



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ 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:  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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Stalnaker 'B' 1-14
Doc ID	1123871

All Electric Logs Run

Sonic
Micro
Dual Indcution
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Stalnaker 'B' 1-14
Doc ID	1123871

Tops

Name	Top	Datum
Top Anhydrite	1590'	+636
Base Anhydrite	1632'	+594
Topeka	3295'	-1069
Heebner	3534'	-1308
Toronto	3554'	-1328
LKC	3574'	-1348
BKC	3818'	-1592
Marmaton	3904'	-1678
Cherokee Shale	3948'	-1722
Conglomerate	3970'	-1744
Arbuckle	4030'	-1804

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 6381

Date <b>2-15-13</b>	Sec. <b>14</b>	Twp. <b>14</b>	Range <b>21</b>	County <b>Trego</b>	State <b>KS</b>	On Location	Finish <b>7:30 pm</b>
Lease <b>Stallmaker B</b>				Well No. <b>1-14</b>		Owner <b>Downing Nelson Oil</b>	
Contractor <b>Down Discovery #3</b>				To Quality Oilwell Cementing, Inc.			
Type Job <b>Surface</b>				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <b>12 1/4</b>		T.D. <b>219</b>		Charge To <b>Downing Nelson</b>			
Csg. <b>8 5/8</b>		Depth <b>219</b>		Street			
Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint <b>15</b>		Cement Amount Ordered			
Meas Line		Displace <b>13661</b>					
<b>EQUIPMENT</b>				Common <b>150 com 3% CC 2% gel</b>			
Pumptrk <b>16</b>		No. Cementer <b>Rick</b>		Poz. Mix <b>10</b>			
Bulktrk <b>12</b>		No. Driver <b>Billy David</b>		Gel. <b>3</b>			
Bulktrk <b>PU</b>		No. Driver <b>Travis</b>		Calcium <b>5</b>			
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Remarks: <b>cement did circulate</b>				Salt			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
				Handling <b>158</b>			
				Mileage			
				<b>FLOAT EQUIPMENT</b>			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge <b>Surface</b>			
				Mileage <b>31</b>			
				Tax			
				Discount			
				Total Charge			

X Signature *[Handwritten Signature]*

**JOB LOG**

**SWIFT Services, Inc.**

DATE 2-27-13 PAGE NO.

CUSTOMER *Danning & Nelson* WELL NO. *#1-14* LEASE *Stal maker "B"* JOB TYPE *2 stage* TICKET NO. *23862*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1950							0-10c w/ FE
								RTD 4079'
								5 1/2" x 14# x 4079' x 21'
								Cent. 1, 3, 5, 7, 9, 11, 59
								Basket 60
								D.V. Tool 60 @ 1586'
	2050							Start FE
	2245							Break Circ.
	2315	5	0			200		Start PreFlushes 500 gal Mud Flash
		5	32/0			200		20661 KCL Flush
	2327		36					Start 150 sks Ea-2 Cement
								End Cement
								Wash P/L
	2335	6	0			200		Drop LD Plug
	2345	6	60			200		Start Displacement wtr
	2350	5	85			250		mud
	2355		98			650/1400		KCL
								Land Plug
	0000							Release Pressure / Float Hold
	0005	2.5	7/4					Drop Opening Plug
	0009					1100		Plug RHYMT 30/15 sks <del>2</del> SMD
	0010	5	0			200		Open D.V.
	0028		86					Start 155 sks SMD Cement
								End Cement
								Drop Closing Plug
	0035	5	0			200		Start Displacement
	0040	4	25			250		Circ. Cement
	0045		39			400/1500		Land Plug
								Release Pressure
								Float Hold
								CIRC 30 sks cnt top it
								Thank you
								Nick, David E. + Flint

