



KANSAS CORPORATION COMMISSION 1093588  
OIL & GAS CONSERVATION DIVISION

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 #: \_\_\_\_\_

<u>08/16/2012</u>	<u>08/24/2012</u>	<u>08/25/2012</u>
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 Gansor Date: 10/31/2012



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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Attached</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12.25	8.625	23	305.38	Common	185	2% Gel & 3% CC

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	-			

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: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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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

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



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

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

FIELD TICKET & TREATMENT REPORT

CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-14-12	9999	Ostrumeyer Farms #1-28	28	95	31W	Thomas
CUSTOMER			TRUCK #		DRIVER	
Mailing Address			TRUCK #		DRIVER	
CITY			TRUCK #		DRIVER	
STATE			TRUCK #		DRIVER	
ZIP CODE			TRUCK #		DRIVER	

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 300' CASING SIZE & WEIGHT 8 5/8 23#  
 CASING DEPTH 305.38' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14lb SLURRY VOL 1.36 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 18bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting and rig up on discovery drilling #1 Circulate casing  
Mix 180 Common Class "A" cement with 3# Calcium and 2# gel. Displaced  
18bbls water shot in cement did circulate approx 8bbls top it

Thanks Miles + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015		PUMP CHARGE	1085.00	1085.00
5406	10	MILEAGE	5.00	50.00
5407	8.46 Tons	Tonn Mileage delivery min	410.00	410.00
11045	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 1030 exam	525.77
			Subtotal	4731.96
			SALES TAX	248.93
			ESTIMATED TOTAL	4975.89

Stamp: *Completed*

Rev'n 3737 AUTHORIZATION [Signature] TITLE Tool y DATE \_\_\_\_\_

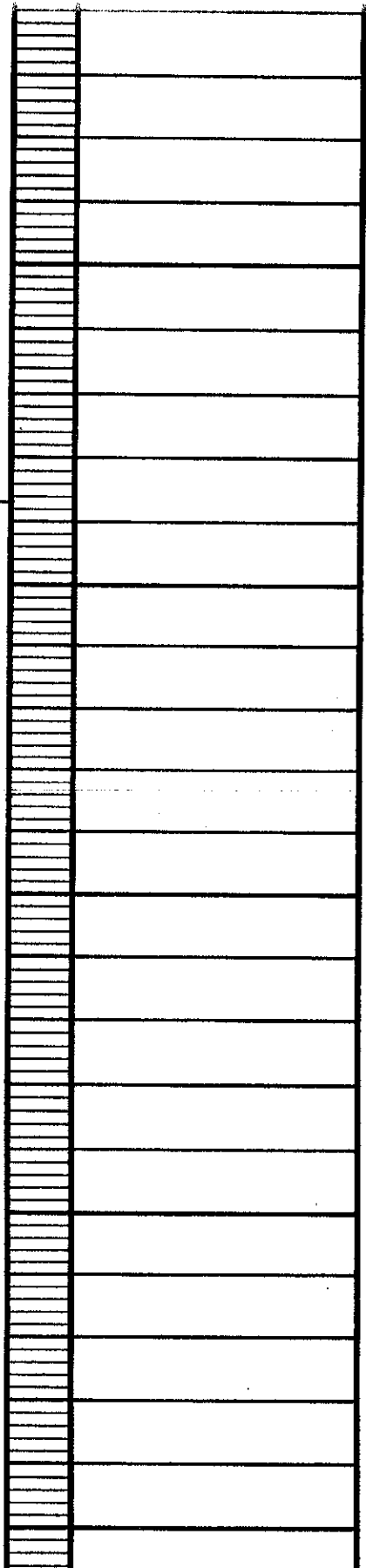
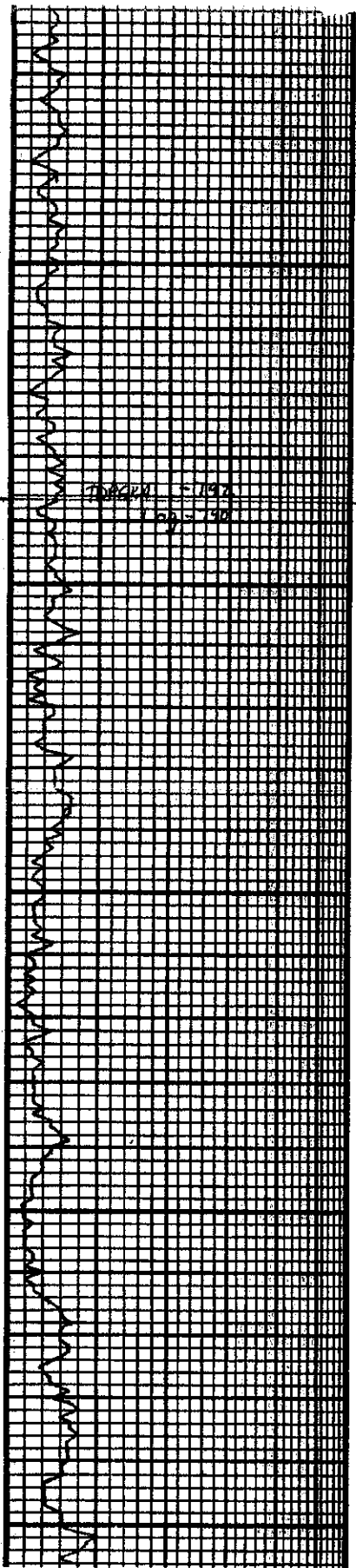
I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

