Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1309481

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 # 30717
Name: Downing-Nelson Oil Co Inc
Address 1: PO BOX 1019
Address 2:
City: HAYS State: KS Zip: 67601 + ____
Contact Person: Alan Downing
Phone: (785) 621-2610
CONTRACTOR: License # 34535
Name: Integrity Drilling Co., LLC
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 #:

03/15/2016	03/22/2016	03/23/2016
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-22126-00-00
Spot Description:
SW NE SW SE Sec. 25 Twp. 18 S. R. 16 ☐ East ☑ West
890 Feet from ☐ North / ☑ South Line of Section
1815 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Rush
Lease Name: Giesick Well #: 1-25
Field Name: Otis-Albert
Producing Formation: LKC
Elevation: Ground: 1946 Kelly Bushing: 1965
Total Vertical Depth: 3560 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 971 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: 88000 ppm Fluid volume: 240 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:
Operator Name: Pauls Oilfield Service
Lease Name: Miller 1 License #: 31085
Quarter NW Sec. 6 Twp. 19 S. R. 15 ☐ East ☑ West
County: Barton Permit #: D21324

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:** Karen Ritter **Date:** 08/12/2016

[redacted] 1309481

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Giesick Well #: 1-25

Sec. 25 Twp. 18 S. R. 16 ☐ East ☑ West County: Rush

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Neutron

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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	12.25	8.625	23	971	Common	380	2%Gel & 3%CC
Production	7.875	5.5	14	3552	Common	150	None

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Giesick 1-25
Doc ID	1309481

Tops

Name	Top	Datum
Top Anhydrite	NA	+1005
Base Anhydrite	NA	NA
Topeka	2945'	-980
Heebner	3192'	-1227
Toronto	3207'	-1242
Douglas Shale	3223'	-1258
Brown Lime	3258'	-1293
LKC	3274'	-1309
BKC	3498	-1533
Reagan Sand	NA	-1588

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Giesick 1-25
Doc ID	1309481

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	971	Common	380	2%Gel & 3%CC
Production	7.875	5.5	14	3552	Common	150	None

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 1331

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-16-16	25	18	16	Rush	Ks		7:00 PM

Location Albert, Ks - 2w, 1S, 1/2E N/S

Lease Giesick Well No. 1-25

Contractor Integrity Drilling

Type Job Surface

Hole Size 12 1/4" T.D. 969'

Csg. 8 5/8" Depth ~~968'~~ 959'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 44' Shoe Joint 44'

Meas Line Displace 58 1/4 BLS

EQUIPMENT

Pumptrk 5	No.	Cementer	Brett
		Helper	
Bulktrk 4	No.	Driver	Doug
		Driver	
~~Bulktrk~~ P.U.	No.	Driver	Rick
		Driver	

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement did Circulate

Owner

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.

Charge To Downing - Nelson

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 380 70/30 3%cc 2% Gel

Common	266
Poz. Mix	114
Gel.	7
Calcium	13
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	400
Mileage	

FLOAT EQUIPMENT

~~Guide Shoe~~	Baffle plate
Centralizer	3
~~Baskets~~	Rubber plugs
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Long Surface
Mileage	15
Tax	
Discount	
Total Charge	

X Signature

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. 1333

3-22-16

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-21-16	25	18	16	Rush	Ks		12:45 PM

Location Albert, Ks - 1W, 1S, ½W, N/S

Lease Giesick Well No. 1-25

Owner

Contractor Integrity #7

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.

Type Job Longstring LTD 3553'

Hole Size 7 7/8" T.D. RTD 3560'

Charge To Downing - Nelson

Csg. 5½" 14# New Depth ~~3560'~~ 3558'

Street

Tbg. Size Depth 3552.00'

City State

Tool Depth

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 42.10' Shoe Joint 42.10'

Cement Amount Ordered 150 Com

Meas Line Displace 85 3/4 BLS

500 gal mud Clear 48

EQUIPMENT

Pumptrk 5 No. Cementer Helper Brett

Bulktrk 14 No. Driver Driver Doug

~~Bulktrk~~ Pilot No. Driver Driver Rick

Common 150

Poz. Mix

Gel.

Calcium

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48 500 gal

CFL-117 or CD110 CAF 38

Sand

Handling 150

Mileage

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers 1, 3, 5

Baskets 1

D/V or Port Collar

Pipe on bottom break Circulation pump 500 gal mud Clear 48 plug Rathole w/ 30 sx Mouse 5 sx Casing + mix 120 sk Cement. Shut down wash pump + lines Released plug + Displaced w/ 85 3/4 BLS of H2O Released + held Land plug to 750 # Lift pressure 1500 #

FLOAT EQUIPMENT

Guide Shoe Packer Shoe

Centralizer 3

Baskets 2

AFU Inserts

Float Shoe 1

Latch Down 1

Pumptrk Charge Prod String

Mileage 15

Tax

Discount

Total Charge

X
Signature

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Giesick #1-25

25-18s-16w Rush,KS

Start Date: 2016.03.20 @ 23:35:00
End Date: 2016.03.21 @ 05:00:00
Job Ticket #: 65083 DST #: 1