# 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 STALNAKER 'B' #1-14

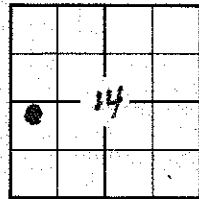
FIELD WILDCAT

LOCATION 2369' FSL & 410' FWL

SEC. 14 TWP. 14S RGE. 21W

COUNTY TREGO

STATE KANSAS



PRODUCTION MARMATON

ELEVATION KB 2226

DF

GL 2218

Drilling Measured From: KB

Samples Saved From 3500 To: TD

Drilling Time From 3200 To: TD

Samples Examined From: 3500 To: TD

Geological Supervision From 3500 To Total Depth

Wellsite Geologist RON NELSON

Electrical Surveys NABORS - DUAL IND. -

SONIC - DENSITY NEUTRON -  
MICRO

OPERATOR DNOCI

CONTRACTOR DISCOVERY DRILLING Rig #3

COMM: 2-16-13 COMP: 2-27-13

### CASING RECORD

SURF: 8 5/8" @ 218' PROD: 5 1/2" @ 4078'

TOTAL DEPTH DRILLERS: 4079'

TOTAL DEPTH LOG: 4081'

### FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
<u>TOP ANHYDRITE</u>	<u>1589</u>	<u>1590</u>	<u>+636</u>	<u>NA</u>
<u>BASE ANHYDRITE</u>	<u>1630</u>	<u>1632</u>	<u>+594</u>	<u>NA</u>
<u>TOP KA</u>	<u>3294</u>	<u>3295</u>	<u>-1069</u>	<u>+6</u>
<u>HEEBNER</u>	<u>3532</u>	<u>3534</u>	<u>-1308</u>	<u>+9</u>
<u>TORONTO</u>	<u>3552</u>	<u>3554</u>	<u>-1328</u>	<u>+9</u>
<u>LHC</u>	<u>3573</u>	<u>3574</u>	<u>-1348</u>	<u>+7</u>
<u>BRC</u>	<u>3819</u>	<u>3818</u>	<u>-1592</u>	<u>+7</u>
<u>MARMATON</u>	<u>3901</u>	<u>3904</u>	<u>-1678</u>	<u>+6</u>
<u>CHEROKEE SHALE</u>	<u>3947</u>	<u>3948</u>	<u>-1722</u>	<u>+10</u>
<u>CONGLOMERATE</u>	<u>3967</u>	<u>3970</u>	<u>-1744</u>	<u>+8</u>
<u>ARBUCHE</u>	<u>4028</u>	<u>4030</u>	<u>-1804</u>	<u>-26</u>

REFERENCE WELL FOR STRUCTURE BLACK DIAMONDS STALNAKER #1 - D&A@  
SW-NW-SW SEC 14-14-21



### DRILL STEM TESTS

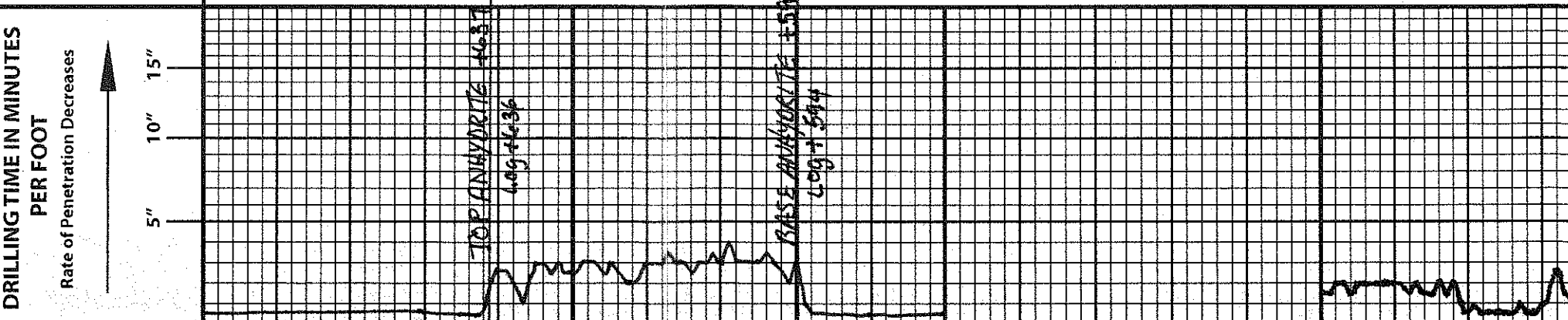
No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHP-FHP	RECOVERY

REMARKS AND RECOMMENDATIONS RAW 5 1/2" PRODUCTION CASINGS FOR MARMATON  
PRODUCTION.

