

Form	ACO1 - Well Completion
Operator	Knighton Oil Company, Inc.
Well Name	ROBINSON 1
Doc ID	1594731

All Electric Logs Run

DIL
Micro
Sonic
CDL/CNL/PE

Form	ACO1 - Well Completion
Operator	Knighton Oil Company, Inc.
Well Name	ROBINSON 1
Doc ID	1594731

Tops

Name	Top	Datum
Stone Corral Anhydrite	1867	+337
Base Stone Corral	1901	+305
Topeka	3279	-1075
Heebner	3493	-1289
Toronto	3518	-1314
Lansing	3537	-1333
LKC F	3609	-1405
Muncie Creek	3645	-1441
LKC H	3663	-1459
LKC I	3685	-1481
LKC J	3699	-1495
LKC K	3719	-1515
LKC L	3738	-1534
BKC	3752	-1548
Arbuckle	4018	-1814

Form	ACO1 - Well Completion
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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	230	common	150	3% cc, 2% gel

ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY

KNIGHTON OIL COMPANY, INC.

LEASE

#1 ROBINSON

FIELD

Unnamed

LOCATION

2020' FNL & 475' FWL

SECTION

26

TOWNSHIP

08S

RANGE

23W

COUNTY

GRAHAM

STATE

KANSAS

CONTRACTOR

STP DRILLING

SPUD

08/18/2021

COMP

08/26/2021

RTD

4065' (-1857)

LTD

4065' (-1857)

ELECTRICAL SURVEYS

ELI: DIL, CDL/CNL/PE, MEL/SON

ELEVATIONS

KB 2204'

GL 2197'

Measurements Are All From

KB

API #

15-065-24204-00-00

CASING

SURFACE 6 Jts 8 5/8" set @ 230' KB w/ 150

ss Common, 3% CC, 2% Gel

PRODUCTION N/A- P&A w/ 290 ss 60/40

Pozmix, 4% gel, 1/4#/sk Flo-Seal

FORMATION TOPS

LOG

SAMPLES

CHRONOLOGY

STONE CORRAL ANHYDRITE

1867' (+337)

1870' (+334)

08/18/2021- MBRU STP Drilling, Rig #1, SPUD

BASE STONE CORRAL

1901' (+303)

1905' (+299)

12 1/4" hole @ 3-45 PM. Sunrise ran 6 Jts 8 5/8" tally 221.53', set @ 230' w/ 150 ss Common, 3% cc, 2% gel. Cement did circulate.

TOPEKA

3279' (-1075)

3281' (-1077)

08/19/2021- Drilg @ 330'. SHIS @ 230' = 1 deg.

HEEBNER

3493' (-1289)

2496' (-1292)

08/20/2021- Drilg @ 2200'. Mud displacement complete @ 2890'. Bit trip @ 2916'. Pipe strap = 0.47' 1/TB. SHIS @ 2916' = 3/4 deg.

TORONTO

3518' (-1314)

3520' (-1316)

08/21/2021- Drilg @ 2950'.

LANSING

3537' (-1333)

3539' (-1335)

08/22/2021- Drilg @ 3550'. Short trip @ 3617'. Run DST #1. SHIS @ 3617" = 1 deg.

LKC 'F' Zn

3609' (-1405)

3614' (-1412)

08/23/2021- Drilg @ 3635'. Run DST #2.

MUNCIE CREEK

3645' (-1441)

3647' (-1443)

08/24/2021- DST #3 @ 3730'.

LKC 'H' Zn

3663' (-1459)

3662' (-1458)

08/25/2021- Drilg @ 4065'.

LKC 'I' Zn

3685' (-1481)

3686' (-1485)

08/26/2021- RTD 4065'. Short trip @ RTD 4065'. ELI open hole E-Logs: DIL, CNL/CDL/PE, MEL/SON, P&A 290 ss 60/40 Pozmix, 4% gel, 1/4 #/sk Flo-Seal.

LKC 'J' Zn (Dennis)

3699' (-1495)

3696' (-1492)

LKC 'K' Zn (Swope)

3719' (-1515)

3719' (-1515)

LKC 'L' Zn (Hertha)

3738' (-1534)

3735' (-1531)

B/KANSAS CITY

3752' (-1548)

3752' (-1548)

ARBUCKLE

4018' (-1814)

4018' (-1814)

RTD/LTD

4065' (-1861)

4065' (-1861)

REMARKS:

The decision was made to P&A the Knighton Oil Company, Inc. #1 Robinson test well. Plug hole as ordered by Case Morris. 50 ss @ 4000', 50 ss @ 1900', 100 ss @ 1000', 50 ss @ 275', 10 ss @ 40', 30 ss Rathole. Plug down @ 4:45 AM by Quality Cementing. Release rig @ 8:45 AM 08/26/2021.

Respectfully submitted,
Roger L. Martin, Geologist

LITHO

POROSITY

DRILLING TIME
MIN/FT

DEPT

SAMPLE DESCRIPTION

0

TCV

300

3050

5

10

-C-

3100

5

10

-C-

3150

0

5

10

-C-

3200

0

5

10

-C-

3250

0

5

10

-C-

3300

0

5

10

-C-

3350

0

5

10

-C-

3400

0

5

10

-C-

3450

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3650

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-C-

3700

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10

-C-

3750

0

5

10

-C-

3800

0

5

10

-C-

3850

0

5

10

-C-

3900

0

5

10

-C-

4000

0

5

10

-C-

4050

0

5

10

-C-

4100

0

5

10

-C-

SH: Vgr'd, rd & gn-gy.

LS: gy-wh, Wkst- Pkfst, subchilly to chiky & sm argil. Pr- NV Poro, NSO, & dn Mdst- Wkst, sm argil w/ VPr- NV Poro, NSO.

Incrs SH: gy, calc & lmy & sm blk carb.

LS: gy- dn Mdst & Wkst, sm argil w/ VPr- NV Poro, NSO.

Shrp Incrs SH: gy, sm calc & lmy, sm argil LS.

SH: gy-blk, sm carb, sm calc & lmy SH & argil LS.

[TOPEKA] LS: cm-gy, ux & dn Mdst- Wkst, argil & sm wh-chiky, Pred VPr- NV Poro, NSO.

LS: dk-lt gy-cm, argil Mdst & ux dn & sbchiky w/ Pr- NV Poro, NSO, & Vgr'd SH.

LS: gy-tn-wh, Rr Pkfst & chiky LS w/ Pred Pr visibl Poro.

Abndt dn & argil Mdst- Wkst w/ VPr- NV Poro, NSO.

sm SH: AA.

LS: cm-bf & wh, gmr-l- fos Pkfst, Vfn oolite, ux & subchilly- chiky w/ sm Fr- Gd IGr Poro, pp Poro, NSO.

Rr-bf-tn Pk'd Grst w/ Gd - VGd Poro w/ NSO.

sm Vgr'd SH, AA.

LS: cm-bf & wh, sm uxl- usuro, SI dolome & subchiky & wh-chiky LS, sm Fr- VGd visibl & aprnt Poro: uIGr & uIX Poro, pp Poro & fos Poro. NSO.

sm Vgr'd SH & Rr blk carb SH.

LS: AA & ux- fmdn, sm dn to Pr visibl Poro w/ NSO, VPr blk carb & subcarb & Vgr'd SH.

SH: Vgr'd.

LS: gy-tn-cm, dn & ux- Vfnx, sm argil Mdst, NSO.

