

1366756



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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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				

- Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
- Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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>	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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Form	ACO1 - Well Completion
Operator	K-T Oil Exploration & Leasing Co.
Well Name	SOUTH OF THE BORDER 1
Doc ID	1366756

All Electric Logs Run

Dual Induction
Microresistivity
Dual Comp Porosity
Cement Bond



DRILL STEM TEST REPORT

Prepared For: **K-T Oil Expl & Leasing Co**

1240 Sheridan
Hoxie KS 67740

ATTN: Marc Downing

6-1s-31w Rawlins,KS

South of the Border #1

Start Date: 2017.04.15 @ 22:40:00

End Date: 2017.04.16 @ 05:42:00

Job Ticket #: 64009 DST #: 1

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

Printed: 2017.04.18 @ 11:21:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K-T Oil Expl & Leasing Co

South of the Border #1

1240 Sheridan
Hoxie KS 67740

6-1s-31w Rawlins,KS

ATTN: Marc Downing

Job Ticket: 64009

DST#: 1

Test Start: 2017.04.15 @ 22:40:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:34:30
 Time Test Ended: 05:42:00
 Interval: **3857.00 ft (KB) To 3892.00 ft (KB) (TVD)**
 Total Depth: 3892.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2966.00 ft (KB)
 2958.00 ft (CF)
 KB to GR/CF: 8.00 ft

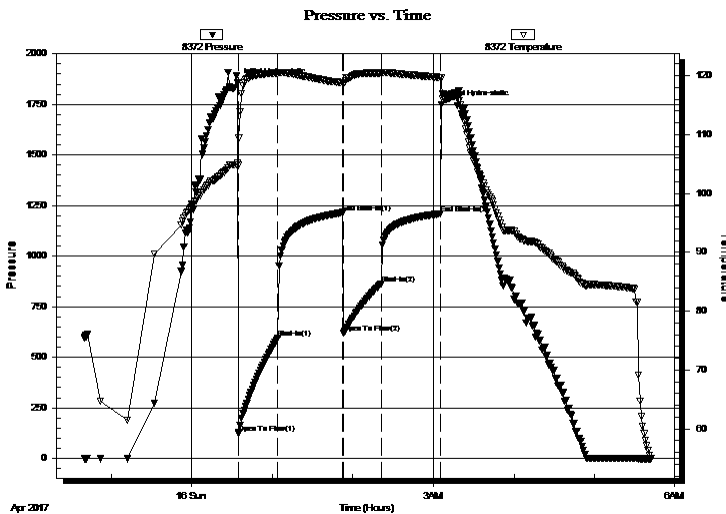
Serial #: 8372

Inside

Press@RunDepth: 862.67 psig @ 3859.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.04.15 End Date: 2017.04.16 Last Calib.: 2017.04.16
 Start Time: 22:40:01 End Time: 05:42:00 Time On Btm: 2017.04.16 @ 00:34:00
 Time Off Btm: 2017.04.16 @ 03:06:00

TEST COMMENT: 30-IFP- BOB in 1 1/2 min.
 45-ISIP- No Blow
 30-FFP- BOB in 2 1/2 min.
 45-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.79	105.14	Initial Hydro-static
1	122.97	104.78	Open To Flow (1)
30	594.90	120.37	Shut-In(1)
79	1215.61	118.77	End Shut-In(1)
79	619.87	118.43	Open To Flow (2)
107	862.67	120.41	Shut-In(2)
152	1210.36	119.65	End Shut-In(2)
152	1747.68	119.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1610.00	Water 100%	20.51
231.00	MCW 40% m 60% w Oil Specks	3.24

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K-T Oil Expl & Leasing Co

South of the Border #1

1240 Sheridan
Hoxie KS 67740

6-1s-31w Rawlins,KS

ATTN: Marc Downing

Job Ticket: 64009

DST#: 1

Test Start: 2017.04.15 @ 22:40:00

Tool Information

Drill Pipe:	Length: 3535.00 ft	Diameter: 3.80 inches	Volume: 49.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 51.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3857.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3837.00	
Shut In Tool	5.00			3842.00	
Hydraulic tool	5.00			3847.00	
Packer	5.00			3852.00	21.00 Bottom Of Top Packer
Packer	5.00			3857.00	
Stubb	1.00			3858.00	
Perforations	1.00			3859.00	
Recorder	0.00	8372	Inside	3859.00	
Recorder	0.00	6668	Outside	3859.00	
Blank Spacing	30.00			3889.00	
Bullnose	3.00			3892.00	35.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K-T Oil Expl & Leasing Co

South of the Border #1

1240 Sheridan
Hoxie KS 67740

6-1s-31w Rawlins,KS

Job Ticket: 64009

DST#: 1

ATTN: Marc Downing

Test Start: 2017.04.15 @ 22:40:00

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:

96000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1610.00	Water 100%	20.506
231.00	MCW 40%m 60%w Oil Specks	3.240