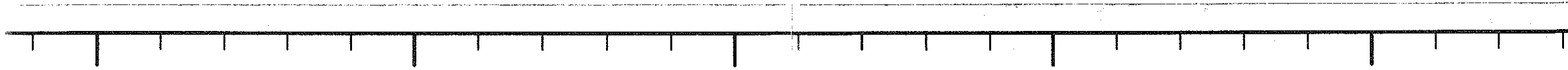
Ron Nelson

# LEGEND

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

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	<p>1550</p> <p>1600</p> <p>1650</p> <p>3200</p>	<p style="text-align: center;">LITHOLOGY</p>	<p style="text-align: center;">SAMPLE DESCRIPTIONS</p>	<p style="text-align: center;">OIL SHOWS</p>	<p style="text-align: center;">REMARKS</p>





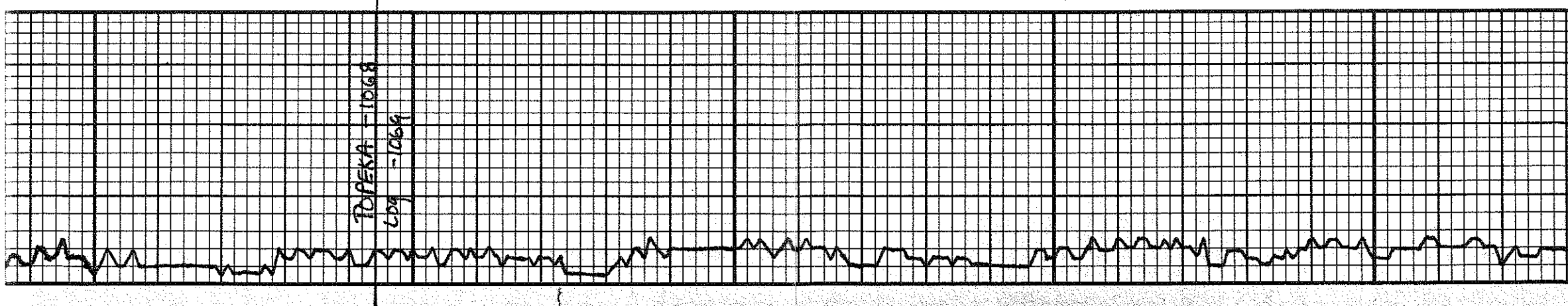
50

3300

50

3400

50



TOPEKA - 1068  
609 - 1069

3500

11/26/82 - 1306  
Log - 1308

50

10/20/82 - 1320  
Log - 1328

11/26/82 - 1344  
Log - 1348

3600

50

3700

tan chryls N.S. 9d 1841

modons wh. tan us prob  
N.S.

vans wh us probus  
w/ the wh ent

sh am cas

pus braces

shs gry dk gry bra

modons tan fa xylus N.S.

gry sh

vans wh tan us w/ tan ool

gry & bra latel shs

LS wh - tan, mst v fa xylus  
braces w/ sh ool tan  
all prob all N.S.

wh vans fa xylus barren us  
N.S.

dk gry sh

LS wh - tan w/ braces  
all v fa xylus  
app tan us plous, may blk  
str, ssfd, w/ sh, mst mic xylus  
vans N.S. no p

sh ool

LS wh - tan mst fa - v fa xylus  
DMS pr xylus 1-2 pcs w/ bk  
edge br 1-500 no ool

LS wh - tan mic xylus v vans  
no app N.S. w/ tan ool

dk gry sh

LS wh 1-2 pcs tan v fa ool  
w/ braces pr mst v vans wh  
mic xylus N.S.