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

Printed: 2016.03.21 @ 16:45:24

DRILL STEM TEST REPORT

Downing Nelson Oil Company Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

25-18s-16w Rush,KS

Giesick #1-25

Job Ticket: 65083 **DST#: 1**

Test Start: 2016.03.20 @ 23:35:00

GENERAL INFORMATION:

Formation: **Reagan Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:16:30
Time Test Ended: 05:00:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 3501.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

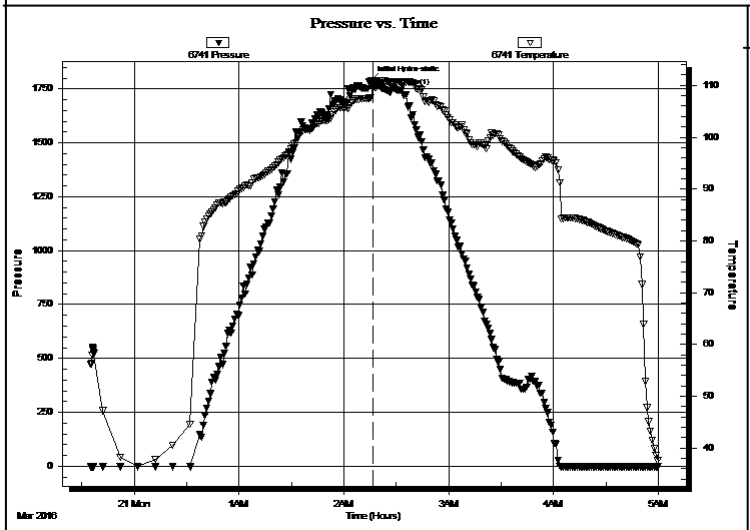
Reference Elevations: 1964.00 ft (KB)
1953.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: psig @ 3556.29 ft (KB)
Start Date: 2016.03.20 End Date: 2016.03.21
Start Time: 23:35:05 End Time: 04:59:59

Capacity: 8000.00 psig
Last Calib.: 2016.03.21
Time On Btm: 2016.03.21 @ 02:15:30
Time Off Btm:

TEST COMMENT: No packer seat on initial set/ Pull tool up / Fill hole/ No packer seat on second attempt/ Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.34	107.67	Initial Hydro-static
1	1761.52	109.52	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud 100%	1.43

Gas Rates

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

DRILL STEM TEST REPORT

Downing Nelson Oil Company Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

25-18s-16w Rush,KS

Giesick #1-25

Job Ticket: 65083 **DST#: 1**

Test Start: 2016.03.20 @ 23:35:00

GENERAL INFORMATION:

Formation: **Reagan Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:16:30
Time Test Ended: 05:00:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 3501.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

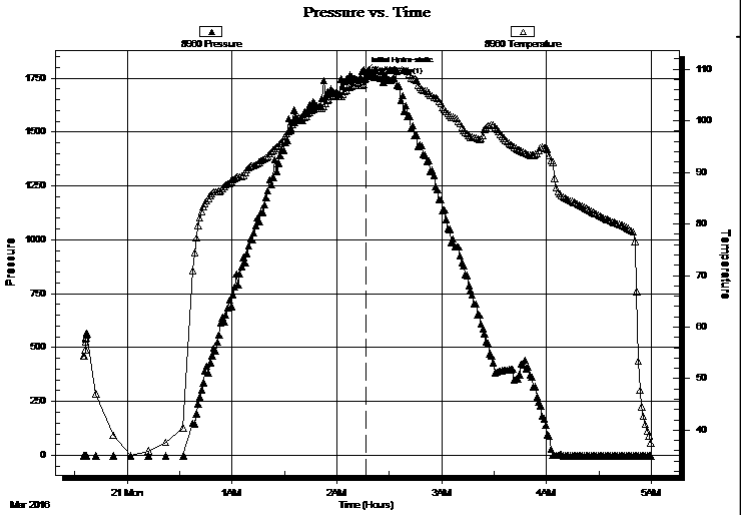
Reference Elevations: 1964.00 ft (KB)
1953.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8960 **Outside**

Press@RunDepth: psig @ 3557.29 ft (KB)
Start Date: 2016.03.20 End Date: 2016.03.21
Start Time: 23:35:05 End Time: 04:59:59

Capacity: 8000.00 psig
Last Calib.: 2016.03.21
Time On Btm: 2016.03.21 @ 02:16:00
Time Off Btm:

TEST COMMENT: No packer seat on initial set/ Pull tool up / Fill hole/ No packer seat on second attempt/ Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1780.13	107.93	Initial Hydro-static
1	1764.47	108.15	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud 100%	1.43

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Company Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Dow ning

25-18s-16w Rush,KS

Giesick #1-25

Job Ticket: 65083 **DST#: 1**

Test Start: 2016.03.20 @ 23:35:00

Tool Information

Drill Pipe:	Length:	3373.00 ft	Diameter:	3.80 inches	Volume:	47.31 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:		50000.00 lb
					Total Volume:	47.90 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		12.00 ft					String Weight:	Initial	42000.00 lb
Depth to Top Packer:		3501.00 ft						Final	42000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		59.29 ft							
Tool Length:		79.29 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3486.00		
Hydraulic tool	5.00			3491.00		
Top Packer	5.00			3496.00		
Packer	5.00			3501.00	20.00	Bottom Of Top Packer
Anchor	2.00			3503.00		
Change Over Sub	1.00			3504.00		
Drill Pipe	31.29			3535.29		
Change Over Sub	1.00			3536.29		
Anchor	19.00			3555.29		
Recorder	1.00	6741	Inside	3556.29		
Recorder	1.00	8960	Outside	3557.29		
Bullnose	3.00			3560.29	59.29	Anchor Tool
Total Tool Length:	**79.29**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