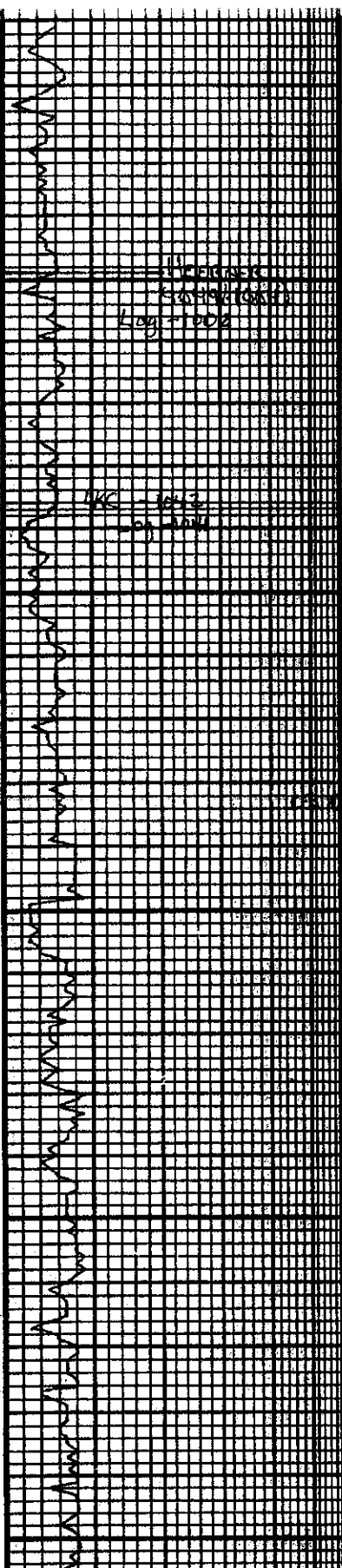






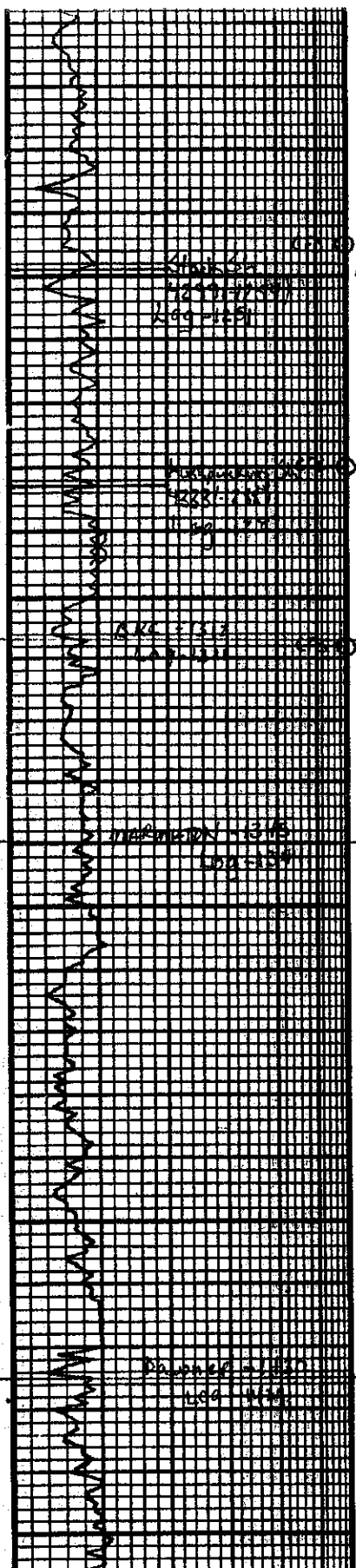






50	Sh: Black Carb
	Sh: brn w/ grey
	LS: wht, md-fn xln, few smt Fass, Fr intxch, wchky. NS
	Sh: brn w/ some red.
4100	LS: wht, med xln, many Fass + Od. Fr intxch, subxln chky 3-4 ex w/ dead blk stn, NSFO, NO Od. Rx long fn suc xln w/ arg + wht chtd.
	Sh: drk gr - blk
	Sh: brn w/ gr. washes sltly red.
	LS: wht, md xln, many Frag Fass, pr-fr ppse w/ dead blk stn. NSFO, NO Od.
50	Sh: grey
	LS: wht, fn, md xln, scmt Fass, ppse + tite, 2-3 fr w/ v hvy stn, blk-tary NSFO, NO Od.
	LS: wht, fn, suc xln, gd intxch. Fr amt subxln chky ex. All NS
	Sh: grey
	LS: wht, fn, md xln, few smt Fass, Fr int Fass, many sub xln chky ex. NS, NO Od.
	Sh: grey
4200	LS: wht - lt grey, fn, xln, vchms, no visses. Fr amt tan shp chtd, All NS.
	Sh: Black Carb
	Sh: grey
	LS: wht, fn xln, mostly prs. few smt Fass, scmt subxln ex, NS, Pass vfn + Od.
50	Sh: grey

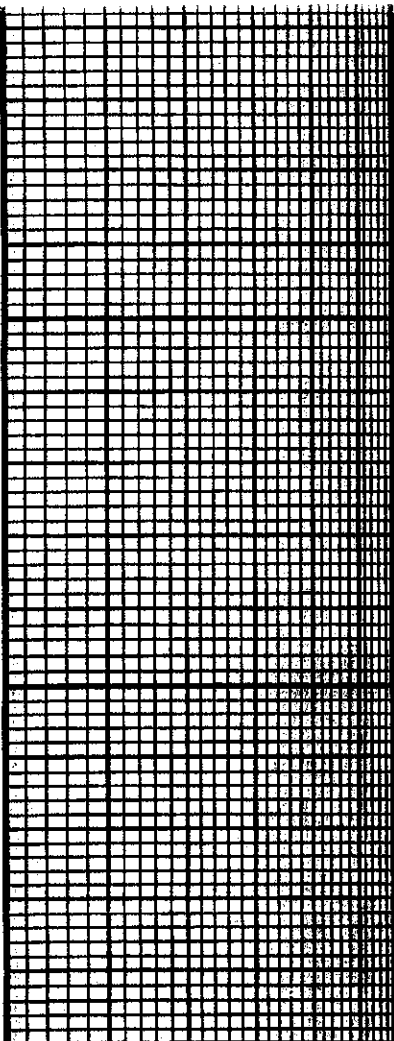
Vis: 70	wt: 8.6
DST #1	
4244-4245	
45-45-45-45	
I.F. 2" blow	
F.F. Surf	
IFP: 16-33	
FFP: 35-42	
SIP: 1248-1259	
HP: 2141-2151	
Rec:	
55' mud w/ oil sps.	
BHT: 120"	
Vis: 53	wt: 8.9



D S T # 2	4300	Sh: grey LS: wht. lt tan, fine xln, few foss. mostly pr. or sh. 1-2 pes w/ fr. brn silt & silted sfo, grey when broken. no fr. w/ls. No Od.
		Sh: grey LS: wht, fine xln, few foss. Fr. gd ppt w/ silt w/ls, few subxln ex. gd ppt w/ gd sfo, gassy in prt. Fr. gd od. Free oil on cup.
D S T # 3	50	LS: wht, fine xln, fring dms w/ prx. Sh: Black Carb Sh: grey LS: wht, fine xln, mostly sub xln, w/ls in prt. 4-5 or silted below. Fepp, lt brn sfo, lt brn silted sfo. Strong Od, smt oil droplets on cup. Seat pass frang.
		Sh: Black Carb Sh: lt grey, seat drk LS: wht fine xln, seat frang dms. Fring subxln - chng. totally barren, No Od. Sh Black Carb
D S T # 3	4400	abndnt shs grey brn rd at w/ dms tan - rdck fr xyl w/ ls shs dk grey LS tan-wh, v fr xyl w/ dms pr ixyl/ls v dk grey - grey clayey sh Black Carb
		abndnt shs v dk grey grey brn LS tan-wh v fr xyl w/ dms pr ixyl/ls w/ int bd sh grey brn rd sh v dk grey LS tan-wh micry/w v dms
D S T # 3	50	cht wh tan qz w/ls wh tan xyl dms pr ixyl/ls shs dk grey grey more abndnt w/cht wh tan Sh Black Carb v dk grey grey
		LS wh - tan m ds xyl w/w/ fr vug & ixyl/ls. sfo, lt brn spt xyl/ls w/ fr od LS brn - grey m thd dms pr ixyl/ls. fring micry/w v dms no appd ls. w/ abndnt grey dk grey shs sh Black Carb dk grey

4296 - 4330  
30-30-30-30  
IF: 1 1/4" below  
F.F. - 300 below  
IFF: 21-32  
FFP: 34-37  
SIP: 1313-1293  
HP: 2236-2167  
Rec:  
40' mud w/ oil spots  
BHT: 125'

DST #3  
4438' - 4537'  
45" - 45" - 45" - 45"  
1st op 808 38"  
2nd op 808 32"  
NO S.I. Blow  
IFF 20-79  
FFP 106-144  
SIP 1141-1103  
HP 2346-2248  
REL 125' OCGM  
(3070m: 5700m: 6570m)  
115' OCGM  
(2070m: 8070m)  
135' gas in pipe  
BHT 128'



5" 10" 15" 20" 25"  
 DRILLING TIME Minutes/Foot  
 Rate of Penetration Decreases

DEPTH

LITHOLOGY

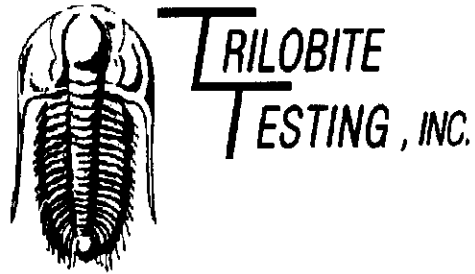
SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

CONTRACTOR DNOC.T  
 LEASE OSTMEYER FARMS #1-28 IP D&A  
 ELEVATION 3045' KB RTD 4713'

LOCATION 925' ENL & 2180' FWL  
 SEC 28 TWP 9s RING 3/4  
 COUNTY THOMAS STATE KANSAS



## 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

Downing-Nelson Oil Co. Inc.

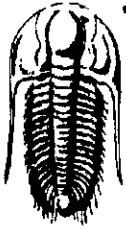
28-9s-31w Thomas,KS

Ostmeyer #1-28

DST # 1

Kansas City "I-J"

2012.08.21



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.  
PO Box 1019  
Hays KS 67601  
ATTN: Marc Dow ning

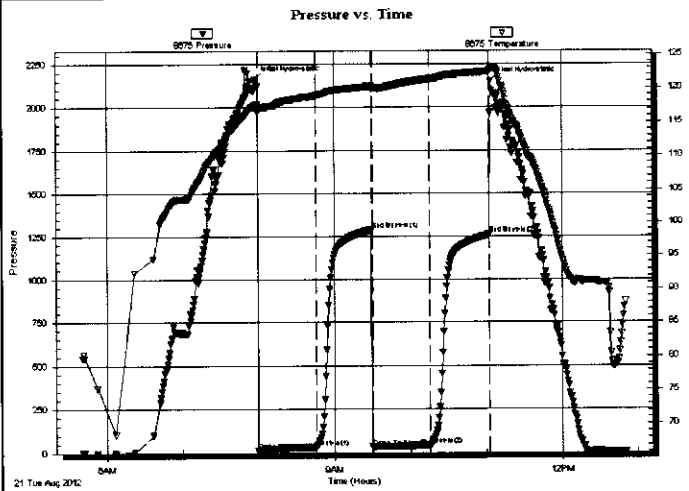
**28-9s-31w Thomas,KS**  
**Ostmeyer #1-28**  
Job Ticket: 48877      **DST#: 1**  
Test Start: 2012.08.21 @ 05:40:00

## 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)  
Reference Elevations: 3045.00 ft (KB)  
3037.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
KB to GR/CF: 8.00 ft

**Serial #: 8675      Inside**  
Press@RunDepth: 42.09 psig @ 4245.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.08.21      End Date: 2012.08.21      Last Calib.: 2012.08.21  
Start Time: 05:40:15      End Time: 12:50:30      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 (Mn.)	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

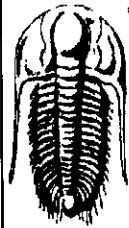
## Recovery

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)





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Co. Inc.