gry sh

LS tan mo suc xylus, plous 1-2 pcs  
w/ sh ool. sh ool tan ool

sh ool gry

LS wh - tan fa - v fa xylus ool  
upr right N.S. 1-2 w/ ool's  
pr fa ool

tan mic xylus v vans no app  
N.S.

are w/ sh - tan

op v vans

shs dk gry 9" 1

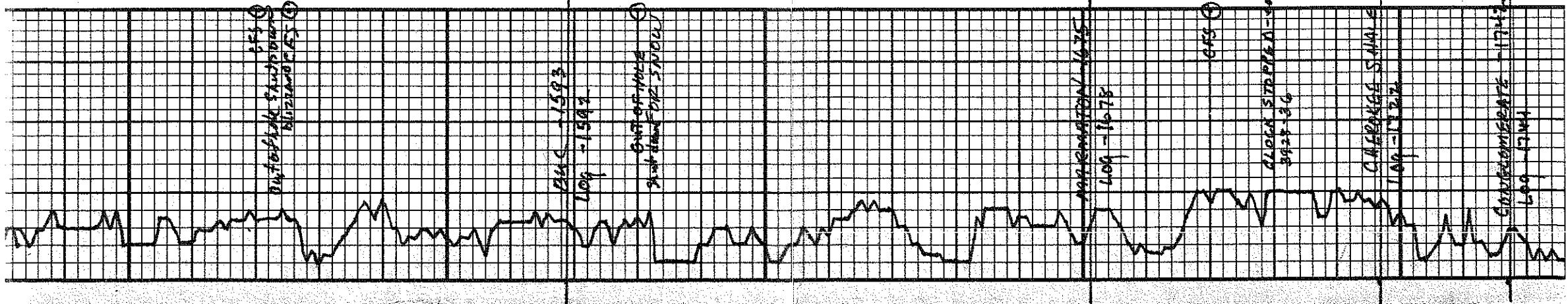
LS tan - tan fa w/ braces ool in  
v fa mat. mst v fa xylus  
all v pr ool all N.S.

w/ tan ool

sh ool dk gry

DST #1  
3594' - 3650'  
45° 45' 45" - 45°  
w/ sh ool below both opens  
IFP 16-27  
FFP 27-31  
SIP 269-201  
HP 1749-1703  
REC 46' 0 CM  
459000, 559000

DST #2  
3724' - 3770'



LS brn - tan, fwpes v das mat w/ tan silt clay & sm friable 1-2 w/vis fragments ssd - sta. 604	LS wh - grey ss, fwpes tortoise w/ ed ooc. 1-2 w/ gtd blk stn	brng mic xyl w/ tan wh - brown all NS w/ wh chd	gry - wh y brn ss	LS wh fmsuc xyl, friable, qd xyl & NS.	brng mic xyl w/ tan wh - brown all NS w/ wh chd NS.	BLK - v. light grey sh	tan - wh fwpes v das oaky ss, friable	MST VONS v pr falcus	w/ tan chd	SA gry dk grey	brn brn - tan fwpes	RO Brn gry sh	w/ strgs tan - brn ons LS NS.	abund RO brn pry sh	LS wh tan mic v luv ons NO APPONS	w/ l - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50	ONS tan - wh LS NO APPONS	SHS RO Brn	gry - dk gry	ONS wh LS prp MS. mic xyl	Dolo dm - gry, wh mosuc xyl, w/ tan visible bedding plane subd	gry - wh v g st, v rd ed qd	pp f xyl, qd fr ac p, but many not friable sm qd pebbles sm & sm st	mic xyl, tan - wh LS v pr, v rd	MS w/ abundant chd wh. tan. BRU. op	aq	SHS Brn grey brn eo	abund RO SA	SS clr eps qtz, qd to blk d st, w/ 90# sfg, no ood. sm eps in top 2m	3m to 5m	SS clr eps, no eps clr prns, BUS st, sh	55 to 1000	frng m stly chd wh. tan. BRU. op
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2  
1  
5  
30-30-30-30  
1st op 1 1/4" BLOW  
2nd op 1" BLOW  
IFP 14-20  
FFP 19-22  
SIP 58-44  
HP 1819-1792  
R&C 30' SDCM