LS: gy-wh & tn, sm Wkst- Pkfst w/ Pr- Fr IGr Poro, sm chiky & ux- Vfnxln, VSI Cherty, NSO.

sm argil- shly LS & SILTS: gy, calc.

LS: AA, argil.

LS: gy-tn, ux- Vfnxln & dn & argil Mdst.

SH: AA, VPr blk carb.

LS: wh-gy-tn, sm Wkst- Pkfst, sm Pr- Fr IGr Poro, NSO. SI Cherty: gy-bf, opq, shrp, sm argil LS.

LS: gy-bf-tn, ux- Vfnxln, sm dolome, sm Wkst- Pkfst, sm wh-chiky, Pred Pr Fr Poro: IGr Poro, IX Poro, VGr Gd visibl Poro, NSO. SI Cherty.

LS: gy-bf-tn, ux- Vfnxln, sm argil, sm dolome, Pr- Fr IX Poro, IGr Poro, NSO.

[HEEBNER] SH: blk carb.

LS: gy-tn, dn Mdst -, sm argil.

SH: Vgr'd, PRed gy & mm-rd.

[TORONTO] LS: cm-tn-gy, ux- Vfnxln & wh-chiky, VPr- Pr visibl Poro uIGr & uIX Poro, CHERT: tn-cm & bl-gy, shrp, opq- Transl. NSO.

[LANSING] LS: gy-cm, bf-tn, sm Wkst- Pkfst w/ Pr- Fr IGr Poro, uIPoro, prt wh-chiky & SI Cherty, VPr Fr Poro w/ NSO.

LS: AA, Incrs dn Mdst & ux- dn, sm argil LS.

SH: Vgr'd gy & rd, sm lmy & calc.

LS: wh-gy-tn, ux- fmdn & Wkst- Pkfst. VCHERTY: omg-rd-bn & gy, fos, mot, shrp Chert. sm chiky LS, Pred Pr visibl Poro, Tre SFO ->99% barren.

SH: Vgr'd, sm lmy & calc SH & argil LS.

LS: gy-tn-wh, Pred dn- ux & chiky LS, SI Cherty, VPr- NV Poro, NSO.

LS: gy-tn-wh, ux- fmdn, VPr 2nd ReX, prt chiky, sm Wkst- Pkfst, Pred VPr- Pr visibl Poro & NV Poro, SI Cherty.

sm argil- dn LS.

Incrs SH: gy-blk & Rd. (Pred barren LS & SH)

[LKC 'F' Zn] LS: bf-gy-wh, sm chiky to Vchiky, sm uxl- fmdn, prt oomide to Voomide, VPr spt'd STN & SI SFO & Cut.

LS: cm-tn-gy, mot, ux- fmdn, prt md ool & oomide w/ NSFO.

Abndt wh-chiky & subchiky to dn LS w/ Pr- NV Poro w/ NSO. (SH: AA in spls)

LS: wh-bf-gy, prt chiky, prt ux- fmdn w/ Pr- NV Poro, NSO.

[MUNCIE CREEK] SH: blk carb.

LS: tn-gy-wh, dn- ux & Mdst & chiky AA w/ VPr- NV Poro.

SH: Incrs blk carb & Vgr'd SH.

[LKC 'H' Zn] LS: gy-bf-wh, prt chiky, prt ux- fmdn, VPr fos, VPr VPr- Pr visibl Poro: pp- uIX Poro & uIGr Poro, Tre SFO & Cut.

& LS: tn-gy, dn- ux Pkfst & Wkst w/ VPr- NV Poro.

SH: Vgr'd, gy & blk carb.

[LKC 'I' Zn] LS: tn-gy-wh, cryptox.

[I' Zn Poro] VPr Pkfst w/ Pr- Fr Poro: VPr pp- vug Poro, IX Poro w/ STN, SI SFO, SI- Fr Cut, SI Odor, Vgr'd SH, AA.

[LKC 'J' Zn] LS: cm-tn-gy, ux- fmdn, sm 2nd ReX, sm fos Wkst- Pkfst w/ Rr- Pr Fr visibl Poro: pp- vug Poro, fos Poro, IGr Poro, IX Poro, Tre Gd visibl Poro, <10% w/ spt'd- substat STN, SI- Fr SFO & mlky Cut, SI Odor on brk.

SH: Vgr'd gy & rd SH.

[LKC 'K' Zn] LS: wh-chiky & cm-gy-tn, ux- Vfnxln & Wkst- Pkfst w/ VPr- Pr visibl Poro: pp Poro, uIX Poro, uIGr Poro, VSI SFO- STN- Cut.

Abndt Vgr'd SH: mm-rd & dk, gy.

[LKC 'L' Zn] Abndt LS: tn-gy-wh, sm mot'd Pkfst & Wkst & ux- fmdn, VPr- Pr visibl IGr Poro & IX Poro, Tre SFO- STN- Cut.

[B/KANSAS CITY] SH: Vgr'd, gy-gn & mm-rd. (LS: AA) & LS: dn, ux & argil- Mdst.

Silts: mm-rd-pnk-gy, micae, VPr visibl Poro.

LS: wh-bf-gy, dn- chiky & ux- fix w/ VPr- NV Poro, NSO, sm chiky, sm argil- shly.

SH: Pred mm-rd.

LS: gy-wh, dn- ux & argil- shly w/ mm-rd SH, sm chiky- dn LS.

LS: gy-wh, prt chiky Wkst, VPr- NV Poro, NS.

SH: Vgr'd, gn-gy & rd-mm.

LS: wh-gy-bf, subchiky & uxdn, sm silty- Vfnly sndy w/ VPr- NV Poro, NSO, sm dn Mdst, sm argil LS & SH: AA/

LS: gy-bf-wh, Wkst- Pkfst & uxdn, Pr- NV Poro, NSO.

CHERT: bf-ambn-tn & omg, sm Vfnly gmr-l w/ uIGr Poro, NSO, NF, NC, NO, sm shrp Chert, VPr- Fr visibl & aprnt Poro, NSO.

CHERT: bf-gy, Vfnly gmr-l Cherty w/ Pred Pr visibl Poro, NSO, & SILTS: gy, calc & lmy & silty argil LS.

sm bf-gy Tripole Chert w/ FruIGr Poro, NSO.

LS: gy-wh cryptox- dn.

SH: Vgr'd, mm-rd & gn-gy (spls wash rd), rd SH- Clay.

LS: gy, dn Mdst.

SH: Pred rd-mm (spls wash rd), sm calc & lmy SH. Pred rd-mm- SH- Clay.

Pred rd-mm SH- Clay.

SH: rd-mm SH & Clay.

sm LS: gy-wh, dn- ux & Mdst- Wkst, sm VSI fos & shly.

SH: clay, rd-mm, soft.

VAbndt SH: rd-mm (spls wash rd).

sm LS: wh-gy, semichiky, VPr- NV Poro, NS. Cherty: opq- wh Chert, mm- rd SH.

Abndt CHERT: wh-gy-bf, opq- shrp, sm SI fos- shly- rd, VPr- NV Poro.

CHERT: AA, sm with'd, Pr- NV Poro, & LS: AA. NSFO. Tre dd STN in Chert.

[ARBUCKLE] Tre Dolo & ool Chert: ambn-gn Chert, & VPr DOLO: cm-gy, bf-tn, ux- fmdn, usuro & dn w/ Pr- Fr Poro, vug Poro, Tre Gd- VGd vug Poro. Tre dd STN & VPr Resid Cut. NSFO, sm rd-bn argil, ush Dolo, shly.