**28-9s-31w Thomas,KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48877

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2012.08.21 @ 05:40:00

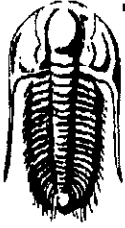
### Tool Information

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
			<u>Total Volume: 59.15 bbl</u>	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**





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing-Nelson Oil Co. Inc.

**28-9s-31w Thomas,KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48877

**DST#: 1**

ATTN: Marc Downing

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 in<sup>3</sup>

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

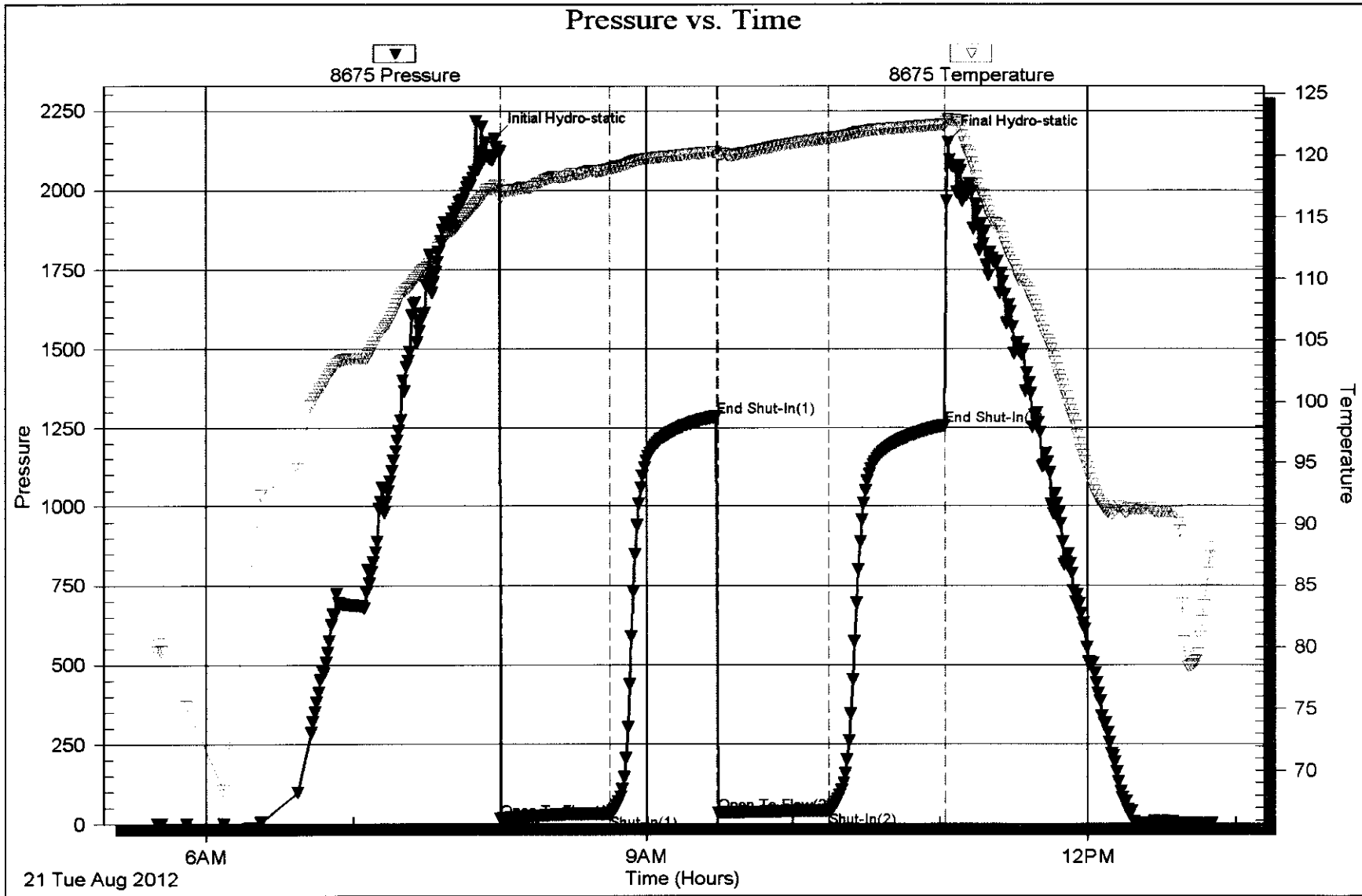
Num Gas Bombs: 0

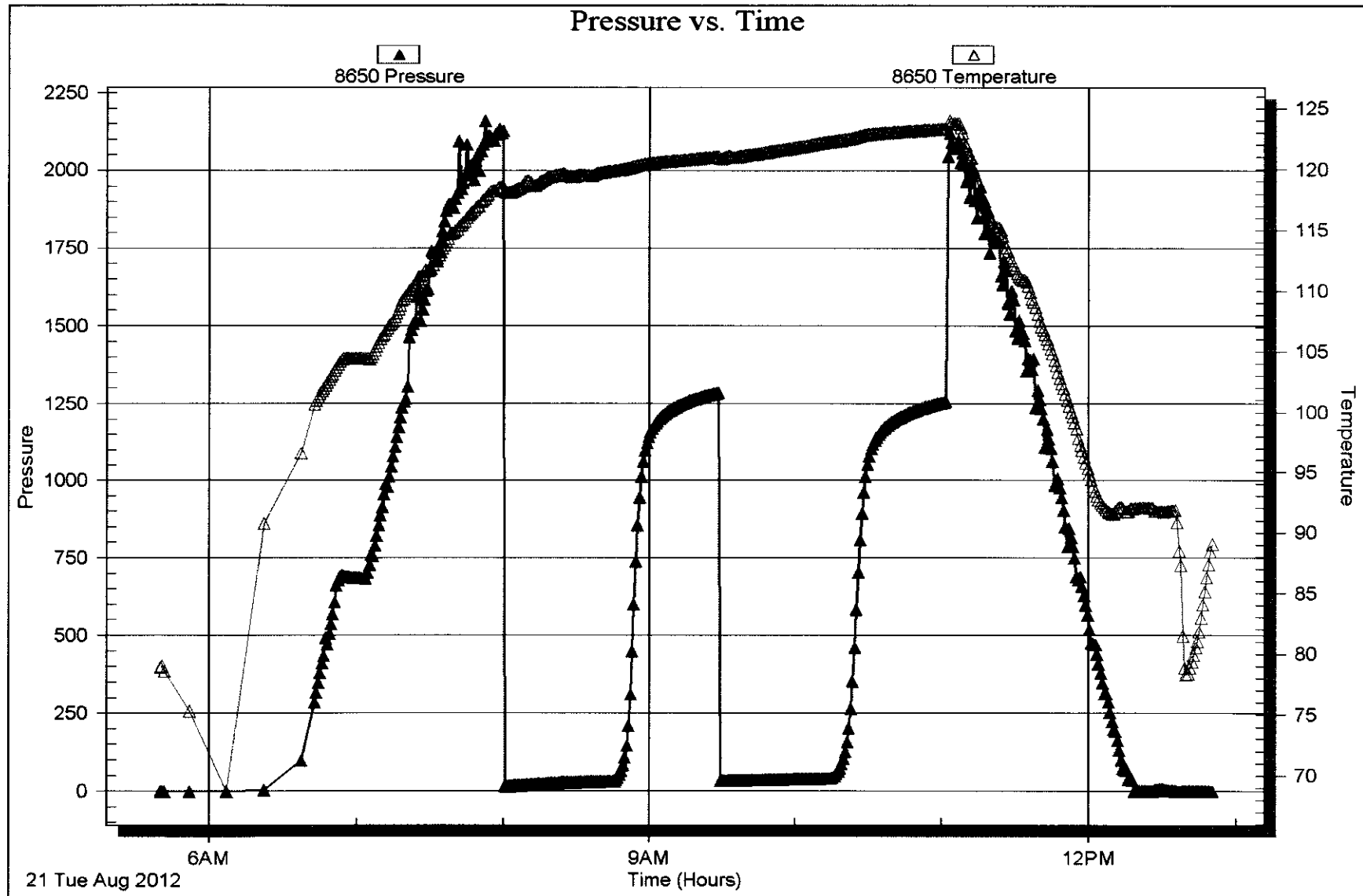
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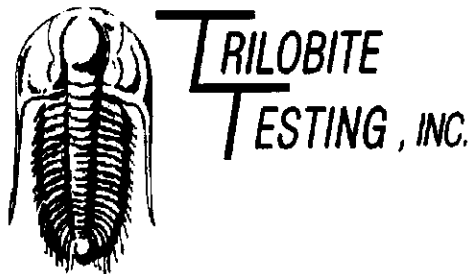
Laboratory Name:

Laboratory Location:

Recovery Comments:







## 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

Downing-Nelson Oil Co. Inc.

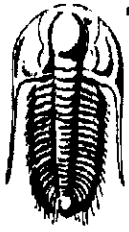
28-9s-31w Thomas,KS

Ostmeyer #1-28

DST # 2

Kansas City "K"

2012.08.21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

**28-9s-31w Thomas,KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48878

**DST#: 2**

ATTN: Marc Downing

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)**

Reference Elevations: 3045.00 ft (KB)

Total Depth: 4330.00 ft (KB) (TVD)

3037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8675 Inside**

Press@RunDepth: 36.69 psig @ 4297.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.21 End Date: 2012.08.22

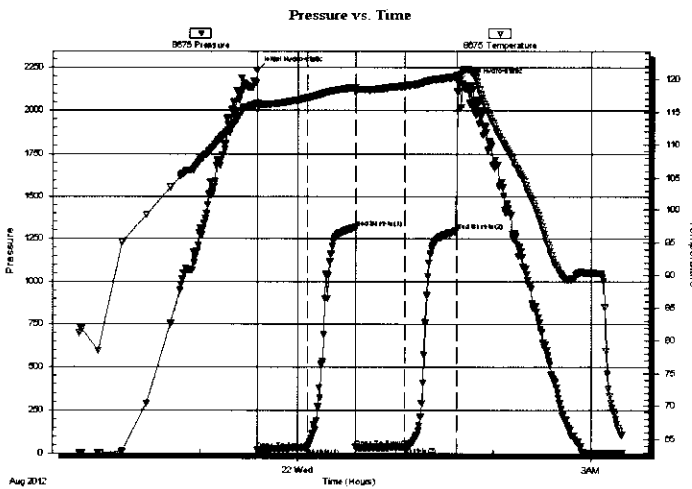
Last Calib.: 2012.08.22

Start Time: 21:45:15 End Time: 03:19:00

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

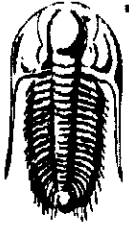
Length (ft)	Description	Volume (bbl)
40.00	100% Mud with oil spots in tool	0.29

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Co. Inc.

**28-9s-31w Thomas,KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48878

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2012.08.21 @ 21:45:00

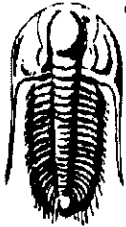
### Tool Information

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
			<u>Total Volume: 60.04 bbl</u>	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

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**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing-Nelson Oil Co. Inc.

**28-9s-31w Thomas,KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48878

**DST#: 2**

ATTN: Marc Downing

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:

bbbl

Water Loss: 7.97 in<sup>3</sup>

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

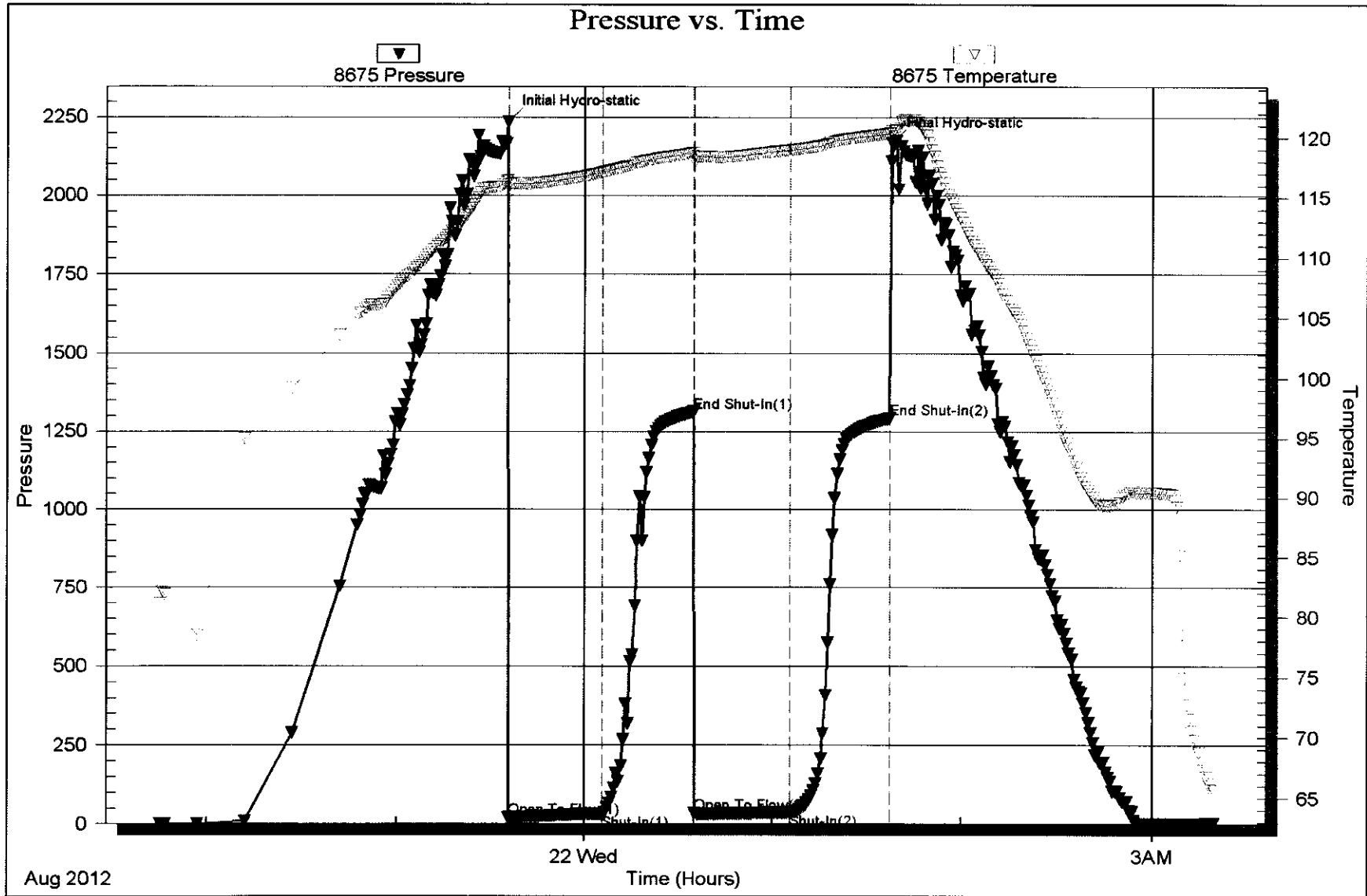
Serial #:

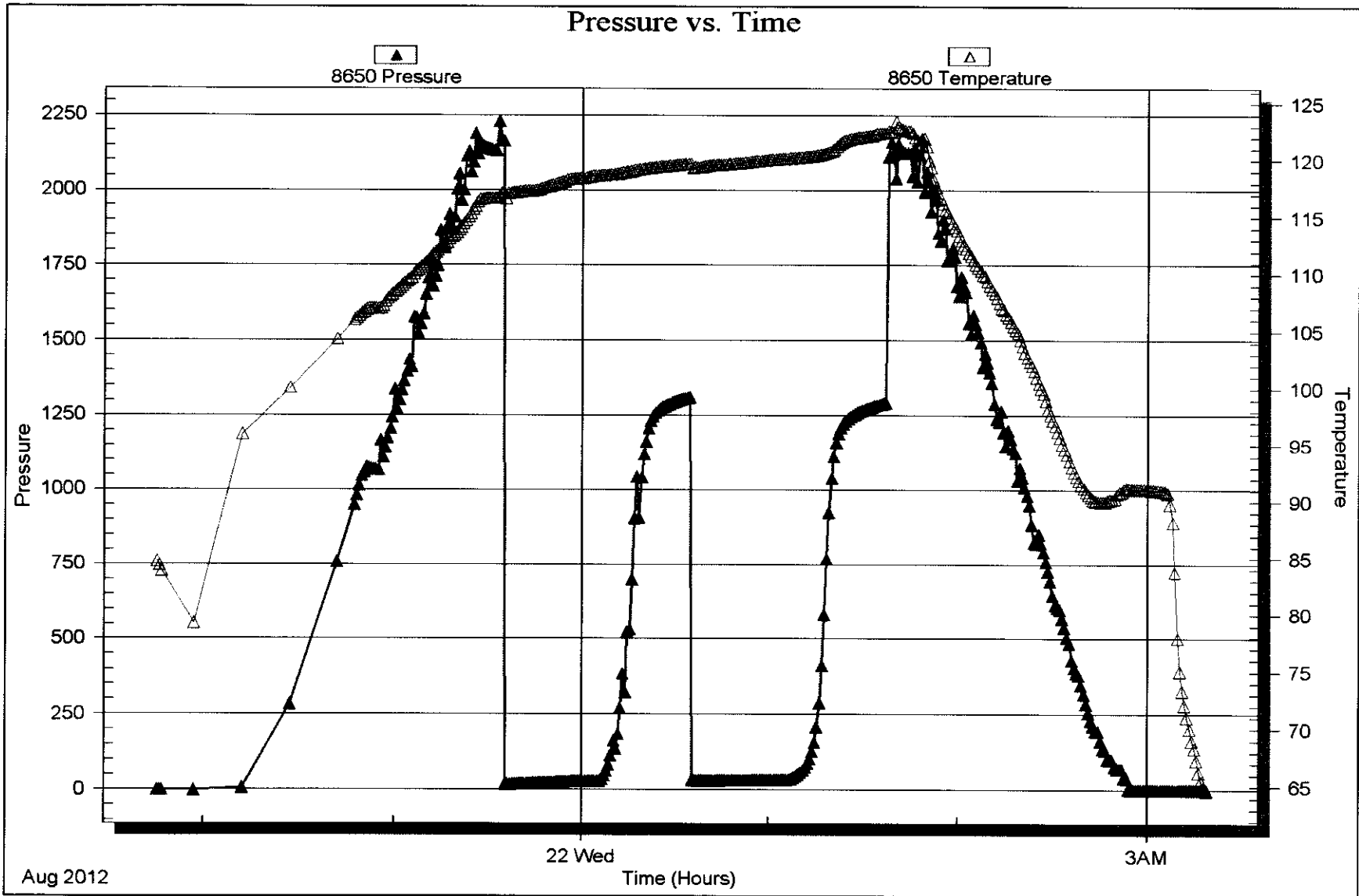
Laboratory Name:

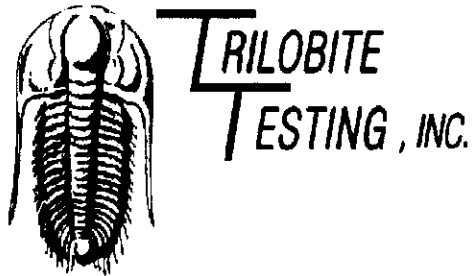
Laboratory Location:

Recovery Comments:









## 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

Downing-Nelson Oil Co. Inc.

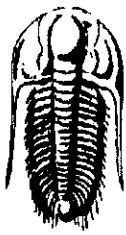
28-9s-31w Thomas,KS

Ostmeyer #1-28

DST # 3

Pawnee & Myric Stati

2012.08.23



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.  
 PO Box 1019  
 Hays KS 67601  
 ATTN: Marc Dow ning

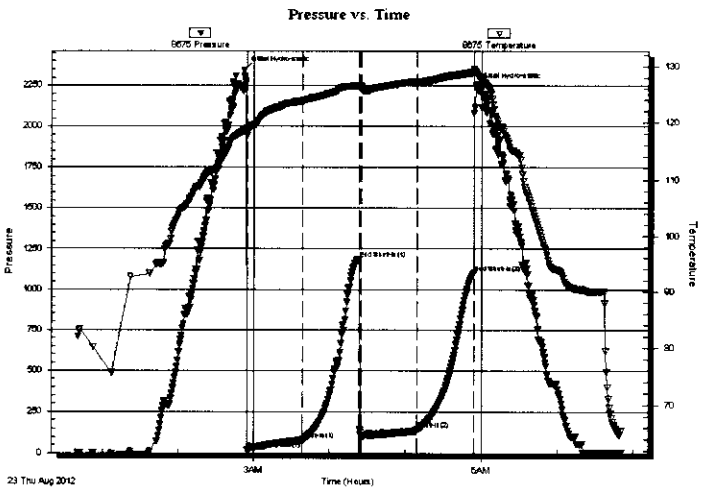
**28-9s-31w Thomas,KS**  
**Ostmeyer #1-28**  
 Job Ticket: 48879      **DST#: 3**  
 Test Start: 2012.08.23 @ 00:40:00

### 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)  
 Reference Elevations: 3045.00 ft (KB)  
 3037.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 8675**      Inside  
 Press@RunDepth: 144.06 psig @ 4439.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.08.23      End Date: 2012.08.23      Last Calib.: 2012.08.23  
 Start Time: 00:40:15      End Time: 07:50:00      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



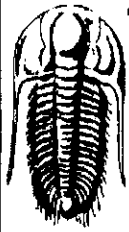
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2345.88	118.53	Initial Hydro-static
3	19.71	117.71	Open To Flow (1)
47	79.46	123.84	Shut-In(1)
92	1191.13	126.55	End Shut-In(1)
93	106.03	126.30	Open To Flow (2)
138	144.06	127.19	Shut-In(2)
182	1103.42	128.91	End Shut-In(2)
183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

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing-Nelson Oil Co. Inc.

**28-9s-31w Thomas,KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48879

**DST#: 3**

ATTN: Marc Downing

Test Start: 2012.08.23 @ 00:40:00

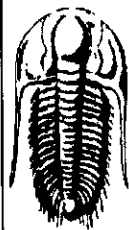
### Tool Information

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
			<u>Total Volume: 61.79 bbl</u>	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**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing-Nelson Oil Co. Inc.