25-18s-16w Rush,KS

Giesick #1-25

Job Ticket: 65083 **DST#: 1**

Test Start: 2016.03.20 @ 23:35:00

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:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Mud 100%	1.432

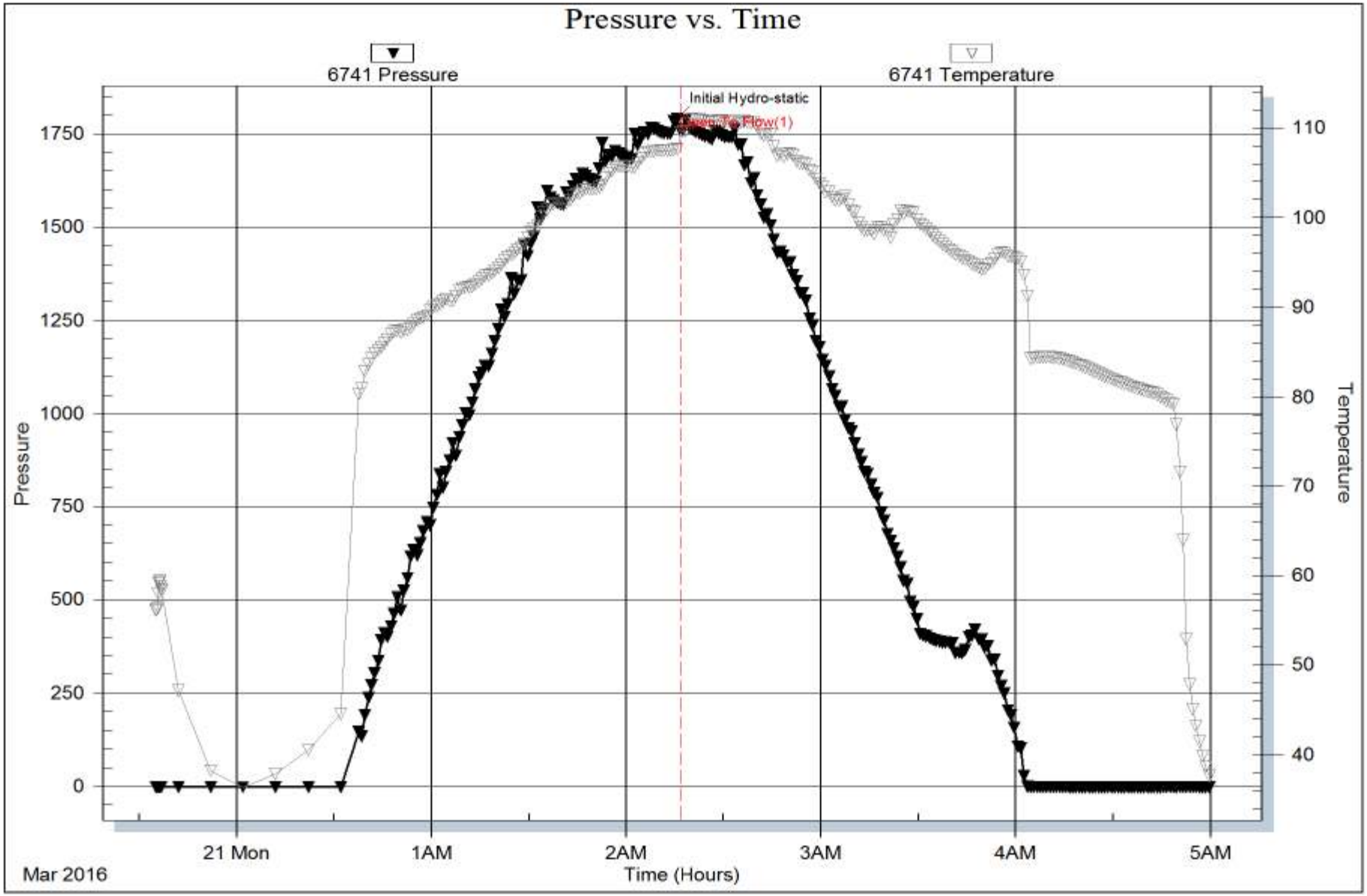
Total Length: 180.00 ft Total Volume: 1.432 bbl

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

Laboratory Name: Laboratory Location:

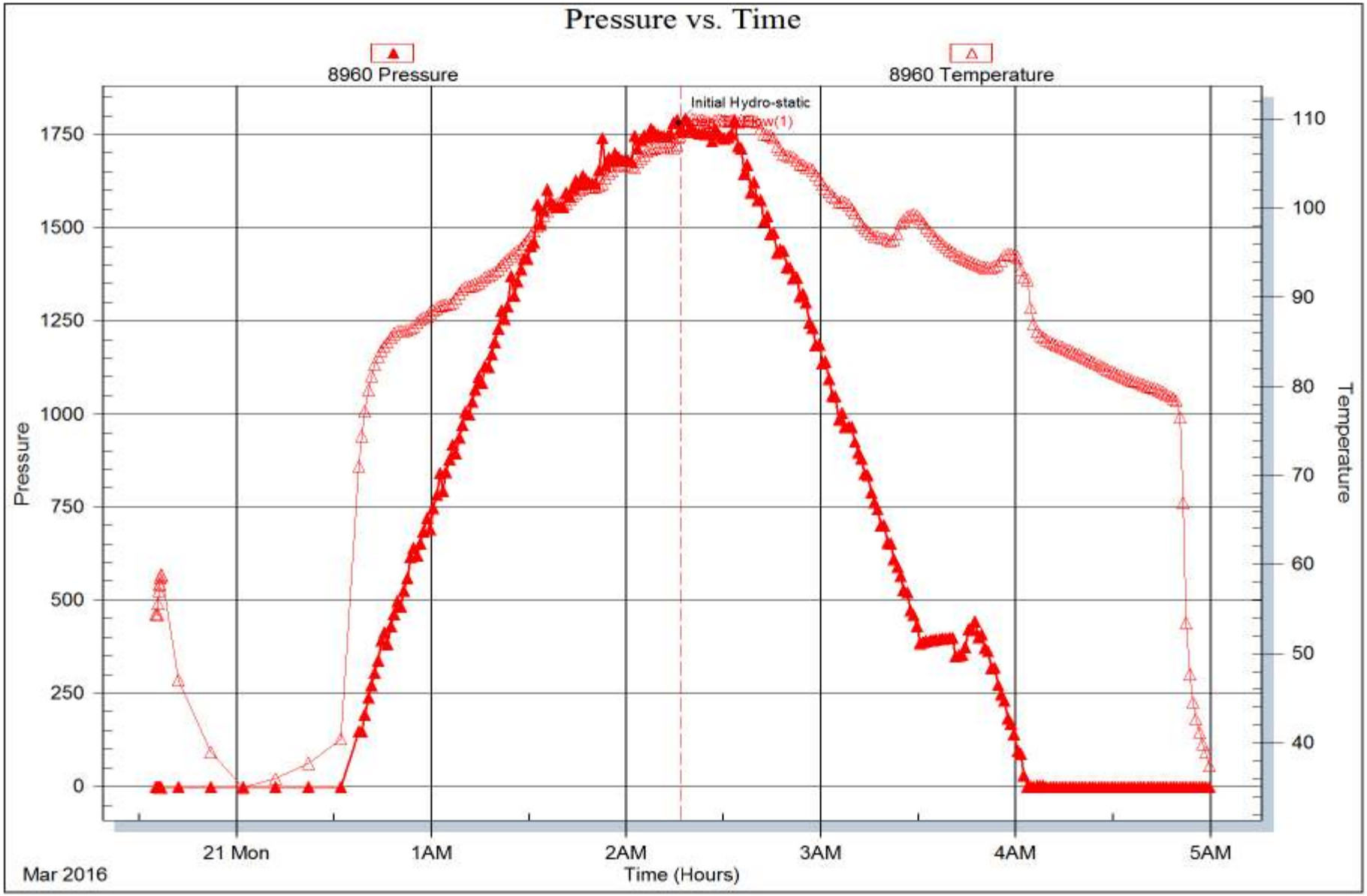
Recovery Comments:

Serial #: 6741 **Inside** Dow ning Nelson Oil Company Inc Giesick #1-25 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65083 Printed: 2016.03.21 @ 16:46:15

Serial #: 8960 **Outside** Dow ning Nelson Oil Company Inc Giesick #1-25 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65083 Printed: 2016.03.21 @ 16:46:15

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Giesick #1-25

25-18s-16w Rush,KS

Start Date: 2016.03.21 @ 05:23:00
End Date: 2016.03.21 @ 12:24:30
Job Ticket #: 65084 DST #: 2

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

Printed: 2016.03.21 @ 16:43:16

DRILL STEM TEST REPORT

Downing Nelson Oil Company Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

25-18s-16w Rush,KS

Giesick #1-25

Job Ticket: 65084 **DST#: 2**

Test Start: 2016.03.21 @ 05:23:00

GENERAL INFORMATION:

Formation: **Reagan Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:22:30
Time Test Ended: 12:24:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 3482.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