Abndt CHERT: AA, sm with'd & rd-mm SH: AA.

DOLO: gy-tn-bn, mm tn'd, ux- fmdn, PRed dn- Pr Poro, Rr Fr- Gd Poro. NSO, NF, NC.

VAbndt DOLO: bf-cm, ux- Vfnxln, Rr fmdn- 2 ReX, sm Fr- Gd vug Poro & fos md Poro, NSO, NF, NC.

4065' (-1861)/RTD

KNIGHTON OIL ROBINSON #1 2020'FNL&475'FWL Sec 26-08S-23W GRAHAM CO., KS API# 15-065-24204

DST #1 LKC 'B'-F' 3556'-3617' 30-45-60-90 1st Op: blt to 2" No BB 2nd Op: Blt to 2" No BB Rec: 131 TF; 131' DM, Tre O IHP: 1742 ISIP: 845 FFP: 44-80 FHP: 823 BHT: 110 F

DST #2 LKC 'H'-I' 3641'-3695' 30-45-30-30 1st Op: No blo, flush tool, surge & No blo Rec: 5 TF; 5' DM IHP: 1811 ISIP: 244 FFP: 20-24 FSP: 103 FHP: 1779 BHT: 110 F

DST #3 LKC 'I'-K' 3672'-3730' 30-45-45-45 1st Op: blt to 1.5", No BB 2nd Op: blt to >0.25", No BB Rec: 30' TF; 30' GIP 2' SMCQ 92%O.8%M 28' OCM 28%O.70%M IHP: 1856 ISIP: 19-22 FFP: 1038 FSP: 892 FHP: 1839 BHT: 109 F

Drlg @ 4058' wt 9.6, vis 66 PV 20, YP 26 pH 8.5, WL 8.8 CI 1800, LCM 6#



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Knighton Oil Co., Inc.

26//8s/23w Graham KS

1700 N Waterfront PKWY
BLDG 100 STE A
Wichita, KS 67206
ATTN: Roger Martin

Robinson #1

Job Ticket: 67546

DST#: 1

Test Start: 2021.08.22 @ 18:52:00

GENERAL INFORMATION:

Formation: **Lans. "B - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:54:51

Time Test Ended: 02:21:51

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: 3556.00 ft (KB) To 3617.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 3617.00 ft (KB) (TVD)

2200.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6771 Inside

Press@RunDepth: 80.36 psig @ 3557.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.22

End Date:

2021.08.23

Last Calib.: 2021.08.23

Start Time: 18:52:01

End Time:

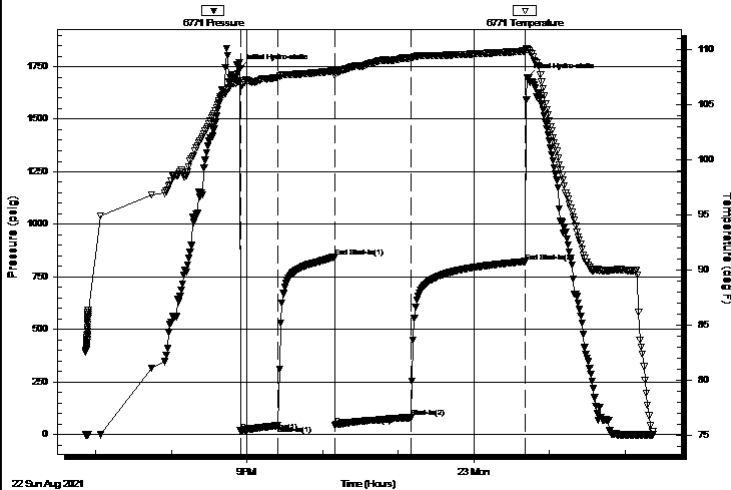
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Time On Btm: 2021.08.22 @ 20:54:36

Time Off Btm: 2021.08.23 @ 00:42:36

TEST COMMENT: 30 - IF: Blow built to 2"
45 - IS: No blow back
60 - FF: Blow built to 2"
90 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.72	107.20	Initial Hydro-static
1	18.21	106.85	Open To Flow (1)
30	44.01	107.53	Shut-In(1)
75	844.71	108.10	End Shut-In(1)
76	43.53	107.65	Open To Flow (2)
136	80.36	109.25	Shut-In(2)
227	823.15	109.90	End Shut-In(2)
228	1696.58	110.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
131.00	Mud w /trace oil 100% m	0.74

Gas Rates

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

DRILL STEM TEST REPORT

Knighton Oil Co., Inc.

26//8s/23w Graham KS

1700 N Waterfront PKWY
BLDG 100 STE A
Wichita, KS 67206
ATTN: Roger Martin

Robinson #1

Job Ticket: 67546

DST#: 1

Test Start: 2021.08.22 @ 18:52:00

GENERAL INFORMATION:

Formation: **Lans. "B - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:54:51

Time Test Ended: 02:21:51

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: 3556.00 ft (KB) To 3617.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 3617.00 ft (KB) (TVD)

2200.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 3557.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.22

End Date:

2021.08.23

Last Calib.:

2021.08.23

Start Time: 18:52:01

End Time:

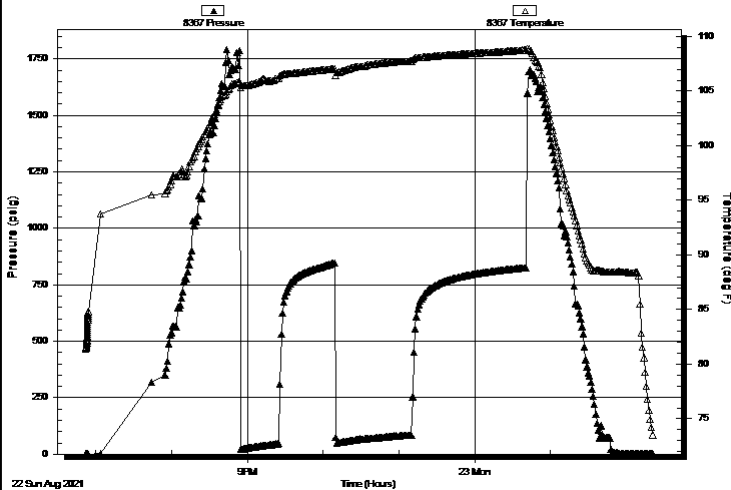
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Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 2"
45 - IS: No blow back
60 - FF: Blow built to 2"
90 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
131.00	Mud w /trace oil 100%m	0.74

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Knighton Oil Co., Inc.

