KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1093588

Form ACO-1
June 2009
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: Ron Nelson
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Ron Nelson
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
☐ Conv. to GSW

☐ Plug Back: Plug Back Total Depth
☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

08/16/2012	08/24/2012	08/25/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-193-20855-00-00
Spot Description:
NW - SE - NE - NW Sec. 28 Twp. 9 S. R. 31 ☐ East ☑ West
925 Feet from ☑ North / ☐ South Line of Section
2180 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW

County: Thomas
Lease Name: Ostmeyer Farms Well #: 1-28
Field Name: Wildcat
Producing Formation: None
Elevation: Ground: 3037 Kelly Bushing: 3045
Total Depth: 4713 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 305 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: 14000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated

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

☐ **Letter of Confidentiality Received**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Deanna Garrison **Date:** 10/31/2012

Side Two

1093588

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Ostmeyer Farms Well #: 1-28

Sec. 28 Twp. 9 S. R. 31 ☐ East ☑ West County: Thomas

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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

Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

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

Name	Top	Datum
Attached	Attached	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 Pipe	12.25	8.625	23	305.38	Common	185	2% Gel & 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

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:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Ostmeyer Farms 1-28
Doc ID	1093588

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Neutron Density

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Ostmeyer Farms 1-28
Doc ID	1093588

Tops

Name	Top	Datum
Top Anhydrite	2633	+412
Base Anhydrite	2664	+381
Topeka	3835	-790
Heebner	4047	-1007
LKC	4086	-1042
BKC	4356	-1311
Marmaton	4389	-1344
Pawnee	4474	-1429
Myrick Station	4524	-1479
Fort Scott	4544	-1499
Cherokee Shale	4574	-1529
Johnson Zone	4618	-1573
Mississippi	4650	-1605

CONSOLIDATED Oil Well Services, LLC

TICKET NUMBER 37101
LOCATION Oakley, KS
FOREMAN Mike Shaw
Fuzzy McCullick

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

2241

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-16-12	~~9999~~	Ostmeyer Farms #128	28	9S	31W	Thomas KS

CUSTOMER: Downing & Nelson

MAILING ADDRESS:

CITY | STATE | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
463	Cory D		
460	Cody K Travis W		

JOB TYPE Surface | HOLE SIZE 12 1/4 | HOLE DEPTH 306' | CASING SIZE & WEIGHT 8 5/8 23#
CASING DEPTH 305.38' | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.8 | SLURRY VOL 1.36 | WATER gal/sk | CEMENT LEFT In CASING 20'
DISPLACEMENT 18bbls | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safety meeting and rig upon. Discovery drilling #1 Circulate casing Mix 180 common Class "A" cement with 3% Calcium and 2% gel. Displaced 18bbls Water Shut in Cement did Circulate Approx 8bbls to pit

Thanks Mike & Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S		PUMP CHARGE	1085.00	1085.00
5406	10	MILEAGE	5.00	50.00
5407	8.46 Tons	Ton Mileage delivery min	410.00	410.00
1104S	180 SKS	Class "A" Cement	17.65	3177.00
1102	507#	Calcium Chloride	.89	451.23
1118B	338#	Bentonite gel	.25	84.50
			Subtotal	5257.73
			less 10% discount	525.77
			Subtotal	4731.96
			SALES TAX	243.93
			ESTIMATED TOTAL	4975.89

Completed

Ravin 3737

AUTHORIZTION Chad Mayfield TITLE Toolpusher DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 37117
LOCATION Oakley KS
FOREMAN Kelly Gabel

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-24-12	2241	Ostmeyer Farms 1-28	28	9	31	Thomas KS

CUSTOMER: Downing Nelson
MAILING ADDRESS:
CITY: | STATE: | ZIP CODE:

Oakley N to RD 34 E to RD 33 1 N E into

TRUCK #	DRIVER	TRUCK #	DRIVER
399	Jerry G		
566	Cody R		
	Mike	Ride along	

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4713 CASING SIZE & WEIGHT
CASING DEPTH DRILL PIPE TUBING OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING
DISPLACEMENT DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety meeting, rigged up on discovery drilling Rig # 1 mixed cement plug's & displaced down
25 SKS @ 2650
100 SKS @ 1820
40 SKS @ 360
10 SKS @ 40
30 RH
15 MH

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1325.00	1325.00
5406	15	MILEAGE	5.00	75.00
1131	220 SKS	60/40 POZ	15.10	3322.00
1118B	757 #	Bentonite	.25	189.25
M07	55 #	Flo-Seal	2.82	155.10
5407	9.46	Ton Mileage	1.07	410.00
4432	1	8 5/8 Wooden Plug	96.00	96.00
		Lead 1083 diec		5572.35
				557.24
				5015.11
			SALES TAX	247.19
			ESTIMATED TOTAL	5262.30

Ravin 3737
1:00 AM 8-25-12
AUTHORIZTION Cliff Mayfield TITLE Tool Pusher DATE 8-24-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

252354

Marc Downing

Consulting Petroleum Geologist
1411 Washington Circle
Hays, Ks 67601
Phone: 620-428-1356 (cell) 785-621-2286

GEOLOGIC REPORT LOG

COMPANY Downing-Nelson Oil Co, Inc.

WELL Ostmeyer Farms #1-29

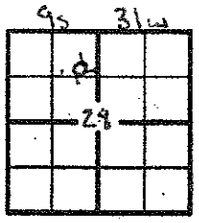
FIELD Wildcat

LOCATION 925' FNL + 2190' FWL

SEC. 29 TWP. 9s RGE. 31w

COUNTY Thomas

STATE Kansas



PRODUCTION D&A

ELEVATION KB 3045'
DF
GL 3037'

Drilling Measured From: KB

Samples Saved From 4000 To: TD

Drilling Time From 3700 To: TD

Samples Examined From: 4000 To: TD

Geological Supervision From 3700 To Total Depth

Wellsite Geologist Marc Downing; R. Nelson

Electrical Surveys Superime - Dual Ind; Density-Neutron; Micro; Sonic

OPERATOR DNOCI

CONTRACTOR Discovery Drilling, Rig #1

COMM: 8-16-12 COMP: 8-24-12

CASING RECORD

SURF: 8 5/8" @ 305' PROD: D&A

TOTAL DEPTH DRILLERS: 4713'

TOTAL DEPTH LOG 4712'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	2632	2633	+412	-17
Base Anhydrite	2667	2664	+381	-18
Topeka	3837	3835	-790	-4
Heebner	4049	4047	-1002	-2
Lansing	4087	4086	-1041	-4
BKC	4357	4356	-1311	FL
Marmaton	4390	4389	-1344	-3
Pawnee	4475	4474	-1429	-4
Myrick Station	4524	4524	-1479	-4
Ft Scott	4544	4544	-1499	FL
Cherokee Shale	4575	4574	-1529	-2
Johnson Zone	4618	4618	-1573	-4
Mississippi	4651	4650	-1605	-2

REFERENCE WELL FOR STRUCTURE DNOCI's Producing Hockersmith-Robben @ 1320' FSL & 1945' FWL 29-9-31

DAILY PENETRATION		BIT RECORD						
DATE	DEPTH	NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOU

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS B	LOG ANALYSIS S W

DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHH-FHH	RECOVERY

REMARKS AND RECOMMENDATIONS THIS WELL DID NOT RUN AS HIGH STRUCTURALLY AS EXPECTED (STARTED LOW ON ANHYDRITE). DST #3 WAS CLOSE TO A PRODUCER BUT DID NOT LOOK GOOD ON LOG. Plugged

Ron Nelson

7515

LEGEND

Limestone
Ool.Lime
Chert
Dolomite
Carb sh
Shale
Sandstone
Salt
Anhydrite

REMARKS

OIL SHOWS

SAMPLE DESCRIPTIONS

LITHOLOGY

DEPTH 3700

50

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases
5" 10" 15" 20" 25"

LOG 7710

3800

50

3900

50

4000

50

Sh: Black Carb

Sh: brn wl gry

LS: wht, md-fn xln, Few sml Foss. Fr int xln ✱, v chlky. NS.

Sh: brn wl some red.

LS: wht md xln many foss & ool. Fr int xln ✱, sub xln chlky 3-4 rx wl dead blk stn, NSFO, No Od. Rx long fn sme xln wl org & wht cht ◇.

4100

Sh: drk gry-blk

Sh: brn wl gry. Washes slt lg red.

LS: wht, md xln, many frag foss, pr-Fr ppx wl dead blk stn, dkn. NSFO, No Od.

Sh: gry

LS: wht, fn-md xln, scat foss. ppx & tite, 2-3 bx wl v hvy stn, blk-tarry NSFO, No Od

LS: wht, fn sme xln. gd int xln Fr amt sub xln chlky rx. All NS

Sh: gry

LS: wht, fn-md xln, ppx, tite. NS.

Sh: gry

LS: wht, fn-md xln, Few sml Foss, Fr int Foss ✱, many sub xln-chlky rx. NS. No Od.

Sh: gry

LS: wht md xln, Foss Fr int xln ✱, blk hvy-tarry stn. No Od.

4200

LS: wht-lt gry fn-vfn xln, v dns, No viss ✱. Fr amt tan dkp cht ◇, All NS.

Sh: Black Carb

Sh: gry

LS: wht, fn xln, mostly ppx, few sml foss. Scat sub xln rx, NS. Poss v fnt Od.