**28-9s-31w Thomas,KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48879

**DST#: 3**

ATTN: Marc Downing

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 in<sup>3</sup>

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

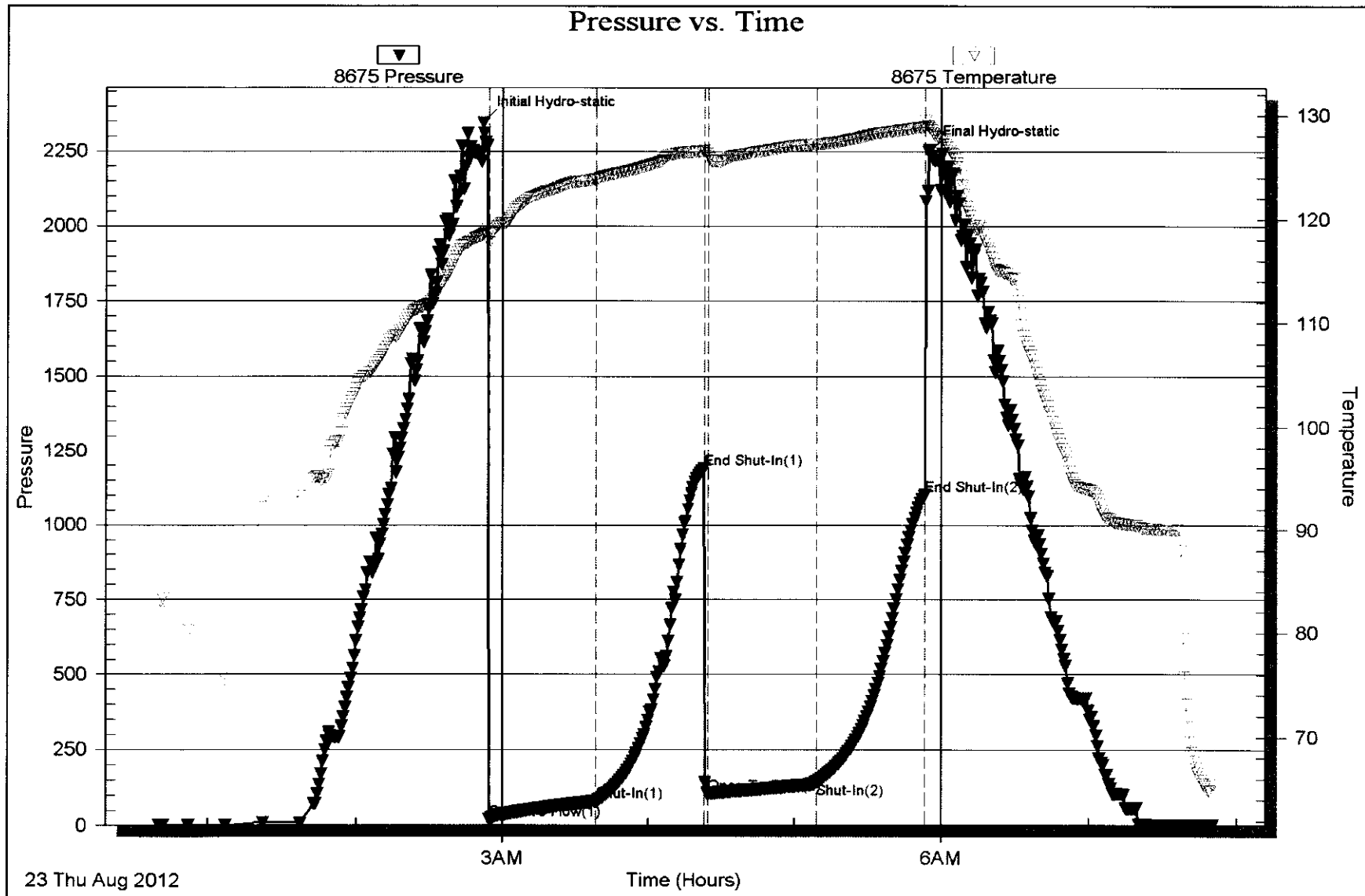
Num Gas Bombs: 0

Serial #:

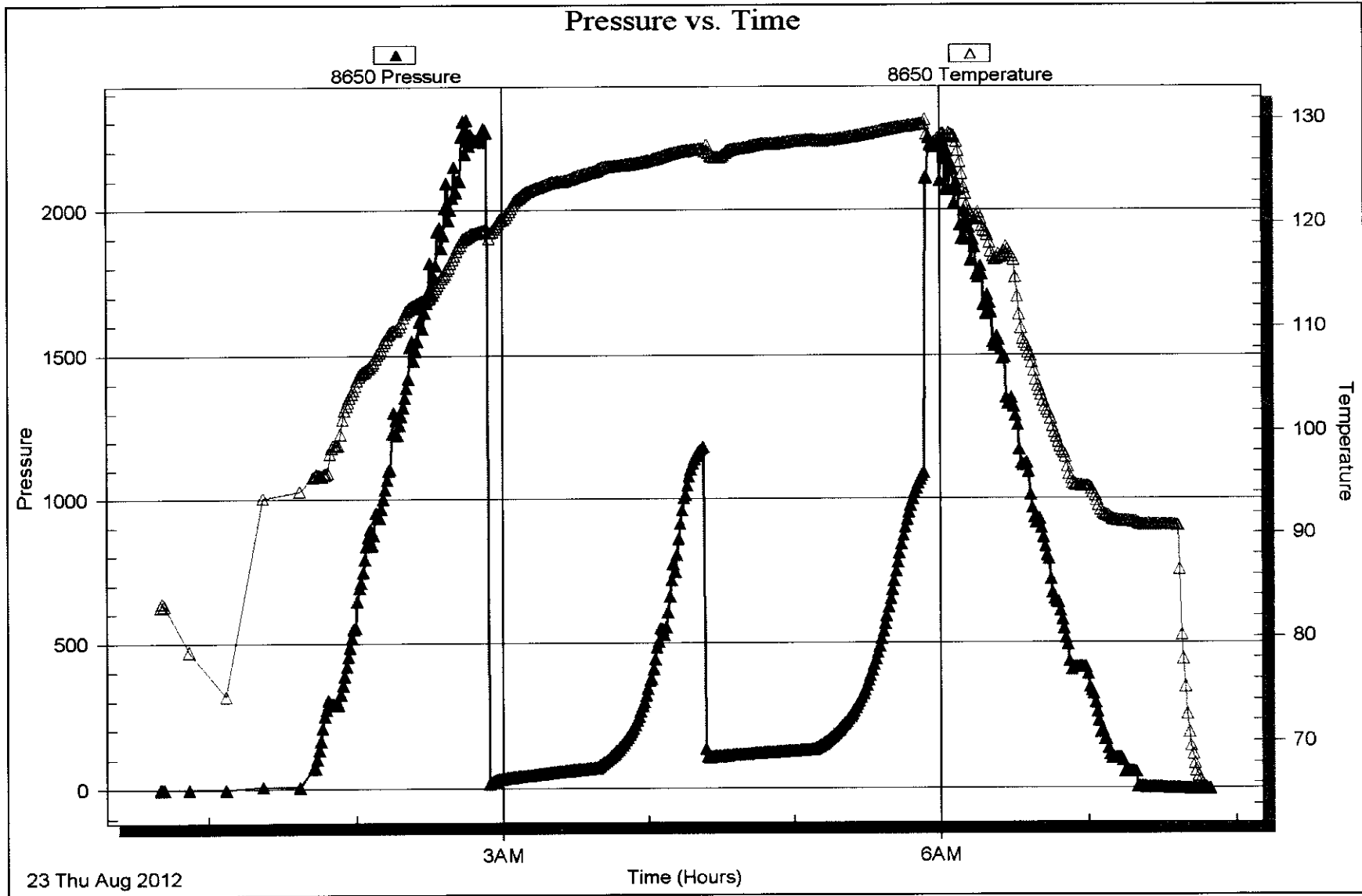
Laboratory Name:

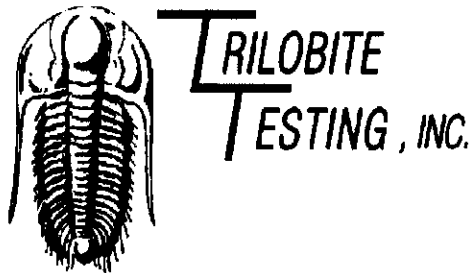
Laboratory Location:

Recovery Comments:









## 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

Downing-Nelson Oil Co. Inc.

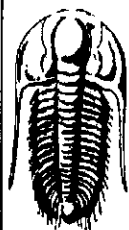
28-9s-31w Thomas,KS

Ostmeyer #1-28

DST # 4

Kansas City L - Marm

2012.08.24



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

**28-9s-31w Thomas, KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48880

**DST#: 4**

ATTN: Marc Downing

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)**

Reference Elevations: 3045.00 ft (KB)

Total Depth: 4713.00 ft (KB) (TVD)

3037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8675** Inside

Press@RunDepth: 46.68 psig @ 4327.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.24

End Date: 2012.08.24

Last Calib.: 2012.08.24

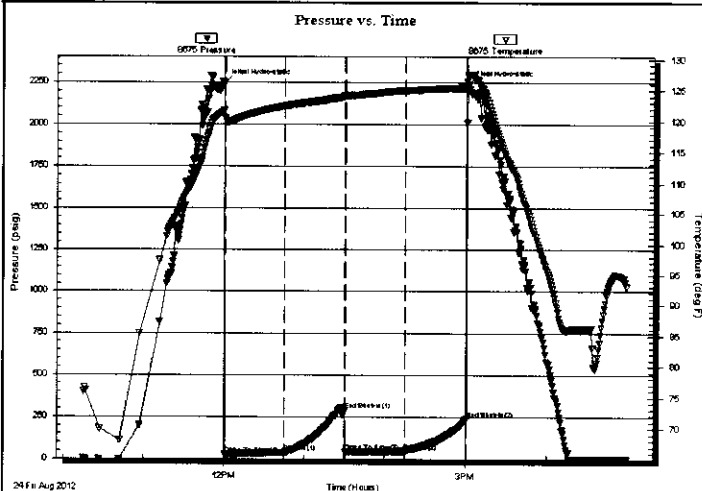
Start Time: 10:15:15

End Time: 16:59:30

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

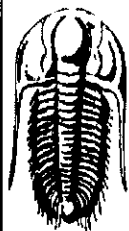
\* Recovery from multiple tests

### Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing-Nelson Oil Co. Inc.

