



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1208288
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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 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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1208288

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			
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)*

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Alvin Urban Trust 1-9
Doc ID	1208288

Tops

Name	Top	Datum
Top Anhydrite	1084'	+882
Base Anhydrite	1126'	+840
Topeka	2980'	-1018
Heebner	3213'	-1247
Toronto	3232'	-1266
LKC	3261'	-1295
BKC	3486'	-1520
Arbuckle	3550'	-1584

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 119

Date	5-6-14	Sec.	9	Twp.	16	Range	17	County	RUSH	State	KANSAS	On Location	7:00AM	Finish	9:00PM
Location								LIEBENTHAL KS. SE 1/4 IN 1/2 E 1/4 N							

Lease	ALVIN URBAN TRUST	Well No.	1-9	Owner	To Quality Oilwell Cementing, Inc.
Contractor	DISCOVERY DRILL	Rig #	3 "Galen"	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job	Long Surface	Charge To	Downing-Nelson Oil Co. Inc.		
Hole Size	12 1/4	T.D.	1094'	Street	
Csg.	New 23# 8 5/8	Depth	1093'	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	425 sx Com
Cement Left in Csg.		Shoe Joint	28.02		
Meas Line		Displace	67.82 BBL	2% Gel	3% CC

EQUIPMENT				Common	425
Pumptrk	18	No.	Cementer Helper	Poz. Mix	
Bulktrk	19	No.	Driver	Gel.	9
Bulktrk		No.	Driver	Calcium	15
			Driver		

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
Ran 26 New JTS of 23# 8 5/8 Csg.		Handling
Set @ 1093'		Mileage
Received Circulation		8 5/8 FLOAT EQUIPMENT
Cement w/ 425 sx Com 2+3		Guide Shoe
Release Solid Rubber Plug		Centralizer
Displaced a total of 68 BBL H ₂ O		Baskets
LAND Plug @ 600#		AFU Inserts
		Float Shoe
		Latch Down

Cement DID CIRCULATE TO SURFACE!

THANK'S

Pumptrk Charge	Long Surface	Tax
Mileage	23	Discount
Signature: <i>John Danblen</i>		Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 429

Date	5-14-14	Sec.	9	Twp.	16	Range	17	County	Rush	State	KS	On Location	12:00 PM	Finish	3:30 PM
Lease	Alvin Urban			Trust			Location Licenthal E on Ave D								
Contractor	USCOKEY 3			Well No. 1-9			Owner to 300 RD IN W E Minto								
Type Job	plug			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size				T.D. 30 1/4			Charge To								
Csg.	Oil pipe			Depth			Street DOWNING - NELSON								
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 210 SKS 60/40								
Meas Line				Displace			Ugozel								
EQUIPMENT															
Pumptrk	16	No.		Cementer	Matt			Common " 126							
Bulktrk	19	No.		Helper				Poz. Mix 84							
Bulktrk	24	No.		Driver	Billy			Gel. 7							
				Driver	Chad			Calcium							
JOB SERVICES & REMARKS															
Remarks:	Hulls														
Rat Hole	30 SKS			Salt											
Mouse Hole	20 SKS			Flowseal 50#											
Centralizers	Kol-Seal														
Baskets	Mud CLR 48														
D/V or Port Collar	CFL-117 or CD110 CAF 38														
	Sand														
15	3550 ft			Handling 217											
	50 SKS			Mileage											
and	1140			etc											
	50 SKS			FLOAT EQUIPMENT											
3rd	450			Guide Shoe											
	40 SKS			Centralizer											
4th	60			Baskets											
	20 SKS			AFU Inserts											
	Float Shoe														
	Latch Down														
	Went plug														
	Pumptrk Charge plug														
	Mileage 23														
												Tax			
												Discount			
												Total Charge			
Signature <i>Alan Borden</i>															



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co, Inc**

P.O. Box 1019
Hays, KS 67601

ATTN: Alan Downing

Alvin Urban #1-9

9-16s-17w Rush,KS

Start Date: 2014.05.12 @ 14:00:00

End Date: 2014.05.13 @ 00:26:15

Job Ticket #: 58889 DST #: 1

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

Printed: 2014.05.15 @ 15:04:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co, Inc

9-16s-17w Rush,KS

P.O. Box 1019
Hays, KS 67601

Alvin Urban #1-9

Job Ticket: 58889

DST#: 1

ATTN: Alan Dow ning

Test Start: 2014.05.12 @ 14:00:00

GENERAL INFORMATION:

Formation: **Cong. Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:53:45

Time Test Ended: 00:26:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 76

Interval: 3484.00 ft (KB) To 3540.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3540.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: 35.93 psig @ 3505.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.12

End Date:

2014.05.13

Last Calib.:

2014.05.13

Start Time:

14:00:02

End Time:

00:26:15

Time On Btm:

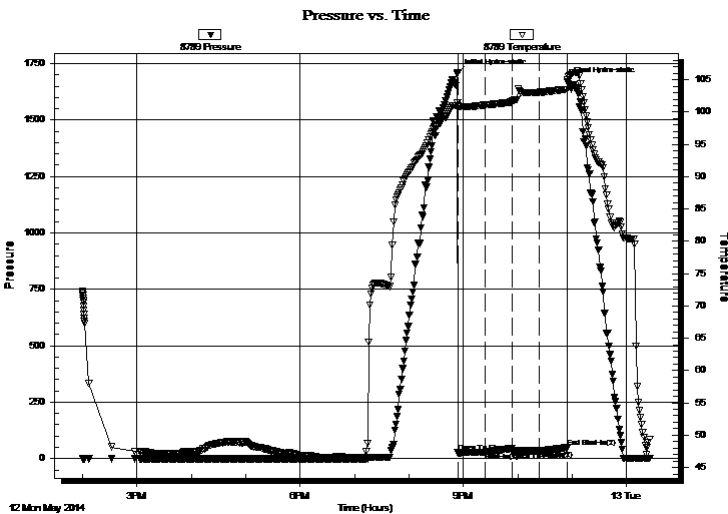
2014.05.12 @ 20:53:30

Time Off Btm:

2014.05.12 @ 22:55:00

TEST COMMENT: 30-IF-Built to 1"
30-ISI-No Return
30-FF-No Blow, Flushed at 22:00 built to 1/4"
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.53	101.48	Initial Hydro-static
1	26.58	100.60	Open To Flow (1)
31	28.47	101.09	Shut-In(1)
60	46.15	101.57	End Shut-In(1)
61	30.73	101.59	Open To Flow (2)
91	35.93	103.06	Shut-In(2)
121	48.80	103.54	End Shut-In(2)
122	1669.72	105.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M, 100%m	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co, Inc