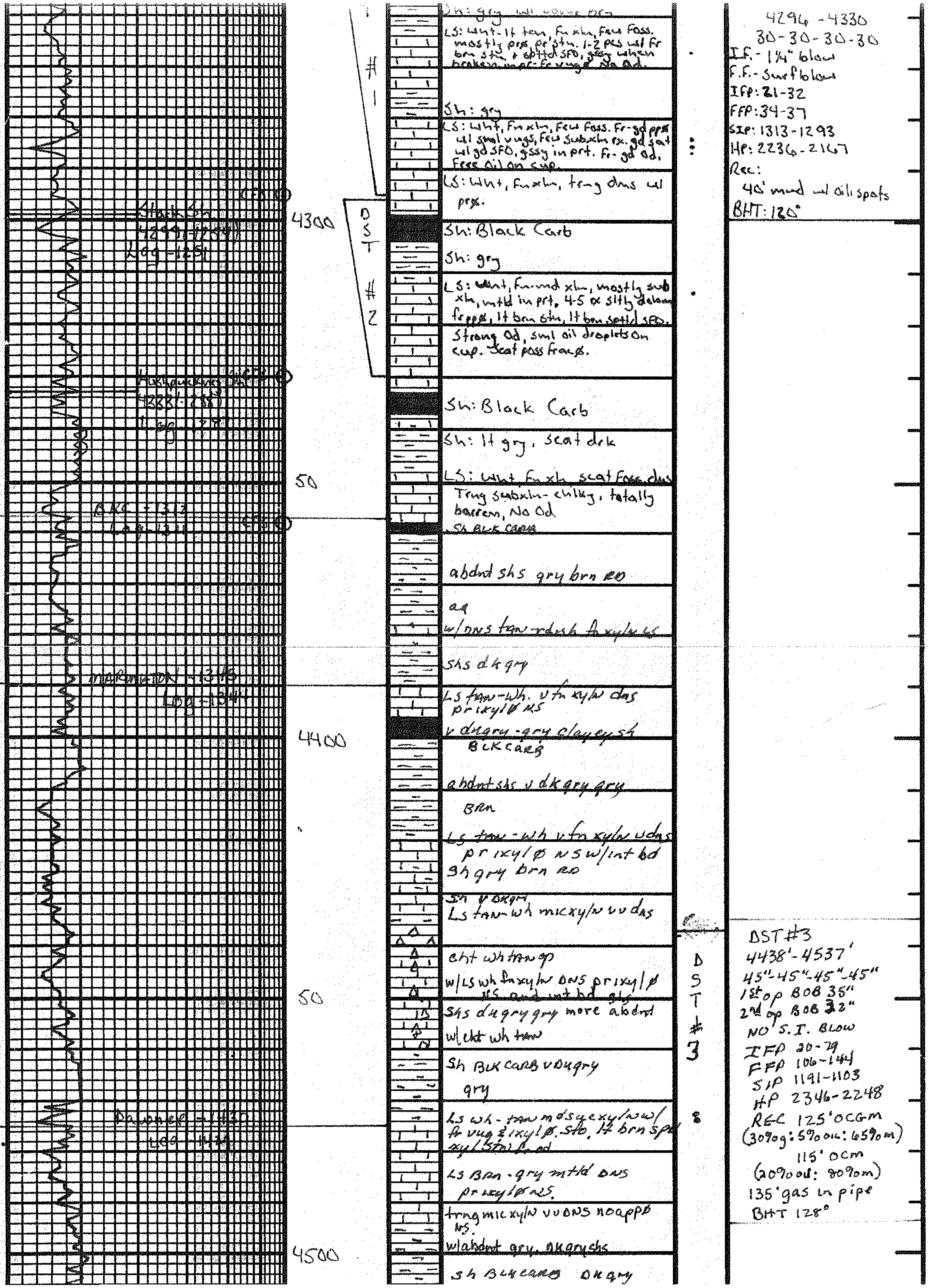
Sh: gry

50

Vis: 70 Wt: 8.6

DST #1
4244-4295
45-45-45-45
I.F.- 2" blow
F.F.- Surf
IFP: 16-33
FFP: 35-42
SIP: 1288-1259
HP: 2161-2151
Rec:
55' mud wl oil spts.
BHT: 120°

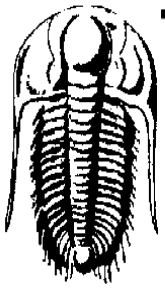
Vis: 53 Wt: 9.9


4296 - 4330
30-30-30-30
I.F. - 1¼" blow
F.F. - Surf blow
IFP: 21-32
FFP: 34-37
SIP: 1313-1293
HP: 2236-2167
Rec:
40' mud w/ oil spots
BHT: 120°
DST #1
DST #2
LS: Wht-lt tan, Fn xln, Few Foss. mostly prs pr'gtn. 1-2 pcs w/ Fr brn stn & sbttd SFO, gssy when broken. Fr vugs. No Od.
Sh: gry
LS: Wht, Fn xln, Few Foss. Fr-gd pp ø w/ smal vugs, Few Subxln ex. gd sat w/ gd SFO, gssy in prt. Fr-gd Od, Free Oil on cup.
LS: Wht, Fn xln, trng dns w/ prx.
Sh: Black Carb
Sh: gry
LS: Wht, Fn-md xln, mostly sub xln, mtld in prt, 4-5 ex slty dolom fr pp ø, lt brn stn, lt brn sattd SFO.
Strong Od, sml oil droplets on cup. Scat poss frac ø.
Sh: Black Carb
Sh: lt gry, scat dck
LS: Wht, Fn xln, scat Foss. dns
Trng subxln-chlky, totally barren, No Od.
Sh BLK CARB
abdnt shs gry brn RO
aa
w/ DNS tan-rdsh fn xyln LS
shs dk gry
LS tan-wh. v fn xyln dns pr ixyl ø NS
v dkgry-gry clayey sh
BLK CARB
abdnt shs v dk gry gry
BRN
LS tan-wh v fn xyln udns pr ixyl ø NS w/ int bd
Sh gry brn RO
Sh v DKGRY
LS tan-wh micxyln vv dns
cht wh tan op
w/ LS wh fn xyln DNS pr ixyl ø NS
Shs dk gry gry more abdnt
w/ cht wh tan
Sh BLK CARB v DK gry
gry
LS wh-tan mdsucxyln w/ fr vug & ixyl ø. Stn. lt brn spt xyl stn fr od
LS Brn-gry mtld DNS pr ixyl ø NS.
trng micxyln vv DNS no app ø NS.
w/ abdnt gry. DK gry shs
Sh BLK CARB DK gry
Stark Sh
4299 (-1284)
Log -1251
Hushpuckney Sh
4333 (-1287)
Log -1278
BKC -1313
Log -1318
Marmaton -1346
Log -1341
Pawnee -1430
Log -1434
4300
50
4400
50
4500
DST #3
4438'-4537'
45"-45"-45"-45"
1st op BOB 35"
2nd op BOB 33"
NO S.I. BLOW
IFP 20-79
FFP 106-144
SIP 1191-1103
HP 2346-2248
REC 125' OCGM
(30% g: 5% oil: 65% m)
115' OCM
(20% oil: 80% m)
135' gas in pipe
BHT 128°

5" 10" 15" 20" 25" DRILLING TIME Minutes/Foot Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS

CONTRACTOR DNOC, Inc.
LEASE Ostmeyer Farms #1-28 IP D&A
ELEVATION 3045' KB RTD 4713'

LOCATION 925' FNL & 2180' FWL
SEC 28 TWP 9s RNG 31w
COUNTY THOMAS STATE KANSAS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co. Inc.**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Ostmeyer #1-28

28-9s-31w Thomas,KS

Start Date: 2012.08.21 @ 05:40:00
End Date: 2012.08.21 @ 12:50:30
Job Ticket #: 48877 DST #: 1

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

Printed: 2012.08.28 @ 11:07:43

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48877 **DST#: 1**

Test Start: 2012.08.21 @ 05:40:00

GENERAL INFORMATION:

Formation: **Kansas City "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:00:00
Time Test Ended: 12:50:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jace McKinney
Unit No: 46

Interval: 4244.00 ft (KB) To 4295.00 ft (KB) (TVD)
Total Depth: 4295.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

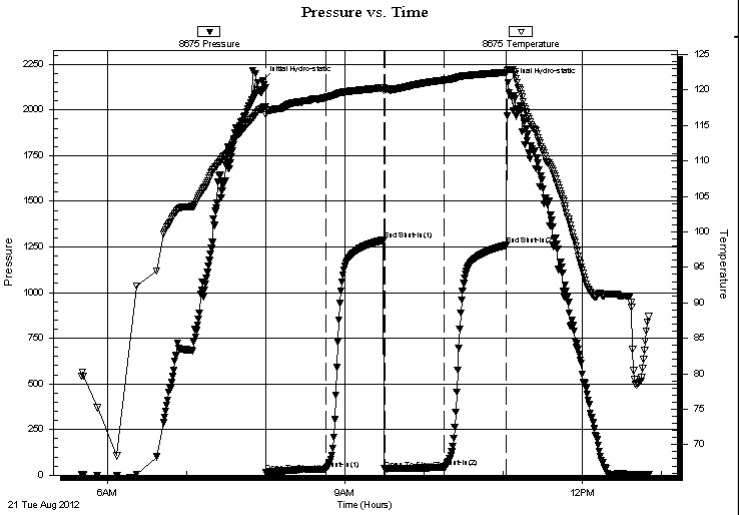
Reference Elevations: 3045.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8675 **Inside**

Press@RunDepth: 42.09 psig @ 4245.00 ft (KB)
Start Date: 2012.08.21 End Date: 2012.08.21
Start Time: 05:40:15 End Time: 12:50:30

Capacity: 8000.00 psig
Last Calib.: 2012.08.21
Time On Btm: 2012.08.21 @ 07:57:30
Time Off Btm: 2012.08.21 @ 11:03:30

TEST COMMENT: Built to 2" blow
No return blow
Weak surface blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.68	117.48	Initial Hydro-static
3	16.16	116.54	Open To Flow (1)
48	32.67	118.91	Shut-In(1)
92	1287.79	120.31	End Shut-In(1)
93	34.62	119.92	Open To Flow (2)
138	42.09	121.37	Shut-In(2)
185	1259.28	122.48	End Shut-In(2)
186	2150.58	122.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	100% Mud with oil spots in tool	0.50

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48877 **DST#: 1**

Test Start: 2012.08.21 @ 05:40:00

GENERAL INFORMATION:

Formation: **Kansas City "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:00:00
Time Test Ended: 12:50:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jace McKinney
Unit No: 46

Interval: 4244.00 ft (KB) To 4295.00 ft (KB) (TVD)
Total Depth: 4295.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

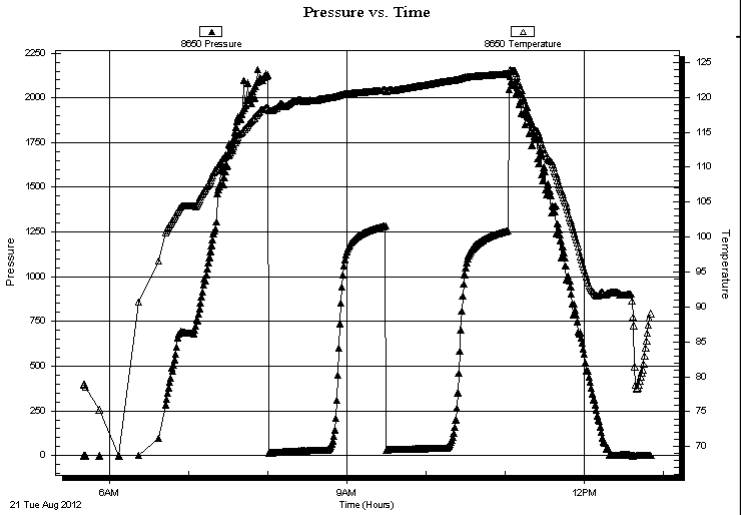
Reference Elevations: 3045.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8650 **Outside**

Press@RunDepth: psig @ 4245.00 ft (KB)
Start Date: 2012.08.21 End Date: 2012.08.21
Start Time: 05:40:15 End Time: 12:50:15

Capacity: 8000.00 psig
Last Calib.: 2012.08.21
Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 2" blow
No return blow
Weak surface blow
No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
55.00	100% Mud with oil spots in tool	0.50

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48877 **DST#: 1**

Test Start: 2012.08.21 @ 05:40:00

Tool Information

Drill Pipe:	Length:	4206.21 ft	Diameter:	3.80 inches	Volume:	59.00 bbl	Tool Weight:		1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	30.04 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		66000.00 lb
					Total Volume:	59.15 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		12.25 ft					String Weight:	Initial	54000.00 lb
Depth to Top Packer:		4244.00 ft						Final	55000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		51.00 ft							
Tool Length:		71.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4225.00		
Shut In Tool	5.00			4230.00		
Hydraulic tool	5.00			4235.00		
Packer	5.00			4240.00	20.00	Bottom Of Top Packer
Packer	4.00			4244.00		
Stubb	1.00			4245.00		
Recorder	0.00	8675	Inside	4245.00		
Recorder	0.00	8650	Outside	4245.00		
Perforations	14.00			4259.00		
Change Over Sub	1.00			4260.00		
Drill Pipe	31.00			4291.00		
Change Over Sub	1.00			4292.00		
Bullnose	3.00			4295.00	51.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48877 **DST#: 1**