Total Length: 1841.00 ft Total Volume: 23.746 bbl

Num Fluid Samples: 0

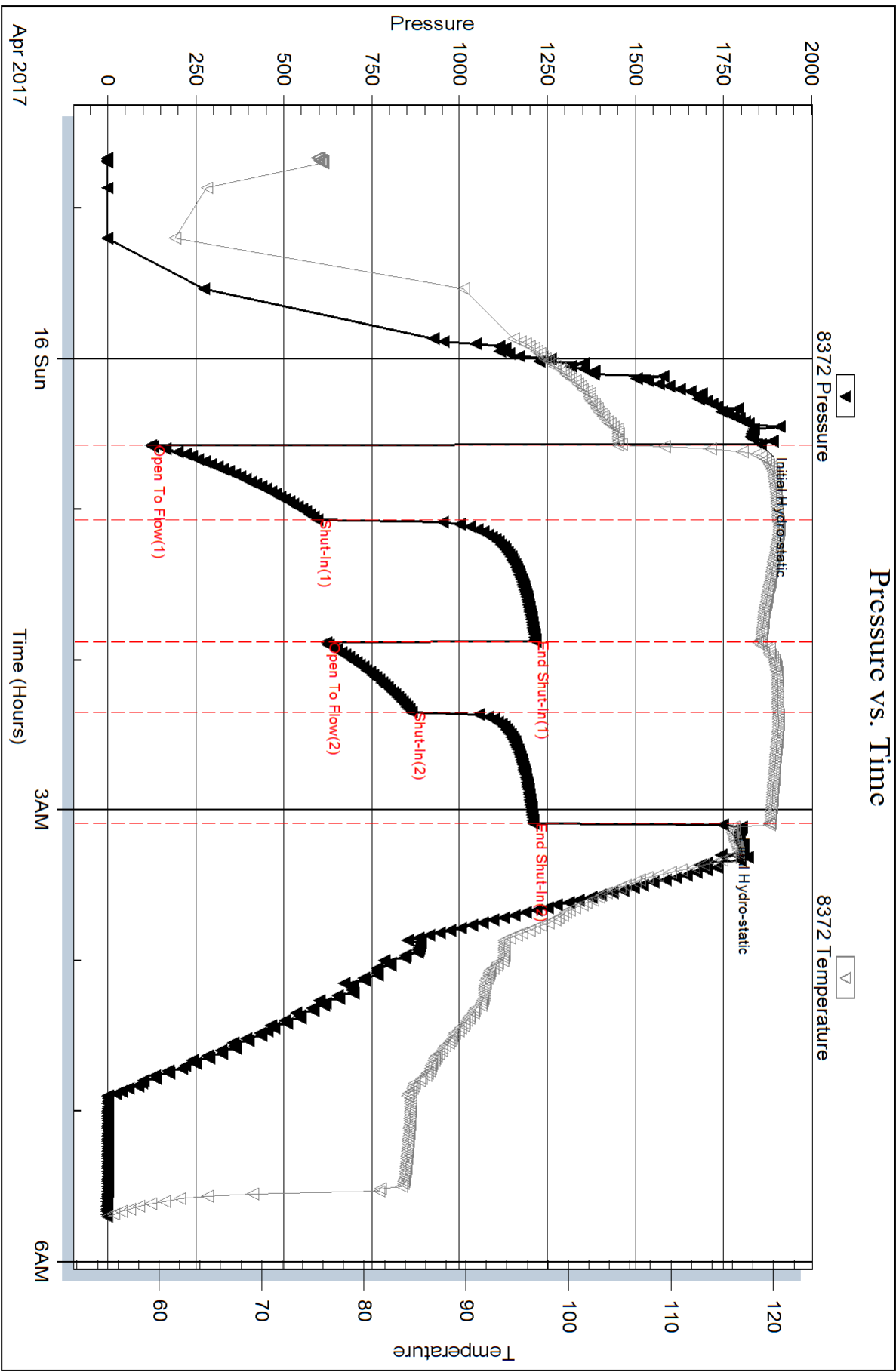
Num Gas Bombs: 0

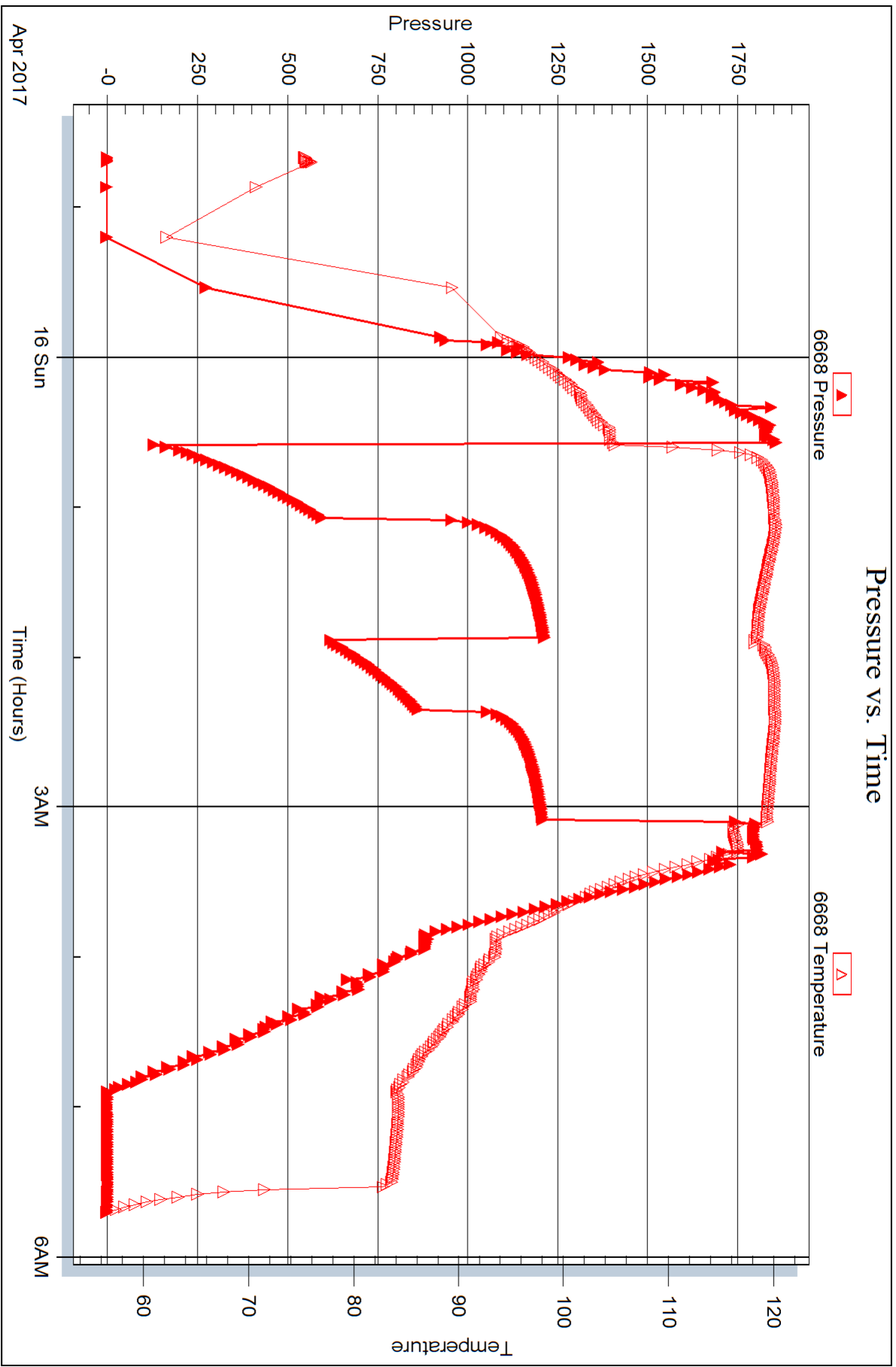
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .105 @ 55







DRILL STEM TEST REPORT

Prepared For: **K-T Oil Expl & Leasing Co**

1240 Sheridan
Hoxie KS 67740

ATTN: Marc Downing

6-1s-31w Rawlins,KS

South of the Border #1

Start Date: 2017.04.16 @ 18:37:00

End Date: 2017.04.17 @ 00:20:00

Job Ticket #: 64010 DST #: 2

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

Printed: 2017.04.18 @ 10:43:51

K-T Oil Expl & Leasing Co
South of the Border #1
6-1s-31w Rawlins,KS
DST # 2
LKC " B "
2017.04.16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K-T Oil Expl & Leasing Co

South of the Border #1

1240 Sheridan
Hoxie KS 67740

6-1s-31w Rawlins,KS

ATTN: Marc Downing

Job Ticket: 64010

DST#: 2

Test Start: 2017.04.16 @ 18:37:00

GENERAL INFORMATION:

Formation: **LKC " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:41:00

Time Test Ended: 00:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3937.00 ft (KB) To 3992.00 ft (KB) (TVD)

Reference Elevations: 2966.00 ft (KB)

Total Depth: 3992.00 ft (KB) (TVD)

2958.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8372 Inside

Press@RunDepth: 28.96 psig @ 3942.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.16

End Date:

2017.04.17

Last Calib.: 2017.04.17

Start Time: 18:37:01

End Time:

00:20:00

Time On Btm: 2017.04.16 @ 20:40:30

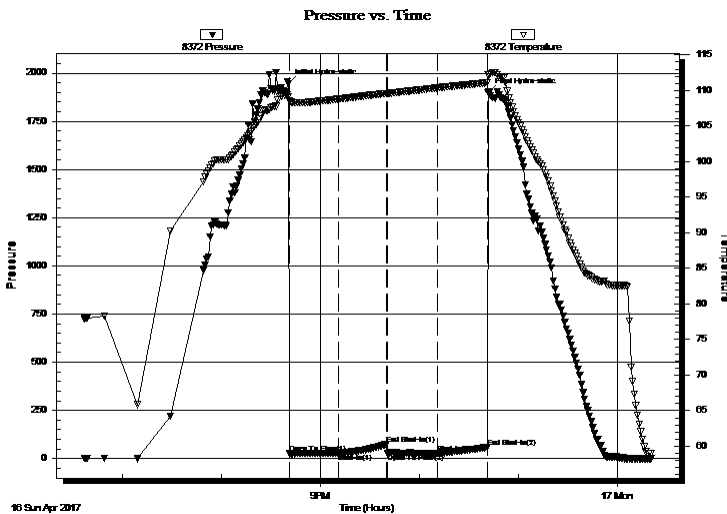
Time Off Btm: 2017.04.16 @ 22:41:30

TEST COMMENT: 30-IFP- 1" Blow in 7 min.

30-ISIP- No Blow

30-FFP- No Blow

30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1945.80	109.14	Initial Hydro-static
1	25.79	108.52	Open To Flow (1)
31	27.09	108.81	Shut-In(1)
60	73.84	109.61	End Shut-In(1)
60	28.29	109.60	Open To Flow (2)
90	28.96	110.37	Shut-In(2)
121	57.20	111.11	End Shut-In(2)
121	1899.81	112.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Oil Speck Mud 1%o 99%m	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K-T Oil Expl & Leasing Co

South of the Border #1

1240 Sheridan
Hoxie KS 67740

6-1s-31w Rawlins,KS

ATTN: Marc Downing

Job Ticket: 64010

DST#: 2

Test Start: 2017.04.16 @ 18:37:00

Tool Information

Drill Pipe:	Length: 3630.00 ft	Diameter: 3.80 inches	Volume: 50.92 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3937.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3917.00	
Shut In Tool	5.00			3922.00	
Hydraulic tool	5.00			3927.00	
Packer	5.00			3932.00	21.00 Bottom Of Top Packer
Packer	5.00			3937.00	
Stubb	1.00			3938.00	
Perforations	3.00			3941.00	
Change Over Sub	1.00			3942.00	
Recorder	0.00	8372	Inside	3942.00	
Recorder	0.00	6668	Outside	3942.00	
Blank Spacing	31.00			3973.00	
Change Over Sub	1.00			3974.00	
Perforations	18.00			3992.00	
Bullnose	3.00			3995.00	58.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K-T Oil Expl & Leasing Co

South of the Border #1

1240 Sheridan
Hoxie KS 67740

6-1s-31w Rawlins,KS

Job Ticket: 64010

DST#: 2

ATTN: Marc Downing

Test Start: 2017.04.16 @ 18:37:00

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: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Oil Speck Mud 1%o 99%m	0.147

Total Length: 20.00 ft Total Volume: 0.147 bbl

Num Fluid Samples: 0

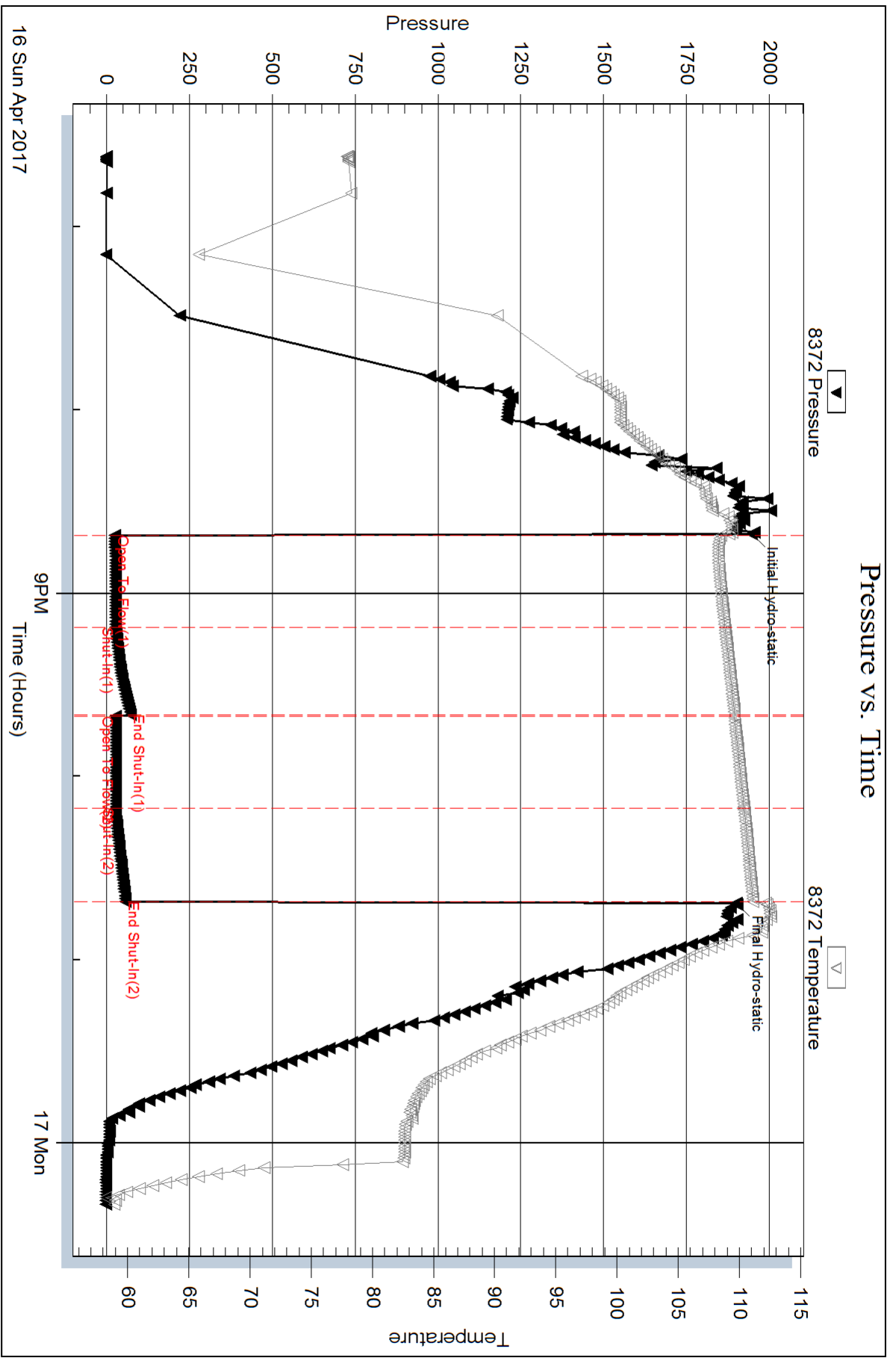
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

