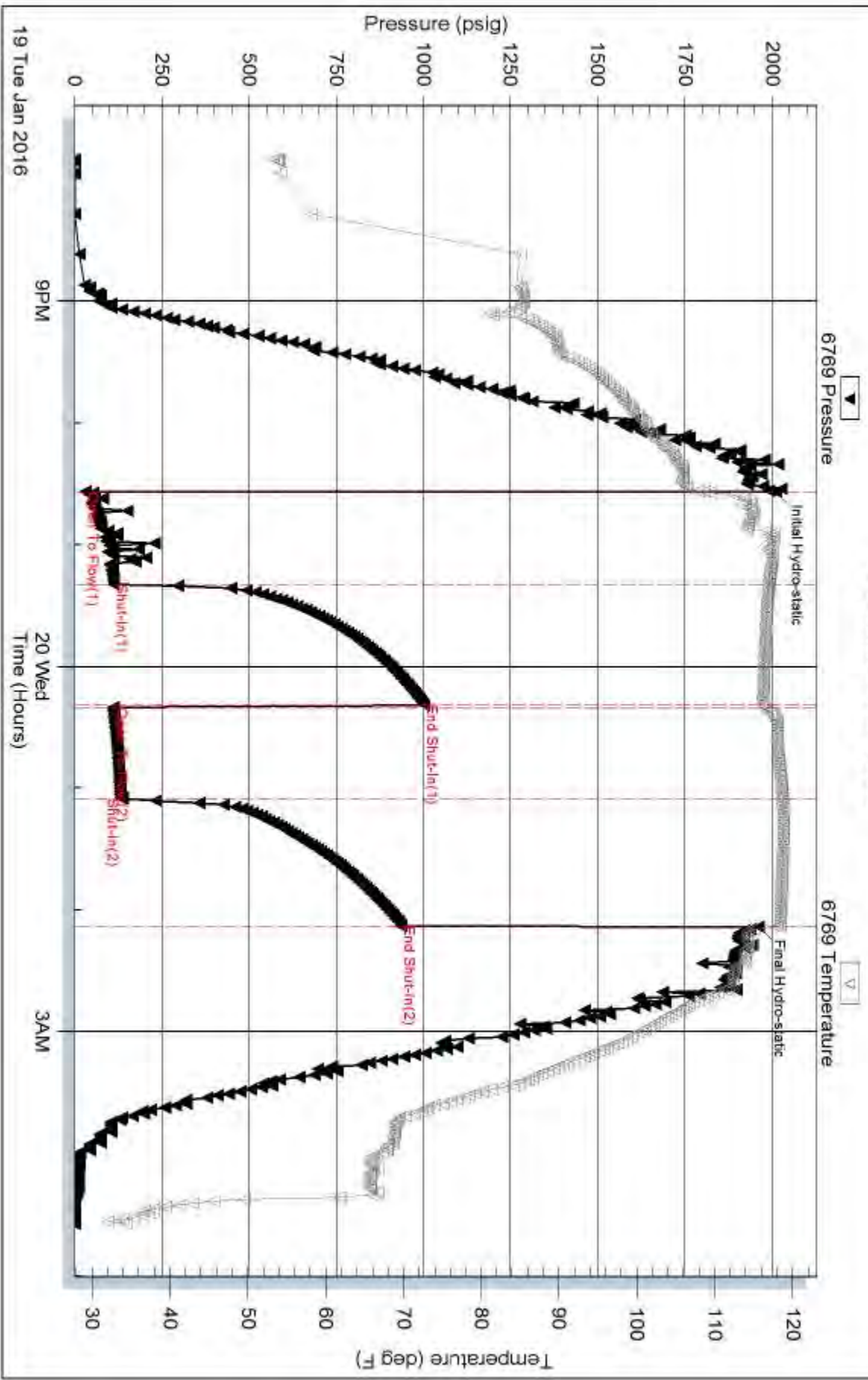
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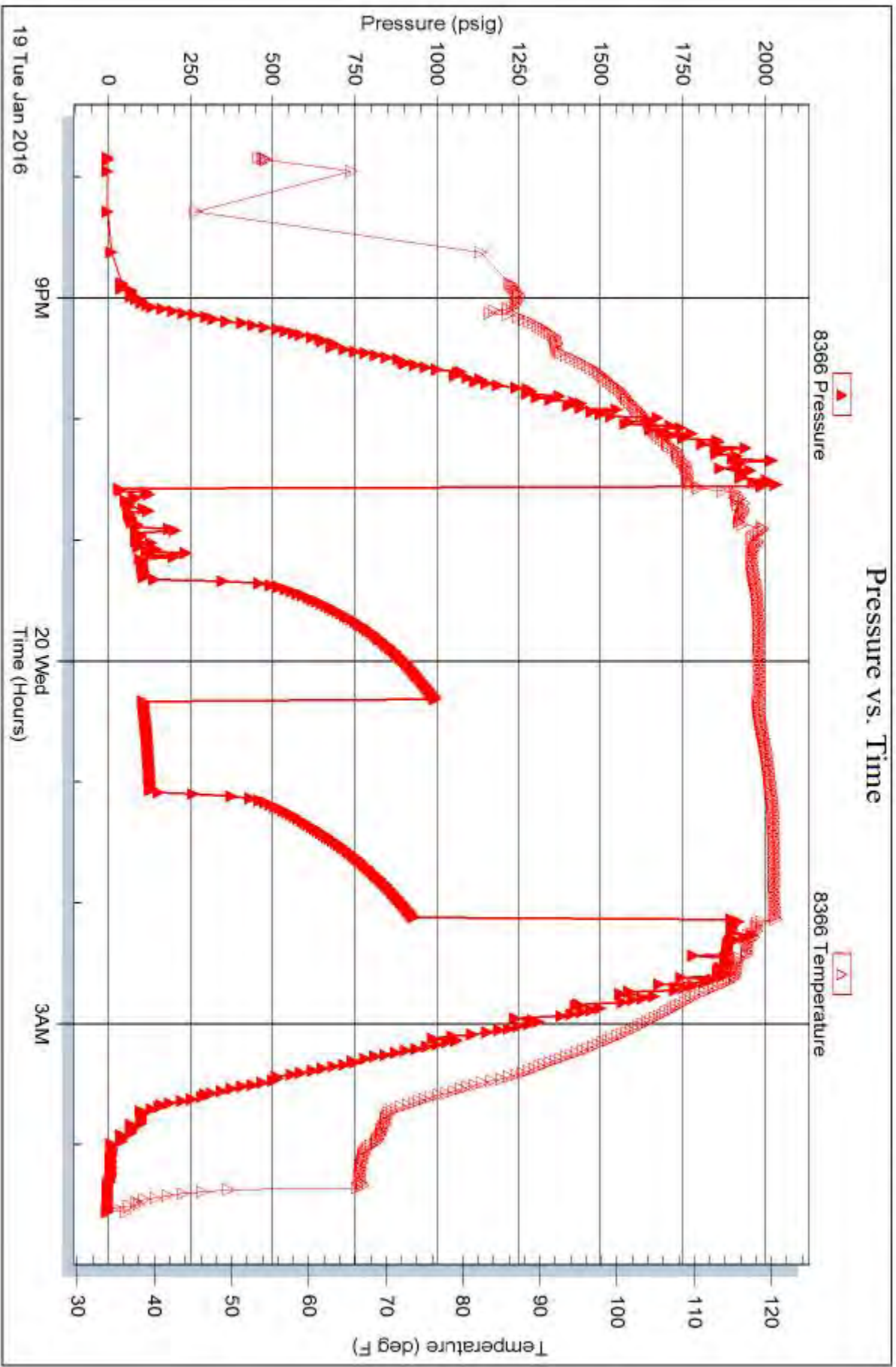
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .522 ohms @ 25.2 deg F Chlorides = 32,000 ppm

Pressure vs. Time







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Suemaour Exploration & Production