Test Start: 2012.08.21 @ 05:40:00

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:	ppm
Viscosity:	70.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.57 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	300.00 ppm				
Filter Cake:	inches				

Recovery Information

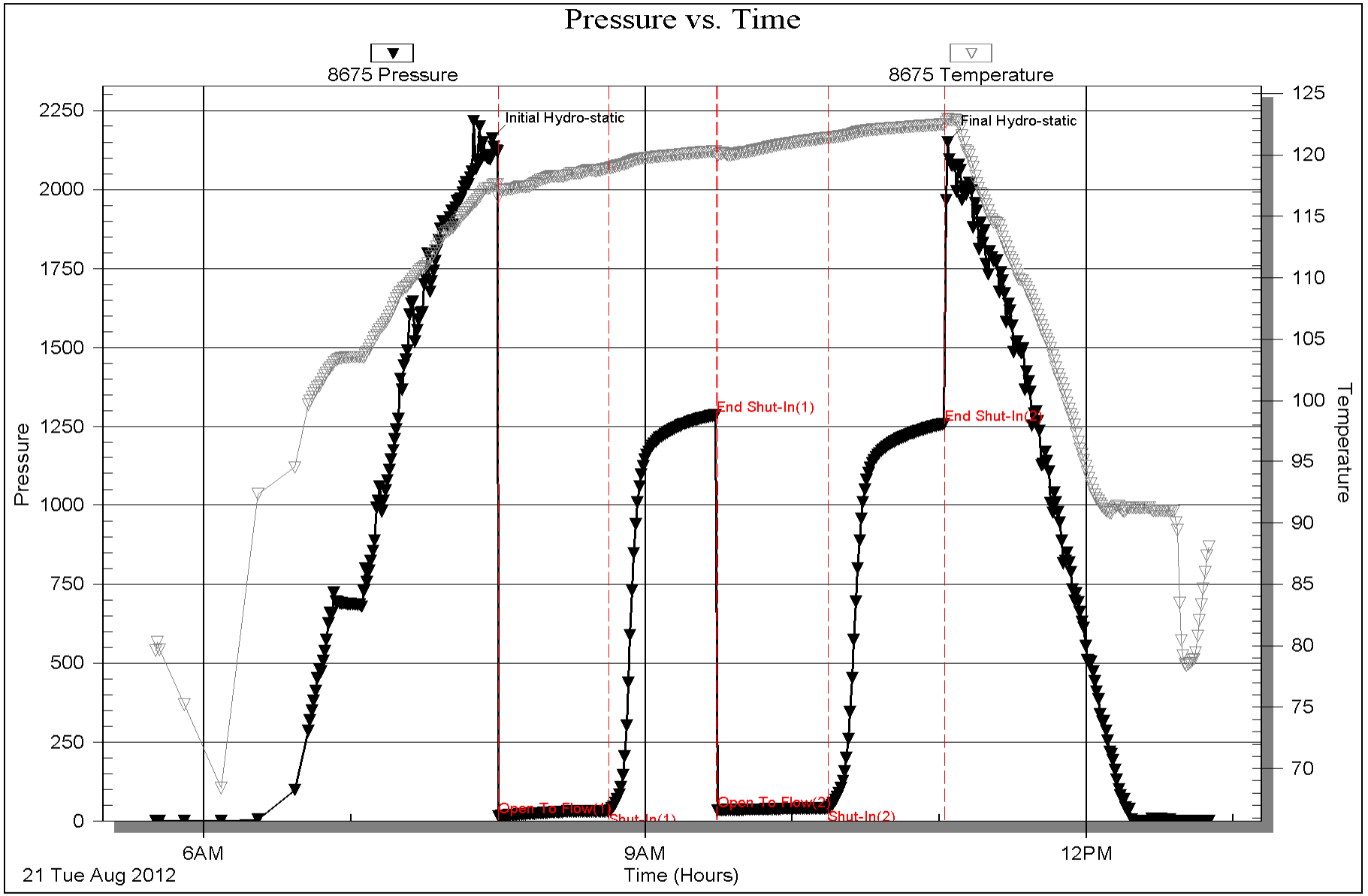
Recovery Table

Length ft	Description	Volume bbl
55.00	100% Mud with oil spots in tool	0.498

Total Length: 55.00 ft Total Volume: 0.498 bbl

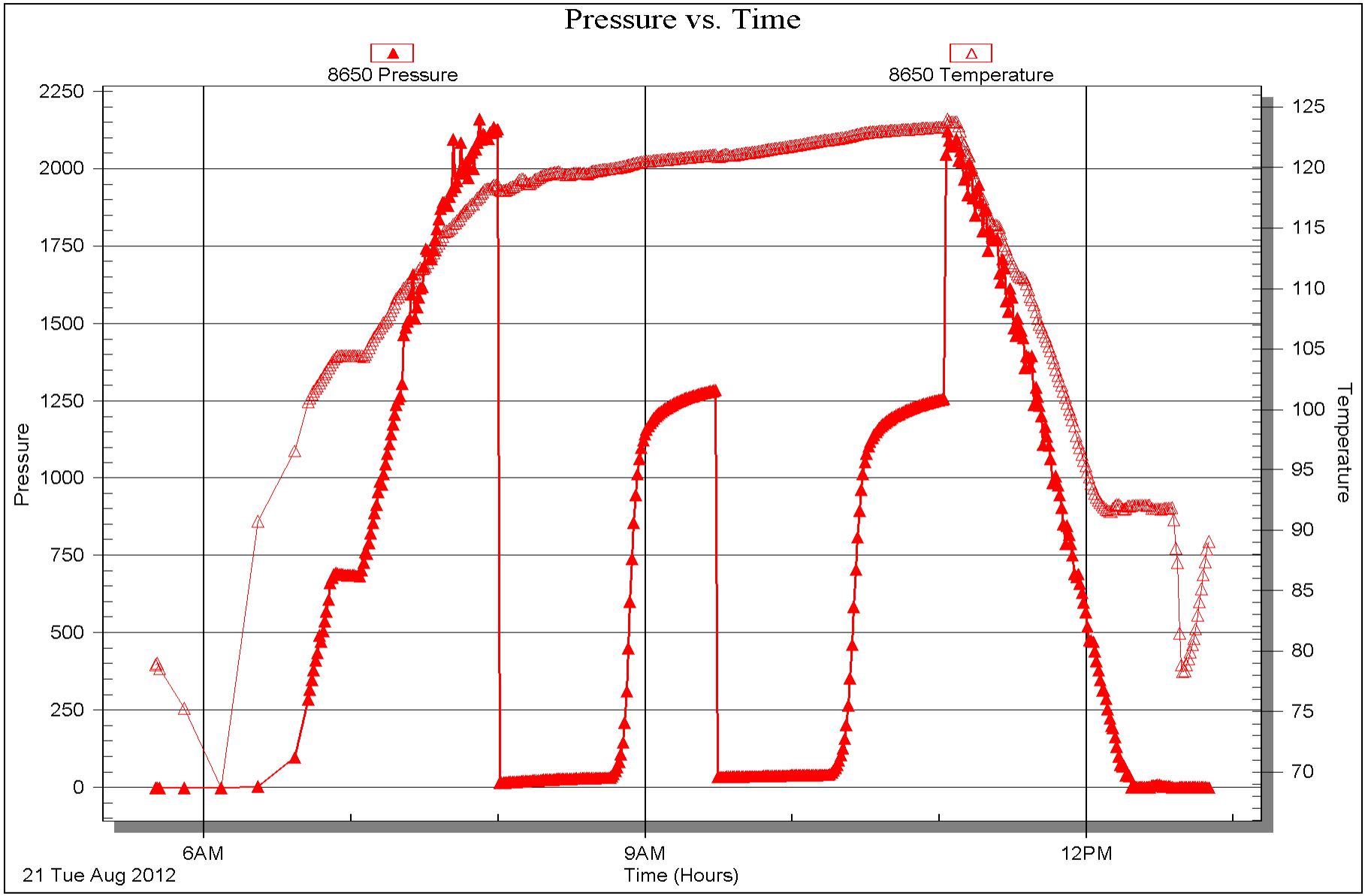
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8675 **Inside** Dow ning-Nelson Oil Co. Inc. Ostmeyer #1-28 DST Test Number: 1

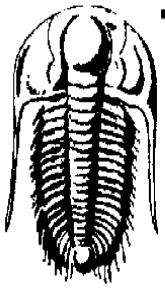


Trilobite Testing, Inc Ref. No: 48877 Printed: 2012.08.28 @ 11:07:48

Serial #: 8650 **Outside** Dow ning-Nelson Oil Co. Inc. Ostmeyer #1-28 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 48877 Printed: 2012.08.28 @ 11:07:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co. Inc.**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Ostmeyer #1-28

28-9s-31w Thomas,KS

Start Date: 2012.08.21 @ 21:45:00
End Date: 2012.08.22 @ 03:19:00
Job Ticket #: 48878 DST #: 2

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

Printed: 2012.08.28 @ 11:06:55

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48878 **DST#: 2**

Test Start: 2012.08.21 @ 21:45:00

GENERAL INFORMATION:

Formation: **Kansas City "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:35:30
Time Test Ended: 03:19:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 46

Interval: 4296.00 ft (KB) To 4330.00 ft (KB) (TVD)
Total Depth: 4330.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

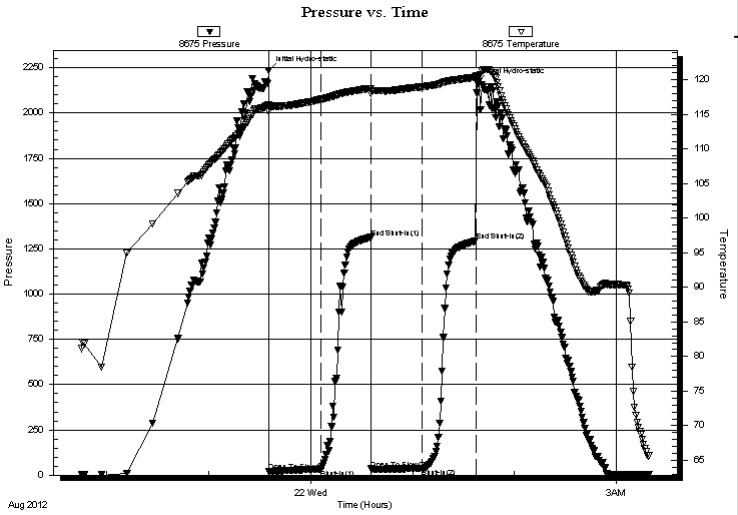
Reference Elevations: 3045.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8675 **Inside**

Press@RunDepth: 36.69 psig @ 4297.00 ft (KB)
Start Date: 2012.08.21 End Date: 2012.08.22
Start Time: 21:45:15 End Time: 03:19:00

Capacity: 8000.00 psig
Last Calib.: 2012.08.22
Time On Btm: 2012.08.21 @ 23:35:15
Time Off Btm: 2012.08.22 @ 01:38:00