9-16s-17w Rush,KS

P.O. Box 1019
Hays, KS 67601

Alvin Urban #1-9

Job Ticket: 58889

DST#: 1

ATTN: Alan Dow ning

Test Start: 2014.05.12 @ 14:00:00

Tool Information

Drill Pipe:	Length: 3456.00 ft	Diameter: 3.80 inches	Volume: 48.48 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 48.63 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3484.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	56.00 ft				
Tool Length:	84.00 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			3457.00	
Shut In Tool	5.00			3462.00	
Hydraulic tool	5.00			3467.00	
Jars	5.00			3472.00	
Safety Joint	2.00			3474.00	
Packer	5.00			3479.00	28.00 Bottom Of Top Packer
Packer	5.00			3484.00	
Stubb	1.00			3485.00	
Perforations	19.00			3504.00	
Change Over Sub	1.00			3505.00	
Recorder	0.00	8789	Inside	3505.00	
Recorder	0.00	8289	Outside	3505.00	
Blank Spacing	31.00			3536.00	
Change Over Sub	1.00			3537.00	
Bullnose	3.00			3540.00	56.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co, Inc

9-16s-17w Rush,KS

P.O. Box 1019
Hays, KS 67601

Alvin Urban #1-9

Job Ticket: 58889

DST#: 1

ATTN: Alan Dow ning

Test Start: 2014.05.12 @ 14:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M, 100%m	0.148

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:

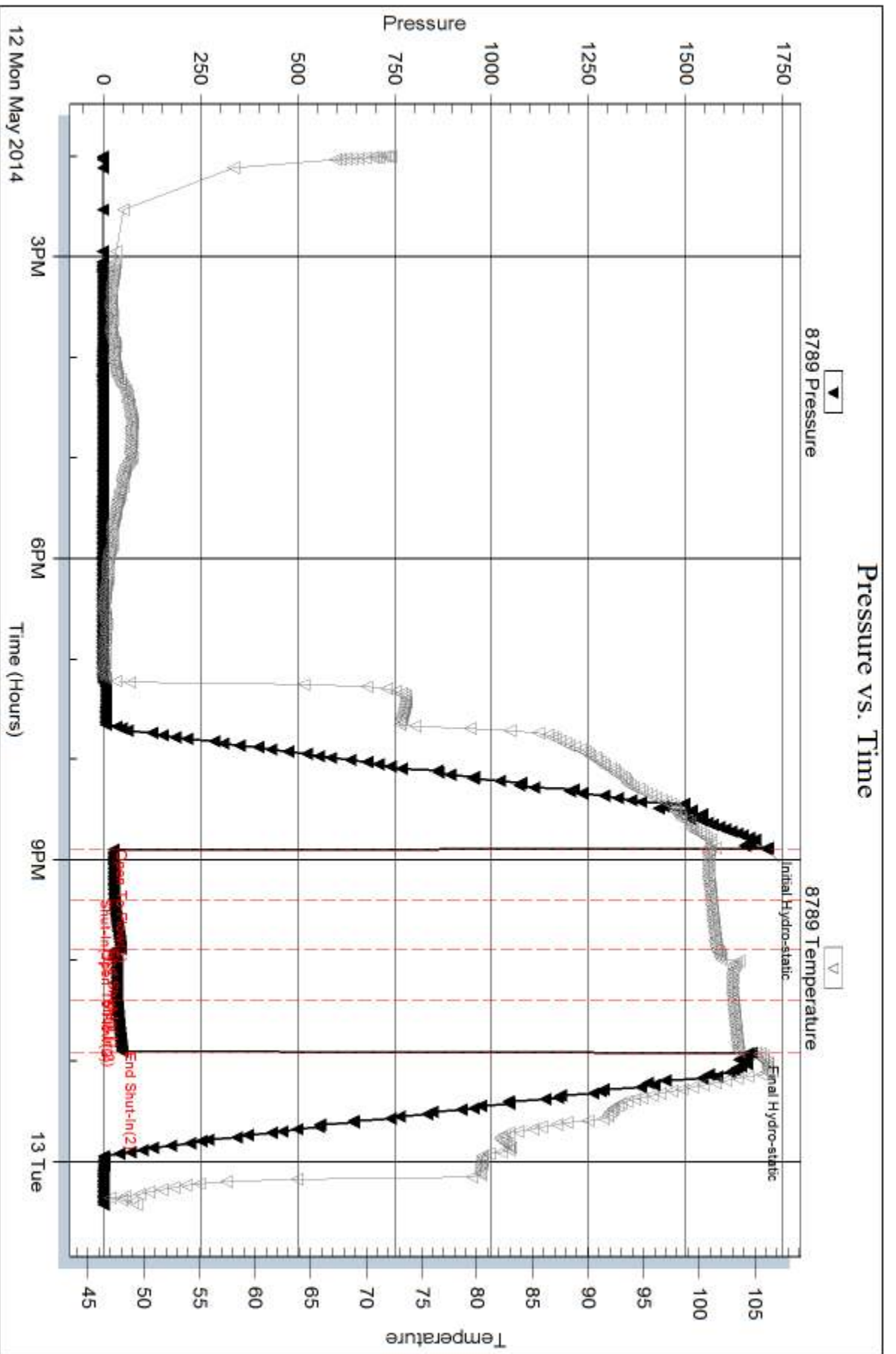
Serial #: 8789

Inside

Downing Nelson Oil Co, Inc

Alvin Urban #1-9

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58889

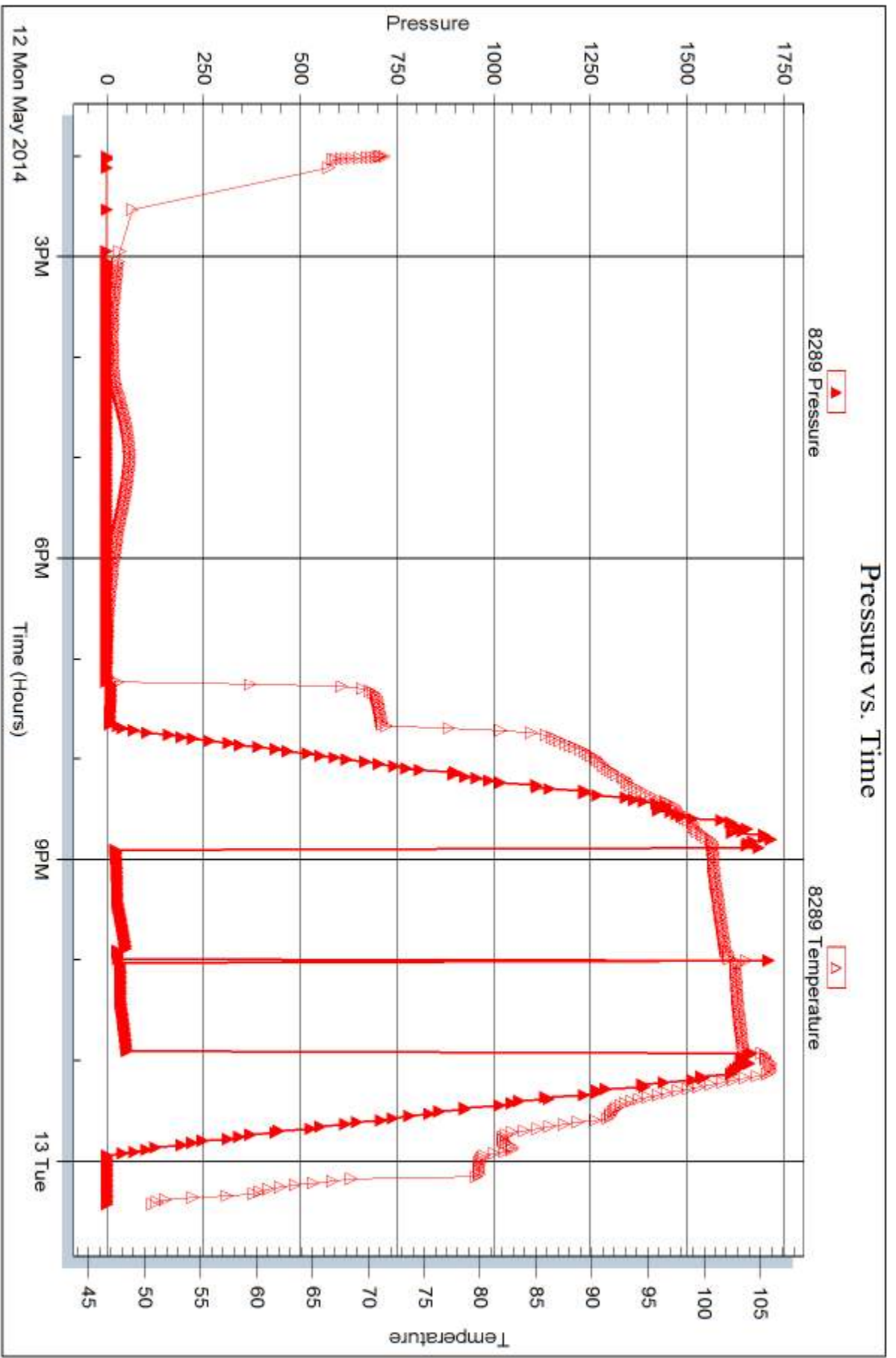
Printed: 2014.05.15 @ 15:04:22

Serial #: 8289

Outside Dow n ing Nelson Oil Co, Inc

Alvin Urban #1-9

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58889

Printed: 2014.05.15 @ 15:04:23



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co, Inc**

P.O. Box 1019
Hays, KS 67601

ATTN: Alan Downing

Alvin Urban #1-9

9-16s-17w Rush,KS

Start Date: 2014.05.13 @ 06:30:00

End Date: 2014.05.13 @ 13:50:15

Job Ticket #: 58890 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.15 @ 15:03:58



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co, Inc

9-16s-17w Rush,KS

P.O. Box 1019
Hays, KS 67601

Alvin Urban #1-9

Job Ticket: 58890

DST#: 2

ATTN: Alan Dow ning

Test Start: 2014.05.13 @ 06:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:07:00

Time Test Ended: 13:50:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 76

Interval: 3483.00 ft (KB) To 3562.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3562.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: 57.94 psig @ 3495.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.13

End Date:

2014.05.13

Last Calib.:

2014.05.13

Start Time: 06:30:02

End Time:

13:50:15

Time On Btm:

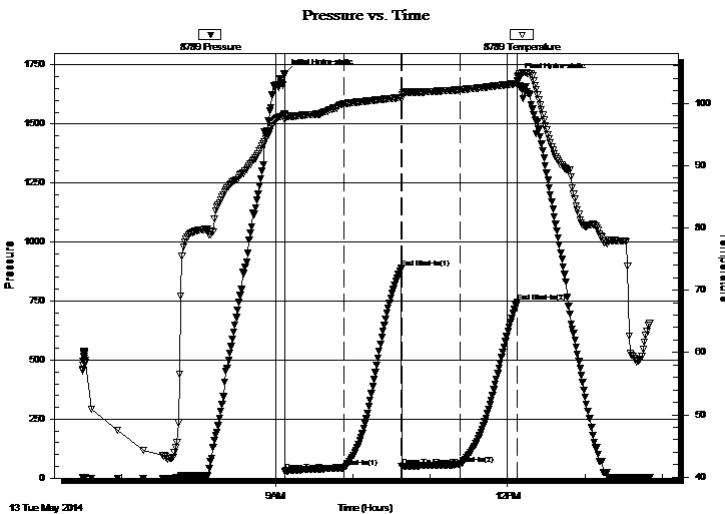
2014.05.13 @ 09:06:45

Time Off Btm:

2014.05.13 @ 12:07:45

TEST COMMENT: 45-IF-Built to 4"
45-ISI-No Return
45-FF-Built to 2 3/4"
45-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.79	98.24	Initial Hydro-static
1	26.93	97.39	Open To Flow (1)
47	43.96	99.91	Shut-In(1)
91	889.55	100.92	End Shut-In(1)
91	50.38	100.70	Open To Flow (2)
137	57.94	102.15	Shut-In(2)
181	746.58	103.14	End Shut-In(2)
181	1698.55	103.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
88.00	VSOCM, 5%o, 95%m	0.96