27/5s/28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

Job Ticket: 62872

DST#: 3

ATTN: Rocky Milford

Test Start: 2016.01.20 @ 13:30:00

GENERAL INFORMATION:

Formation: **LKC "F - G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:50:45

Time Test Ended: 00:33:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3987.00 ft (KB) To 4028.00 ft (KB) (TVD)

Reference Elevations: 2757.00 ft (KB)

Total Depth: 4028.00 ft (KB) (TVD)

2752.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769 Inside

Press @ Run Depth: 585.00 psig @ 3988.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.01.20

End Date: 2016.01.21

Last Calib.: 2016.01.21

Start Time: 13:30:05

End Time: 00:33:30

Time On Btm: 2016.01.20 @ 15:50:00

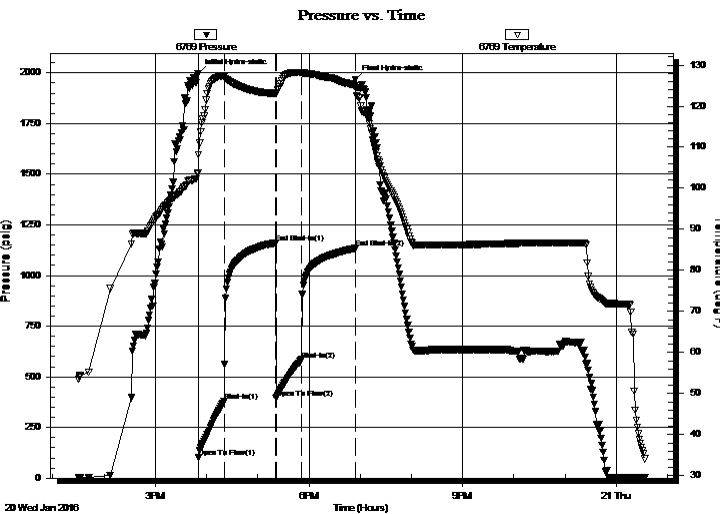
Time Off Btm: 2016.01.20 @ 18:54:30

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 2 min. (Diesel in bucket)

60 - IS: Blow back built to BOB at 34 min.

30 - FF: Blow built to BOB at 2 3/4 min.

60 - FS: Blow back built to BOB at 26 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.27	103.81	Initial Hydro-static
1	100.73	108.10	Open To Flow (1)
31	378.79	127.25	Shut-In(1)
91	1161.69	123.11	End Shut-In(1)
92	396.25	123.01	Open To Flow (2)
122	585.00	128.21	Shut-In(2)
184	1134.67	124.96	End Shut-In(2)
185	1967.26	124.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SO/MCW 65%w , 31%m, 2%o, 2%g	0.61
1076.00	5 min. SMCO 83%o, 15%g, 2%m	14.52
0.00	10 min. SO/MW 48%w , 45%m, 4%o, 3%g	0.00
0.00	15 - 30 min. SO/MCW 73%w , 26%m, 1%o	0.00
95.00	CGO 88%o, 12%g	1.33
0.00	630' GIP	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

Suemaour Exploration & Production

27/5s/28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

Job Ticket: 62872

DST#: 3

ATTN: Rocky Milford

Test Start: 2016.01.20 @ 13:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 64.00 sec/qt
Water Loss: 6.40 in³
Resistivity: ohm.m
Salinity: 1100.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 32.8 deg API
Water Salinity: 40000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	SO/MCW 65%w , 31%m, 2%o, 2%g	0.610
1076.00	5 min. SMCO 83%o, 15%g, 2%m	14.520
0.00	10 min. SO/MW 48%w , 45%m, 4%o, 3%g	0.000
0.00	15 - 30 min. SO/MCW 73%w , 26%m, 1%o	0.000
95.00	CGO 88%o, 12%g	1.333
0.00	630' GIP	0.000

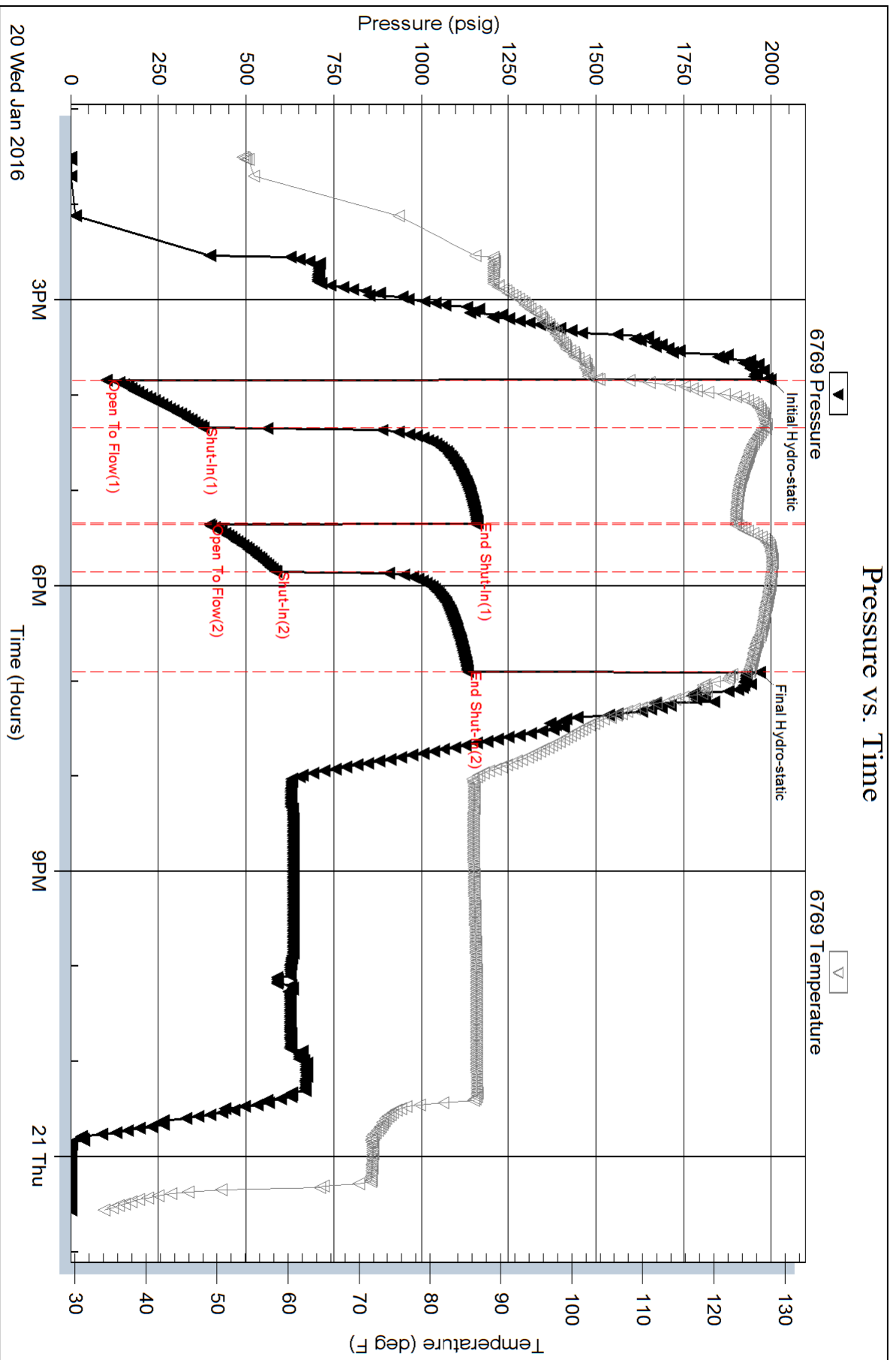
Total Length: 1295.00 ft Total Volume: 16.463 bbl