TEST COMMENT: Built to 1 1/4" blow
No return blow
Weak surface blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.14	116.42	Initial Hydro-static
1	20.80	115.35	Open To Flow (1)
31	32.43	117.15	Shut-In(1)
60	1313.40	118.76	End Shut-In(1)
61	34.41	118.02	Open To Flow (2)
91	36.69	118.97	Shut-In(2)
122	1293.37	120.38	End Shut-In(2)
123	2167.46	120.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	100%Mud with oil spots in tool	0.29

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48878 **DST#: 2**

Test Start: 2012.08.21 @ 21:45:00

GENERAL INFORMATION:

Formation: **Kansas City "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:35:30
Time Test Ended: 03:19:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 46

Interval: 4296.00 ft (KB) To 4330.00 ft (KB) (TVD)
Total Depth: 4330.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

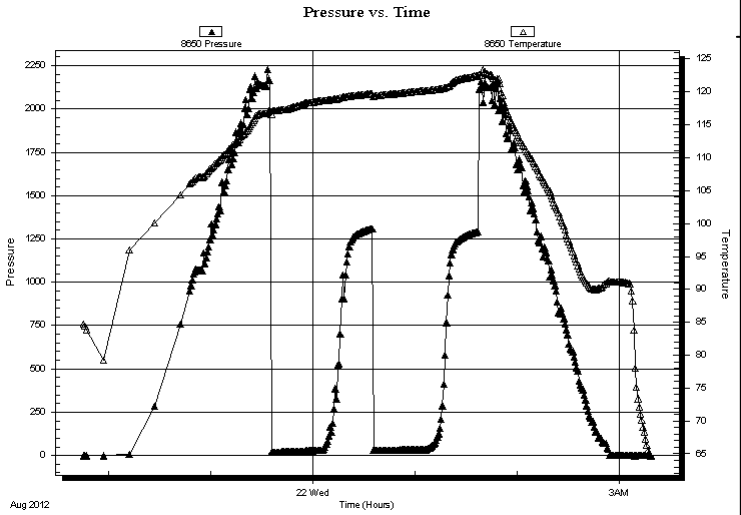
Reference Elevations: 3045.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8650 **Outside**

Press@RunDepth: psig @ 4297.00 ft (KB)
Start Date: 2012.08.21 End Date: 2012.08.22
Start Time: 21:45:15 End Time: 03:18:45

Capacity: 8000.00 psig
Last Calib.: 2012.08.22
Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 1 1/4" blow
No return blow
Weak surface blow
No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	100%Mud with oil spots in tool	0.29

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Dow ning

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48878 **DST#: 2**

Test Start: 2012.08.21 @ 21:45:00

Tool Information

Drill Pipe:	Length:	4269.35 ft	Diameter:	3.80 inches	Volume:	59.89 bbl	Tool Weight:		1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	30.04 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		75000.00 lb
					Total Volume:	60.04 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		23.39 ft					String Weight:	Initial	54000.00 lb
Depth to Top Packer:		4296.00 ft						Final	54000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		34.00 ft							
Tool Length:		54.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4277.00		
Shut In Tool	5.00			4282.00		
Hydraulic tool	5.00			4287.00		
Packer	5.00			4292.00	20.00	Bottom Of Top Packer
Packer	4.00			4296.00		
Stubb	1.00			4297.00		
Recorder	0.00	8675	Inside	4297.00		
Recorder	0.00	8650	Outside	4297.00		
Perforations	30.00			4327.00		
Change Over Sub	0.00			4327.00		
Drill Pipe	0.00			4327.00		
Change Over Sub	0.00			4327.00		
Bullnose	3.00			4330.00	34.00	Bottom Packers & Anchor
Total Tool Length:	**54.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48878 **DST#: 2**

Test Start: 2012.08.21 @ 21:45:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	500.00 ppm				
Filter Cake:	inches				

Recovery Information

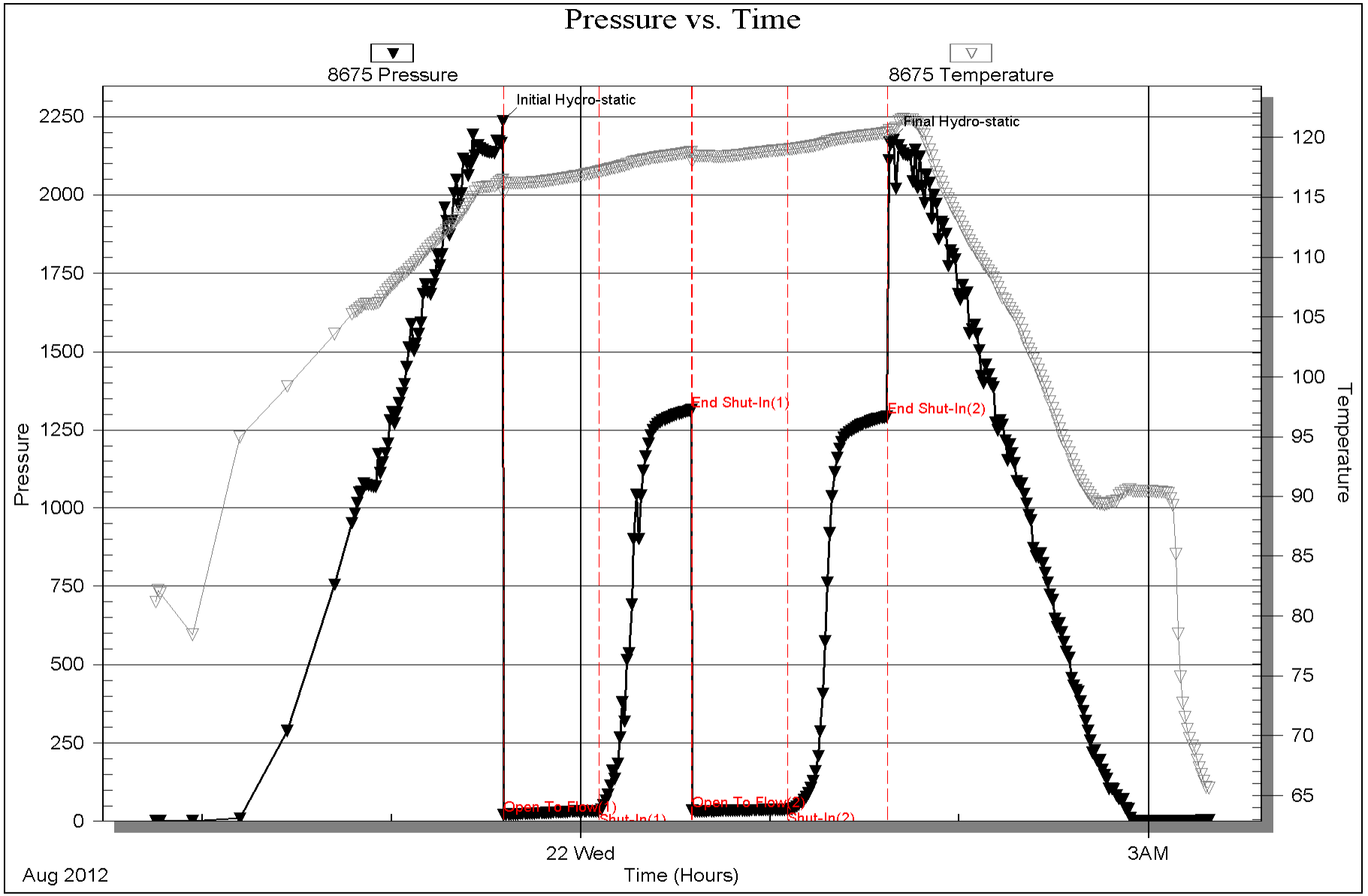
Recovery Table

Length ft	Description	Volume bbl
40.00	100%Mud with oil spots in tool	0.287

Total Length: 40.00 ft Total Volume: 0.287 bbl

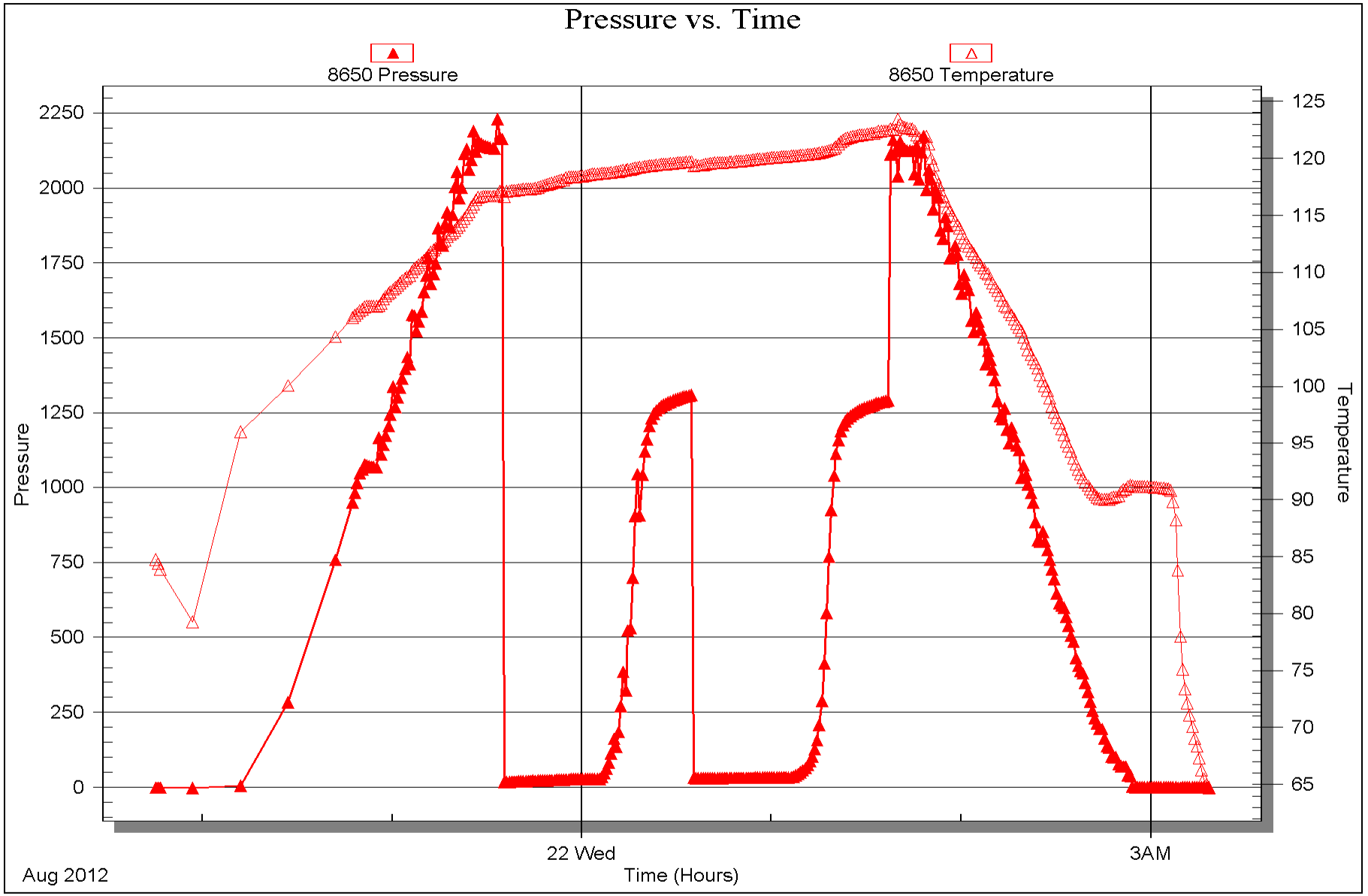
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8675 **Inside** Dow ning-Nelson Oil Co. Inc. Ostmeyer #1-28 DST Test Number: 2