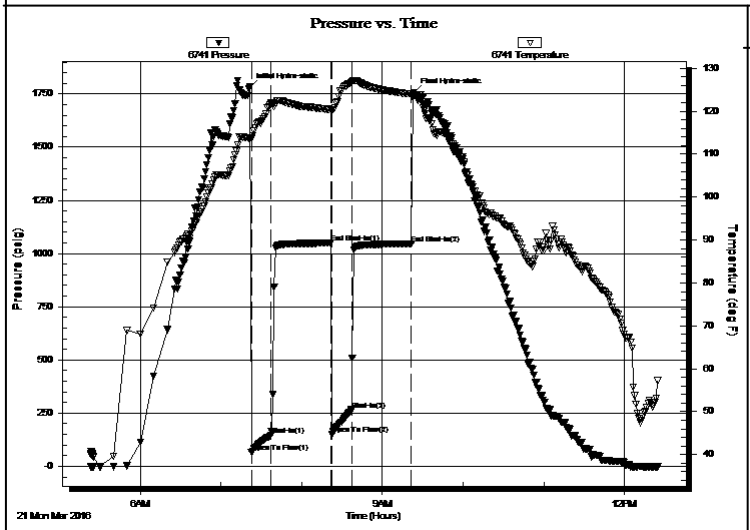
Reference Elevations: 1964.00 ft (KB)
1953.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 264.88 psig @ 3556.79 ft (KB)
Start Date: 2016.03.21 End Date: 2016.03.21
Start Time: 05:23:05 End Time: 12:24:29

Capacity: 8000.00 psig
Last Calib.: 2016.03.21
Time On Btm: 2016.03.21 @ 07:21:30
Time Off Btm: 2016.03.21 @ 09:23:30

TEST COMMENT: 15 minute IFP BOB in 3 minutes
45 minute ISI Blow back built to 2 1/2"
15 minute FFP BOB in 2 minutes 45 seconds
45 minute FSI Blow back buit to 6"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1781.74	113.74	Initial Hydro-static
1	67.07	113.70	Open To Flow (1)
16	144.59	121.79	Shut-In(1)
60	1048.68	120.38	End Shut-In(1)
61	148.46	120.17	Open To Flow (2)
76	264.88	126.74	Shut-In(2)
120	1045.96	123.97	End Shut-In(2)
122	1755.98	123.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	945' GIP	0.00
315.00	OCMW Oil 10% Mud 20% Water 70%	3.33
189.00	OCWM Oil 10% Water 40% Mud 50%	2.65
63.00	OCM Oil 5% Mud 95%	0.88

Gas Rates

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

DRILL STEM TEST REPORT

Downing Nelson Oil Company Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

25-18s-16w Rush,KS

Giesick #1-25

Job Ticket: 65084 **DST#: 2**

Test Start: 2016.03.21 @ 05:23:00

GENERAL INFORMATION:

Formation: **Reagan Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:22:30
Time Test Ended: 12:24:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 3482.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3560.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

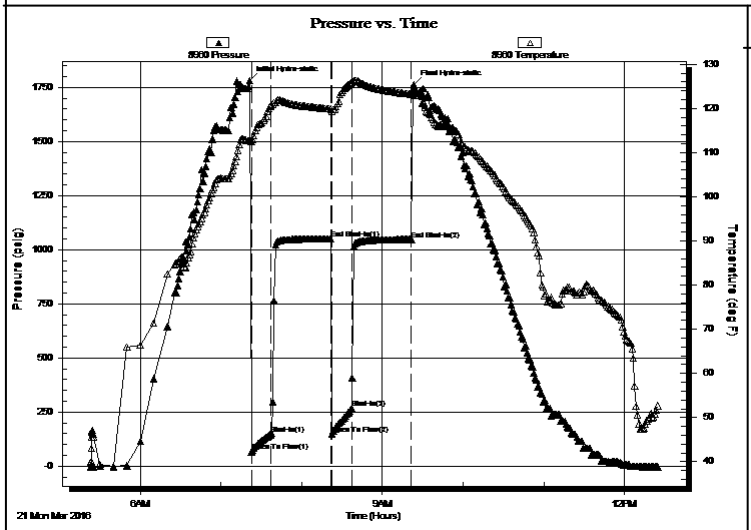
Reference Elevations: 1964.00 ft (KB)
1953.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8960 **Outside**

Press@RunDepth: 1047.75 psig @ 3557.79 ft (KB)
Start Date: 2016.03.21 End Date: 2016.03.21
Start Time: 05:23:05 End Time: 12:24:29

Capacity: 8000.00 psig
Last Calib.: 2016.03.21
Time On Btm: 2016.03.21 @ 07:21:30
Time Off Btm: 2016.03.21 @ 09:23:30

TEST COMMENT: 15 minute IFP BOB in 3 minutes
45 minute ISI Blow back built to 2 1/2"
15 minute FFP BOB in 2 minutes 45 seconds
45 minute FSI Blow back buit to 6"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.42	112.74	Initial Hydro-static
1	66.82	112.46	Open To Flow (1)
16	146.47	120.65	Shut-In(1)
60	1050.42	119.85	End Shut-In(1)
61	149.01	119.35	Open To Flow (2)
76	265.81	125.80	Shut-In(2)
120	1047.75	123.22	End Shut-In(2)
122	1763.54	123.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	945' GIP	0.00
315.00	OCMW Oil 10% Mud 20% Water 70%	3.33
189.00	OCWM Oil 10% Water 40% Mud 50%	2.65
63.00	OCM Oil 5% Mud 95%	0.88

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Company Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Dow ning