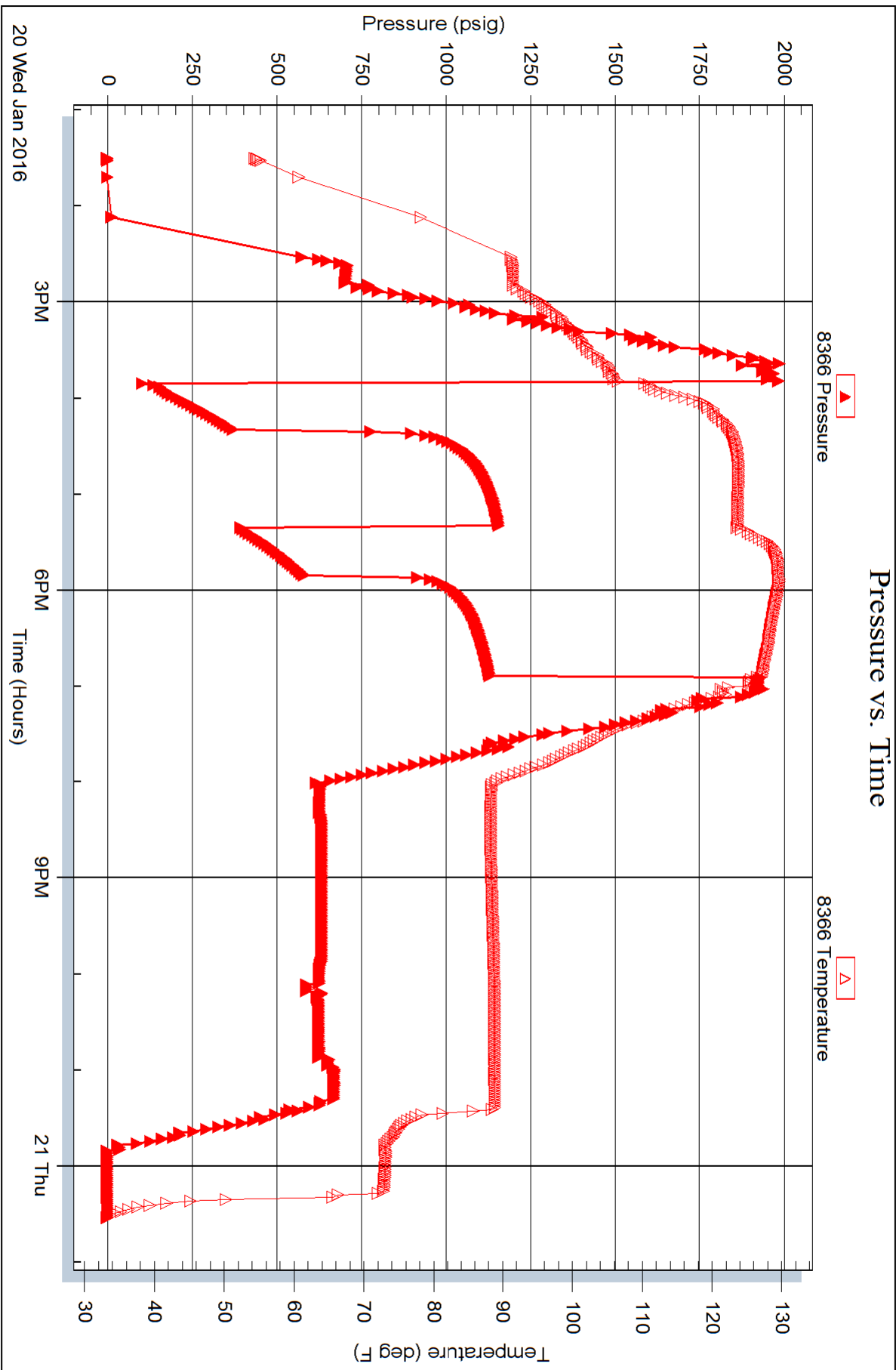
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 30.2 api @ 32 deg F Corrected Gravity = 32.8 api
RW = .312 ohms @ 40.5 deg F Chlorides = 40,000 ppm
Reversed out 1076' after dumping first 95'
caught samples every 5 min.

Pressure vs. Time







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Suemaour Exploration & Production

27/5s/28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

ATTN: Rocky Milford

Job Ticket: 62873

DST#: 4

Test Start: 2016.01.21 @ 12:10:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:20:30

Time Test Ended: 20:37:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4067.00 ft (KB) To 4102.00 ft (KB) (TVD)

Reference Elevations: 2757.00 ft (KB)

Total Depth: 4102.00 ft (KB) (TVD)

2752.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6769 Inside

Press @ RunDepth: 458.93 psig @ 4068.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.01.21

End Date:

2016.01.21

Last Calib.:

2016.01.21

Start Time:

12:10:05

End Time:

20:37:29

Time On Btm:

2016.01.21 @ 14:20:15

Time Off Btm:

2016.01.21 @ 17:25:00

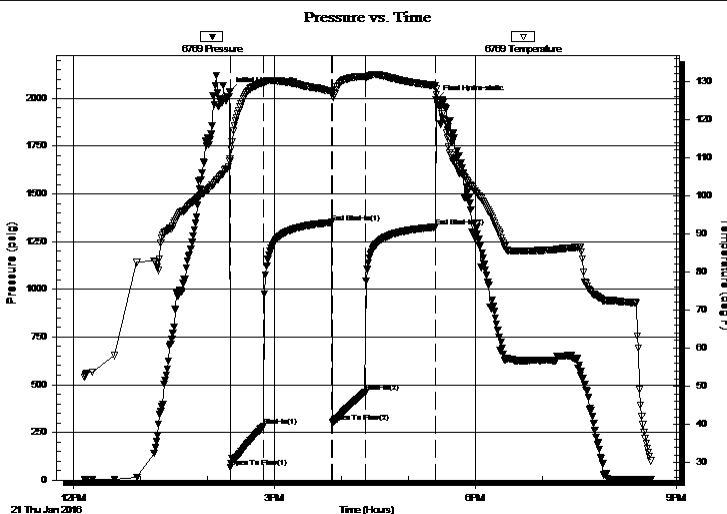
TEST COMMENT: 30 - IF: Blow built to BOB (11") at 2 1/4" (Diesel in bucket)

60 - IS: Blow back built to BOB at 13 min.

30 - FF: Blow built to BOB at 2 3/4 min.

60 - FS: Blow back built to BOB at 11 3/4 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.28	109.08	Initial Hydro-static
1	67.70	109.62	Open To Flow (1)
31	284.23	129.88	Shut-In(1)
91	1350.26	127.56	End Shut-In(1)
92	304.72	127.61	Open To Flow (2)
121	458.93	131.25	Shut-In(2)
184	1326.33	128.85	End Shut-In(2)
185	1991.81	127.95	Final Hydro-static

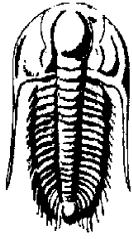
Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 69% _m , 22% _o , 9% _g	0.61
1108.00	Rev out CGO 92% _o , 7% _g , 1% _m	14.97
0.00	GIP = 1480'	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Suemaur Exploration & Production
802 N Carancahua
Corpus Christi, TX 78401
ATTN: Rocky Milford

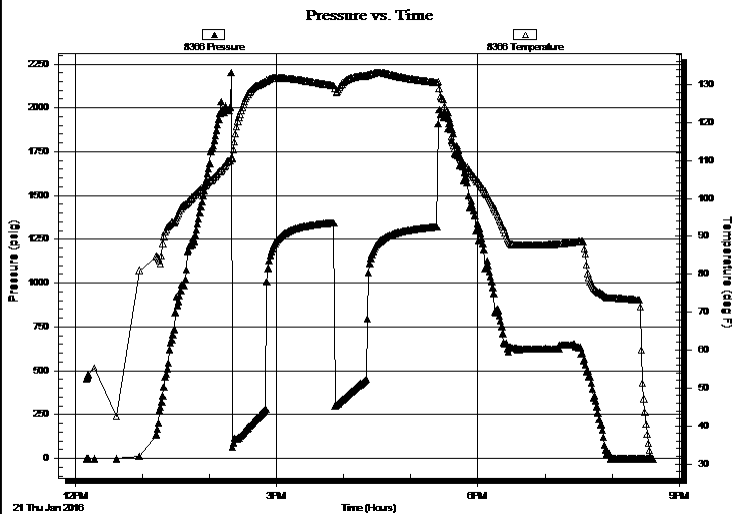
27/5s/28w Decatur KS
Jacobs Brothers #1
Job Ticket: 62873 **DST#: 4**
Test Start: 2016.01.21 @ 12:10:00