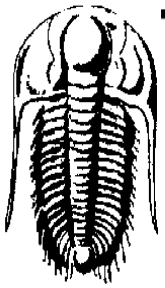


Trilobite Testing, Inc Ref. No: 48878 Printed: 2012.08.28 @ 11:06:59

Serial #: 8650 **Outside** Dow ning-Nelson Oil Co. Inc. Ostmeyer #1-28 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 48878 Printed: 2012.08.28 @ 11:07:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co. Inc.**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Ostmeyer #1-28

28-9s-31w Thomas,KS

Start Date: 2012.08.23 @ 00:40:00
End Date: 2012.08.23 @ 07:50:00
Job Ticket #: 48879 DST #: 3

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

Printed: 2012.08.28 @ 11:06:03

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48879 **DST#: 3**

Test Start: 2012.08.23 @ 00:40:00

GENERAL INFORMATION:

Formation: **Pawnee & Myric Stati**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:54:30
Time Test Ended: 07:50:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 46

Interval: 4438.00 ft (KB) To 4537.00 ft (KB) (TVD)
Total Depth: 4537.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

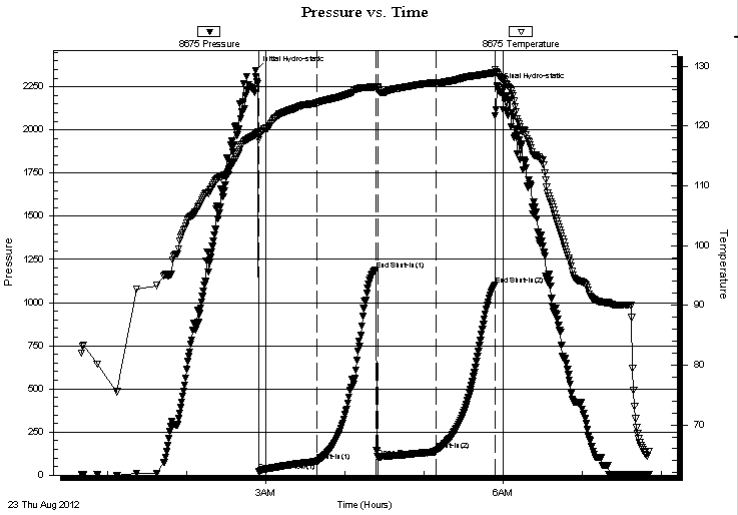
Reference Elevations: 3045.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8675 **Inside**

Press@RunDepth: 144.06 psig @ 4439.00 ft (KB)
Start Date: 2012.08.23 End Date: 2012.08.23
Start Time: 00:40:15 End Time: 07:50:00

Capacity: 8000.00 psig
Last Calib.: 2012.08.23
Time On Btm: 2012.08.23 @ 02:52:00
Time Off Btm: 2012.08.23 @ 05:55:00

TEST COMMENT: B.O.B. in 35 min.
Bled off for 5 min. No return blow
B.O.B. in 32 min.
Bled off for 5 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2345.88	118.53	Initial Hydro-static
3	19.71	117.71	Open To Flow (1)
47	79.46	123.84	Shut-In(1)
92	1191.13	126.55	End Shut-In(1)
93	106.03	126.30	Open To Flow (2)
138	144.06	127.19	Shut-In(2)
182	1103.42	128.91	End Shut-In(2)
183	2247.60	128.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	135 feet gas in pipe	0.00
125.00	ocgm 5%O 30%G 65%M	1.48
115.00	ocm 20%O 80%M	1.61

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48879 **DST#: 3**

Test Start: 2012.08.23 @ 00:40:00

GENERAL INFORMATION:

Formation: **Pawnee & Myric Stati**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:54:30
Time Test Ended: 07:50:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 46

Interval: 4438.00 ft (KB) To 4537.00 ft (KB) (TVD)
Total Depth: 4537.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

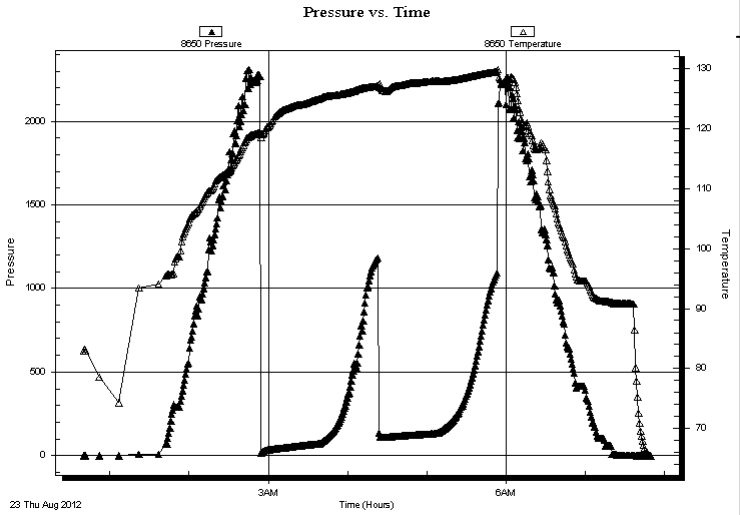
Reference Elevations: 3045.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8650 **Outside**

Press@RunDepth: psig @ 4439.00 ft (KB)
Start Date: 2012.08.23 End Date: 2012.08.23
Start Time: 00:40:15 End Time: 07:49:45

Capacity: 8000.00 psig
Last Calib.: 2012.08.23
Time On Btm:
Time Off Btm:

TEST COMMENT: B.O.B. in 35 min.
Bled off for 5 min. No return blow
B.O.B. in 32 min.
Bled off for 5 min. No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	135 feet gas in pipe	0.00
125.00	ocgm 5%O 30%G 65%M	1.48
115.00	ocm 20%O 80%M	1.61

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48879 **DST#: 3**

Test Start: 2012.08.23 @ 00:40:00

Tool Information

Drill Pipe:	Length:	4393.96 ft	Diameter:	3.80 inches	Volume:	61.64 bbl	Tool Weight:		1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	30.04 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		66000.00 lb
					Total Volume:	61.79 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight:	Initial	56000.00 lb
Depth to Top Packer:		4438.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		99.00 ft							
Tool Length:		119.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4419.00		
Shut In Tool	5.00			4424.00		
Hydraulic tool	5.00			4429.00		
Packer	5.00			4434.00	20.00	Bottom Of Top Packer
Packer	4.00			4438.00		
Stubb	1.00			4439.00		
Recorder	0.00	8675	Inside	4439.00		
Recorder	0.00	8650	Outside	4439.00		
Perforations	30.00			4469.00		
Change Over Sub	1.00			4470.00		
Drill Pipe	63.00			4533.00		
Change Over Sub	1.00			4534.00		
Bullnose	3.00			4537.00	99.00	Bottom Packers & Anchor
Total Tool Length:	**119.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48879 **DST#: 3**

Test Start: 2012.08.23 @ 00:40:00

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:	ppm
Viscosity:	66.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	inches				

Recovery Information

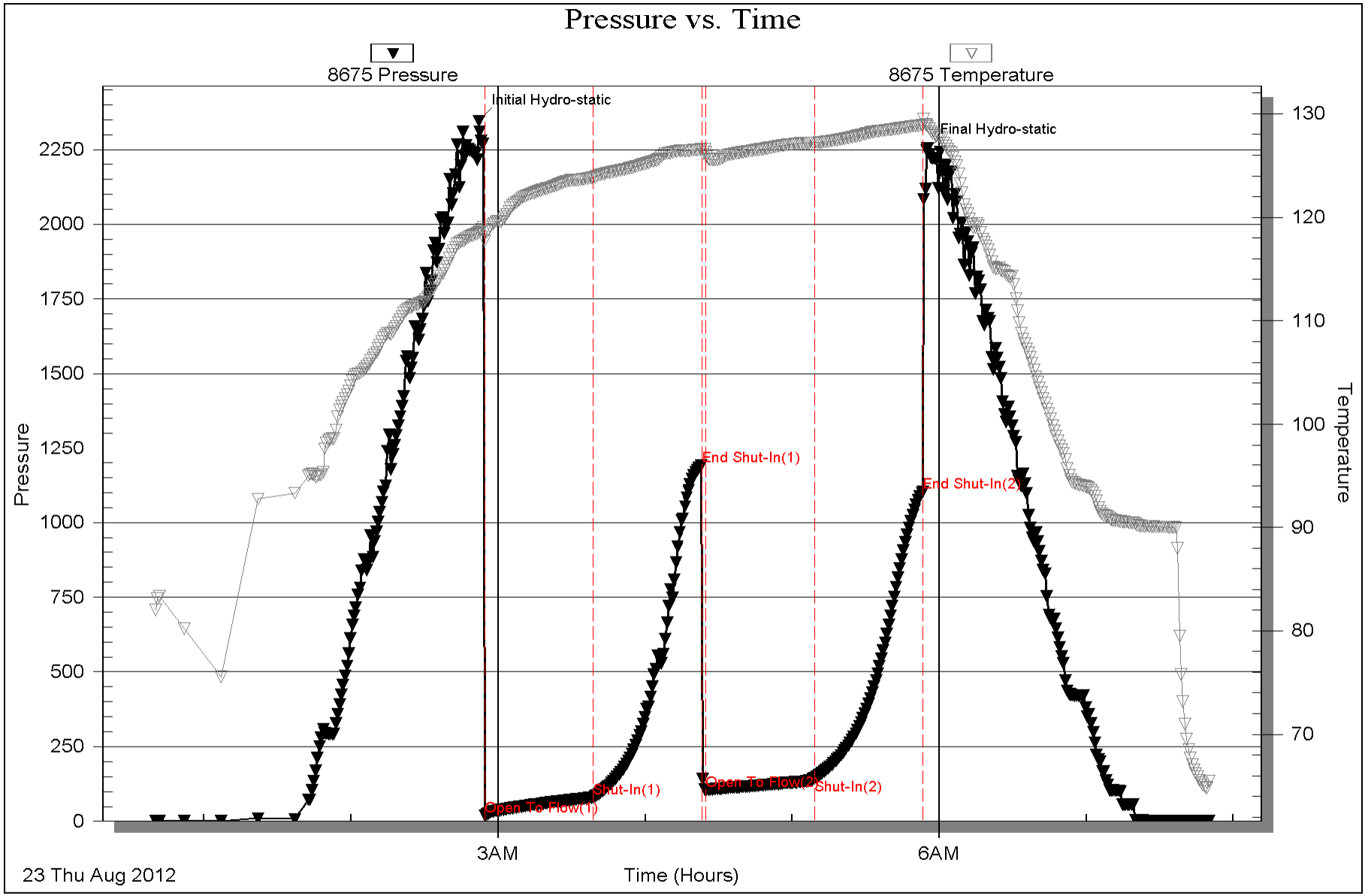
Recovery Table

Length ft	Description	Volume bbl
0.00	135 feet gas in pipe	0.000
125.00	ocgm 5%O 30%G 65%M	1.480
115.00	ocm 20%O 80%M	1.613