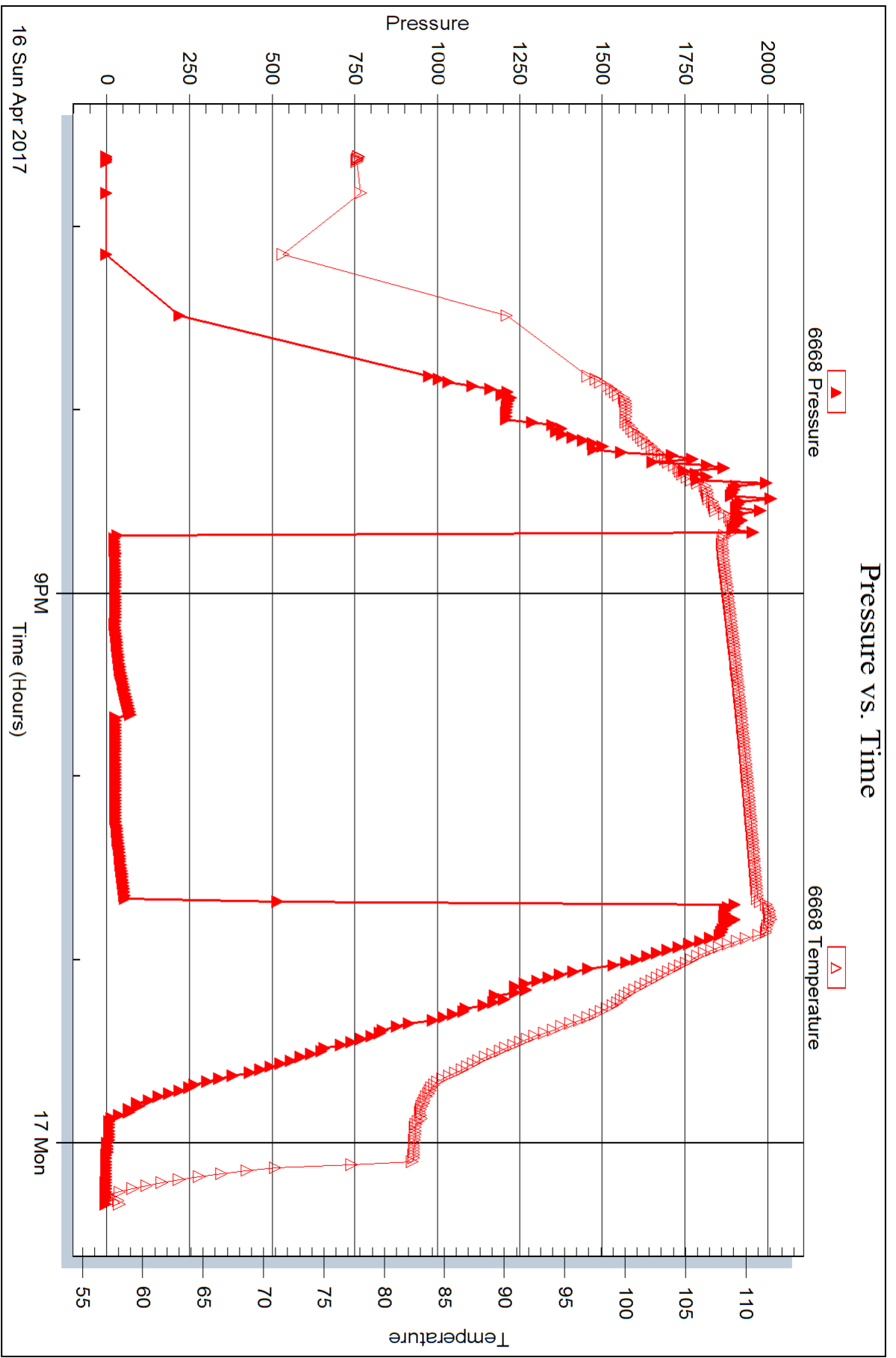


Serial #: 6668

Outside K-T Oil Expl & Leasing Co

6-1s-31w Rawlins, KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64010

Printed: 2017.04.18 @ 10:43:52



DRILL STEM TEST REPORT

Prepared For: **K-T Oil Expl & Leasing Co**

1240 Sheridan
Hoxie KS 67740

ATTN: Marc Downing

6-1s-31w Rawlins,KS

South of the Border #1

Start Date: 2017.04.17 @ 17:21:00

End Date: 2017.04.18 @ 00:50:00

Job Ticket #: 64011 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.04.18 @ 10:43:26

K-T Oil Expl & Leasing Co

South of the Border #1

6-1s-31w Rawlins,KS

DST # 3

LKC " E & F "

2017.04.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K-T Oil Expl & Leasing Co

1240 Sheridan
Hoxie KS 67740

ATTN: Marc Downing

South of the Border #1

6-1s-31w Rawlins,KS

Job Ticket: 64011

DST#: 3

Test Start: 2017.04.17 @ 17:21:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:21:00

Time Test Ended: 00:50:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 4077.00 ft (KB) To 4165.00 ft (KB) (TVD)

Total Depth: 4165.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2966.00 ft (KB)

2958.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8372

Inside

Press@RunDepth: 183.18 psig @ 4083.00 ft (KB)

Start Date: 2017.04.17

End Date:

2017.04.18

Start Time: 17:21:01

End Time:

00:50:00

Capacity: 8000.00 psig

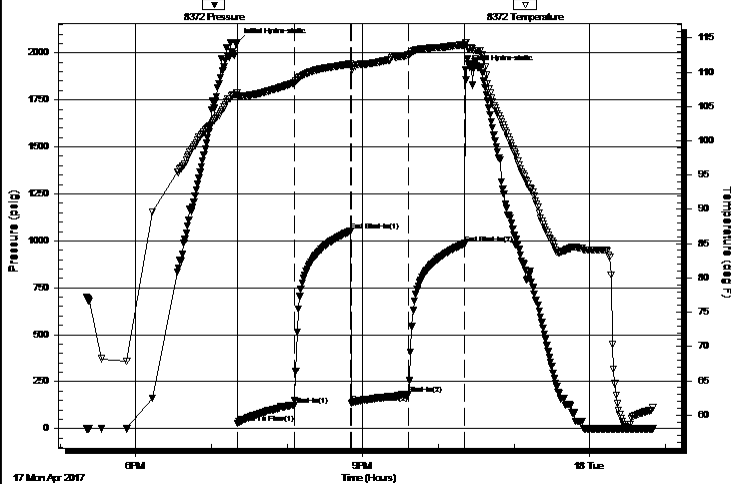
Last Calib.: 2017.04.18

Time On Btm: 2017.04.17 @ 19:20:30

Time Off Btm: 2017.04.17 @ 22:21:30

TEST COMMENT: 45-IFP- BOB in 17 min.
45-ISIP- Surface Blow Died in 15 min.
45-FFP- BOB in 30 min.
45-FSIP- Surface Blow Died in 12 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2056.06	107.06	Initial Hydro-static
1	27.50	106.56	Open To Flow (1)
45	125.90	108.44	Shut-In(1)
90	1050.46	111.19	End Shut-In(1)
91	133.67	110.69	Open To Flow (2)
136	183.18	112.50	Shut-In(2)
181	984.80	113.99	End Shut-In(2)
181	1910.81	114.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GOWCM 5%g 5%o 25%w 65%m	1.37
63.00	OCM 30%o 70%m	0.46
122.00	CO 100%	1.30
0.00	189 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K-T Oil Expl & Leasing Co