GENERAL INFORMATION:

Formation: **LKC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:20:30
Time Test Ended: 20:37:30
Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 83
Interval: **4067.00 ft (KB) To 4102.00 ft (KB) (TVD)**
Reference Elevations: 2757.00 ft (KB)
Total Depth: 4102.00 ft (KB) (TVD)
2752.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

Serial #: 8366 Outside
Press @ Run Depth: psig @ 4068.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.01.21 End Date: 2016.01.21 Last Calib.: 2016.01.21
Start Time: 12:10:05 End Time: 20:36:44 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 2 1/4" (Diesel in bucket)
60 - IS: Blow back built to BOB at 13 min.
30 - FF: Blow built to BOB at 2 3/4 min.
60 - FS: Blow back built to BOB at 11 3/4 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 69%m, 22%o, 9%g	0.61
1108.00	Rev out CGO 92%o, 7%g, 1%m	14.97
0.00	GIP = 1480'	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemaaur Exploration & Production

27/5s/28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

Job Ticket: 62873

DST#: 4

ATTN: Rocky Milford

Test Start: 2016.01.21 @ 12:10:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 5.98 in³
Resistivity: ohm.m
Salinity: 1500.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 40.4 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

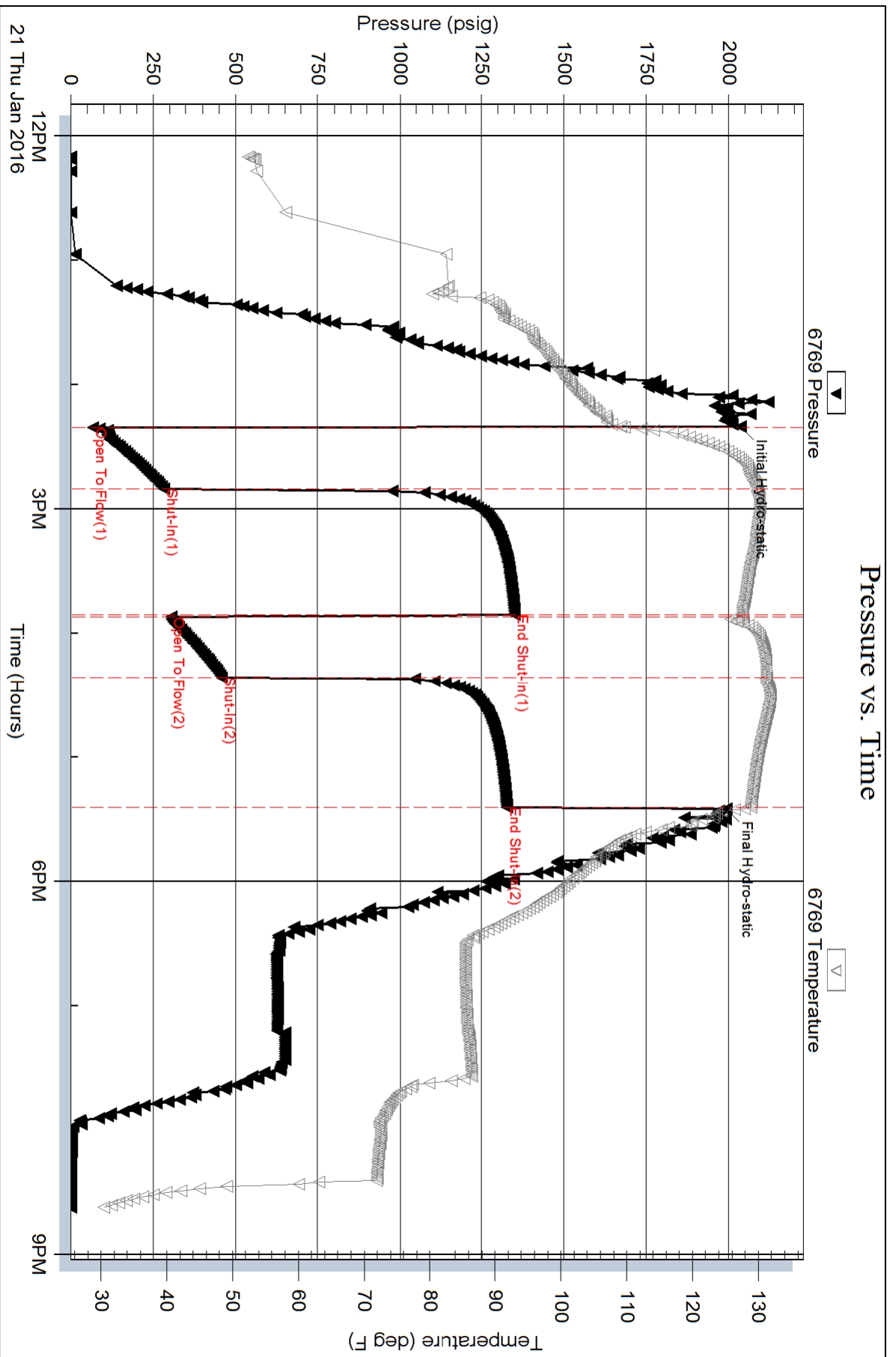
Length ft	Description	Volume bbl
124.00	GOCM 69% <i>m</i> , 22% <i>o</i> , 9% <i>g</i>	0.610
1108.00	Rev out CGO 92% <i>o</i> , 7% <i>g</i> , 1% <i>m</i>	14.968
0.00	GIP = 1480'	0.000