26//8s/23w Graham KS

1700 N Waterfront PKWY
BLDG 100 STE A
Wichita, KS 67206
ATTN: Roger Martin

Robinson #1

Job Ticket: 67546

DST#: 1

Test Start: 2021.08.22 @ 18:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
131.00	Mud w /trace oil 100%m	0.735

Total Length: 131.00 ft

Total Volume: 0.735 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

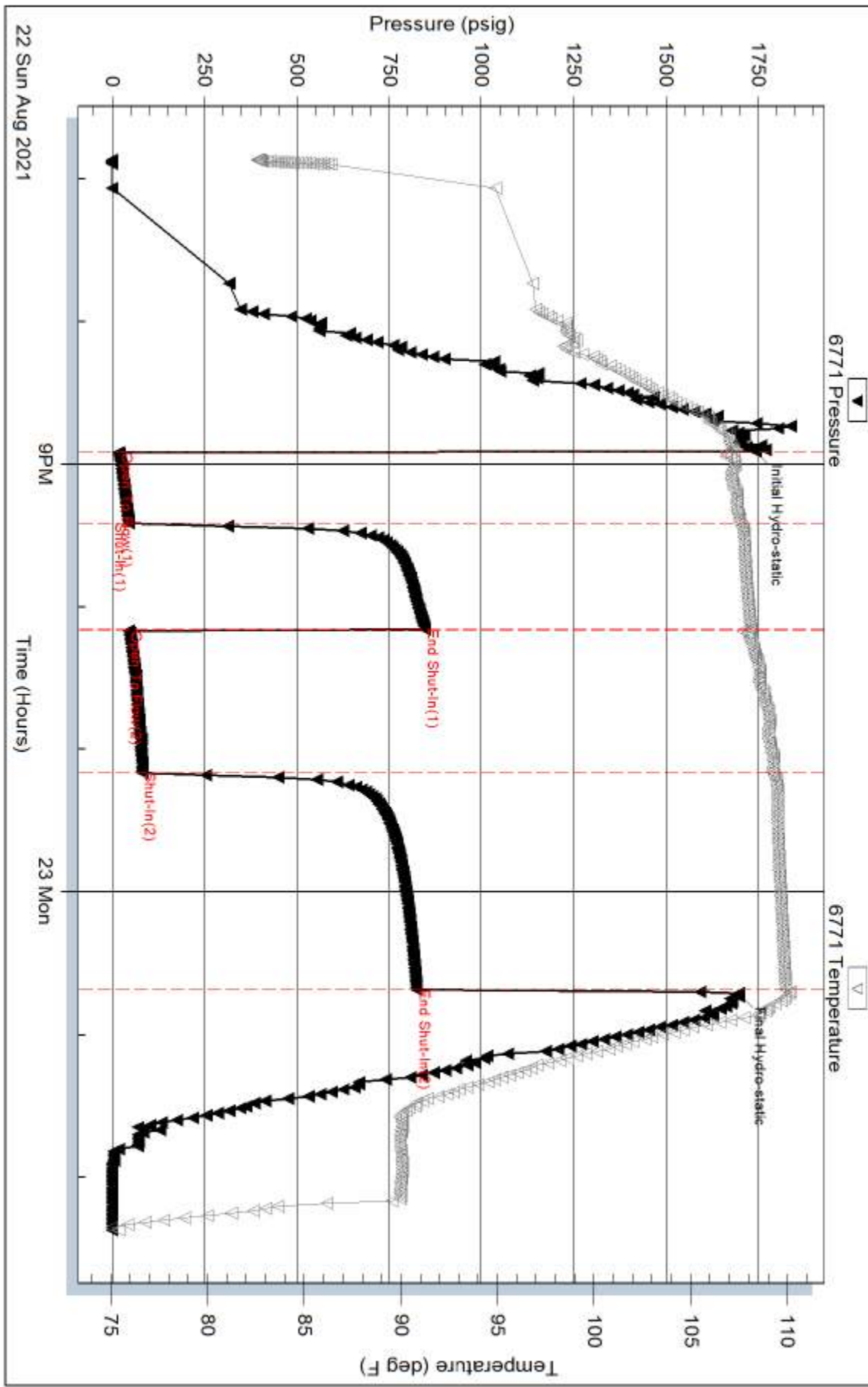
Inside

Knighton Oil Co., Inc.

Robinson #1

DST Test Number: 1

Pressure vs. Time

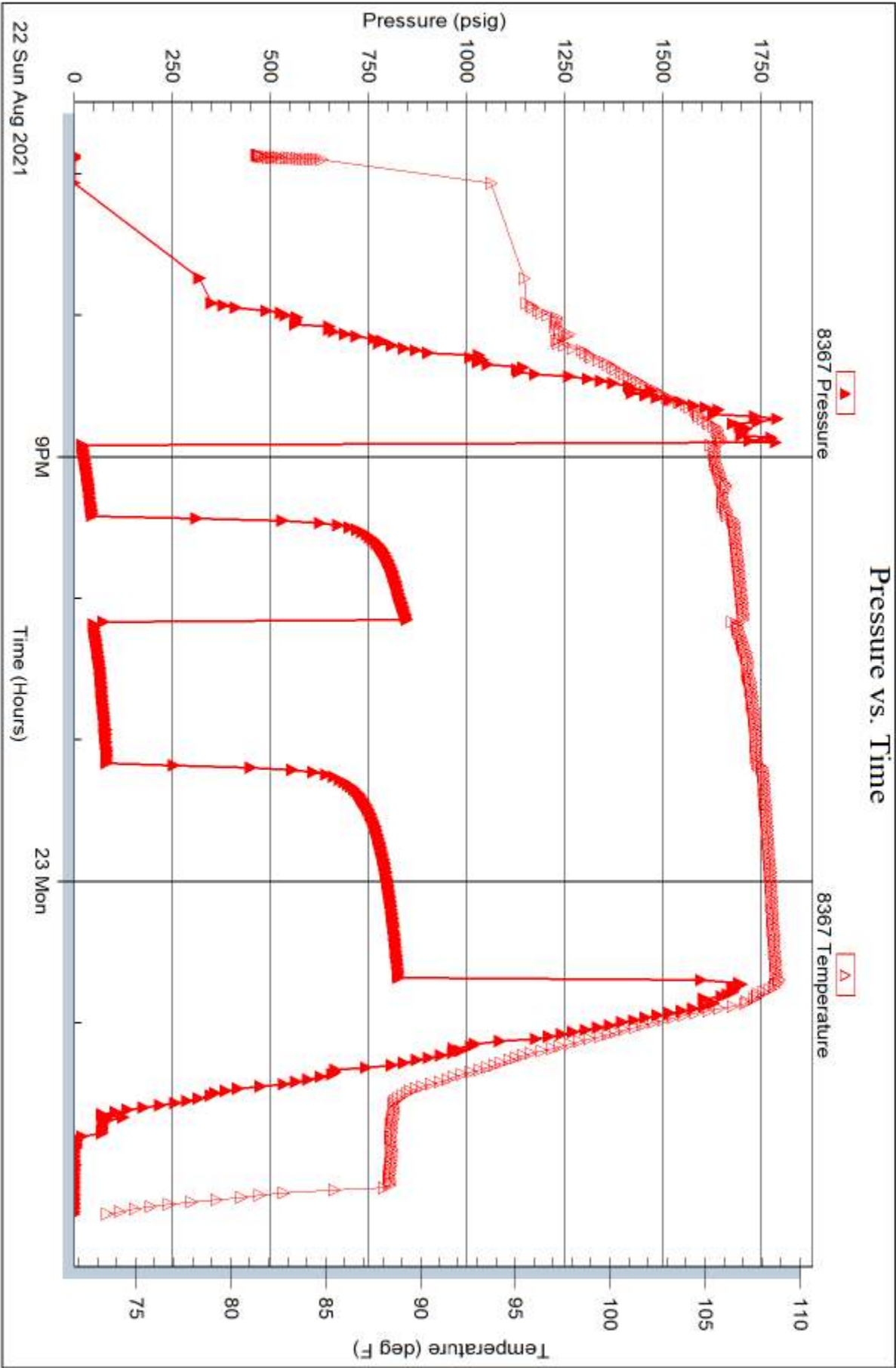


Serial #: 8367

Outside Knighton Oil Co., Inc.