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co, Inc

9-16s-17w Rush,KS

P.O. Box 1019
Hays, KS 67601

Alvin Urban #1-9

Job Ticket: 58890

DST#: 2

ATTN: Alan Dow ning

Test Start: 2014.05.13 @ 06:30:00

Tool Information

Drill Pipe:	Length: 3454.00 ft	Diameter: 3.80 inches	Volume: 48.45 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	54000.00 lb
			<u>Total Volume: 48.60 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3483.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	79.00 ft				
Tool Length:	107.00 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			3456.00	
Shut In Tool	5.00			3461.00	
Hydraulic tool	5.00			3466.00	
Jars	5.00			3471.00	
Safety Joint	2.00			3473.00	
Packer	5.00			3478.00	28.00 Bottom Of Top Packer
Packer	5.00			3483.00	
Stubb	1.00			3484.00	
Perforations	10.00			3494.00	
Change Over Sub	1.00			3495.00	
Recorder	0.00	8789	Inside	3495.00	
Recorder	0.00	8289	Outside	3495.00	
Blank Spacing	63.00			3558.00	
Change Over Sub	1.00			3559.00	
Bullnose	3.00			3562.00	79.00 Bottom Packers & Anchor

Total Tool Length: 107.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co, Inc

9-16s-17w Rush,KS

P.O. Box 1019
Hays, KS 67601

Alvin Urban #1-9

Job Ticket: 58890

DST#: 2

ATTN: Alan Dow ning

Test Start: 2014.05.13 @ 06:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
88.00	VSOCM, 5%o, 95%m	0.961

Total Length: 88.00 ft Total Volume: 0.961 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

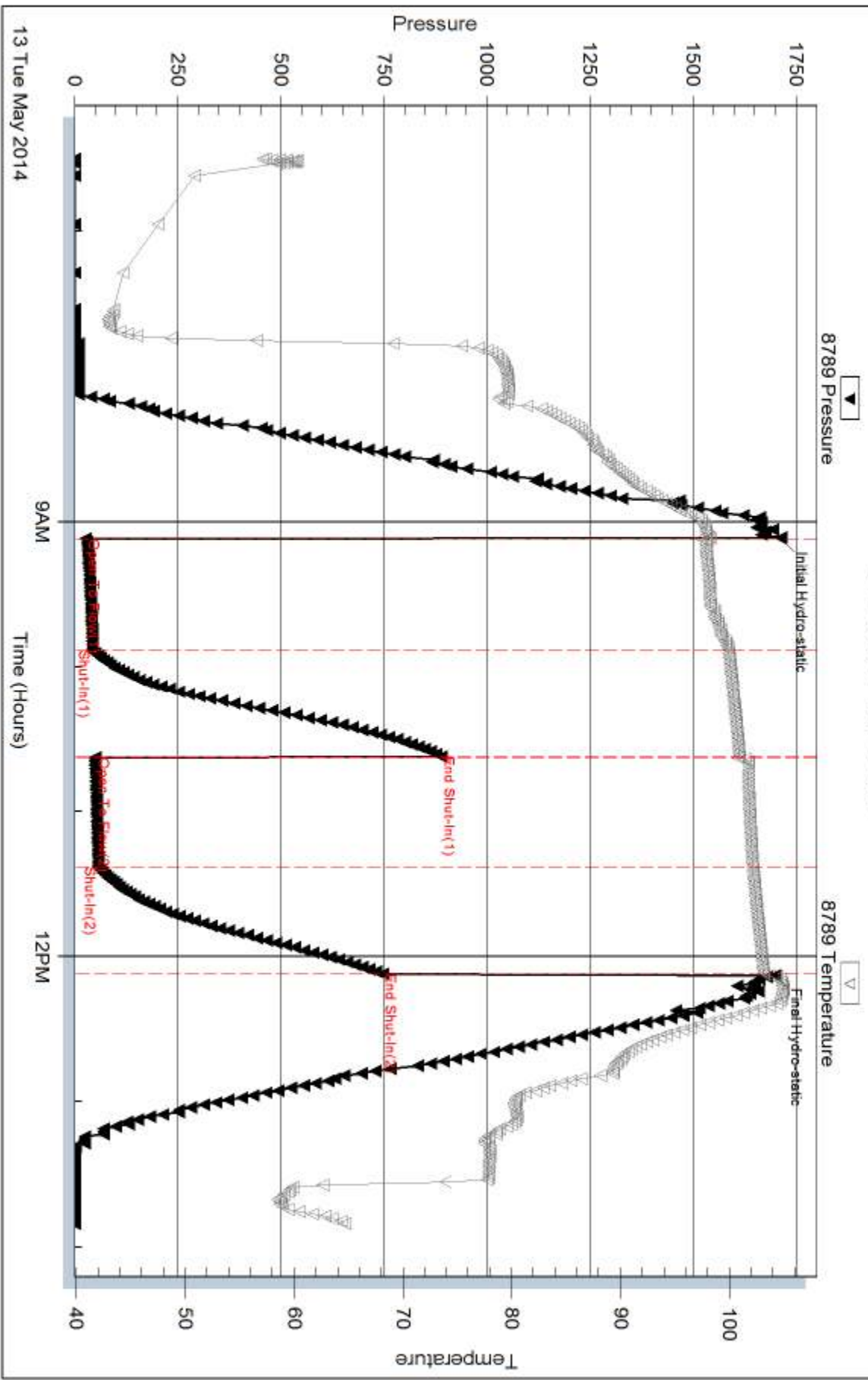
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