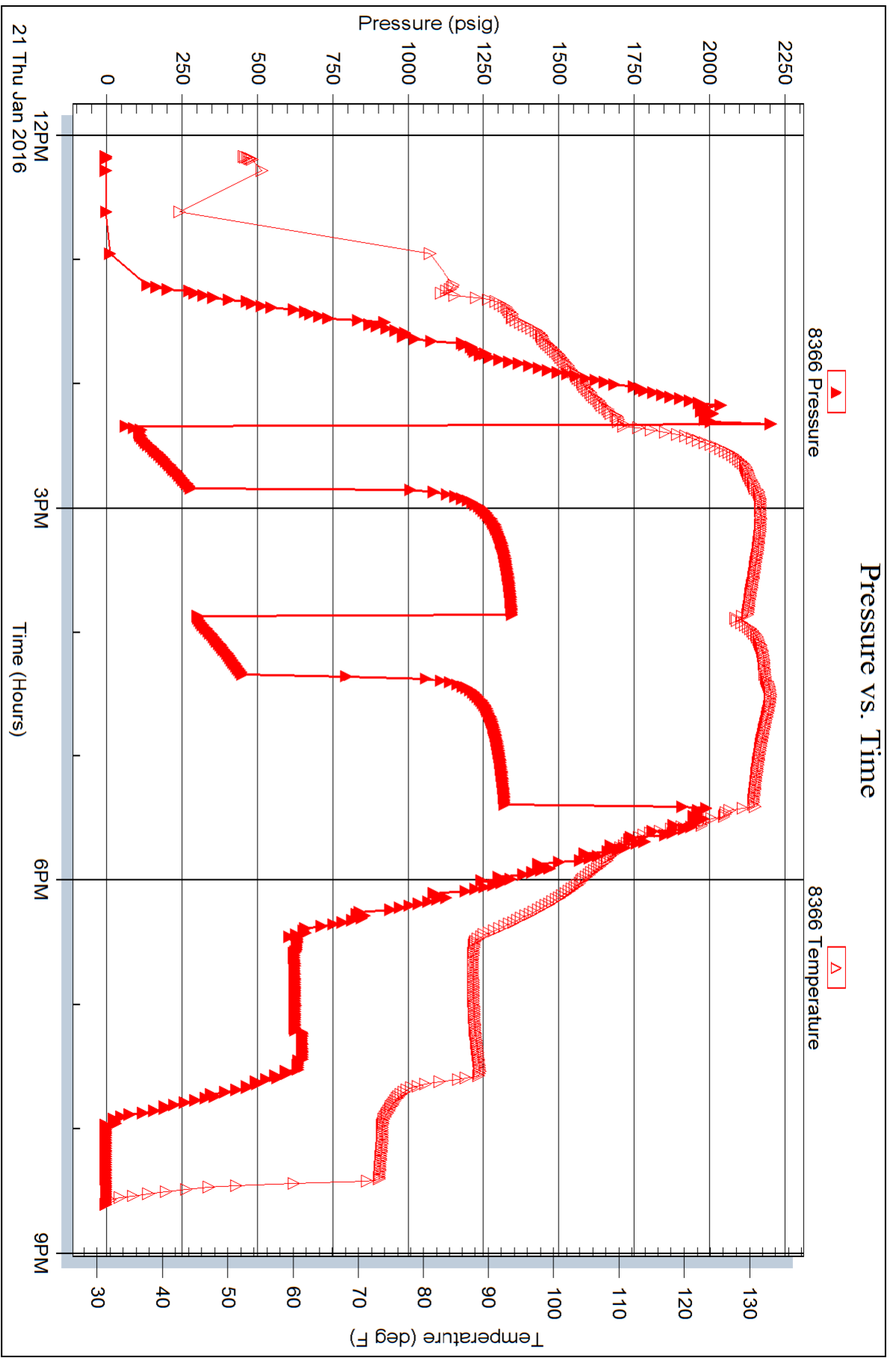
Total Length: 1232.00 ft Total Volume: 15.578 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 36.4 api @ 20 deg F Corrected Gravity = 40.4 api







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Suemaour Exploration & Production

27/5s/28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

Job Ticket: 62874

DST#: 5

ATTN: Rocky Milford

Test Start: 2016.01.22 @ 05:45:00

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:59:45
 Time Test Ended: 13:12:45
 Interval: **4097.00 ft (KB) To 4125.00 ft (KB) (TVD)**
 Total Depth: 4125.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 2757.00 ft (KB)
 2752.00 ft (CF)
 KB to GR/CF: 5.00 ft

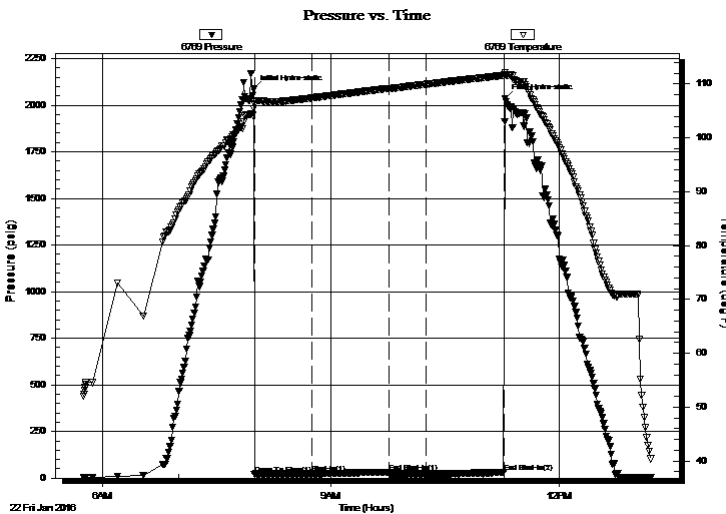
Serial #: 6769

Inside

Press@RunDepth: 23.49 psig @ 4098.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.01.22 End Date: 2016.01.22 Last Calib.: 2016.01.22
 Start Time: 05:45:05 End Time: 13:12:44 Time On Btm: 2016.01.22 @ 07:59:15
 Time Off Btm: 2016.01.22 @ 11:17:30

TEST COMMENT: 45 - IF: Blow built to 1 1/4" (Diesel in bucket)
 60 - ISI: No blow back
 30 - FF: No blow
 60 - FSI: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.25	105.38	Initial Hydro-static
1	21.59	106.25	Open To Flow (1)
46	23.11	107.39	Shut-In(1)
107	32.32	109.16	End Shut-In(1)
107	22.37	109.16	Open To Flow (2)
136	23.49	109.93	Shut-In(2)
198	29.98	111.58	End Shut-In(2)
199	2034.69	112.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/oil spots 99%m, 1%o	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Suemauro Exploration & Production

27/5s/28w Decatur KS

802 N Carancahua
Corpus Christi, TX 78401

Jacobs Brothers #1

Job Ticket: 62874

DST#: 5

ATTN: Rocky Milford

Test Start: 2016.01.22 @ 05:45:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 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 bbbl
5.00	Mud w /oil spots 99% _m , 1% _o	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

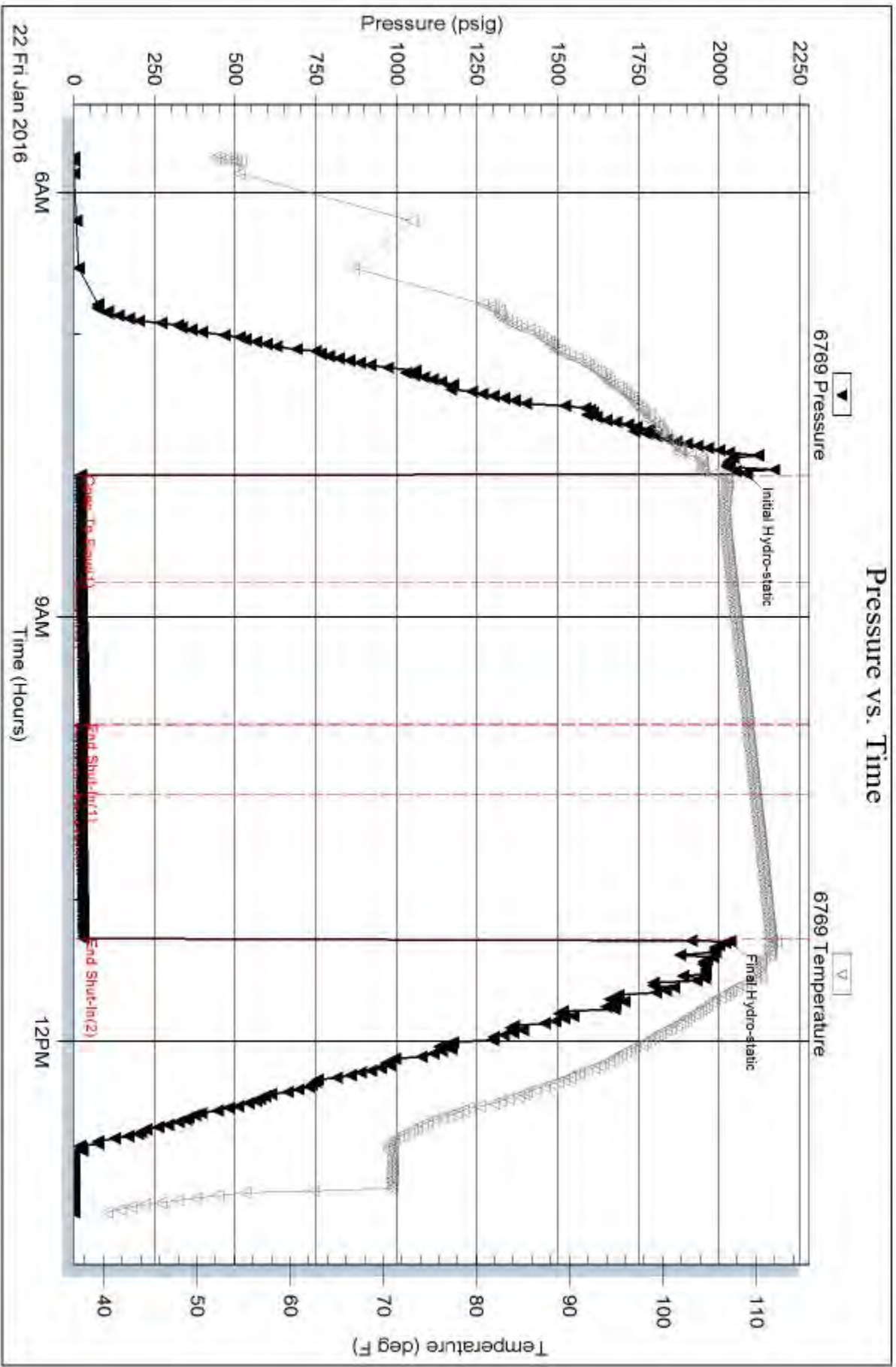
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Robert L. Milford

PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR Suemur Exp. & Prod., LLC
LEASE Jacobs Brothers #1
LOC. SPOT 78'S & 13'E of NE NW NE

LOC. FOOTAGE 408' FNL 1,637' FEL
SEC. 27 TWP/S 55 RANG 28W
COUNTY Decatur STATE Kansas

API 15-039 -21228-00-00

CONTRACTOR Muffin Drilling Co., Inc. RIG NO. 7
DILLING STARTED 1-15-2016 COMPLETED 1-33-2016
MUD DISPLACED 3,310' MUD TYPE Chemical

DRILLING TIME KEPT FROM 3,400' TO RTD
SAMPLES SAVED FROM 3,500' TO RTD
SAMPLES EXAMINED FROM 3,500' TO RTD
GEOLOGICAL SUPERVISION FROM 3,500' TO RTD

ELEVATIONS
KB 2,757'
GL 2,752'

MEASUREMENTS FROM K.B.
CASINO RECORD
Conductor
Surface 8.5/8" @ 285'
w/ 250 sacks cement
Production

ELECTRICAL SUPPLIES:
Wheatcroft Wireline:
Compact Array -
Induction log

CNDL log
Microlog
BHCs log

FORMATION LOG

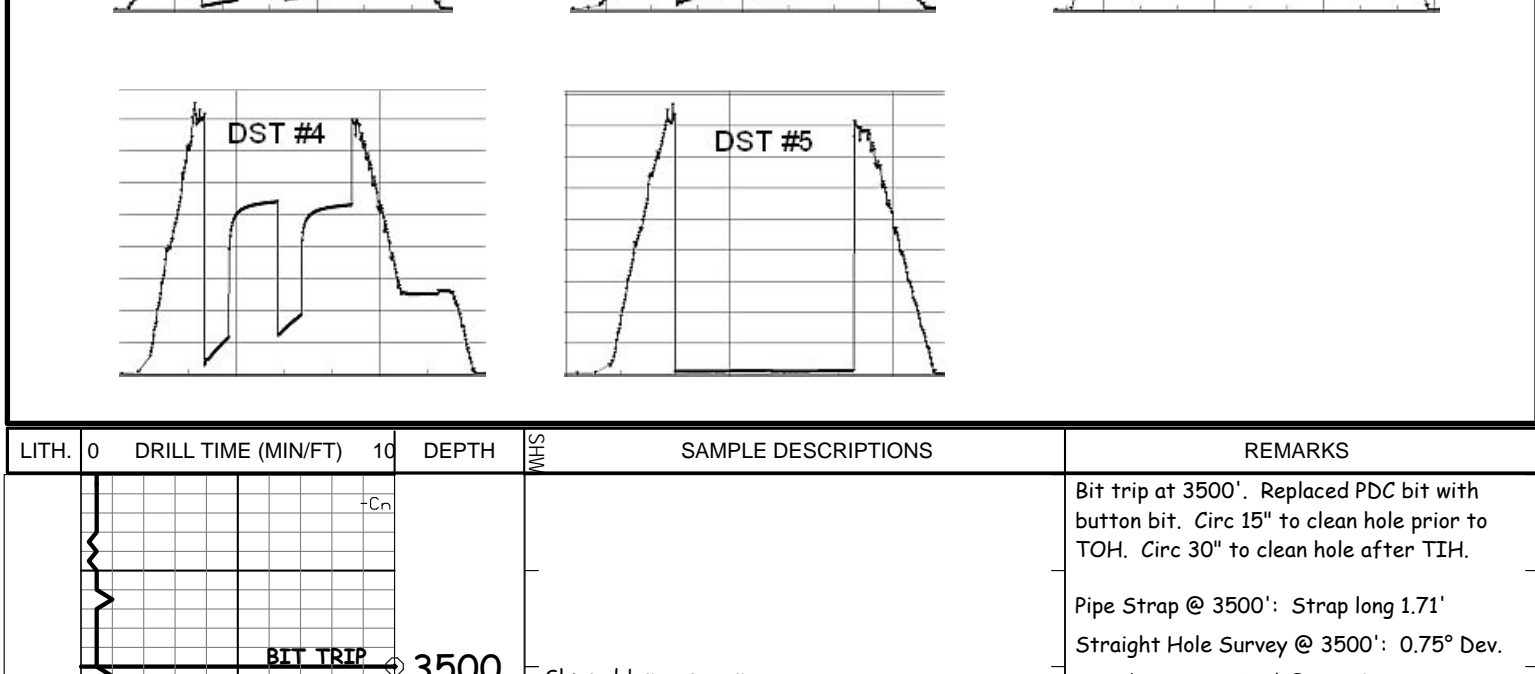
Stone Control
Shotter 3,575' -818
Topeka 3,706' -949
Heebner 3,891' -1134
Toronto 3,921' -1164
Lansing 3,936' -1179
B/KC 4,142' -1385
Pawnee 4,244' -1487
Cherokee 4,314' -1557
Total Depth 4,400' -1643

FORMATION NAME	LOG	TOP DATUM	SAMPLE TOP DATUM
Stone Control		2,539'	+218
Shotter		3,575'	-818
Topeka		3,706'	-949
Heebner		3,891'	-1134
Toronto		3,921'	-1164
Lansing		3,936'	-1179
B/KC		4,142'	-1385
Pawnee		4,244'	-1487
Cherokee		4,314'	-1557
Total Depth		4,400'	-1643

DATE	7:00 AM DEPTH	REMARKS
1-15-2016	0'	Spud @ 3:15 pm. Plug down @ 8:00 pm. Drilled out plug @ 4:00 am on 1-16-16 w/ PDC bit
1-16-2016	475'	Cut 475' in last 24 hrs. Dev.: 1° @ 1675'. Hole taking fluid 1522'-2400', lost 380 bbls.
1-17-2016	2,785'	Cut 2,310' in last 24 hrs; 20.5 hrs drlg. Bit trip @ 3500' (ran button bit)
1-18-2016	3,650'	Cut 865' in last 24 hrs; 16.75 hrs drlg. DST #1 @ 3950'
1-19-2016	3,950'	Cut 300' in last 24 hrs; 10.75 hrs drlg. DST #2 @ 3990'
1-20-2016	3,990'	Cut 40' in last 24 hrs; 1.5 hrs drlg. DST #3 @ 4028'
1-21-2016	4,070'	Cut 80' in last 24 hrs; 3.75 hrs drlg. DST #4 @ 4102', DST #5 @ 4125'
1-22-2016	4,125'	Cut 55' in last 24 hrs; 3.25 hrs drlg. RTD 4400' @ 3:17 am on 1-23-16
1-23-2016	4,400'	Cut 275' in last 24 hrs; 9 hrs drlg.