Total Length: 240.00 ft Total Volume: 3.093 bbl

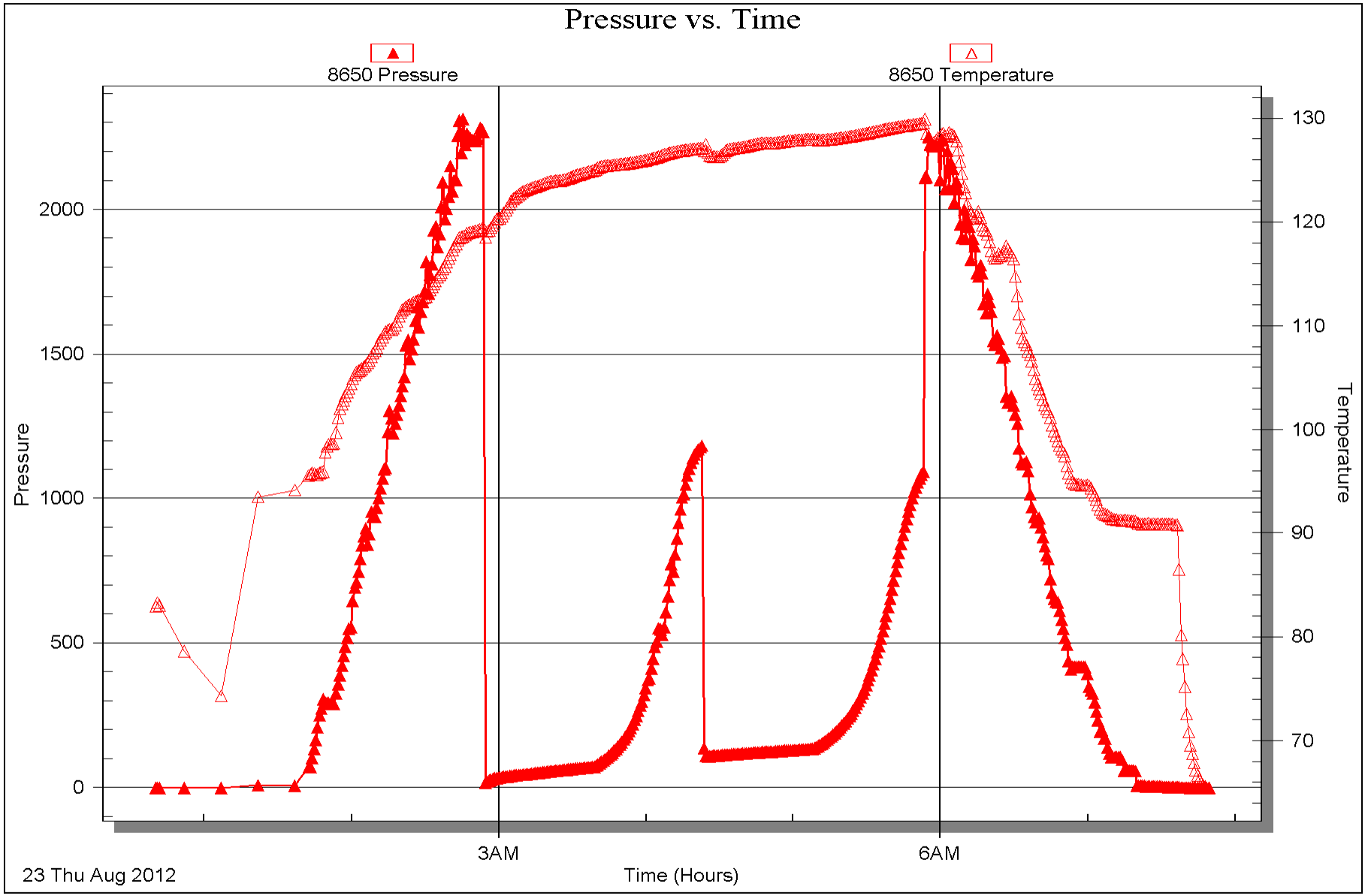
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8675 **Inside** Dow ning-Nelson Oil Co. Inc. Ostmeyer #1-28 DST Test Number: 3

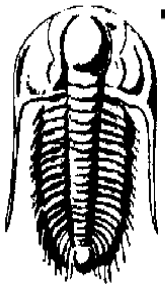


Trilobite Testing, Inc Ref. No: 48879 Printed: 2012.08.28 @ 11:06:07

Serial #: 8650 **Outside** Dow ning-Nelson Oil Co. Inc. Ostmeyer #1-28 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 48879 Printed: 2012.08.28 @ 11:06:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co. Inc.**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Ostmeyer #1-28

28-9s-31w Thomas,KS

Start Date: 2012.08.24 @ 10:15:00
End Date: 2012.08.24 @ 16:59:30
Job Ticket #: 48880 DST #: 4

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

Printed: 2012.08.28 @ 11:05:07

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48880 **DST#: 4**

Test Start: 2012.08.24 @ 10:15:00

GENERAL INFORMATION:

Formation: **Kansas City L - Marm**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:00:45
Time Test Ended: 16:59:30

Test Type: Conventional Straddle (Reset)
Tester: Jace McKinney
Unit No: 46

Interval: 4326.00 ft (KB) To 4485.00 ft (KB) (TVD)
Total Depth: 4713.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

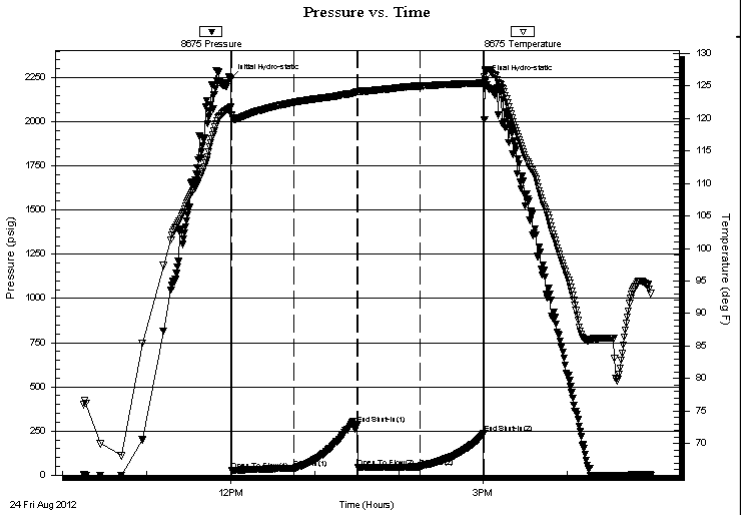
Reference Elevations: 3045.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8675 **Inside**

Press@RunDepth: 46.68 psig @ 4327.00 ft (KB)
Start Date: 2012.08.24 End Date: 2012.08.24
Start Time: 10:15:15 End Time: 16:59:30

Capacity: 8000.00 psig
Last Calib.: 2012.08.24
Time On Btm: 2012.08.24 @ 12:00:15
Time Off Btm: 2012.08.24 @ 15:01:30

TEST COMMENT: Built to 2" blow
No return blow
Built to 2" blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.96	121.77	Initial Hydro-static
1	24.34	120.64	Open To Flow (1)
45	39.04	122.48	Shut-In(1)
90	285.37	124.12	End Shut-In(1)
91	44.11	124.09	Open To Flow (2)
135	46.68	124.99	Shut-In(2)
181	237.64	125.46	End Shut-In(2)
182	2240.19	127.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	100% Mud with oil spots	0.64

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Dow ning

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48880 **DST#: 4**

Test Start: 2012.08.24 @ 10:15:00

GENERAL INFORMATION:

Formation: **Kansas City L - Marm**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:00:45
Time Test Ended: 16:59:30

Test Type: Conventional Straddle (Reset)
Tester: Jace McKinney
Unit No: 46

Interval: 4326.00 ft (KB) To 4485.00 ft (KB) (TVD)
Total Depth: 4713.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

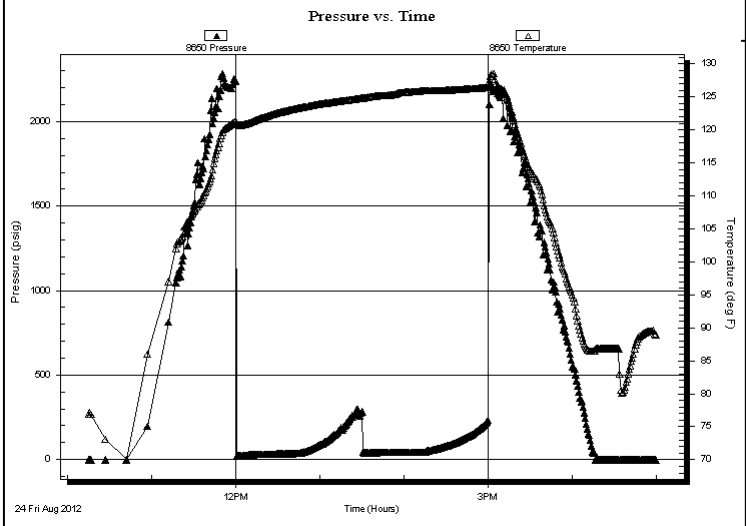
Reference Elevations: 3045.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8650 **Outside**

Press@RunDepth: psig @ 4327.00 ft (KB)
Start Date: 2012.08.24 End Date: 2012.08.24
Start Time: 10:15:15 End Time: 16:59:30

Capacity: 8000.00 psig
Last Calib.: 2012.08.24
Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 2" blow
No return blow
Built to 2" blow
No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	100% Mud w ith oil spots	0.64

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48880 **DST#: 4**

Test Start: 2012.08.24 @ 10:15:00

GENERAL INFORMATION:

Formation: **Kansas City L - Marm**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:00:45
Time Test Ended: 16:59:30

Test Type: Conventional Straddle (Reset)
Tester: Jace McKinney
Unit No: 46

Interval: 4326.00 ft (KB) To 4485.00 ft (KB) (TVD)
Total Depth: 4713.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

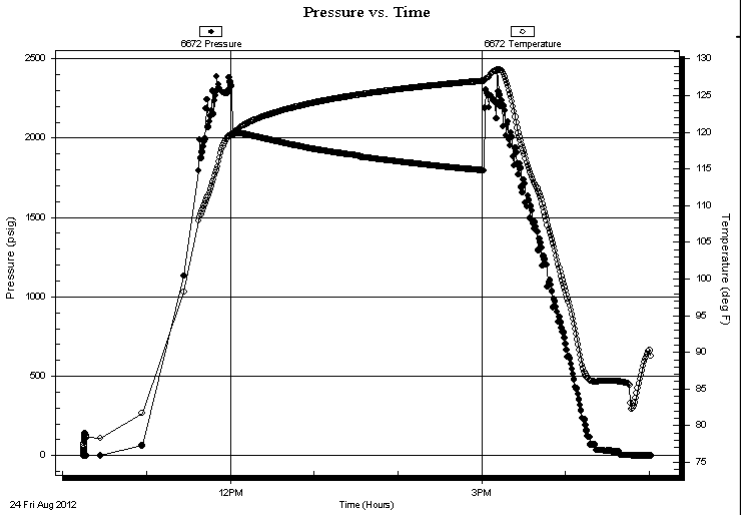
Reference Elevations: 3045.00 ft (KB)
3037.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6672 **Below (Straddle)**