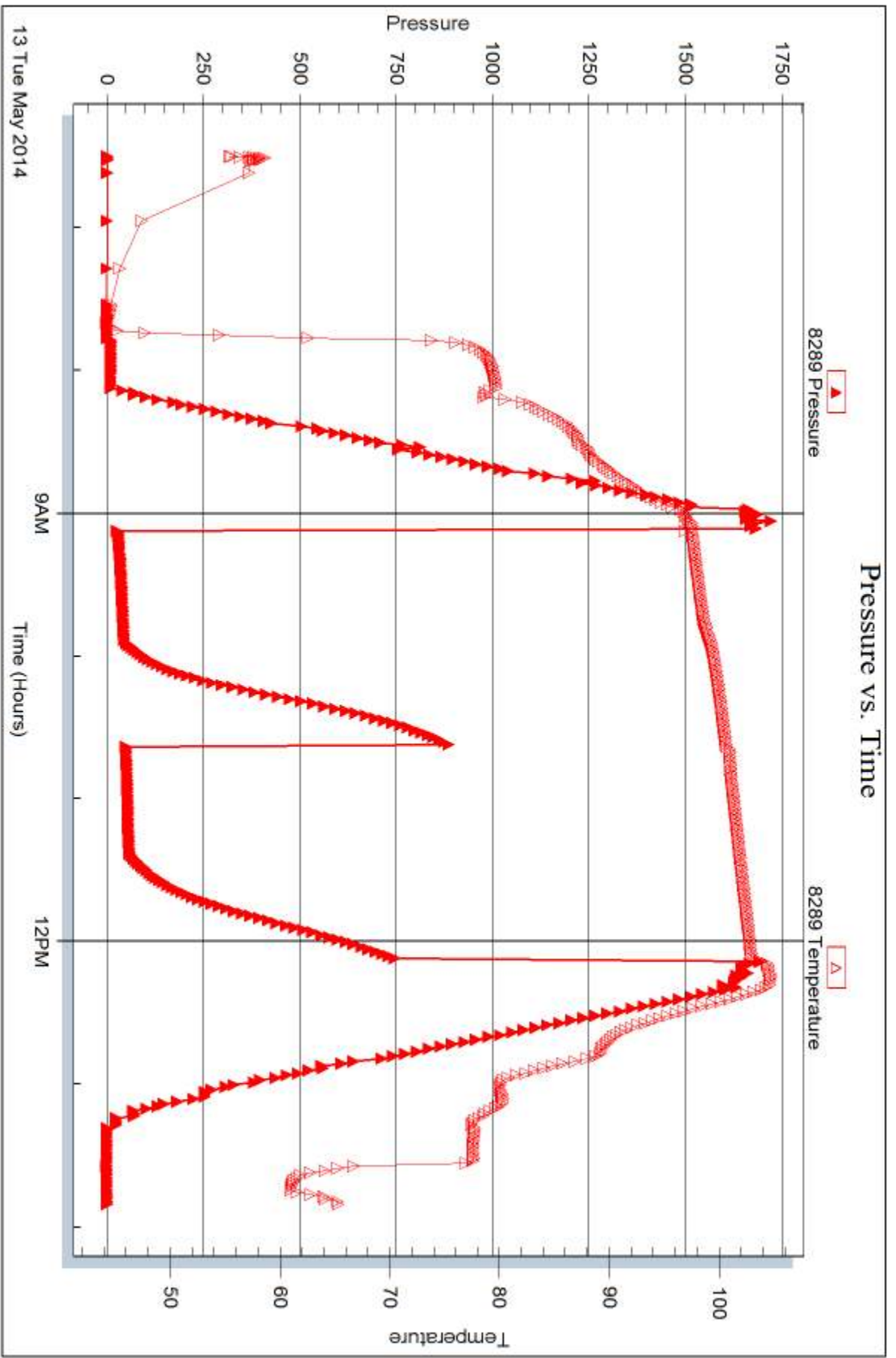


Serial #: 8289

Outside Dow n ing Nelson Oil Co, Inc

Alvin Urban #1-9

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58890

Printed: 2014.05.15 @ 15:03:59



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co, Inc**

P.O. Box 1019
Hays, KS 67601

ATTN: Alan Downing

Alvin Urban #1-9

9-16s-17w Rush,KS

Start Date: 2014.05.14 @ 01:30:00

End Date: 2014.05.14 @ 09:13:15

Job Ticket #: 58862 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.15 @ 15:03:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co, Inc

9-16s-17w Rush,KS

P.O. Box 1019
Hays, KS 67601

Alvin Urban #1-9

Job Ticket: 58862

DST#: 3

ATTN: Alan Dow ning

Test Start: 2014.05.14 @ 01:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:34:30

Time Test Ended: 09:13:15

Test Type: Conventional Straddle (Reset)

Tester: Phillip Gage

Unit No: 76

Interval: 3557.00 ft (KB) To 3569.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3645.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: 253.05 psig @ 3558.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.14

End Date:

2014.05.14

Last Calib.:

2014.05.14

Start Time: 01:30:02

End Time:

09:13:15

Time On Btm:

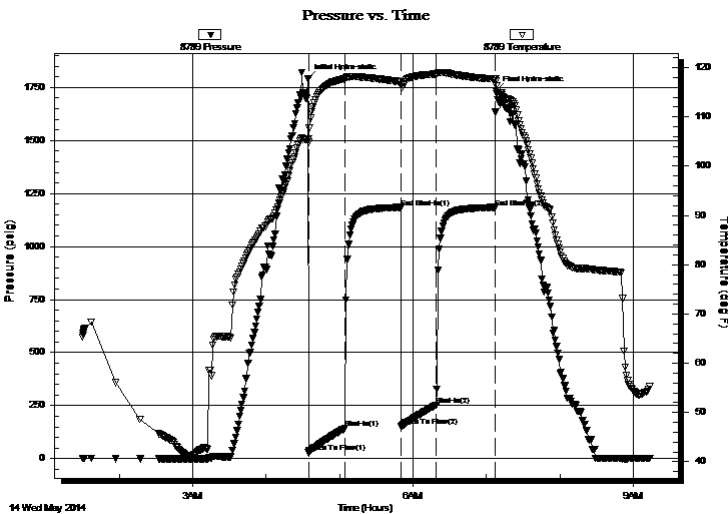
2014.05.14 @ 04:34:15

Time Off Btm:

2014.05.14 @ 07:07:45

TEST COMMENT: 30-IF-BOB in 9 mins
45-ISI-1/8" Return
30-FF-BOB in 11 mins
45-FSI-1/4" Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.40	105.50	Initial Hydro-static
1	27.97	104.83	Open To Flow (1)
31	144.49	117.77	Shut-In(1)
76	1184.35	117.14	End Shut-In(1)
76	152.28	116.46	Open To Flow (2)
105	253.05	118.71	Shut-In(2)
153	1184.26	117.64	End Shut-In(2)
154	1736.14	117.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
378.00	MW, 5% m, 95% w	5.03
151.00	WM, 20% w, 80% m, with oil spots	2.12

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co, Inc

9-16s-17w Rush,KS

P.O. Box 1019
Hays, KS 67601

Alvin Urban #1-9

Job Ticket: 58862

DST#: 3

ATTN: Alan Dow ning

Test Start: 2014.05.14 @ 01:30:00

Tool Information

Drill Pipe:	Length: 3518.00 ft	Diameter: 3.80 inches	Volume: 49.35 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 49.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3557.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	3569.00 ft			
Interval betw een Packers:	12.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3530.00	
Shut In Tool	5.00			3535.00	
Hydraulic tool	5.00			3540.00	
Jars	5.00			3545.00	
Safety Joint	2.00			3547.00	
Packer	5.00			3552.00	28.00 Bottom Of Top Packer
Packer	5.00			3557.00	
Stubb	1.00			3558.00	
Recorder	0.00	8789	Inside	3558.00	
Recorder	0.00	8289	Outside	3558.00	
Perforations	7.00			3565.00	
Blank Off Sub	1.00			3566.00	
Blank Spacing	3.00			3569.00	12.00 Tool Interval
Packer	1.00			3570.00	
Perforations	6.00			3576.00	
Change Over Sub	1.00			3577.00	
Recorder	0.00	6668	Below	3577.00	
Drill Pipe	63.00			3640.00	
Change Over Sub	1.00			3641.00	
Bullnose	3.00			3644.00	75.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co, Inc