Remarks

Drill Stem Test Charts



LITH.	0	DRILL TIME (MIN/FT)	10	DEPTH (FT)	SAMPLE DESCRIPTIONS	REMARKS
				3500	Sh: red-brn, gry, grn LS: crm-brn, fxln, fos in prt, some blk inclusions, sub chky-prtly dns w/ some chky, pr por, NS Sh: red-brn, gry, grn	Bit trip at 3500'. Replaced PDC bit with button bit. Circ 15" to clean hole prior to TOH. Circ 30" to clean hole after TIH. Pipe Strap @ 3500': Strap long 171' Straight Hole Survey @ 3500': 0.75° Dev. Samples start 3500' @ 12:34 am on 1-18-16 10' wet & dry samples
				3550	LS: crm-brn, fxln, fos in prt, some shly, some sdy, tr cht (wh), sub chky-prtly dns w/ some chky, pr por, NS Sh: red-brn (some soft & gummy), grn, gry, tan LS: crm-gry, fxln, sli fos, some shly, sub chky-prtly dns w/ some chky, pr por, NS Sh: red-brn (some soft & gummy), gry, grn LS: crm-gry, fxln, fos in prt, some shly, sub chky-prtly dns w/ some chky, pr por, NS Sh: red-brn (some soft & gummy, some sdy), gry LS: A.A., pr por, NS	
				3600	Sh: red-brn (some soft & gummy, some sdy), gry-grn, w/ small amt Sd: tan, fn grain, calc, semi fri- brittle, pr vis por, NS Sh: red-brn (some sdy), gry-grn, vry scat drk gry	
				3650	LS: lt gry-tan, fxln, sli fos, some shly, sub chky-prtly dns, pr por, NS Sh: lt-med gry, scat red-brn & grn LS: crm-gry, fxln, sli fos, some shly, sub chky-prtly dns, pr por, NS Sh: lt gry (some soft & gummy), med gry, scat drk gry-Blk Carb & red-brn	Stotler 3575' (-818)
				3700	LS: crm-gry, fxln, some fos-ool, some shly, sub chky-prtly dns, pr por, NS Sh: lt-med gry w/ small amt drk gry-Blk Carb & red-brn LS: A.A. w/ some shly, pr por, NS LS: crm-gry, fxln, some sdy (vry fn grain), sli fos, sub chky-prtly dns, pr por, NS Sh: lt-med gry, scat drk gry & red-brn LS: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns, pr por, NS LS: crm-tan, fxln, fos in prt, sub chky-prtly dns w/ some chky-vry chky, tr fr fos por, NS Sh: red-brn & gry LS: crm-gry, fxln, fos in prt, sub chky-prtly dns w/ some chky, pr por, NS	Morgan Mud check @ 3640': 53 Vis, 8.9 Wt, 6.0 WL, 1,000 ppm Chl, 1# LCM
				3750	Sh: red-brn & gry w/ LS: wh-lt gry, fxln, sli chty (crm), fos-ool in prt, tr sdy (fn-med grain), sub chky-prtly dns w/ some chky, pr por, NS LS: crm-lt gry, fxln, fos in prt, sub chky-prtly dns, pr por, NS Sh: gry w/ some gry & red-brn	
				3800	LS: crm-tan, fxln, fos in prt, sub chky-prtly dns w/ some dns, pr por, NS Sh: red-brn & gry LS: crm-tan, fxln, fos in prt, sub chky-prtly dns w/ some chky-vry chky, pr w/ tr fr fos-pin point por, NS Sh: red-brn (some soft & gummy), gry, grn	
				3850	LS: crm-tan, fxln, fos in prt, some shly (red-brn, mottled), sub chky-prtly dns, pr por, NS LS: A.A. w/ gry, some pin point-small vug por, NS LS: wh-crm, fxln, fos in prt, some calcite, sub chky-prtly dns w/ some chky-vry chky, pr w/ tr pin point por, NS	
				3900	LS: wh-tan, fxln, fos in prt, sub chky-prtly dns w/ some chky-vry chky, pr por, NS, w/ small amt Sd: lt gry, fn-vry fn grain, calc, semi brittle, pr vis por, NS Sh: red-brn (mstly soft & gummy, some sdy), w/ tr Sd: A.A., pr por, NS Sh: red-brn A.A. w/ some gry & grn	DST #1 3925'-3950' LKC 'A' zn DST #2 3947'-3990' IS: BOB in 34" FF: blow built to 7.5" FSI: no blow back Recovery: 217' TOTAL FLUID: 30' GO (50%G, 50%O) 30' MCO (2%G, 75%O, 23%M) 33' OWCM (3%G, 10%O, 17%W, 70%M) 124' SOMCW (2%O, 79%W, 19%M) Oil Gravity: too low & cold to record Chl ppm: 27,000 DST: 1,000 Mud IFP: 21-69#/45" ISIP: 1315#/60" FFP: 73-106#/45" FSIP: 1294#/60" Started 5' wet & dry samples @ 3885'
				3950	Sh: Black Carb LS: crm-tan, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: lt grn (soft & gummy), gry, red-brn	Heebner 3891' (-1134)
				4000	Sh: red-brn (some soft & gummy), gry, grn LS: wh-lt gry, fxln, fos in prt, vry chky-prtly dns, pr-fr fos por, NS Sh: red-brn (some soft & gummy), gry, grn	Toronto 3921' (-1164)
				4050	LS: wh-lt gry, fxln, ool (med-crs) w/ some fos, sub chky-prtly dns w/ some chky, pr-fr intrprtl w/ some small vug por, fr amt drk-brn-blk spdt-sat stn, S-FSFO (tr bleeding), no odor Sh: gry, grn, red-brn (1 pc/ tray LS w/ stn A.A.) Sh: red-brn (some soft & gummy), some gry & grn (less than 1 pc/ tray LS w/ stn A.A.) LS: crm, fos-ool, sub chky-prtly dns, pr-fr intrprtl por, tr drk-brn patchy-sub sat stn, SSFO, no odor (about 10% of samples were LS & avg about 1 pc/ tray w/ SO) Sh: red-brn (some soft & gummy), gry, grn (1 or less pc/ tray LS w/ stn A.A.) LS: crm, fos-ool, sub chky-prtly dns, pr-fr intrprtl por, scat brn & blk patchy stn, FSFO, no odor LS: crm, fxln, chty (crm-org), sub chky-prtly dns, some pr-fr vug por, vry scat brn-blk patchy stn, SSFO, no odor Sh: red-brn (some soft & gummy), some gry & grn	DST #1 3925'-3950' LKC 'A' zn DST #2 3947'-3990' IS: BOB in 34" FF: blow built to 7.5" FSI: no blow back Recovery: 217' TOTAL FLUID: 30' GO (50%G, 50%O) 30' MCO (2%G, 75%O, 23%M) 33' OWCM (3%G, 10%O, 17%W, 70%M) 124' SOMCW (2%O, 79%W, 19%M) Oil Gravity: too low & cold to record Chl ppm: 27,000 DST: 1,000 Mud IFP: 21-69#/45" ISIP: 1315#/60" FFP: 73-106#/45" FSIP: 1294#/60" Note: some plugging during IFP
				4100	LS: crm-tan, fxln, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtl w/ some small vug por, fr amt drk-brn-blk spdt-sat stn, S-FSFO (tr bleeding), no odor Sh: red-brn (some soft & gummy), some gry-grn Shly Sdy LS: red-brn, fn-vry fn grain sd, some mottled, hard-brittle, pr por, NS Sh: red-brn (some soft & gummy), some gry-grn Shly LS: red-brn (some soft & gummy), some gry-grn LS: wh-crm, fxln, sli fos, vry chky-prtly dns, tr fr fos-vug por, tr brn-blk spdt-patchy stn, SSFO, no odor, tr barren por Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk spdt-patchy stn (5 pcs blk Carb) Sh: Black Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn	DST #3 3987'-4028' LKC 'F'-'G' zns IF: BOB in 2" FF: BOB in 2.75" Recovery: 630' GIP & 1,295' TOTAL FLUID: Dumped 95' GO (12%G, 88%O). Rev. out 1,076' fluid w/ smpls every 5 min: 5' smpl: SMCO (15% G, 83% O, 2% M), 10' smpl: SO/MW (3%G, 4%O, 48%W, 45%M), 5'-30" Note: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65%W, 31%M) below circ sub. Oil Gravity 32.8° API Chl ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60" FFP: 396-585#/30" FSIP: 1135#/60" Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM
				4150	LS: wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr w/ tr fr fos-vug por, 1 pc w/ spdt-brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: lt gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtl por, fr amt lt-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: lt-med gry (some soft & gummy) Sh: gry & red-brn, some grn & tan Sh: red-brn (some soft & gummy), gry, tr grn	DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" FF: BOB in 13" Recovery: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' GCO (7%G, 92%O, 1%M) Dumped 124' GOCM (9%G, 22%O, 69%M) below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60" FFP: 305-459#/30" FSIP: 1326#/60" Ran another bit (re-run) @ 4102'
				4200	LS: A.A. LS: crm, fxln, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr amt lt-med brn patchy-sub sat w/ some sat stn, S-FSFO, no odor Sh: red-brn, gry, grn Sh: red-brn, gry, some grn LS: crm-lt gry, fxln, sli fos, some shly (red-brn, mottled), sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn	DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Recovery: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/30" FSIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
				4250	Calc Sd: lt gry-red-brn, fn-vry fn grain, mstly shly, semi fri- brittle, pr vis por, NS Sh: red-brn (mstly soft & vry gummy), some gry & grn Sh: tr Calc Sh: lt gry	
				4300	LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, tr drk-brn-blk spdt-patchy dead stn (some tarry), NSFO, no odor Calc Sd: red-brn & lt-med gry, w/ Sh: red-brn (some soft & gummy), gry	
				4350	LS: lt gry-brn, fxln, sli fos, some sli shly, sub chky-prtly dns & some sli gritty, pr por, NS Sh: red-brn, some gry & grn, tr drk gry	Pawnee 4244' (-1487)
				4400	LS: tan, fxln, prtly dns, pr por, NS Calc Sh: purple-gry & Sh: red-brn LS: crm-tan, fxln, tr cht (crm), sub chky-prtly dns, pr por, NS Sh: red-brn (some soft & gummy), tan (some soft & gummy), some grn & brick red Sh: A.A. w/ some Calc Sh: gry LS: crm-tan, fxln, sli fos, some sli shly, sub chky-prtly dns, some sli gritty, pr por, NS Calc Sh: lt-med gry, w/ some Sh: red-brn, gry, grn	
				4450	LS: A.A., pr por, NS LS: A.A. Calc Sh: red-brn & gry Calc Sh: lt-med gry, w/ some Sh: red-brn, gry (some soft & gummy) LS: crm-tan, fxln, sub chky-prtly dns, pr por, NS LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns w/ some chky, pr por, NS Sh: red-brn, gry, lt grn (soft & gummy), grn, brick red LS: crm-tan, fxln, sub chk-dns, pr por, NS Shigry, grn, red-brn, some chky LS: crm-tan, fxln, fos in prt, sub chky-prtly dns w/ some chky, pr por, NS Sh: red-brn (mstly soft & gummy, some sdy), w/ some Sd: chr, fn-med grain, sub rnd, calc, some shly (red-brn), pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn, w/ some Sd: A.A. LS: crm-lt gry, fxln, sub chky-prtly dns, pr por, NS Sh: red-brn (mstly soft & gummy, some sdy) w/ some Sdy Sh: tan (soft & gummy), & Shly Sd: red-brn, fn-med grainpr vis por, NS Sh: A.A. w/ LS: crm-tan, fxln, sub chky-prtly dns, pr por, NS, & some Shly Sd: red-brn, fn-med grain, calc, hard, pr por, NS	Cherokee 4314' (-1557)