Press@RunDepth: psig @ 4489.00 ft (KB)
Start Date: 2012.08.24 End Date: 2012.08.24
Start Time: 10:15:01 End Time: 17:01:00

Capacity: 8000.00 psig
Last Calib.: 2012.08.24
Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 2" blow
No return blow
Built to 2" blow
No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	100% Mud with oil spots	0.64

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48880 **DST#: 4**

Test Start: 2012.08.24 @ 10:15:00

Tool Information

Drill Pipe:	Length:	4300.60 ft	Diameter:	3.80 inches	Volume:	60.33 bbl	Tool Weight:	1500.00 lb	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb	
Drill Collar:	Length:	30.04 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	74000.00 lb	
					Total Volume:	60.48 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:		24.64 ft					String Weight: Initial	62000.00 lb	
Depth to Top Packer:		4326.00 ft					Final	63000.00 lb	
Depth to Bottom Packer:		4482.00 ft							
Interval between Packers:		156.00 ft							
Tool Length:		410.00 ft							
Number of Packers:		3	Diameter:	6.75 inches					

Tool Comments: Anchor 159
Tail Pipe 228

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4311.00		
Hydraulic tool	5.00			4316.00		
Jars	0.00			4316.00		
Safety Joint	0.00		Fluid	4316.00		
Packer	5.00			4321.00	20.00	Bottom Of Top Packer
Packer	5.00			4326.00		
Stubb	1.00			4327.00		
Recorder	0.00	8675	Inside	4327.00		
Recorder	0.00	8650	Outside	4327.00		
Perforations	26.00			4353.00		
Change Over Sub	1.00			4354.00		
drill Pipe	126.00			4480.00		
change Over Sub	1.00			4481.00		
Perforations	0.00			4481.00		
Blank Off Sub	1.00			4482.00	156.00	Tool Interval
Packer	5.00			4487.00		
Stubb	1.00			4488.00		
Change Over Sub	1.00			4489.00		
Recorder	0.00	6672	Below	4489.00		
Drill Pipe	220.00			4709.00		
Change Over Sub	1.00			4710.00		
Bullnose	6.00			4716.00	234.00	Bottom Packers & Anchor
Total Tool Length:	**410.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

28-9s-31w Thomas,KS

Ostmeyer #1-28

Job Ticket: 48880 **DST#: 4**

Test Start: 2012.08.24 @ 10:15:00

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:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	inches				

Recovery Information

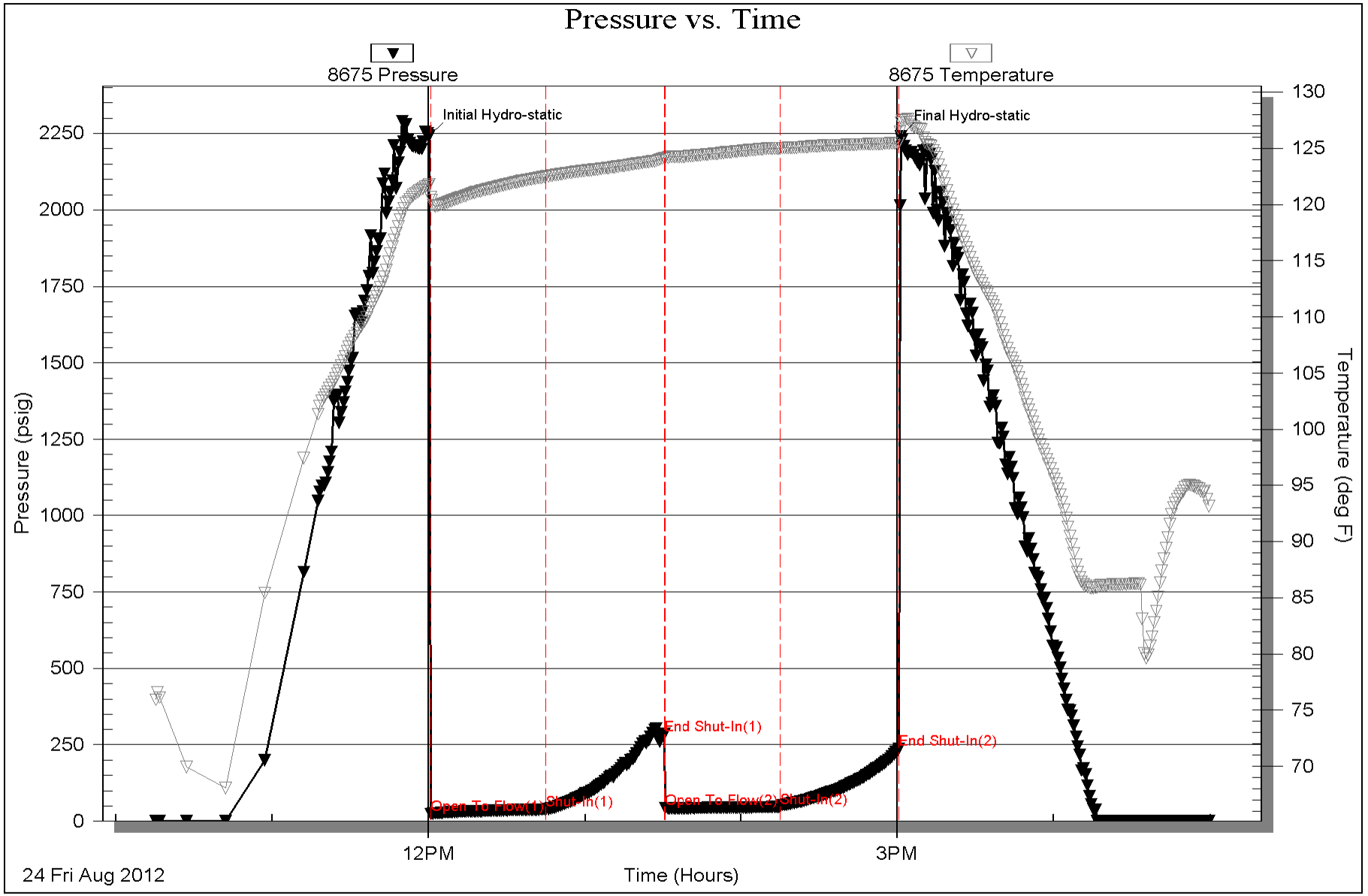
Recovery Table

Length ft	Description	Volume bbl
65.00	100% Mud with oil spots	0.638

Total Length: 65.00 ft Total Volume: 0.638 bbl

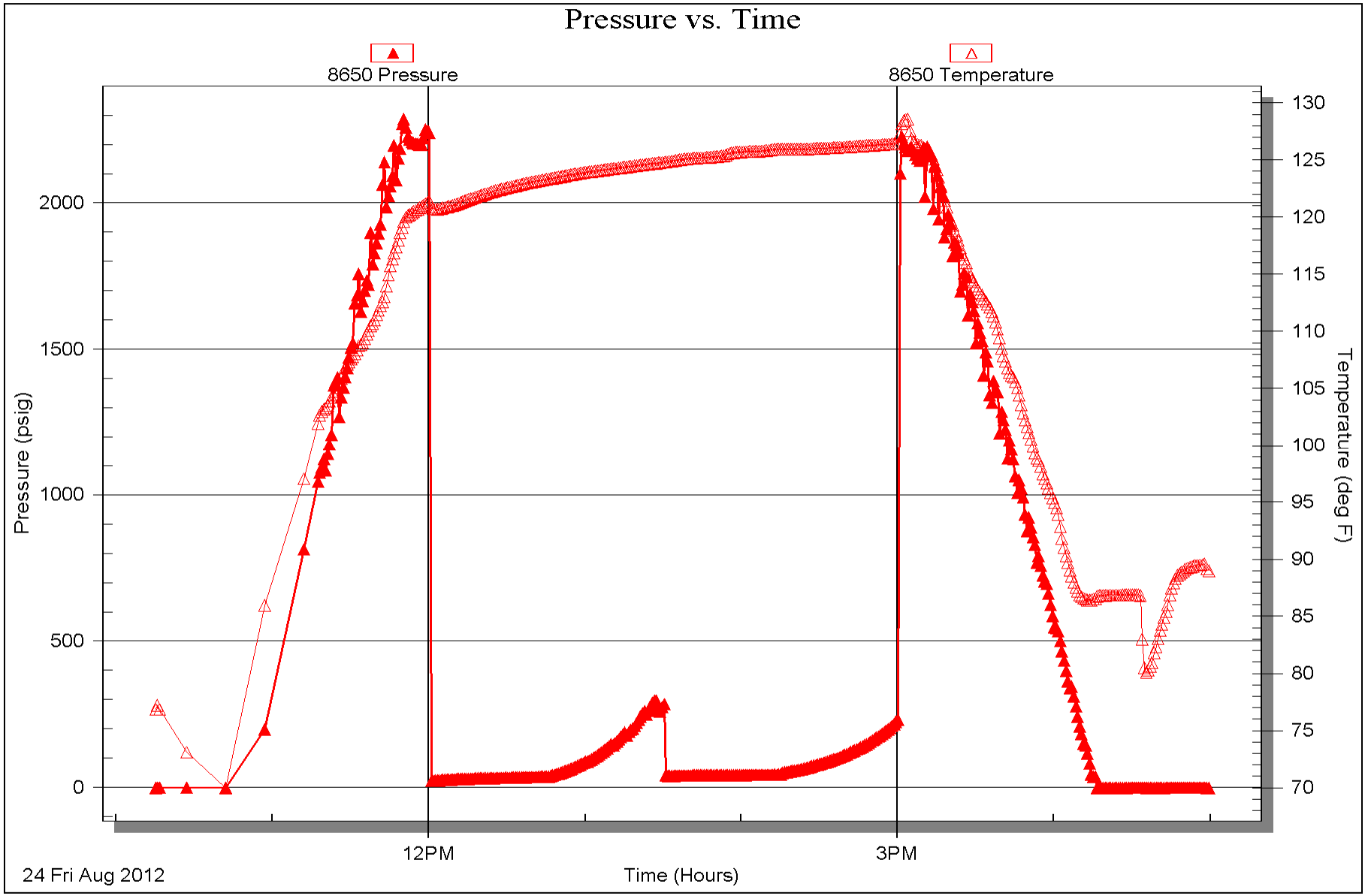
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8675 **Inside** Dow ning-Nelson Oil Co. Inc. Ostmeyer #1-28 DST Test Number: 4