9-16s-17w Rush,KS

P.O. Box 1019
Hays, KS 67601

Alvin Urban #1-9

Job Ticket: 58862

DST#: 3

ATTN: Alan Dow ning

Test Start: 2014.05.14 @ 01:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
378.00	MW, 5% <i>m</i> , 95% <i>w</i>	5.029
151.00	WM, 20% <i>w</i> , 80% <i>m</i> , w ith oil spots	2.118

Total Length: 529.00 ft Total Volume: 7.147 bbl

Num Fluid Samples: 0

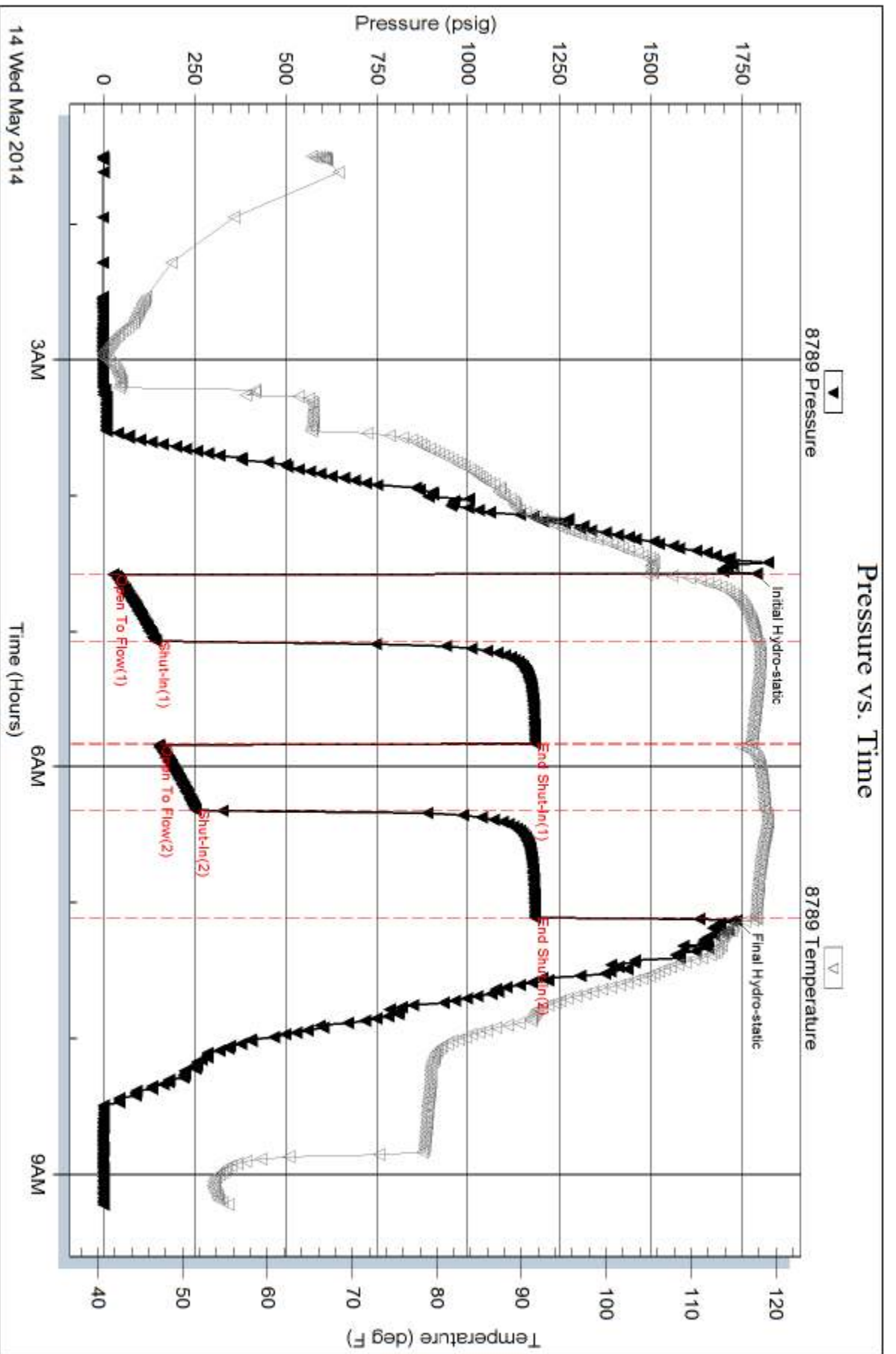
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .38 @ 53 degrees = 48,000 Salinity