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067721

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Oakley, TX

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
11/23/11	27	5	28			8:00	10:00
LEASE <i>James Br 1</i>	WELL #	LOCATION <i>Leavitt E 5100</i>		COUNTY	STATE		
OLD OR NEW (Circle one)							

CONTRACTOR *MunF 7*

TYPE OF JOB *Reel & Stage*

HOLE SIZE *7 7/8* T.D.

CASING SIZE *5 1/2* DEPTH *4396*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *UV* DEPTH *2502*

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *4813*

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT *Bottom 430 - 44 mud 59 1/2*

Top 160 59 1/2 EQUIPMENT

PUMP TRUCK CEMENTER *Alan Ryan*

516-781-4033 HELPER *Kevin Wayne Ryan*

BULK TRUCK DRIVER *Andrew Forslund*

373

BULK TRUCK DRIVER *Carly Brown*

897

OWNER *Seaman*

CEMENT

AMOUNT ORDERED *145.82 1070667 1000 25*

Columbiana, Oklahoma, CD 19 2000 5000-1000 00

425 #11 1/2 1/2 500 2000 reactive cement

COMMON	425 51L	@ 19.28	8449.00
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC	14.5 51L	@ 23.20	3407.00
Mud Clean	2000	@ 20.00	4000.00
SS-33 Reactive	2000	@ 10.00	2000.00
Silicate	72.5 16	@ 2.72	1974.00
CEL 310	108 16	@ 2.30	2484.00
Deframer	20 16	@ 3.00	600.00
Floccul	213 16	@ 2.92	622.00
		@	
		@	
TOTAL			18481.51

REMARKS: *1000 #10*

Run top silicate, pump mud clean 2000 lbs. Pump reactive 2000 spacer 1/2, max 1/2, work tank displace 1600 lbs. Displace 59 1/2 high mud w/ 1500 #11 LIFT. Load plug @ 2000 59 1/2 depth 700 1/2 500 ac. 3 hrs. max 30 1/2 BH, 15 SURF, 300 50 1/2 down 5 1/2. Wash up, displace plug w/ 59 1/2 BH 1/2 w/ 600 1/2 LIFT sand plug @ 2000 1/2 700 closed.

Cement did circulate

CHARGE TO *Sueman*

STREET _____

CITY _____ STATE _____ ZIP _____

DISCOUNT 50% *9240.75*

SERVICE *9243.76*

HANDLING <i>640 #11</i>	@ <i>2.50</i>	<i>1600.00</i>
MILEAGE <i>27.825 Ton</i>	@ <i>10.80</i>	<i>3000.75</i>
DEPTH OF JOB		
PUMP TRUCK CHARGE		<i>2265.25</i>
EXTENSION	@ <i>2.00</i>	<i>2906.25</i>
HV MILEAGE <i>40</i>	@ <i>5.45</i>	<i>2180.00</i>
LV MILEAGE <i>40</i>	@ <i>4.30</i>	<i>1720.00</i>
H.o.m	@	<i>225.00</i>
<i>Stand by Pump Truck</i>	@	<i>500.00</i>
TOTAL 15,591.16		
DISCOUNT 50% <i>7795.58</i>		

To: Allied Oil & Gas Services, LLC:

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Charles Schmidt*

SIGNATURE *[Signature]*

PLUG & FLOAT EQUIPMENT

Thread lock	2-	<i>85.00</i>	<i>170.00</i>
UV Tool	@		<i>535.00</i>
API float shoe	@		<i>545.00</i>
Latch block	@		<i>660.00</i>
Gas kills	3	@ <i>395.00</i>	<i>1185.00</i>
Centralizers	49	@ <i>57.00</i>	<i>2793.00</i>
TOTAL 10,688.00			
DISCOUNT 50% <i>5344.00</i>			

SALES TAX (If Any) _____

TOTAL CHARGES *44768.67*

DISCOUNT *22384.33 (50%)* IF PAID IN 30 DAYS

NET TOTAL *22384.33* IF PAID IN 30 DAYS

Bid 22387.34

1097.08 TAX

\$23481.42