**28-9s-31w Thomas,KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48880

**DST#: 4**

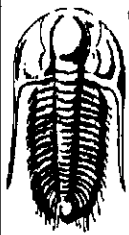
ATTN: Marc Downing

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
			<u>Total Volume: 60.48 bbl</u>	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
<b>Total Tool Length:</b>	<b>410.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Dow ning-Nelson Oil Co. Inc.

**28-9s-31w Thomas,KS**

PO Box 1019  
Hays KS 67601

**Ostmeyer #1-28**

Job Ticket: 48880

**DST#: 4**

ATTN: Marc Dow ning

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:

bbbl

Water Loss: 8.78 in<sup>3</sup>

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 bbbl
65.00	100% Mud w ith oil spots	0.638

Total Length: 65.00 ft

Total Volume: 0.638 bbl

Num Fluid Samples: 0

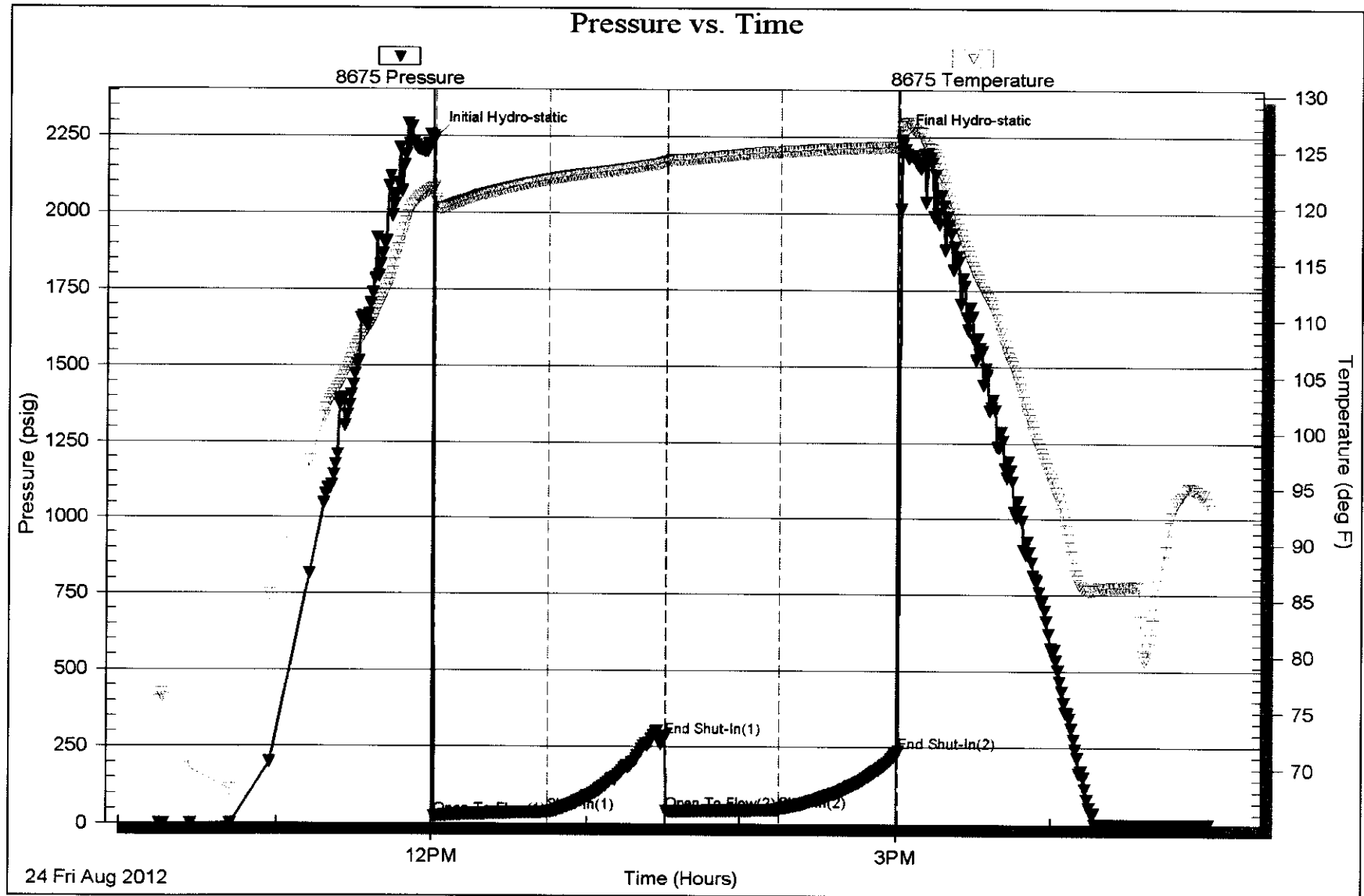
Num Gas Bombs: 0

Serial #:

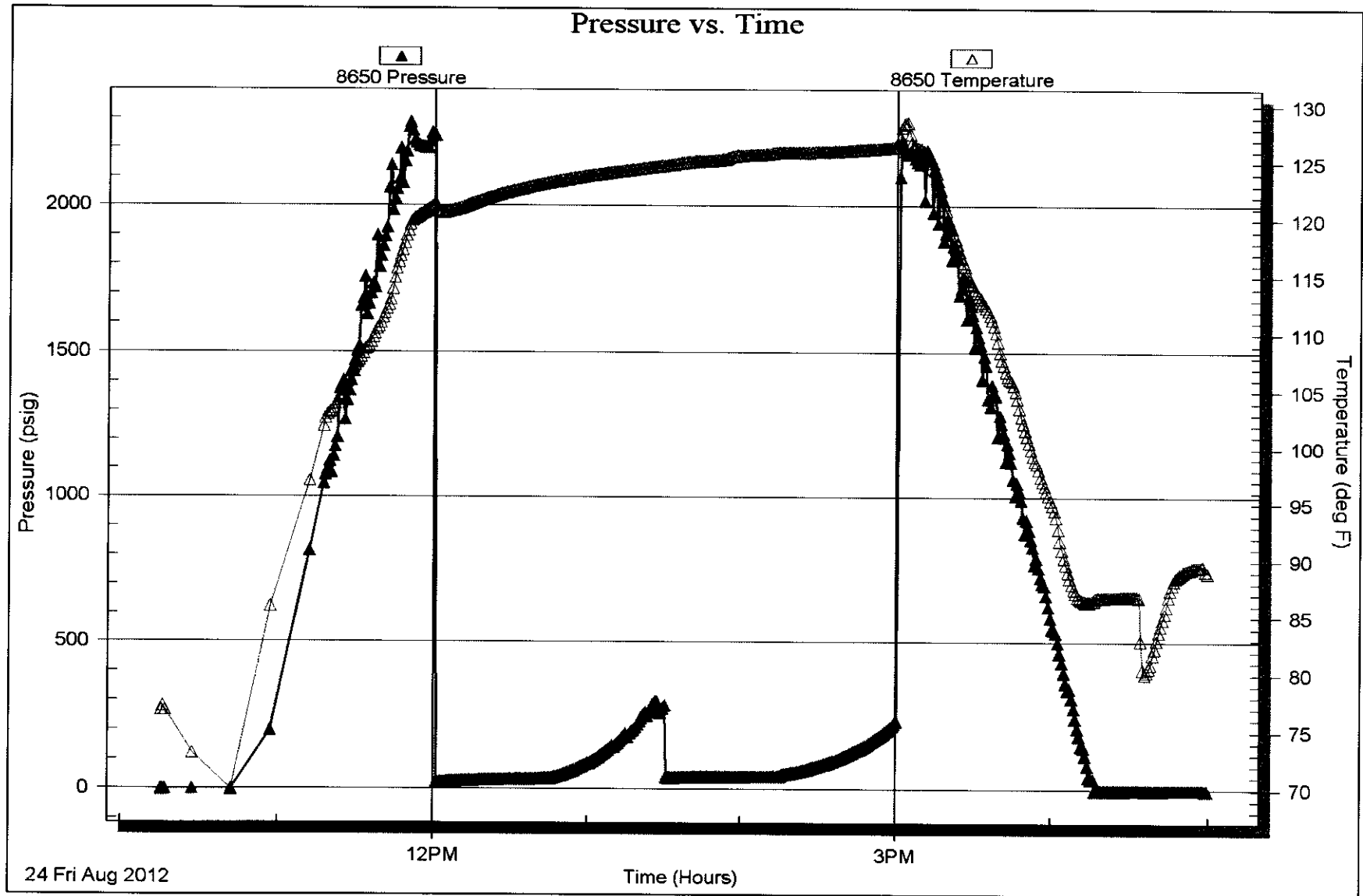
Laboratory Name:

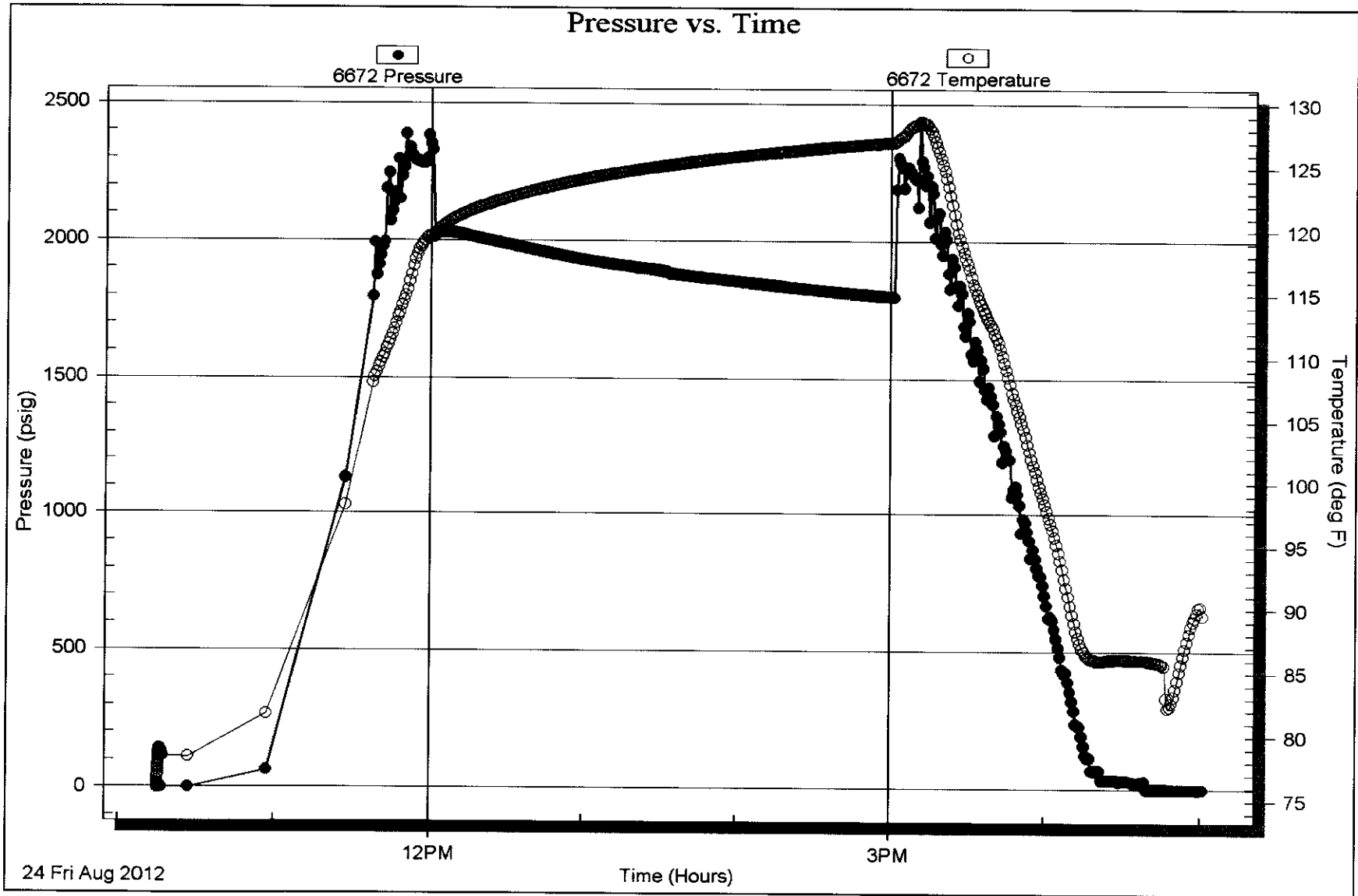
Laboratory Location:

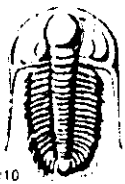
Recovery Comments:











# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48871

Company Downing-Nelson Oil Company Inc. Test No. 1 Date 8/21/12  
 Well Name & No. Ostmeyer 1-28 Elevation 3045 KB 3037 GL  
 Company Ostmeyer  
 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 4244-4295 Zone Tested Kansas City "I:5"  
 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" below  
No return below  
Weak surface below  
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>55</u>	<u>Feet of Mud with oil spots in tool</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 Total 55 BHT 120 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2,161  Test \_\_\_\_\_ T-On Location 4:25  
 (B) First Initial Flow 16  Jars N/A wrong things 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 \_\_\_\_\_

Initial Open 45  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Packer \_\_\_\_\_  
 Final Shut-In 45  Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1454  
 Sub Total 1454 MP/DST Disc't \_\_\_\_\_

Approved By Not on location Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged or 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

## Test Ticket

NO. 488

Well Name & No. Ostmeier 1-28 Test No. 2 Date 8/21/12 8/21/12  
 Company Downing-Nelson Oil Company Inc. Elevation 3045 KB 3037 GL  
 Address PO Box 104 Hays KS 67601  
 Co. Rep / Geo. Marc Downing Rig Discovery Rig 1  
 Location: Sec. 28 Twp. 9S Rge. 3W Co. Thomas State KS

Interval Tested 4296 - 4330 Zone Tested Kansas City "15"  
 Anchor Length 34 Drill Pipe Run 4229.35 Mud Wt. 8.9  
 Top Packer Depth 4292 Drill Collars Run 3004 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 1/4" below  
No return below  
Weak surface below  
No return below

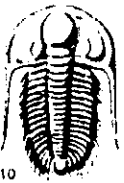
Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Mud with oil spots in tool</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 120 Gravity                      API RW                      @                      ° F Chlorides                      ppm  
 (A) Initial Hydrostatic 2,236  Test                      T-On Location 20840  
 (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  
 Extra Packer                       Extra Copies                     

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1454.60  
 Sub Total 320  
 Total 1774.60  
 MP/DST Disc't                     

Approved By Nat on Hamilton Our Representative                     

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# TRIOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 4887

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. 3W Co. Thomas State KS

Interval Tested 4438-4537 Zone Tested Pawnee i ~~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 Clear  
 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

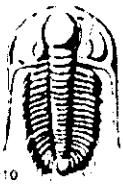
Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>0.0CM</u>	<u>30</u>	<u>5</u>	<u>65</u>	
<u>115</u>	<u>0.0CM</u>		<u>20</u>	<u>80</u>	
<u>0</u>	<u>135' Gas In Pipe</u>				

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

(A) Initial Hydrostatic 2,346  Test \_\_\_\_\_ 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 NK 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  
 (G) Final Shut-In 1,103  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,248  Straddle \_\_\_\_\_

Initial Open 45  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 45  Day Standby \_\_\_\_\_ Total 1454.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1454.60

Approved By Nick on location Our Representative [Signature]  
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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48880

Well Name & No. Ostmeier 1-2B 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. Marl Downing Rig Discovery Rig 4  
 Location: Sec. 2B Twp. 9S Rge. 3W Co. Thomas State KS

Interval Tested 4326-4485 Zone Tested Kansas City L - Marmaton  
 Anchor Length 159 Tailpipe 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" below  
No return below  
Built to 2" below  
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Mud with oil spots</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 Total 65 BHT 125 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

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

Approved By \_\_\_\_\_ Our Representative [Signature]  
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