South of the Border #1

1240 Sheridan
Hoxie KS 67740

6-1s-31w Rawlins,KS

ATTN: Marc Downing

Job Ticket: 64011

DST#: 3

Test Start: 2017.04.17 @ 17:21:00

Tool Information

Drill Pipe:	Length: 3757.00 ft	Diameter: 3.80 inches	Volume: 52.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 54.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4077.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4057.00	
Shut In Tool	5.00			4062.00	
Hydraulic tool	5.00			4067.00	
Packer	5.00			4072.00	21.00 Bottom Of Top Packer
Packer	5.00			4077.00	
Stubb	1.00			4078.00	
Perforations	4.00			4082.00	
Change Over Sub	1.00			4083.00	
Recorder	0.00	8372	Inside	4083.00	
Recorder	0.00	6668	Outside	4083.00	
Blank Spacing	63.00			4146.00	
Change Over Sub	1.00			4147.00	
Perforations	15.00			4162.00	
Bullnose	3.00			4165.00	88.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K-T Oil Expl & Leasing Co

South of the Border #1

1240 Sheridan
Hoxie KS 67740

6-1s-31w Rawlins,KS

Job Ticket: 64011

DST#: 3

ATTN: Marc Downing

Test Start: 2017.04.17 @ 17:21:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	GOWCM 5%g 5%o 25%w 65%m	1.366
63.00	OCM 30%o 70%m	0.463
122.00	CO 100%	1.297
0.00	189 GIP	0.000

Total Length: 371.00 ft

Total Volume: 3.126 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

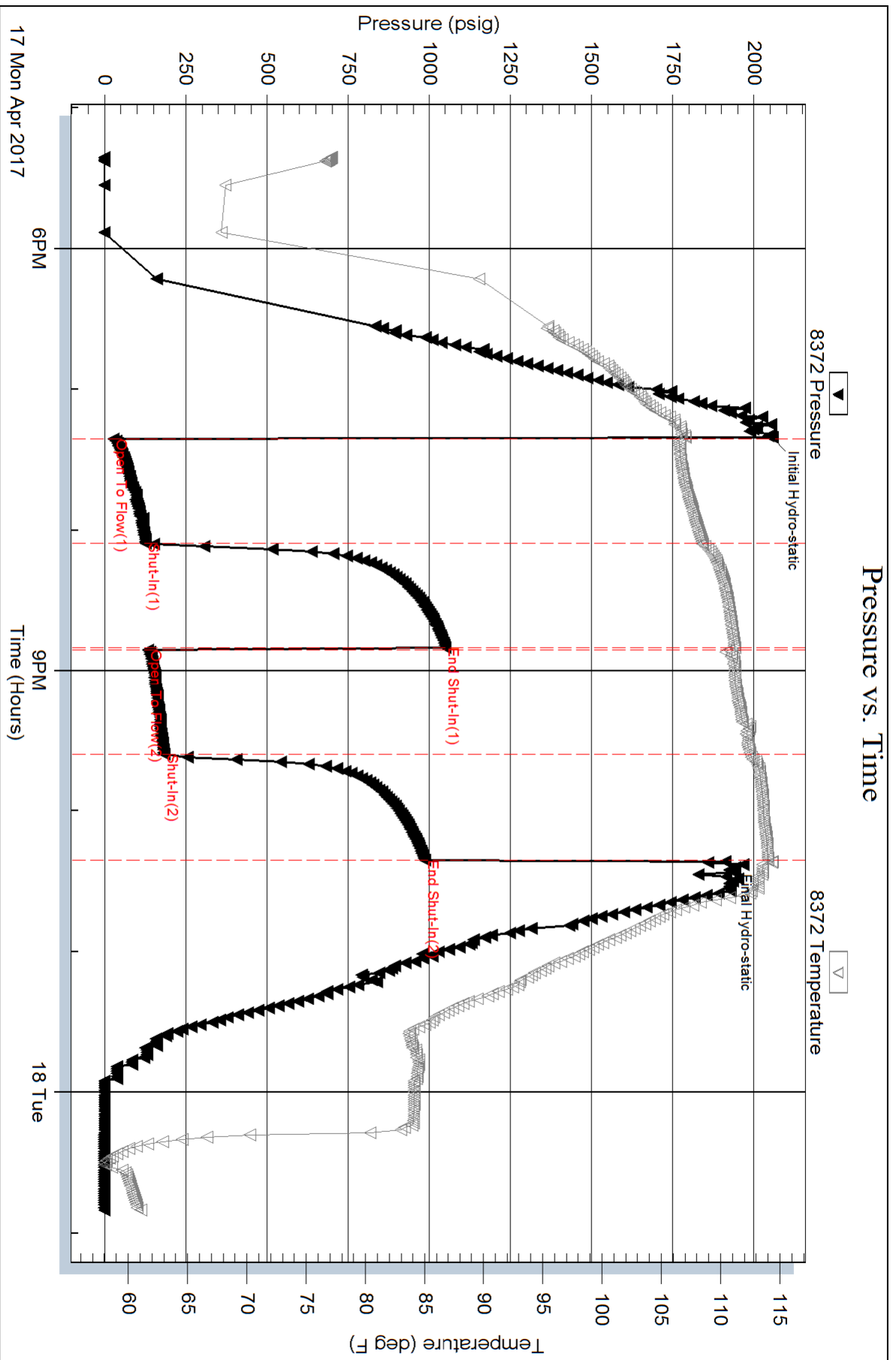
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .300 @ 57

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64009**

Well Name & No. South of the Border #1 Test No. 1 Date 4-15-17
 Company K-T Oil Expl. & Leasing Co. Elevation 2966 KB 2958 GL
 Address 1240 Sheridan Hoxie KS 67740
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 6 Twp. 15^N Rge. 31^W Co. RAWLINS State KS

Interval Tested 3857-3892 Zone Tested Oread
 Anchor Length 35 Drill Pipe Run 2535 Mud Wt. 8.8
 Top Packer Depth 3852 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3857 Wt. Pipe Run 311 WL 7.6
 Total Depth 3892 Chlorides 1000 ppm System LCM 3

Blow Description IFP- BOB in 1 1/2 min
ISIP- No Blow
FFP- BOB in 2 1/2 min
FSIP- No Blow

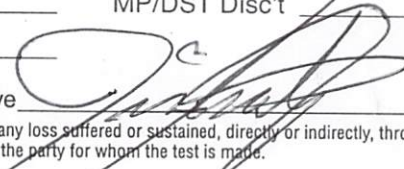
Rec	Feet of	%gas	%oil	%water	%mud
<u>1610</u>	<u>Water</u>		<u>100</u>		
<u>231</u>	<u>mcw Oil/Specs</u>		<u>60</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1841 BHT 119 Gravity _____ API RW +105 @ 55° F Chlorides 96000 ppm