25-18s-16w Rush,KS

Giesick #1-25

Job Ticket: 65084 **DST#: 2**

Test Start: 2016.03.21 @ 05:23:00

Tool Information

Drill Pipe:	Length:	3373.00 ft	Diameter:	3.80 inches	Volume:	47.31 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:		50000.00 lb
					Total Volume:	47.90 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		31.00 ft					String Weight:	Initial	42000.00 lb
Depth to Top Packer:		3482.00 ft						Final	45000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		78.79 ft							
Tool Length:		98.79 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments: Ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3467.00		
Hydraulic tool	5.00			3472.00		
Top Packer	5.00			3477.00		
Packer	5.00			3482.00	20.00	Bottom Of Top Packer
Anchor	7.00			3489.00		
Change Over Sub	1.00			3490.00		
Drill Pipe	31.79			3521.79		
Change Over Sub	1.00			3522.79		
Anchor	33.00			3555.79		
Recorder	1.00	6741	Inside	3556.79		
Recorder	1.00	8960	Outside	3557.79		
Bullnose	3.00			3560.79	78.79	Anchor Tool
Total Tool Length:	**98.79**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

25-18s-16w Rush,KS

Giesick #1-25

Job Ticket: 65084 **DST#: 2**

Test Start: 2016.03.21 @ 05:23:00

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:	38000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

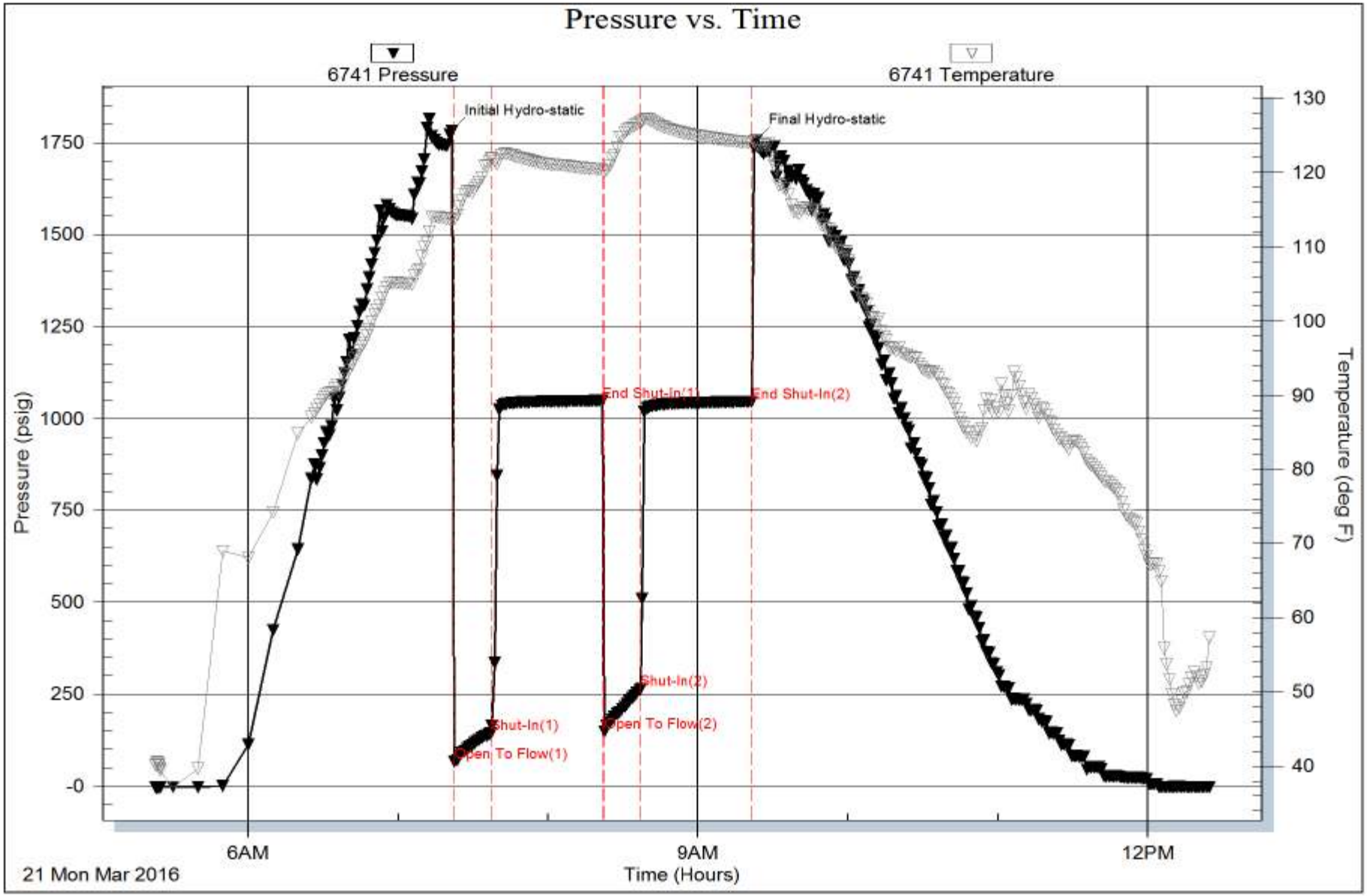
Recovery Table

Length ft	Description	Volume bbl
0.00	945' GIP	0.000
315.00	OCMW Oil 10% Mud 20% Water 70%	3.325
189.00	OCWM Oil 10% Water 40% Mud 50%	2.651
63.00	OCM Oil 5% Mud 95%	0.884