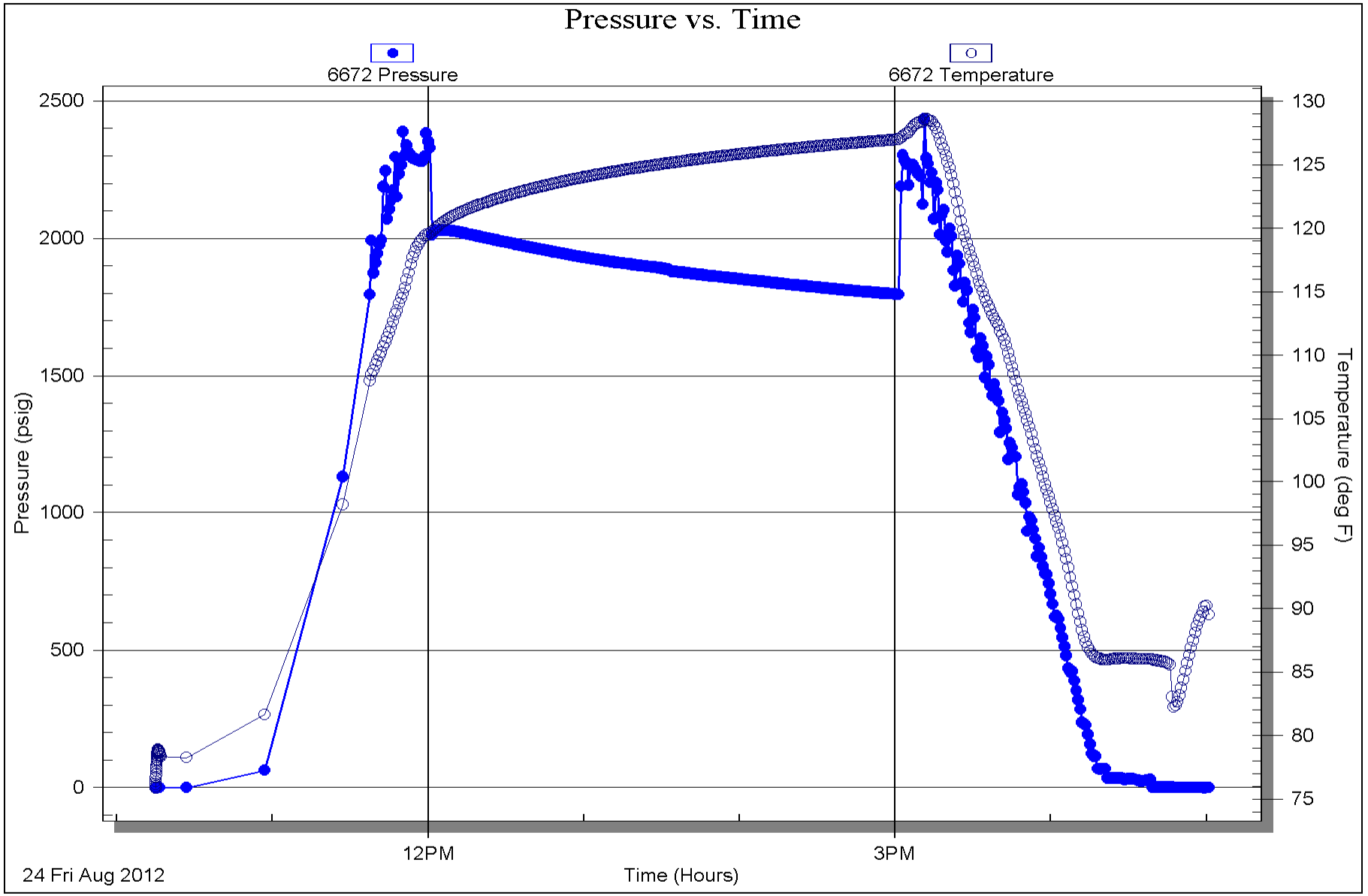
Trilobite Testing, Inc Ref. No: 48880 Printed: 2012.08.28 @ 11:05:12

Serial #: 8650 **Outside** Dow ning-Nelson Oil Co. Inc. Ostmeyer #1-28 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 48880 Printed: 2012.08.28 @ 11:05:12

Serial #: 6672 Below (Straddle) Downing-Nelson Oil Co. Inc. Ostmeyer #1-28 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 48880 Printed: 2012.08.28 @ 11:05:13

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 48877

Company ~~Well Name & No.~~ Downing-Nelson Oil Company Inc. Test No. 1 Date 8/21/12

Well Names Company Ostmeyer 1-28 Elevation 3045 KB 3037 GL

Address PO Box 1819 Hayes KS 67601

Co. Rep / Geo. Marc Downing Rig Discovery Rig 1

Location: Sec. 28 Twp. 9S Rge. 31W Co. Thomas State KS

Interval Tested 4244-4295 Zone Tested Kansas City "I-J"

Anchor Length 51 Drill Pipe Run 4206.21 Mud Wt 8.6

Top Packer Depth 4240 Drill Collars Run 30.04 Vis 70

Bottom Packer Depth 4244 Wt. Pipe Run — WL 7.6

Total Depth 4295 Chlorides 300 ppm System LCM 2#

Blow Description Built to 2" 1/2 blow
No return 1/2 blow
Weak surface 1/2 blow
No return 1/2 blow

Rec 55	Feet of Mud with oil spots in tool	%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 55 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2,161	☑ Test 1250	T-On Location 4:25
(B) First Initial Flow	16	☑ Jars N/C wrong thing	T-Started 5:40
(C) First Final Flow	33	☐ Safety Joint	T-Open 8:00
(D) Initial Shut-In	1,288	☑ Circ Sub N/C	T-Pulled 11:02
(E) Second Initial Flow	35	☐ Hourly Standby	T-Out 12:51
(F) Second Final Flow	42	☑ Mileage 132 204.60	Comments
(G) Final Shut-In	1,260	☐ Sampler	
(H) Final Hydrostatic	2,151	☐ Straddle	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open 45		☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45		☐ Extra Recorder	Sub Total 0
Final Flow 45		☐ Day Standby	Total 1454
Final Shut-In 45		☐ Accessibility	MP/DST Disc't
		Sub Total 1454	

Approved By Not on location 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.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 48878

Well Name & No. Ostmeyer 1-28 Test No. 2 Date 8/21/12 8/22/12

Company Downing-Nelson Oil Company Inc. Elevation 3045 KB 3037 GL

Address PO Box 1014 Hays KS 67601

Co. Rep / Geo. Marc Downing Rig Discovery Rig 1

Location: Sec. 28 Twp. 9S Rge. 31W Co. Thomas State KS

Interval Tested 4296-4330 Zone Tested Kansas City "K"

Anchor Length 34 Drill Pipe Run 4269.35 Mud Wt. 8.9

Top Packer Depth 4292 Drill Collars Run 30.04 Vis 53

Bottom Packer Depth 4296 Wt. Pipe Run — WL 8.0

Total Depth 4330 Chlorides 500 ppm System LCM 1.5#

Blow Description Built to 1¼" below
No return below
Weak surface below
No return below

Rec 40	Feet of Mud with oil spots in tool	%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 40 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2,236	☑ Test	1250	T-On Location	20:40
(B) First Initial Flow	21	☐ Jars		T-Started	21:45
(C) First Final Flow	32	☐ Safety Joint		T-Open	23:35
(D) Initial Shut-In	1,313	☑ Circ Sub	N/C	T-Pulled	1:37
(E) Second Initial Flow	34	☐ Hourly Standby		T-Out	3:19
(F) Second Final Flow	37	☑ Mileage	132 RT 204.60	Comments	
(G) Final Shut-In	1,293	☐ Sampler			
(H) Final Hydrostatic	2,167	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☑ Ruined Packer	320
Initial Open	30	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	30	☐ Extra Recorder		Sub Total	320
Final Flow	30	☐ Day Standby		Total	1774.60
Final Shut-In	30	☐ Accessibility		MP/DST Disc't	
		Sub Total	1454.60		

Approved By Not on location 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.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 48879

Well Name & No. Ostmeyer 1-28 Test No. 3 Date 8/22/12 8/23/12

Company Downing-Nelson Oil Company Inc. Elevation 3045 KB 3037 GL

Address PO Box 1019 Hays KS 67601

Co. Rep / Geo. Marc Downing Rig Discovery Rig 1

Location: Sec. 28 Twp. 9S Rge. 31W Co. Thomas State KS

Interval Tested 4438-4537 Zone Tested Pawnee & ~~Johnson~~ Myric Station

Anchor Length 99 Drill Pipe Run 4396.96 Mud Wt. 9.2

Top Packer Depth 4434 Drill Collars Run 30.04 Vis 46

Bottom Packer Depth 4438 Wt. Pipe Run — WL 8.0

Total Depth 4537 Chlorides 800 ppm System LCM 1.5

Blow Description B.O.B. in 35 min.
Bled off for 5 min. No return below
B.O.B. in 32 min.
Bled off for 5 min. No return below

Rec 125	Feet of OCGM	30	%gas	5	%oil	%water 65	%mud
Rec 115	Feet of OCM		%gas	20	%oil	%water 80	%mud
Rec 0	Feet of 135' Gas In Pipe		%gas		%oil	%water	%mud
Rec	Feet of		%gas		%oil	%water	%mud
Rec	Feet of		%gas		%oil	%water	%mud

Rec Total 240 BHT 128 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2,346	☑ Test 1250	T-On Location 23:45
(B) First Initial Flow	20	☐ Jars	T-Started 00:40
(C) First Final Flow	79	☐ Safety Joint	T-Open 2:55
(D) Initial Shut-In	1,191	☑ Circ Sub N/C	T-Pulled 5:55
(E) Second Initial Flow	106	☐ Hourly Standby	T-Out 7:50
(F) Second Final Flow	144	☑ Mileage 132 RT 204.60	Comments
(G) Final Shut-In	1,103	☐ Sampler	
(H) Final Hydrostatic	2,248	☐ Straddle	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open 45		☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45		☐ Extra Recorder	Sub Total 0
Final Flow 45		☐ Day Standby	Total 1454.60
Final Shut-In 45		☐ Accessibility	MP/DST Disc't
		Sub Total 1454.60	

Approved By Not on Location 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.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 48880

Well Name & No. Ostmeyer 1-28 Test No. 4 Date 8/24/12

Company Downing-Nelson Oil Company Inc. Elevation 3045 KB 3037 GL

Address PO Box 1019 Hays KS 67601

Co. Rep / Geo. Marc Downing Rig Discovery Rig 4

Location: Sec. 28 Twp. 9S Rge. 31W Co. Thomas State KS

Interval Tested 4326-4485 Zone Tested Kansas City L - Marmaton

Anchor Length 159 Tail Pipe 228 Drill Pipe Run 4300.60 Mud Wt. 9.2

Top Packer Depth 4321 Drill Collars Run 30.04 Vis 60

Bottom Packer Depth 4326 Wt. Pipe Run ——— WL 8.8

Total Depth 4485 4713 Chlorides 1,000 ppm System LCM 1.5

Blow Description Built to 2" 6 blow
No return 6 blow
Built to 2" 6 blow
No return 6 blow

Rec 65	Feet of Mud with oil spots	%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 65 BHT 125 Gravity ——— API RW ——— @ ——— °F Chlorides ——— ppm

(A) Initial Hydrostatic	2,242	☑ Test 1250	T-On Location 9:50
(B) First Initial Flow	24	☐ Jars	T-Started 10:15
(C) First Final Flow	39	☐ Safety Joint	T-Open 12:00
(D) Initial Shut-In	285	☑ Circ Sub N/C	T-Pulled 15:00
(E) Second Initial Flow	44	☑ Hourly Standby ~~2hrs~~	T-Out 17:00
(F) Second Final Flow	47	☑ Mileage 132 RT 204.60	Comments
(G) Final Shut-In	238	☐ Sampler	
(H) Final Hydrostatic	2,240	☑ Straddle 600	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open 45		☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45		☐ Extra Recorder	Sub Total 66.67
Final Flow 45		☑ Day Standby 1d 2hrs	Total 2121.27
Final Shut-In 45		☐ Accessibility	MP/DST Disc't
		Sub Total 2054.60	

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.