DST # 3  
3903-3920  
45" 45' 45" - 45"  
1st op 808 34 min  
2nd op 808 31 min  
w/ surf blow both SZ's  
IFP 18-52  
FFP 55-83  
SIP 1054-1011  
HP 1899-1871  
R&C 120' Gas  
90' 560 IL  
90' 50' m.c. oil

DST # 4  
3940-3983  
45' 45' 45" - 45"  
1st op 3 3/4" BLOW  
2nd op 3 1/4" BLOW  
IFP 18-53  
FFP 34-85  
SIP 311-176  
HP 1441-1408  
R&C 40' V SWCM

50

3800

50

3900

-1721

50

1593  
LOG  
CALIBRATION

1593  
LOG

1678  
LOG

1678  
LOG

1721  
LOG

1721  
LOG

1744  
LOG

CFS ①

ABSOLUTE -1800  
LOG -1800

CFS ②

R7D -1953  
L7D -1955

4000

50

4100

abundant chert top of my Ran sp  
shp frs a glauc. n.s.

mostly calc. chert w/sm nodules  
9"y glauc. n.s.

abundant varicolored n.s., shp  
frs of v. msh gray blue blue

grn calc. n.s.  
w/ frs of ss, fr. lmy n.s.  
grn sh

base tan-gray sil-zepes w/ gd n.s.  
n.s.

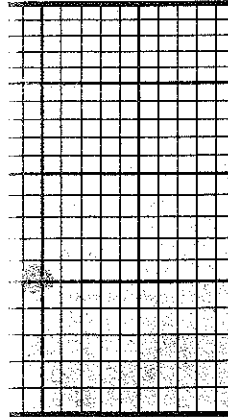
tan-zepes sil-zepes base n.s.  
p. sh

base of chert top of my Ran sp  
wh-tan, fr. gd n.s.

intermediate sil-zepes  
base n.s.

base of n.s.

Ran Ran



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

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

CONTRACTOR Discovery Drilling Rig #3  
 LEASE Stinsons B 14-14 IP Albem  
 ELEVATION 2226' NB RTD 4079'

LOCATION 2.369' ESE of 440' ENE  
 SEC 14 TWP 14S RNG 26W  
 COUNTY TRERO STATE KANSAS



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

### **Stalnaker "B" #1-14**

### **14-14s-21w Trego,KS**

Start Date: 2013.02.20 @ 10:10:00

End Date: 2013.02.20 @ 17:47:00

Job Ticket #: 52027                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.05 @ 10:40:47



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

ATTN: Ron Nelson

Job Ticket: 52027

**DST#: 1**

Test Start: 2013.02.20 @ 10:10:00

## GENERAL INFORMATION:

Formation: **KC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:59:30  
 Time Test Ended: 17:47:00  
 Interval: **3594.00 ft (KB) To 3650.00 ft (KB) (TVD)**  
 Total Depth: 3650.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2224.00 ft (KB)  
 2217.00 ft (CF)  
 KB to GR/CF: 7.00 ft

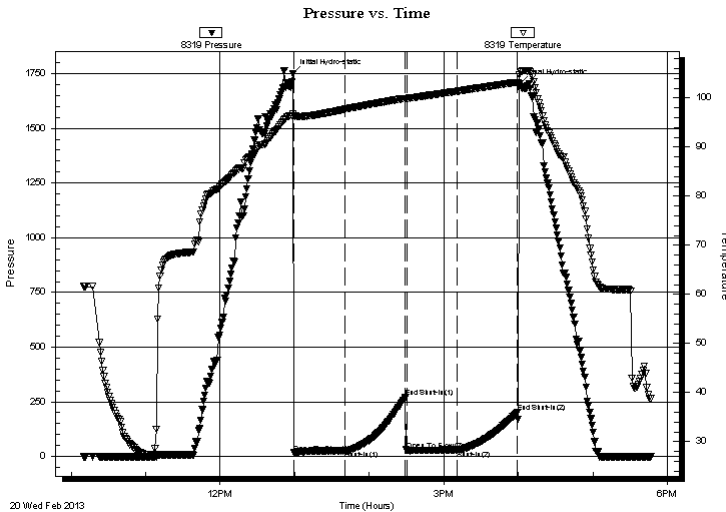
## Serial #: 8319

Inside

Press @ Run Depth: 30.57 psig @ 3595.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.02.20 End Date: 2013.02.20 Last Calib.: 2013.02.20  
 Start Time: 10:10:05 End Time: 17:46:59 Time On Btm: 2013.02.20 @ 12:58:30  
 Time Off Btm: 2013.02.20 @ 16:01:30