Robinson #1

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Knighton Oil Co., Inc.

26//8s/23w Graham KS

1700 N Waterfront PKWY
BLDG 100 STE A
Wichita, KS 67206
ATTN: Roger Martin

Robinson #1

Job Ticket: 67547

DST#: 2

Test Start: 2021.08.23 @ 15:45:00

GENERAL INFORMATION:

Formation: **Lans. "H - I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:36

Time Test Ended: 21:34:06

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 3641.00 ft (KB) To 3695.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 3695.00 ft (KB) (TVD)

2200.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6771 Inside

Press@RunDepth: 23.59 psig @ 3642.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.23

End Date:

2021.08.23

Last Calib.: 2021.08.23

Start Time: 15:45:01

End Time:

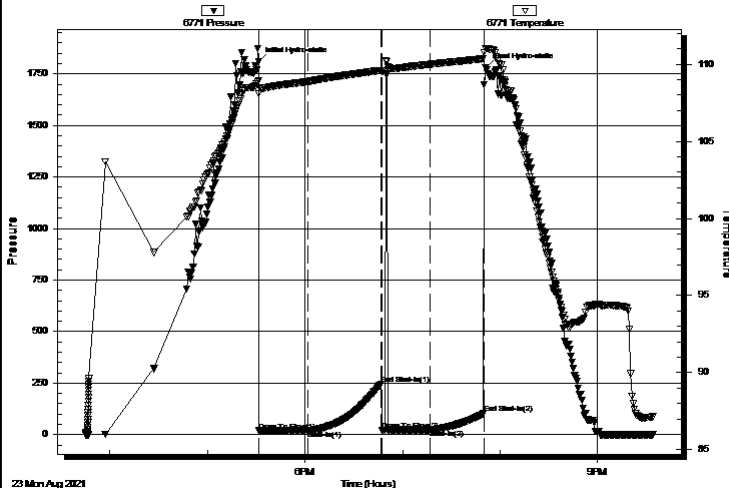
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Time On Btm: 2021.08.23 @ 17:31:21

Time Off Btm: 2021.08.23 @ 19:51:06

TEST COMMENT: 30 - IF: No blow
45 - ISI: No blow
30 - FF: No blow, Flushed tool, surge then no blow
30 - FSI: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1810.89	108.93	Initial Hydro-static
1	18.17	108.09	Open To Flow (1)
31	19.09	108.87	Shut-In(1)
76	243.99	109.60	End Shut-In(1)
76	20.05	109.56	Open To Flow (2)
106	23.59	109.99	Shut-In(2)
139	102.75	110.35	End Shut-In(2)
140	1779.21	111.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Knighton Oil Co., Inc.

26//8s/23w Graham KS

1700 N Waterfront PKWY
BLDG 100 STE A
Wichita, KS 67206
ATTN: Roger Martin

Robinson #1

Job Ticket: 67547

DST#: 2

Test Start: 2021.08.23 @ 15:45:00

GENERAL INFORMATION:

Formation: **Lans. "H - I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:36

Time Test Ended: 21:34:06

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 3641.00 ft (KB) To 3695.00 ft (KB) (TVD)

Total Depth: 3695.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2208.00 ft (KB)

2200.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 3642.00 ft (KB)

Start Date: 2021.08.23

End Date:

2021.08.23

Start Time: 15:45:01

End Time:

21:33:51

Capacity: 8000.00 psig

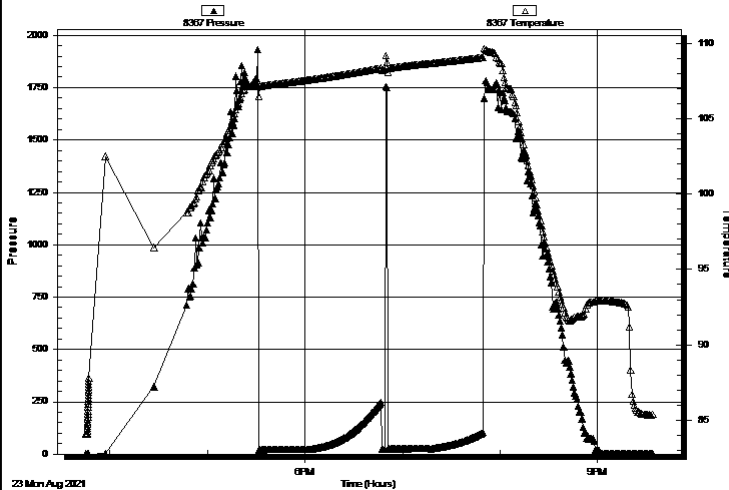
Last Calib.: 2021.08.23

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: No blow
45 - ISI: No blow
30 - FF: No blow, Flushed tool, surge then no blow
30 - FSI: No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Knighton Oil Co., Inc.

26//8s/23w Graham KS

1700 N Waterfront PKWY
BLDG 100 STE A
Wichita, KS 67206
ATTN: Roger Martin

Robinson #1

Job Ticket: 67547

DST#: 2

Test Start: 2021.08.23 @ 15:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	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:

Serial #: 6771

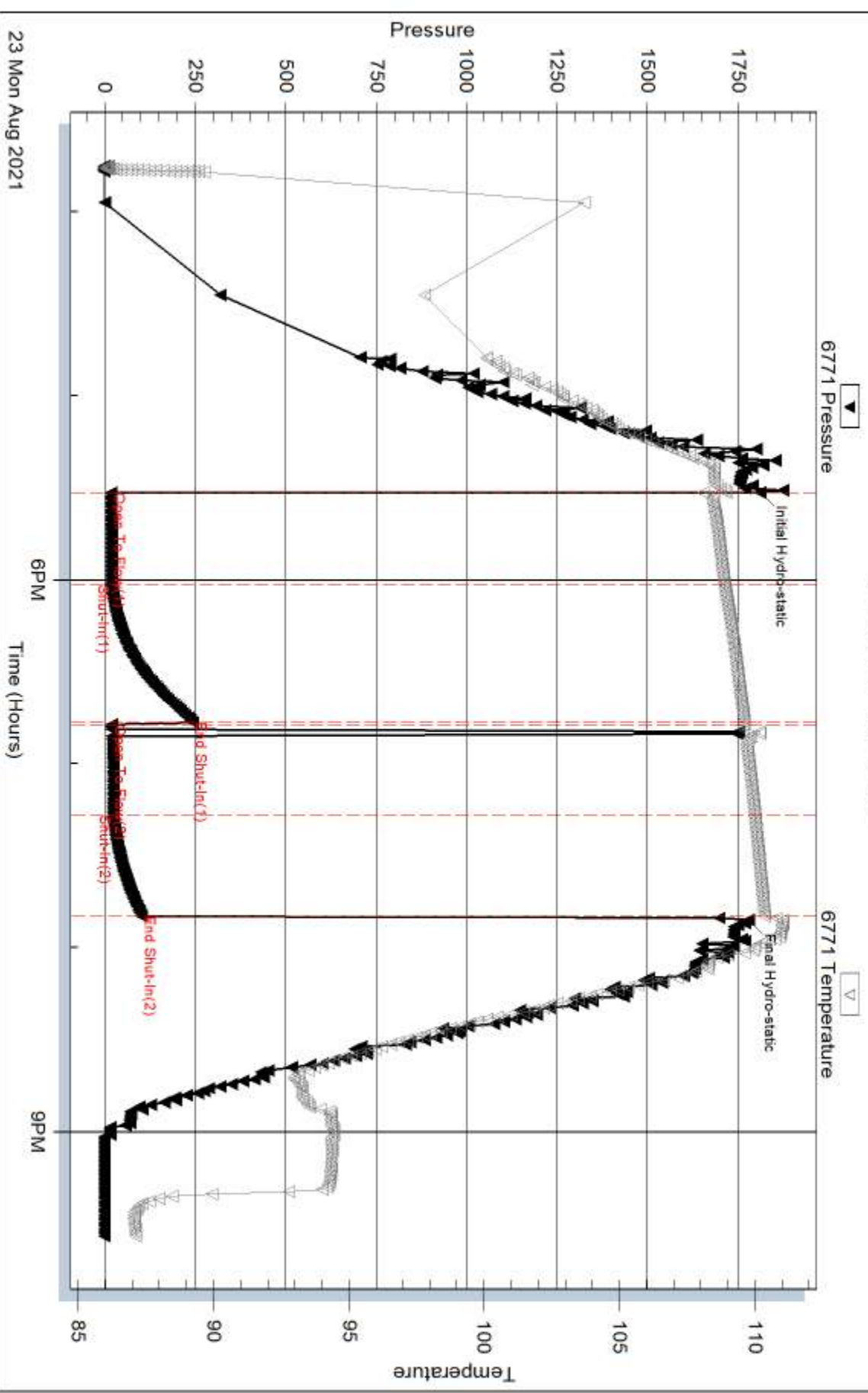
Inside

Knighton Oil Co., Inc.

Robinson #1

DST Test Number: 2

Pressure vs. Time

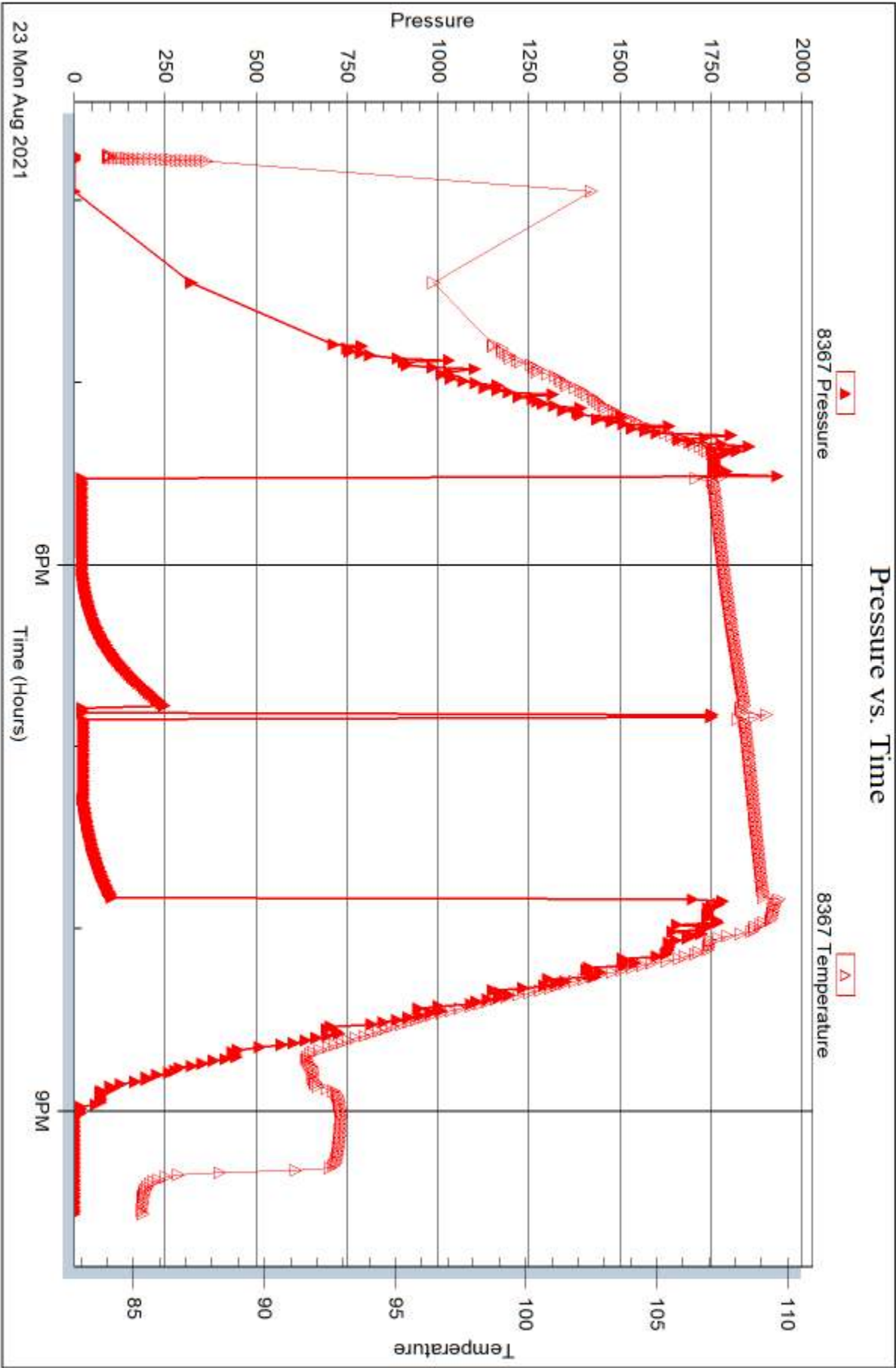


Serial #: 8367

Outside Knighton Oil Co., Inc.

Robinson #1

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Knighton Oil Co., Inc.

26//8s/23w Graham KS

1700 N Waterfront PKWY
BLDG 100 STE A
Wichita, KS 67206
ATTN: Roger Martin

Robinson #1

Job Ticket: 67548

DST#: 3

Test Start: 2021.08.24 @ 06:20:00

GENERAL INFORMATION:

Formation: **Lans. "I - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:54:51

Time Test Ended: 12:07:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 3672.00 ft (KB) To 3730.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2200.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6771 Inside

Press@RunDepth: 31.49 psig @ 3673.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.24

End Date:

2021.08.24

Last Calib.: 2021.08.24

Start Time: 06:20:01

End Time:

12:07:51

Time On Btm: 2021.08.24 @ 07:54:36

Time Off Btm: 2021.08.24 @ 10:43:21

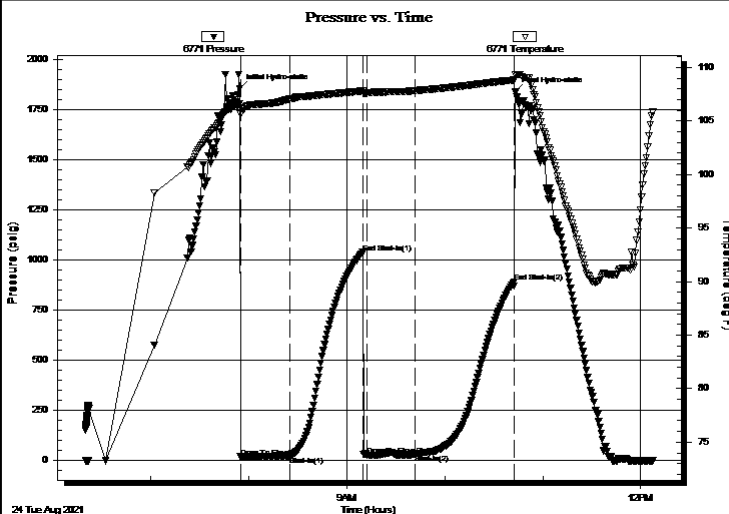
TEST COMMENT: 30 - IF: Blow built to 1 1/2"