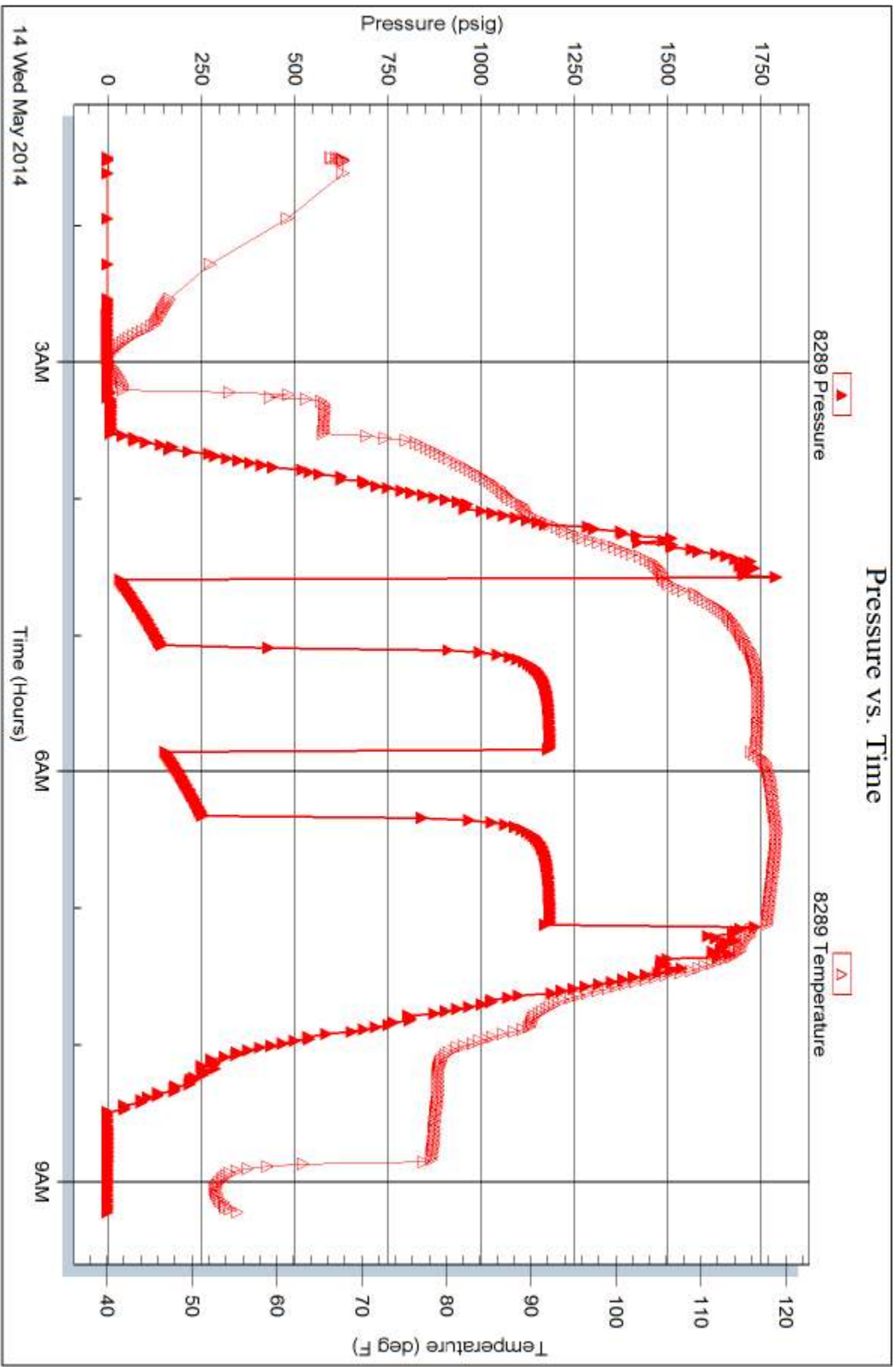


Serial #: 8289

Outside Downing Nelson Oil Co, Inc

Alvin Urban #1-9

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58862

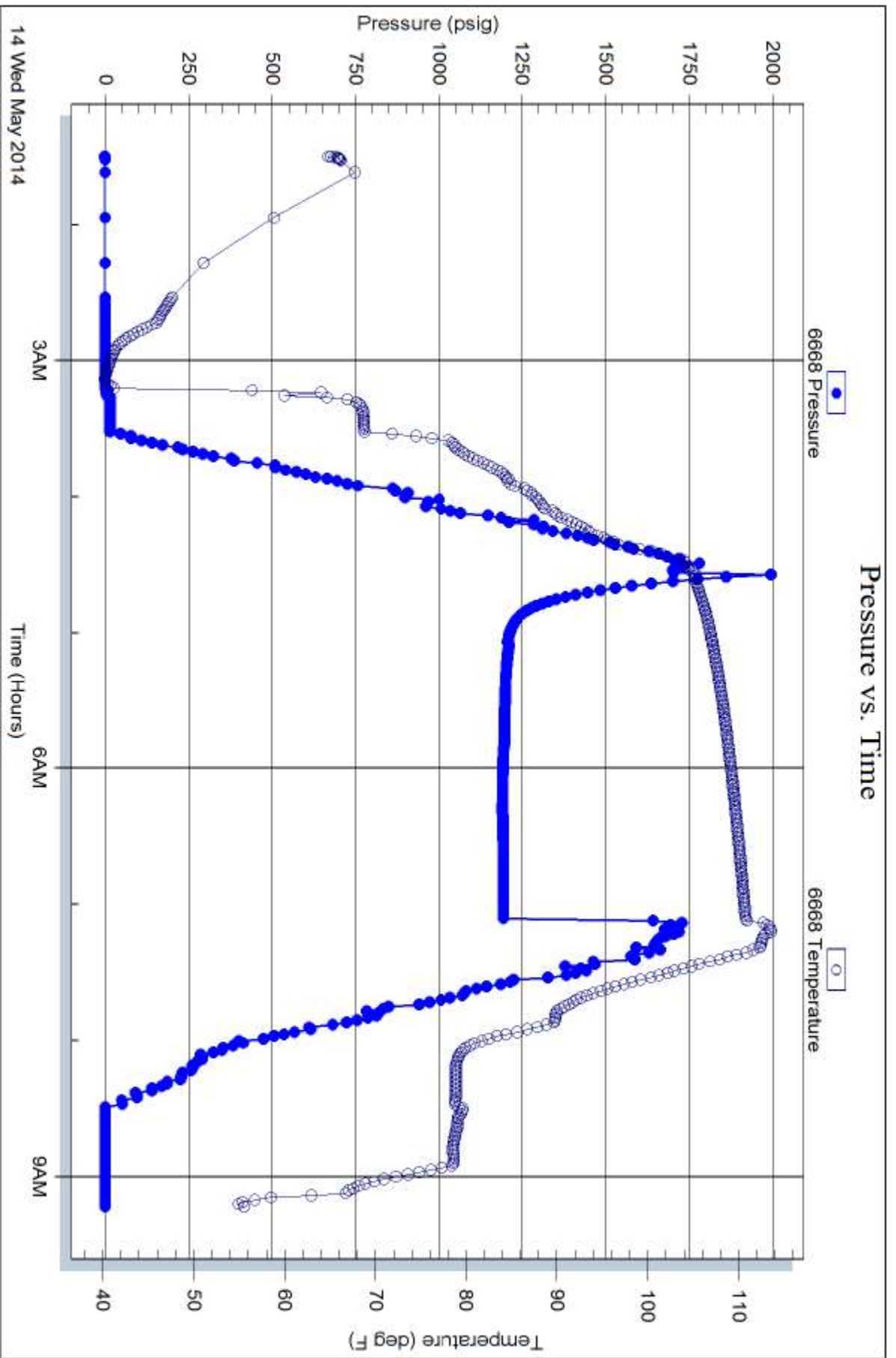
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Serial #: 6668

Below (Stratton) Nelson Oil Co, Inc

Avin Urban #1-9

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58862

Printed: 2014.05.15 @ 15:03:27



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58889

4/10

Well Name & No. Alum Urban Truss #1-9 Test No. 1 Date 85-12-14
 Company Downing-Nelson Oil Co Inc Elevation 1974 KB 1966 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Alan Downing Rig Discovery 3
 Location: Sec. 9 Twp. 16S Rge. 17W Co. Rush State KS