Total Length: 567.00 ft Total Volume: 6.860 bbl

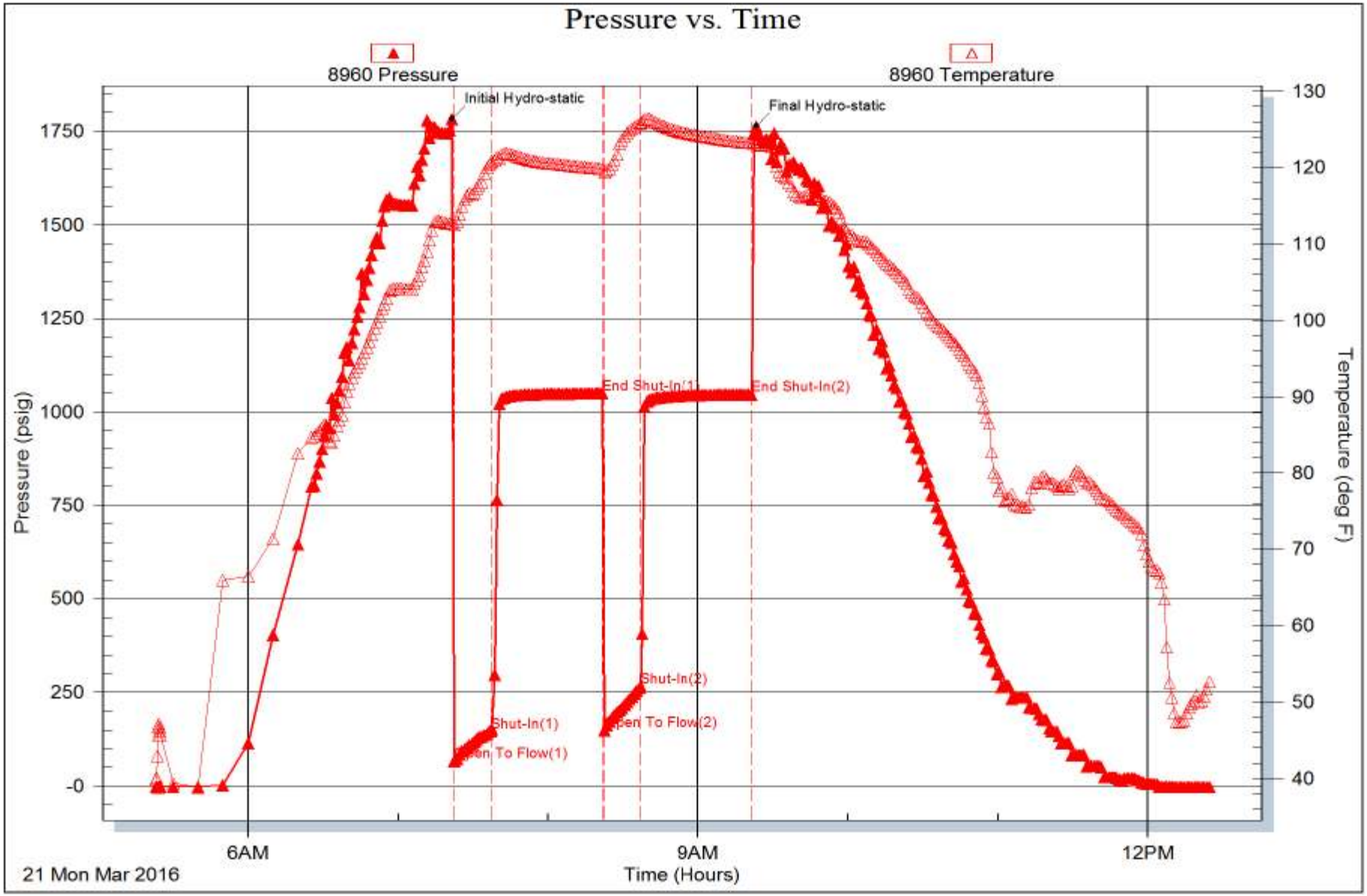
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6741 **Inside** Dow ning Nelson Oil Company Inc Giesick #1-25 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65084 Printed: 2016.03.21 @ 16:43:52

Serial #: 8960 **Outside** Dow ning Nelson Oil Company Inc Giesick #1-25 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65084 Printed: 2016.03.21 @ 16:43:52

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 65083

Well Name & No. Giesick 1-25 Test No. 1 Date 20 MAR 16

Company Downing Nelson Oil Company Inc. Elevation 1964 KB 1953 GL

Address PO Box 1019 Hays Kansas 67601

Co. Rep / Geo. Marc Downing Rig Integrety Rig 7

Location: Sec. 25 Twp. 18S Rge. 16W Co. Rush State KS

Interval Tested 3501 - 3560 Zone Tested Reagan Sand

Anchor Length 59 Drill Pipe Run 3373 Mud Wt. 9.3

Top Packer Depth 3496 Drill Collars Run 120 Vis 50

Bottom Packer Depth 3501 Wt. Pipe Run — WL 7.2

Total Depth 3560 Chlorides 4500 ppm System LCM 3#

Blow Description No packer seat first set / pull up fill hole / No packer seat on reset