45 - IS: No blow back

45 - FF: Blow built to just over 1/4"

45 - FSI: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1856.12	106.60	Initial Hydro-static
1	18.67	105.64	Open To Flow (1)
31	22.07	107.05	Shut-In(1)
75	1037.81	107.80	End Shut-In(1)
78	26.00	107.62	Open To Flow (2)
107	31.49	107.82	Shut-In(2)
168	891.92	108.82	End Shut-In(2)
169	1838.66	109.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
28.00	OCM 70% m, 28% o, 2% g	0.14
2.00	SMCO 92% o, 8% m	0.01
0.00	GIP = 30'	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Knighton Oil Co., Inc.

26//8s/23w Graham KS

1700 N Waterfront PKWY
BLDG 100 STE A
Wichita, KS 67206
ATTN: Roger Martin

Robinson #1

Job Ticket: 67548

DST#: 3

Test Start: 2021.08.24 @ 06:20:00

GENERAL INFORMATION:

Formation: **Lans. "I - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:54:51

Time Test Ended: 12:07:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 3672.00 ft (KB) To 3730.00 ft (KB) (TVD)

Total Depth: 3730.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2208.00 ft (KB)

2200.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 3673.00 ft (KB)

Start Date: 2021.08.24

End Date:

2021.08.24

Start Time: 06:20:01

End Time:

12:07:21

Capacity: 8000.00 psig

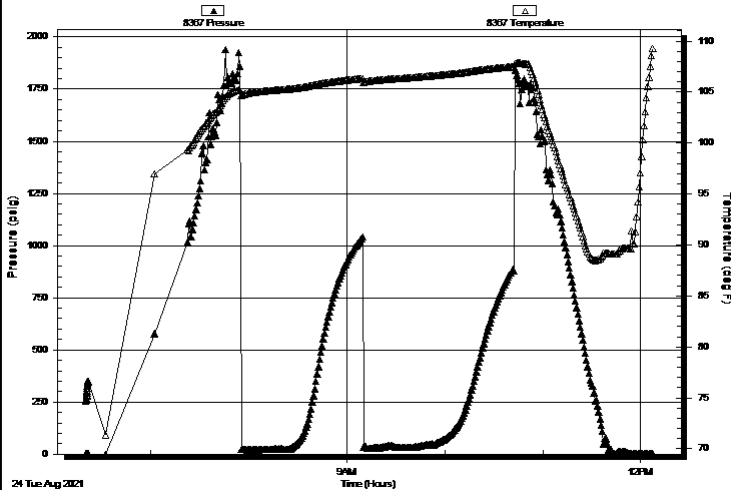
Last Calib.: 2021.08.24

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 1 1/2"
45 - IS: No blow back
45 - FF: Blow built to just over 1/4"
45 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
28.00	OCM 70% m, 28% o, 2% g	0.14
2.00	SMCO 92% o, 8% m	0.01
0.00	GIP = 30'	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

Knighton Oil Co., Inc.

26//8s/23w Graham KS

1700 N Waterfront PKWY
BLDG 100 STE A
Wichita, KS 67206
ATTN: Roger Martin

Robinson #1

Job Ticket: 67548

DST#: 3

Test Start: 2021.08.24 @ 06:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 1200.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 29.4 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
28.00	OCM 70%m, 28%o, 2%g	0.138
2.00	SMCO 92%o, 8%m	0.010
0.00	GIP = 30'	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 32.8 api @ 94 deg F Corrected Gravity = 29.4 api

Serial #: 6771

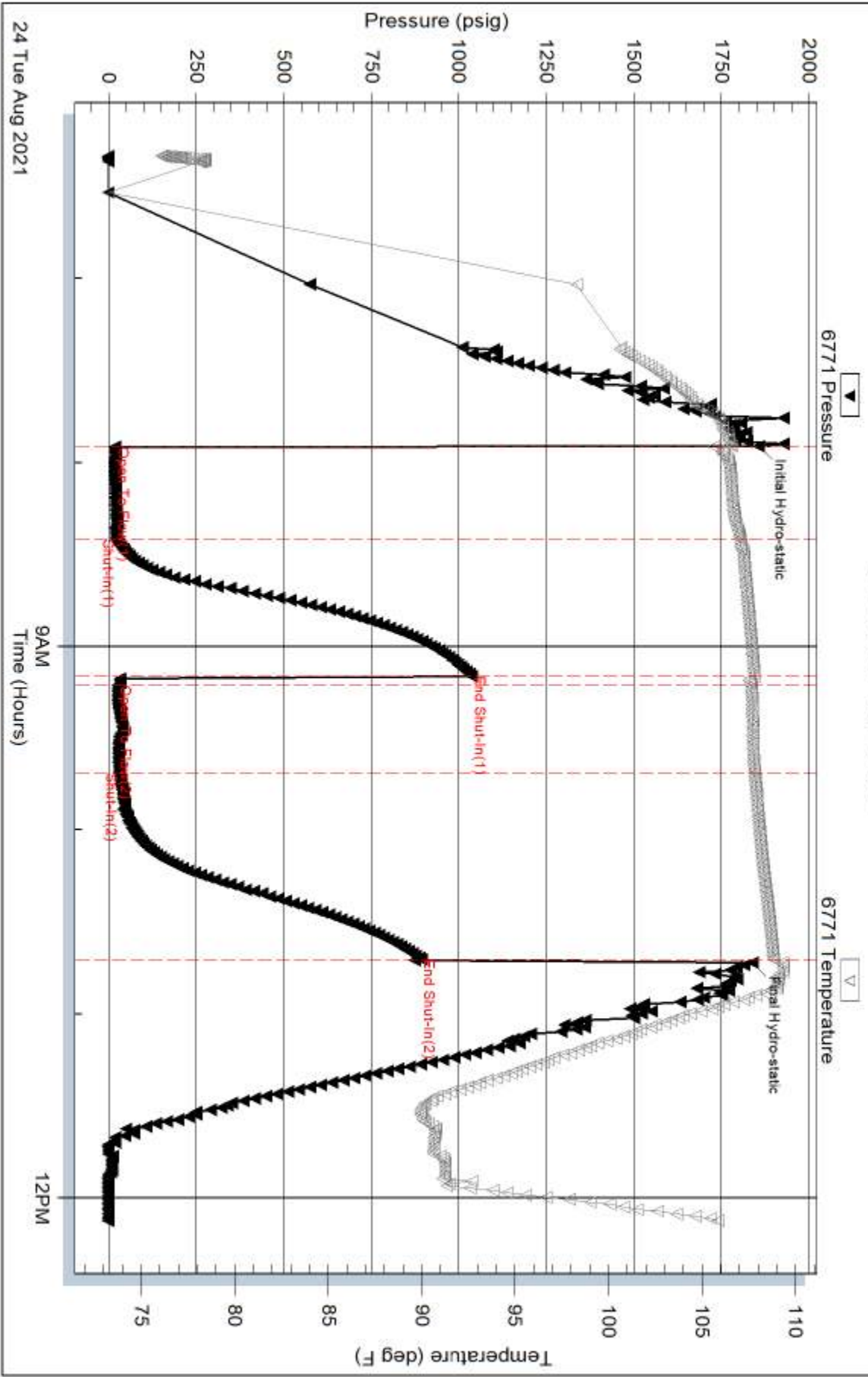
Inside

Knighton Oil Co., Inc.