Interval Tested 3484 - 3540 Zone Tested Long Sand
 Anchor Length 56' Drill Pipe Run 3456 Mud Wt. 9.1
 Top Packer Depth 3479 Drill Collars Run 30 Vis 50
 Bottom Packer Depth 3484 Wt. Pipe Run 0 WL 8
 Total Depth 3540 Chlorides 3,000 ppm System LCM 1#

Blow Description IF - Built to 1"
ISI - No Return
FF - No Blow, Flushed out 22:00, built to 1/4"
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>M</u>			<u>100</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 30' BHT 105 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1705 Test 1150 T-On Location 13:24
 (B) First Initial Flow 26 Jars 250 T-Started 14:00
 (C) First Final Flow 28 Safety Joint 75 T-Open 20:54
 (D) Initial Shut-In 46 Circ Sub _____ T-Pulled 22:54
 (E) Second Initial Flow 30 Hourly Standby 1.5h 150 T-Out 00:27
 (F) Second Final Flow 35 Mileage 50 RT 77.50 Comments _____
 (G) Final Shut-In 48 Sampler _____
 (H) Final Hydrostatic 1669 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1702.50
 Accessibility _____ MP/DST Disc't _____

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

Sub Total 1702.50

Approved By _____ Our Representative Phil Rose "Thank You"

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. 58890

4/10

Well Name & No. Alvin Urban Trust #1-9 Test No. 2 Date 5-13-13
 Company Downing-Nelson Oil Co Inc Elevation 1974 KB 1966 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Alan Downing Rig Discovery 3
 Location: Sec. 9 Twp. 16S Rge. 17W Co. Rush State KS

Interval Tested 3483-3562 Zone Tested Arbuckle
 Anchor Length 79' Drill Pipe Run 3454 Mud Wt. 9.1
 Top Packer Depth 3478 Drill Collars Run 30 Vis 50
 Bottom Packer Depth 3483 Wt. Pipe Run 0 WL 8
 Total Depth 3562 Chlorides 3,000 ppm System LCM 1#
 Blow Description IF- Built to 4"
ISI- No Return
FF- Built to 2 3/4"
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>88'</u>	<u>VSOCM</u>		<u>5</u>		<u>95</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 88' BHT 103 Gravity — API RW @ °F Chlorides — ppm
 (A) Initial Hydrostatic 1711 Test 1150 T-On Location 06:29
 (B) First Initial Flow 26 Jars 250 T-Started 06:30
 (C) First Final Flow 43 Safety Joint 75 T-Open 0908
 (D) Initial Shut-In 889 Circ Sub — T-Pulled 1208
 (E) Second Initial Flow 50 Hourly Standby 50 RT 77.50 T-Out 13:51
 (F) Second Final Flow 57 Mileage — Comments —
 (G) Final Shut-In 746 Sampler —
 (H) Final Hydrostatic 1698 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1552.50
 Accessibility — MP/DST Disc't —
 Sub Total 1552.50

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

Approved By _____ Our Representative Alan Downing / Jim Phillips

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58862

Well Name & No. Alvin Urban Trust #1-9 Test No. 3 Date 5-17-14
 Company Downing-Nelson Oil Co Inc Elevation 1974 KB 1966 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Alan Downing / Mark Downing Rig Downing Rig 3
 Location: Sec. 9 Twp. 16s Rge. 17w Co. Rush State KS

Interval Tested 3557-3569 Zone Tested Arbuckle
 Anchor Length 12' Drill Pipe Run 3518 Mud Wt. 9.3
 Top Packer Depth 3564 Drill Collars Run 30 Vis 44
 Bottom Packer Depth 3569 Wt. Pipe Run 0 WL 8
 Total Depth 3645 Chlorides 5,000 ppm System LCM 1#

Blow Description IF- BOB in 9 mins
ISI- 1/8" Return
FF- BOB in 11 mins
FSI- 1/4" Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>378</u>	<u>MW</u>		<u>95</u>	<u>5</u>	
<u>151</u>	<u>WM, with oil spots</u>		<u>20</u>	<u>80</u>	

Rec Total 529 BHT 118 Gravity — API RW 38 @ 53 °F Chlorides 48,000 ppm

(A) Initial Hydrostatic 1790 Test 1150 T-On Location 01:20
 (B) First Initial Flow 27 Jars 250 T-Started 01:30
 (C) First Final Flow 144 Safety Joint 75 T-Open 04:35
 (D) Initial Shut-In 1184 Circ Sub _____ T-Pulled 07:05
 (E) Second Initial Flow 152 Hourly Standby _____ T-Out 09:14
 (F) Second Final Flow 253 Mileage 50 RT 77.50 Comments _____
 (G) Final Shut-In 1184 Sampler _____
 (H) Final Hydrostatic 1736 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 2152.50
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 2152.50

Approved By _____ Our Representative Phil Loy

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Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator Downing-Nelson Oil Co., Inc.		Elevation 1966	
Lease Alvin Urban No. 1-9		KB 1966 DF GL 1958	
API # 15-165-22069-0000		Casing Record Surface	
Field Pleasant View West		8 5/8" @ 1090'	
Location 1740' FSL & 1670' FWL		Production None	
Sec. 9 Twp. 16s Rge. 17w		Electrical Surveys	
County Rush State Kansas		CNL, DIL, MEL	
Formation	Sample tops	Log Tops	Datum Struct Comp
Top Anhydrite	1086	1084	+882 +7
Base Anhydrite	1130	1126	+840 +4
Topoka	2985	2980	-1014 -5
Heebner	3214	3213	-1247 -8
Toronto	3234	3232	-1266 -9
LKC	3261	3261	-1295 -7
BKC	3486	3486	-1520 -7
Arbuckle	3550	3550	-1584 -7
Total Depth	3644	3845	-1879
Reference Well For Structural Comparison DNOCI Urban #1-9 1703' FNL & 1581' FWL		Sec. 9-16s-17w	

Drilling Contractor	Discovery Drilling, Rig #3
Commenced	5-5-14
Samples Saved From	3100 To RTD
Drilling Time Kept From	2850 To RTD
Samples Examined From	3100 To RTD
Geological Supervision From	2850 To RTD

Summary and Recommendations
 Due to structural position, DST recovery, and log evaluation, it was decided to plug and abandon the well.

Respectfully Submitted,
 Marc A. Downing