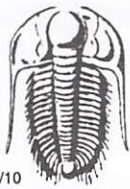
(A) Initial Hydrostatic 1855 Test 1050 T-On Location 18:35
 (B) First Initial Flow 122 Jars _____ T-Started 22:40
 (C) First Final Flow 594 Safety Joint _____ T-Open 00:35
 (D) Initial Shut-In 1215 Circ Sub _____ T-Pulled 03:05
 (E) Second Initial Flow 619 Hourly Standby _____ T-Out 05:42
 (F) Second Final Flow 862 Mileage 42.75 57 RT Comments _____
 (G) Final Shut-In 1210 Sampler _____
 (H) Final Hydrostatic 1747 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

Sub Total 1092.75 MP/DST Disc't _____

Approved By _____ Our Representative 

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64010**

Well Name & No. South of the Border #1 Test No. 2 Date 4-16-17
 Company K-T Oil Exploration & Leasing Co. Elevation 2966 KB 2958 GL
 Address 1240 Sheridan Floxie KS 67740
 Co. Rep / Geo. MARC DOWNING Rig Discovery #1
 Location: Sec. 6 Twp. 15 Rge. 31^W Co. RAWLINS State KS

Interval Tested 3937-3992 Zone Tested LKC "B"
 Anchor Length 55 Drill Pipe Run 3630 Mud Wt. 9.2
 Top Packer Depth 3932 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3937 Wt. Pipe Run 311 WL 8
 Total Depth 3992 Chlorides 2000 ppm System LCM 2

Blow Description IFP - Line Blow in 7min.
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil speck mud</u>	<u>1</u>		<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1945 Test 1050 T-On Location 18:36
 (B) First Initial Flow 25 Jars _____ T-Started 18:37
 (C) First Final Flow 27 Safety Joint _____ T-Open 20:41
 (D) Initial Shut-In 73 Circ Sub _____ T-Pulled 22:41
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 00:20
 (F) Second Final Flow 28 Mileage 42.75 Comments _____
 (G) Final Shut-In 57 Sampler _____
 (H) Final Hydrostatic 1899 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Accessibility _____
 Sub Total 1092.75 Total 1092.75 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64011**

Well Name & No. South of the Border Test No. 3 Date 4-17-17
 Company K-T Oil Exploration & Leasing Co. Elevation 2966 KB 2958 GL
 Address 1240 Sheridan Hoxie KS 67740
 Co. Rep / Geo. Marc Rowing Rig Discovery 1
 Location: Sec. 6 Twp. 15 Rge. 31W Co. Rawlins State KS

Interval Tested 4077 - 4165 Zone Tested LKC "EQF"
 Anchor Length 88 Drill Pipe Run 3757 Mud Wt. 9.4
 Top Packer Depth 4072 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4077 Wt. Pipe Run 311 WL 8
 Total Depth 4165 Chlorides 2000 ppm System LCM 2

Blow Description FFP - BOB in 17 min
ISIP - Surface Blow Bled in 15 min.
FFP - BOB in 30 min.
FSIP - Surface Blow Bled in 12 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>40 WCM</u>	<u>5</u>	<u>5</u>	<u>25</u>	<u>65</u>
<u>63</u>	<u>0CM</u>		<u>30</u>		<u>70</u>
<u>122</u>	<u>C0</u>		<u>100</u>		

Rec Total 371 BHT 114 Gravity 32 API RW 300 @ 57 ° F Chlorides 28000 ppm

(A) Initial Hydrostatic 2056 Test 1150 T-On Location 17:20
 (B) First Initial Flow 27 Jars _____ T-Started 17:21
 (C) First Final Flow 125 Safety Joint _____ T-Open 19:21
 (D) Initial Shut-In 1050 Circ Sub _____ T-Pulled 22:21
 (E) Second Initial Flow 133 Hourly Standby _____ T-Out 00:50
 (F) Second Final Flow 183 Mileage 42.75 Comments _____
 (G) Final Shut-In 984 Sampler _____
 (H) Final Hydrostatic 1910 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1192.75
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1192.75

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
July 2014

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 35027

Name: K-T Oil Exploration & Leasing Co.

Address 1: 1240 Sheridan

Address 2: _____

City: Hoxie State: KS Zip: 67740 + _____

Contact Person: Clint Follis

Phone: (785) 675-8478

CONTRACTOR: License # 31548

Name: Discovery Drilling Co., Inc.

Wellsite Geologist: Marc Downing

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer

- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

<u>4/11/2017</u>	<u>4/18/2017</u>	<u>4/19/2017</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 153-21,185-00-00

Spot Description: _____

NE NW SE NE Sec. 6 Twp. 1 S. R. 31 East West

1,455 Feet from North / South Line of Section

755 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: Rawlins

Lease Name: South of the Border Well #: 1

Field Name: Leitner

Producing Formation: LKC

Elevation: Ground: 2950 Kelly Bushing: 2958

Total Vertical Depth: 4229 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 347.99 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 2757 (Did Not Open-Failed) 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: 800 ppm Fluid volume: 400 bbls

Dewatering method used: Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

INSTRUCTIONS: The original form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. If confidentiality is requested and approved, side two of this form will be held confidential for a period of 2 years. Rules 82-3-130, 82-3-106 and 82-3-107 apply. Drill Stem Test, Cement Tickets and Geological Well Report must be attached.

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.

Signature: _____

Title: _____ Date: _____

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: K-T Oil Exploration & Leasing Co. Lease Name: South of the Border Well #: 1
 Sec. 6 Twp. 1 S. R. 31 East West County: Rawlins

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample
Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name Top Datum
Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
List All E. Logs Run:	

CASING RECORD <input checked="" 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
Surface Pipe	12 1/4	8 5/8	23	347.99	80/20Poz	250	2%Gel&3%CC
Production String	7 7/8	5 1/2	15.5	4225.34	Common	200	10% Salt&5%Gilsonite
			DV Tool @	2757			(DV Tool Failed to Open)

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
---	--	--



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: K-T Oil Exploration & Leasing Co. Lic# 35027 Contractor: Discovery Drilling Co., Inc. LIC#31548
1240 Sheridan PO Box 763
Hoxie, KS 67740 Hays, KS 67601

Lease: South of the Border # 1 Location: 1455 FNL - 755 FEL
NE/NW/SE/NE
Section 6/ 1S/ 31W
Rawlins County, KS

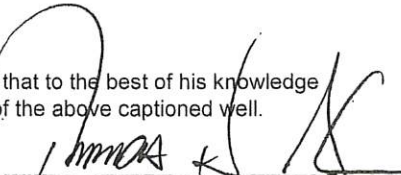
Loggers Total Depth: 4228' API#15- 153-21,185-00-00
Rotary Total Depth: 4229' Elevation: 2950 GL - 2958 KB
Commenced: 4/11/2017 Completed: 4/19/2017
Casing: 8 5/8" @ 347.99'W/250sks Status: Oil Well
5 1/2" @ 4225.34'W/200sks
(DV Tool @ 2757')(Failed)

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>2825'</u>
Dakota Sand	<u>1394'</u>	Shale & Lime	<u>3091'</u>
Shale	<u>1611'</u>	Shale	<u>3215'</u>
Cedar Hill Sand	<u>2031'</u>	Shale & Lime	<u>3397'</u>
Red Bed Shale	<u>2197'</u>	Lime & Shale	<u>3768'</u>
Anhydrite	<u>2766'</u>	RTD	<u>4229'</u>
Base Anhydrite	<u>2825'</u>		