Robinson #1

DST Test Number: 3

Pressure vs. Time

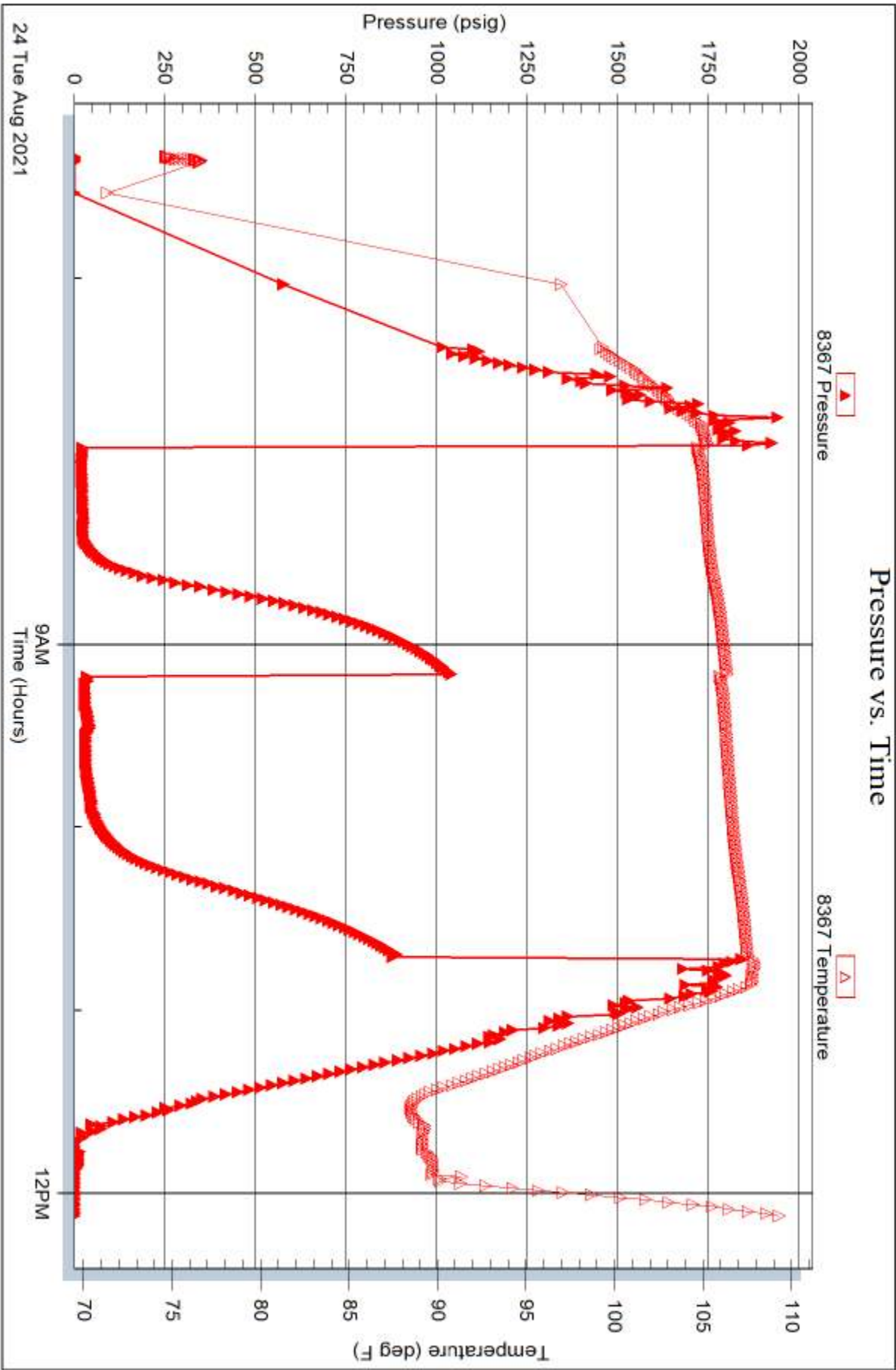


Serial #: 8367

Outside Knighton Oil Co., Inc.

Robinson #1

DST Test Number: 3



**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665

Phone: 785-324-1041 fax: 785-483-1087

Email: cementing@ruraltel.net

Date: 8/18/2021

Invoice # 2371

P.O.#:

Due Date: 9/17/2021

Division: Russell

Invoice

Contact:

Knighton Oil Company

Address/Job Location:1700 N WATERFRONT PKY
BUILDING 100**Reference:**

ROBINSON 1 SEC 26-8-23

Description of Work:

SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 684.02	No				
Common-Class A	120	\$ 1,895.20	Yes				
Calcium Chloride	6	\$ 257.60	Yes				
POZ Mix-Standard	30	\$ 161.00	Yes				
Bulk Truck Matl-Material Service Charge	159	\$ 121.90	No				
Pump Truck Mileage-Job to Nearest Camp	35	\$ 120.75	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	35	\$ 93.92	No				
Premium Gel (Bentonite)	3	\$ 66.70	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,401.09

Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (85.03)

SubTotal for Taxable Items: \$ 2,320.99

SubTotal for Non-Taxable Items: \$ 995.07

Total: \$ 3,316.06

7.50% Graham County Sales Tax

Tax: \$ 174.07

Thank You For Your Business!

Amount Due: \$ 3,490.13

Applied Payments:

Balance Due: \$ 3,490.13

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 2371

Date	8-18-21	Sec.	26	Twp.	8	Range	23	County	Graham	State	KS	On Location		Finish	8:45 PM
Lease								Well No.		Location					
Robinson								1		Hill City Trailer Park 1/25 W & 1/25 N					
Contractor										Owner					
S.T.P.										To Quality Oilwell Cementing, Inc.					
Type Job										You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Surface															
Hole Size								T.D.		Charge To					
12 1/4								230		Knighton Oil					
Csg.								Depth		Street					
8 5/8								224							
Tbg. Size								Depth		City					
										State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
10'										150 @ 100 3' 1/4 2' 1/4					
Meas Line								Displace							
								14 BL							
EQUIPMENT															
Pumptrk 17 No.								Cement		Common					
								Helper		120					
Bulktrk No.								Driver		Poz. Mix					
								Craig		30					
Bulktrk 9 No.								Driver		Gel.					
								David		3					
										Calcium					
										6					
JOB SERVICES & REMARKS															
Remarks:										Hulls					
										Salt					
Rat Hole										Flowseal					
Mouse Hole										Kol-Seal					
Centralizers										Mud CLR 48					
Baskets										CFL-117 or CD110 CAF 38					
DN or Port Collar										Sand					
										Handling					
8 5/8 on bottom. Est. Circulation.										159					
MIX 150 @ 4 Displace.										Mileage					
FLOAT EQUIPMENT															
Cement Circulation										Guide Shoe					
										Centralizer					
										Baskets					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										Pumptrk Charge					
										Surface					
										Mileage					
										35					
Signature										Tax					
										Discount					
										Total Charge					

THANKS