Rec 180	Feet of Mud	%gas	%oil	%water 100	%mud
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 180 BHT 110 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 1789	☑ Test 850	T-On Location 9:57 pm
(B) First Initial Flow	☐ Jars	T-Started 11:35 pm
(C) First Final Flow	☐ Safety Joint	T-Open 2:16 am
(D) Initial Shut-In	☐ Circ Sub	T-Pulled 2:30 am
(E) Second Initial Flow	☐ Hourly Standby	T-Out 5:00 am
(F) Second Final Flow	☑ Mileage 36 27	Comments
(G) Final Shut-In	☐ Sampler	
(H) Final Hydrostatic	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	☐ Extra Recorder	Sub Total 0
Final Flow	☐ Day Standby	Total 877
Final Shut-In	☐ Accessibility	MP/DST Disc't
	Sub Total 877	

Approved By ____ Our Representative ____

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 65084

Well Name & No. Giesick 1-25 Test No. 2 Date 21 MAR 16

Company Downing Nelson Oil Company Inc Elevation 1964 KB 1953 GL

Address PO Box 1019 Hays Kansas 67601

Co. Rep / Geo. Marc Downing Rig Integrety Rig 7

Location: Sec. 25 Twp. 18S Rge. 16W Co. Rush State KS

Interval Tested 3482-3560 Zone Tested Reagan Sand

Anchor Length 78 Drill Pipe Run 3373 Mud Wt. 9.3

Top Packer Depth 3477 Drill Collars Run 120 Vis 50

Bottom Packer Depth 3482 Wt. Pipe Run — WL 7.2

Total Depth 3560 Chlorides 4500 ppm System LCM 3#

Blow Description Initial flow blow built to bottom of bucket in 3 minutes

Initial shut in blow back built to 2½ inches

Final flow blow built to bottom of bucket in 2 minutes 45 seconds

Final shut in blow back built to 6 inches

Rec 945	Feet of Gas in pipe	100 %gas	%oil	%water	%mud
Rec 315	Feet of Oil cut Muddy Water	%gas	10 %oil	70 %water	20 %mud
Rec 189	Feet of Oil cut watery mud	%gas	10 %oil	40 %water	50 %mud
Rec 63	Feet of Oil cut mud	%gas	5 %oil	%water	95 %mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 567 BHT 127 Gravity ____ API RW .7 @ 63 °F Chlorides 38,000 ppm

(A) Initial Hydrostatic 1781	☑ Test 1050	T-On Location ____
(B) First Initial Flow 67	☐ Jars ____	T-Started 5:23 am
(C) First Final Flow 144	☐ Safety Joint ____	T-Open 7:22 am
(D) Initial Shut-In 1048	☐ Circ Sub ____	T-Pulled 9:22 am
(E) Second Initial Flow 148	☐ Hourly Standby ____	T-Out 12:25
(F) Second Final Flow 264	☑ Mileage 36	Comments ____
(G) Final Shut-In 1045	☐ Sampler ____	
(H) Final Hydrostatic 1755	☐ Straddle ____	☐ Ruined Shale Packer ____
	☐ Shale Packer ____	☑ Ruined Packer 320
Initial Open 15	☐ Extra Packer ____	☐ Extra Copies ____
Initial Shut-In 45	☐ Extra Recorder ____	Sub Total 320
Final Flow 15	☐ Day Standby ____	Total 1370
Final Shut-In 45	☐ Accessibility ____	MP/DST Disc't ____
	Sub Total 1050	

Approved By ____ Our Representative ____

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

Operator **Downing-Nelson Oil Co., Inc.**

Lease **Giesick** No. **1-25**

API # **15-165-22126-0000**

Field **Otis-Albert**

Location **1035' FSL & 335' FEL**

Sec. **25** Twp. **18s** Rge. **16w**

County **Rush** State **Kansas**

Elevation **1965**
KB
DF
GL **1946**

Casing Record
Surface
8 5/8" @ 971'
Production
5 1/2" @ 3552'

Electrical Surveys
GN

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	960	NA	+1005	FL
Base Anhydrite	NA	NA	NA	-1
Topeka	2948	2945	-980	FL
Heebner	3197	3292	-1327	-3
Toronto	3213	3207	-1242	-3
Douglas Sh	3228	3223	-1258	-1
Brown Lime	3262	3258	-1293	-2
LKC	3278	3274	-1309	-3
BKC	3503	3498	-1533	-6
Reagan Sand	3553	NA	-1588	+15
Total Depth	3560	3553	-1588	

Reference Well For Structural Comparison **Schernerhorn Drilling**
Giesick #3 **C S/2 SE** **Sec. 25-18s-15w**

Drilling Contractor	**Integrity Drilling, Rig #7**		
Commenced	**3-15-16**	Completed	**3-21-16**
Samples Saved From	**3200**	To	**RTD**
Drilling Time Kept From	**2850**	To	**RTD**
Samples Examined From	**3200**	To	**RTD**
Geological Supervision From	**2850**	To	**RTD**

Summary and Recommendations

Due to structural position, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion.

Respectfully Submitted,

Marc A. Downing