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)


Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

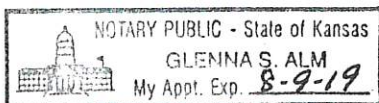

Thomas H. Alm

Subscribed and sworn to before me on 4-24-17

My Commission expires: 8-9-19

(Place stamp or seal below)


Notary Public



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form CDP-4
July 2014
Form must be Typed

CLOSURE OF SURFACE PIT

Operator Name: K-T Oil Exploration & Leasing Co.	License Number: 35027
Operator Address: 1240 Sheridan Hoxie, KS 67740	
Contact Person: Clint Follis	Phone Number: (785) 675 - 8478
Permit Number (API No. if applicable): 153-21,185-00-00	Lease Name & Well No.: South of the Border # 1
Type of Pit: <input type="checkbox"/> Emergency Pit <input type="checkbox"/> Burn Pit <input type="checkbox"/> Settling Pit <input checked="" type="checkbox"/> Drilling Pit <input type="checkbox"/> Workover Pit <input type="checkbox"/> Haul-Off Pit	Pit Location (QQQQ): NE - NW - SE - NE Sec. 6 Twp. 1S R. 31W <input type="checkbox"/> East <input checked="" type="checkbox"/> West 1455 Feet from <input checked="" type="checkbox"/> North / <input type="checkbox"/> South Line of Section 755 Feet from <input checked="" type="checkbox"/> East / <input type="checkbox"/> West Line of Section Rawlins County
Date of closure: _____ Was an artificial liner used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, how were the sides and bottom sealed to prevent downward migration of the pit contents? Sealed with clay soil, native and fresh mud. Abandonment procedure of pit: Let liquid contents evaporate, let cuttings dry and backfill.	
The undersigned hereby certifies that he / she is _____ for _____ (Co.), a duly authorized agent, that all information shown hereon is true and correct to the best of his /her knowledge and belief. <div style="text-align: right; margin-right: 200px;"> _____ Signature of Applicant or Agent </div> Subscribed and sworn to me on this _____ day of _____, _____ <div style="text-align: right; margin-right: 200px;"> _____ Notary Public </div> My Commission Expires: _____	

GLOBAL OIL FIELD SERVICES, LLC

2866

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT
Russell

DATE <u>4-18-17</u>	SEC. <u>6</u>	TWP. <u>1</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>9:30 AM</u>	JOB START	JOB FINISH
South of the border LEASE				WELL # <u>1</u>	LOCATION <u>Heardwin 6 N 3 W</u>	COUNTY <u>Rawlins</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR <u>Discovery & Drilling</u>	OWNER
TYPE OF JOB <u>2 Stage Prod</u>	CEMENT
HOLE SIZE <u>7 1/2"</u>	AMOUNT ORDERED <u>500 Gals Flysch</u>
CASING SIZE <u>5 1/2"</u>	<u>200 gal for 1070 Salt 5" Silicate 2% Gel</u>
TUBING SIZE	<u>500 gal Lite 15 gal Gal</u>
DRILL PIPE	COMMON @
TOOL	POZMIX @
PRES. MAX	GEL @
MEAS. LINE	CHLORIDE @
CEMENT LEFT IN CSG. <u>43</u>	ASC @
PERFS	
DISPLACEMENT <u>99 1/2 bbls</u>	
EQUIPMENT	
PUMP TRUCK #	CEMENTER <u>Brad - Bill</u>
BULK TRUCK #	HELPER <u>Jason</u>
BULK TRUCK #	DRIVER <u>Chris</u>
BULK TRUCK #	DRIVER <u>Tom</u>

D.V. Tool would not open
REMARKS:

Pipe set @ 42 24 Insert 481.94
Pump 500 gals Flysch, cement up 200H cement
Pump plug w/ 33 bbls water 605 bbls mud
Lamp plug c float did not
open @ PST
Cement / 500H Lite pump plug w/ 665 bbls
Lamp plug c Cement did not circ.
300K H
150H mL
CHARGE TO: R-T Oil Field Exploration of Leasing Co
STREET 1240 Sheridan
CITY Hattie STATE KS ZIP 67740

HANDLING @	
MILEAGE @	
TOTAL	

SERVICE	
DEPTH OF JOB	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE @	
MILEAGE @	
MANIFOLD @	
TOTAL	

PLUG & FLOAT EQUIPMENT	
<u>Cement Retainers 7</u>	@
<u>BA Sketc</u>	@
<u>D.V. Tool 1</u>	@
<u>Float Shoe 1</u>	@
TOTAL	

Global Oil Field 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 _____
SIGNATURE [Signature]

SALES TAX (if Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

2970

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT:
Russell, KS

DATE <u>6-5-17</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
SOUTH OF THE LEASE BORDER						COUNTY <u>RAWLINS</u>	STATE <u>KS</u>
WELL # <u>1</u>		LOCATION <u>SHERIDAN, NE</u>					
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Drilling Etc. OWNER _____

TYPE OF JOB 1"

HOLE SIZE _____ I.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE 1" DEPTH 700'

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRE. MAX. _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS _____

DISPLACEMENT _____

CEMENT AMOUNT ORDERED 90 SX 60/40 POZ. 6% GEC

COMMON _____ @ _____

POZ MIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Baco

417 HELPER Copy

BULK TRUCK

473 DRIVER Kris

BULK TRUCK

_____ DRIVER _____

REMARKS:
Run 1" to 700', Pump water to charge tubing, mix 90SX, displace 1/4 BBL H2O, wash up, pull tubing, wash out tubing

CHARGE TO: KT OIL

STREET 1240 Sheridan

CITY Hoxie STATE KS ZIP 67740

Global Oil Field 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 _____

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

2918

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT:

South of the Border 1 #

Russell, KS

DATE <i>4-11-12</i>	SEC. <i>6</i>	TWP. <i>1</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>12 AM</i>
LEASE <i>SOUTH OF THE BORDER</i>			WELL #. <i>1</i>	LOCATION <i>Hickory South of the Border</i>	COUNTY <i>RAWLINS</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR *Discovery Drilling Rig #1*

TYPE OF JOB *SURFACE*

HOLE SIZE *12 1/4* T.D.