TEST COMMENT: IF-5" blow  
 ISI-weak surface blow  
 FF-5" blow  
 FSI-weak surface blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.60	96.69	Initial Hydro-static
1	16.48	96.35	Open To Flow (1)
42	27.04	97.69	Shut-In(1)
91	269.16	99.92	End Shut-In(1)
92	27.31	99.91	Open To Flow (2)
132	30.57	101.36	Shut-In(2)
181	200.58	103.20	End Shut-In(2)
183	1703.27	105.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 45%O 55%M	0.29

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52027

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2013.02.20 @ 10:10:00

## GENERAL INFORMATION:

Formation: **KC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:59:30  
 Time Test Ended: 17:47:00  
 Interval: **3594.00 ft (KB) To 3650.00 ft (KB) (TVD)**  
 Total Depth: 3650.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2224.00 ft (KB)  
 2217.00 ft (CF)  
 KB to GR/CF: 7.00 ft

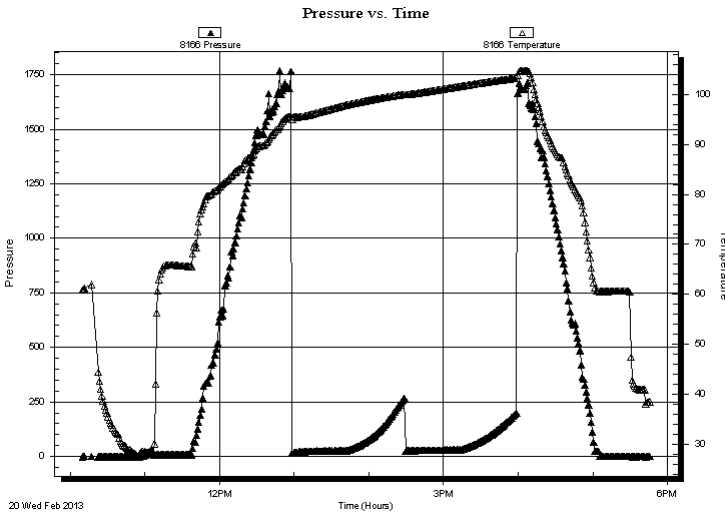
**Serial #: 8166**

**Outside**

Press @ RunDepth: psig @ 3595.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.02.20 End Date: 2013.02.20 Last Calib.: 2013.02.20  
 Start Time: 10:10:05 End Time: 17:45:59 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF-5" blow  
 ISL-w eak surface blow  
 FF-5" blow  
 FSL-w eak surface blow

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 45%O 55%M	0.29

## 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.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52027

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2013.02.20 @ 10:10:00

## Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	50000.00 lb
Drill Pipe Above KB:	7.00 ft			Final	50000.00 lb
Depth to Top Packer:	3594.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	77.00 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			3574.00	
Shut In Tool	5.00			3579.00	
Hydraulic tool	5.00			3584.00	
Packer	5.00			3589.00	21.00 Bottom Of Top Packer
Packer	5.00			3594.00	
Stubb	1.00			3595.00	
Recorder	0.00	8319	Inside	3595.00	
Recorder	0.00	8166	Outside	3595.00	
Perforations	3.00			3598.00	
Change Over Sub	1.00			3599.00	
Drill Pipe	32.00			3631.00	
Change Over Sub	1.00			3632.00	
Perforations	15.00			3647.00	
Bullnose	3.00			3650.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 77.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52027