CASING SIZE *8 5/8* DEPTH *348'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *20'*

PERFS

DISPLACEMENT *20.5 BBL*

EQUIPMENT

PUMP TRUCK CEMENTER *Brian*

417 HELPER *Wesley*

BULK TRUCK

DRIVER *Tam*

BULK TRUCK

DRIVER

OWNER

CEMENT

AMOUNT ORDERED *250 SX COM*

3% CC 2% GFC

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

*Run in 8 JTS 8 5/8" casing w/ 10' landing
vt. circulate mud, hook up cement, mix
250 SX release plug, wash up and
displace casing leaving 20' in the hole,
cement did circulate*

CHARGE TO: *KT Oil Exploration*

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL

Global Oil Field 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

SIGNATURE

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

Marc A. Downing Consulting Petroleum Geologist	Geologic Report Drilling Time and Sample Log
---	---

Operator K-T Exploration & Leasing Co.		Elevation
		KB 2959
Lease South of the Border	No. 1	DF 2957
		GL 2951

API # 15-153-21185-0000	Casing Record
--------------------------------	---------------

Field Wildcat	Surface 8 5/8" @ 346'
----------------------	------------------------------

Location 1455' FNL & 755' FEL	Production 5 1/2" @ 4228'
--	----------------------------------

Electrical Surveys		
CNDL, DIL, MEL		
Sec. 6	Twp. 1s	Rge. 31w
County Rawlins	State Kansas	

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	2766	2765	+194	+2
Base Anhydrite	NA	2803	+156	-1
Topeka	3733	3730	-771	-24
Oread	3873	3869	-910	-21
Heebner	3892	3889	-930	-25
LKC	3927	3923	-964	-28
BKC	4181	4178	-1219	-31
Total Depth	4229	4228	-1269	

Reference Well For Structural Comparison **Murfin Drilling Co.**
Huss Family Unit #1-31 2040' FSL & 100' FEL Sec. 31-1n-31w (Nebraska)

Drilling Contractor	Duke Drilling, Rig #1		
Commenced	4-11-17	Completed	4-18-17
Samples Saved From	3700	To	RTD
Drilling Time Kept From	3600	To	RTD
Samples Examined From	3700	To	RTD
Geological Supervision From	3700	To	RTD

Summary and Recommendations

The "South of the Border #1" ran structurally low to the nearest production approximately 1 mile northwest. However, due to good sample shows, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion.

Recommended Perforations:

LKC "F": 4164-68
LKC "E": 4116-18

Respectfully Submitted,

Marc A. Downing

3700

Topoka
3733(-774)

LS: Tom- wht, fu-nd
X₁, P₁ + dms.
All NS.

50

Sh: brn
LS: Wht, fu, x₁, v milky
& barren.

Sh: red, arg in part,
washes red.

Ns.

Sh: red



LS: white, fr-mid xln
mostly prs + chrs
Scat chlkly or.

Sh: drk gy - blk

LS: wht, md xln, scat oolt
Frg. Foss. 3d vng or w/ Fr
gd scat 3d SFA SHly hvy.
Scat chlkly or, Fr-3d ed. FO
on cap.

Sh: Black Carb

Sh: brn - red, some
SHly silty. Scat chrs
wht-tan LS.

Vis: 58 Wt: 88

DST #1

3857 - 3892

30-45 - 30-45

I.F.: 808 1 1/2 min

F.F.: 808 2 1/2 min

I.F.P.: 122-594

F.F.P.: 419-862

S.I.P.: 1215-1210

H.P.: 1855-1747

Rec:

231' mw w/oil spgs
60% w

1610' w

BHT: 119° Cular: 96K

CFS 50

Oread
3873(-914)

HEEBNER CFSO
3892(-933)

3900

572 (C-468)

prk, mostly v drms Seat
Subx/n-chlky rx, All NS.

Sh: red w/ brn, arg
in prt. Fr amt wht
dms L5, pass earg.

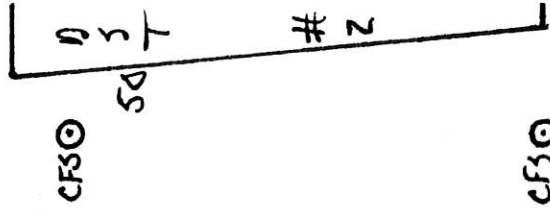
L5: wht fur mid xln,
seat swil pass. fr prk
w/ seat sml vngs. fr
seat w/ fr. gel SFO, SHG
hvy. It dd.

Sh: brn-red

Sh: red-brn, arg,
washes red.

L5: wht, fur v fur xlay
See in prt. Chlky in
Top, Trng prk + drms
All NS.

DST # 2
3937 = 3992
30-30 - 30-30
I.f. - 1"
F.f. - Dead
I.F.P: 25-27
F.F.P: 28-28
S.I.P: 73-57
HP: 1945 - 1899
Rec:
20' socm 11.0
BHT: 112°



CF50

SD

2

CF50

4000

CF50

Sh: brn

LS: wht, fn xln, sub
xln - chalky, Tng p/s
+ chrs, All NS.

Sh: lt gr. v gummy.

Sh: Tng brn-red.

LS: wht, fn-med xln, foss
in part. fr. pp. ul 5ml vngs,
shly tite. fr. sat str ul fr.
sfo, lt-fr ad.

Sh: brn ul red. Tng
red + org, washes
red.

LS: wht, fn-med xln. Seat
5ml vngs ul lt brn str
+ spotted sfo when broken.
mostln barren vfat. No Ad.

Vis: 56 Lat: 9.4

DST #3

4877 - 4145

45-45-45-45

I.F. - 000 17 min/Surf 200

F.F. - 000 30 min/Surf 200

IFP: 27-125

FFP: 133-193

STP: 1050-984

HP: 2054-1910

Rec:

189' GIP

122' CO

63' ocm 30%o

186' GOWEM 5%g, 5%o,
25%w

ØHT: 114° GF32

Chlor: 20K

CF50
30'

4100

D
3

3

50

212 (1-768)

prx, mostly v. chng. Seat
Subxln-chlky ex. All NS.

Sh: red w/ brn, arg
in prt. Fr amt wht
dms L5, pass earg.

L5: wht fr-mid xln,
seat smil fass. Fr prx
w/ seat smil vngs. fr
seat w/ fr. gd sfo, sltly
hvy. 14 dd.

Sh: brn-red

Sh: red-brn, arg,
washes red.

L5: wht, fr-vfr xln,
sac in prt. Chlky in
Top, Trng prx d chng
All NS.

CF50

SD

11

5

7

#

2

CF50

4000

CF50

DST # 2

3937 - 3992

30-30 - 30-30

I.f. - 1"

F.f. - Dead

I.F.P: 25-27

F.F.P: 28-28

S.I.P: 73-57

H.P: 1945 - 1899

Rec:

20' socm 11.0

BHT: 112°

Sh: brn

Ls: wht, fm xln, sub
xln - chalky, Tng p/s
+ chrs, All ns.

Sh: lt gr. v gummy.

Sh: Tng brn-red.

Ls: wht, fm-med xln, foss
in part. fr ppx w/ sm l vngs,
shly tite. fr sat str w/ fr.
sfo, lt-fr ad.

Sh: brn w/ red. Tng
red + org, washes
red.

Ls: wht, fm-med xln. Seat
sm l vngs, w/ lt brn str
+ ~~spotted~~ sfo when broken.
mostl barren vfeat. No ad.

Vis: 56 Lt: 9.4

DST #3

4677 - 4145

45-45-45-45

I.F. - 808 17 min/5urf 508

F.F. - 808 30 min/5urf 508

I.F.P: 27-125

FFP: 133-193

SIP: 1050-984

HP: 2054-1910

Rec:

189' GIP

122' CO

63' ocm 30%o

186' Gowem 5%g, 5%o,
25%w

BHT: 114° GF=32

Chlor: 26K

CF50
30'

4100

D
3

3

50

4181(-1222)

Sh: brn w/ 14 g/g

Sh: red-brn, org

LS: Tem, obs, w/d
xlm

Sh: 14 g/g w/ brn

del. del.

4200

-RTD: 4229(-1206)