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2013.02.20 @ 10:10:00

## 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: 47.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCM 45%O 55%M	0.288

Total Length: 40.00 ft      Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

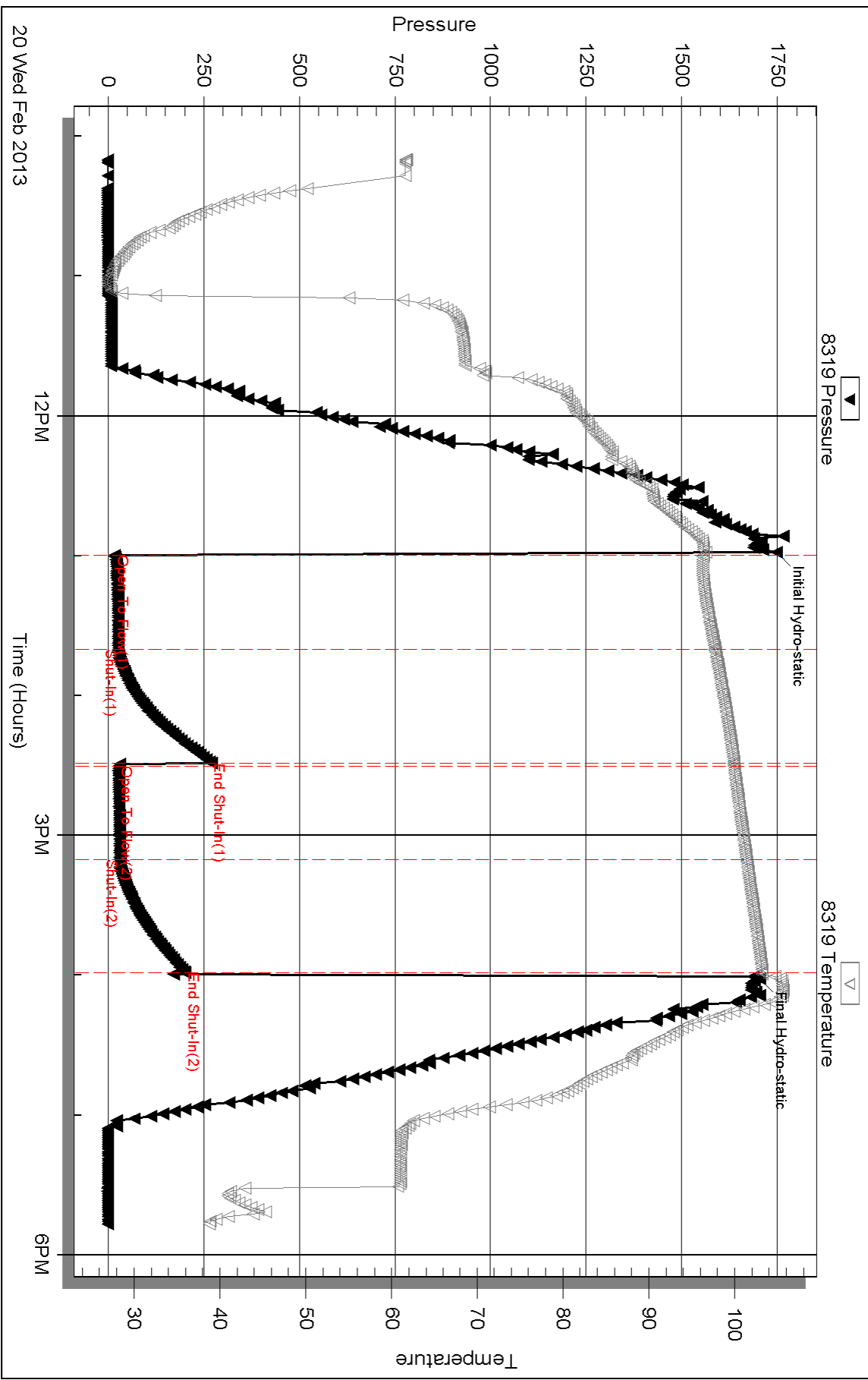
Inside

Downing-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52027

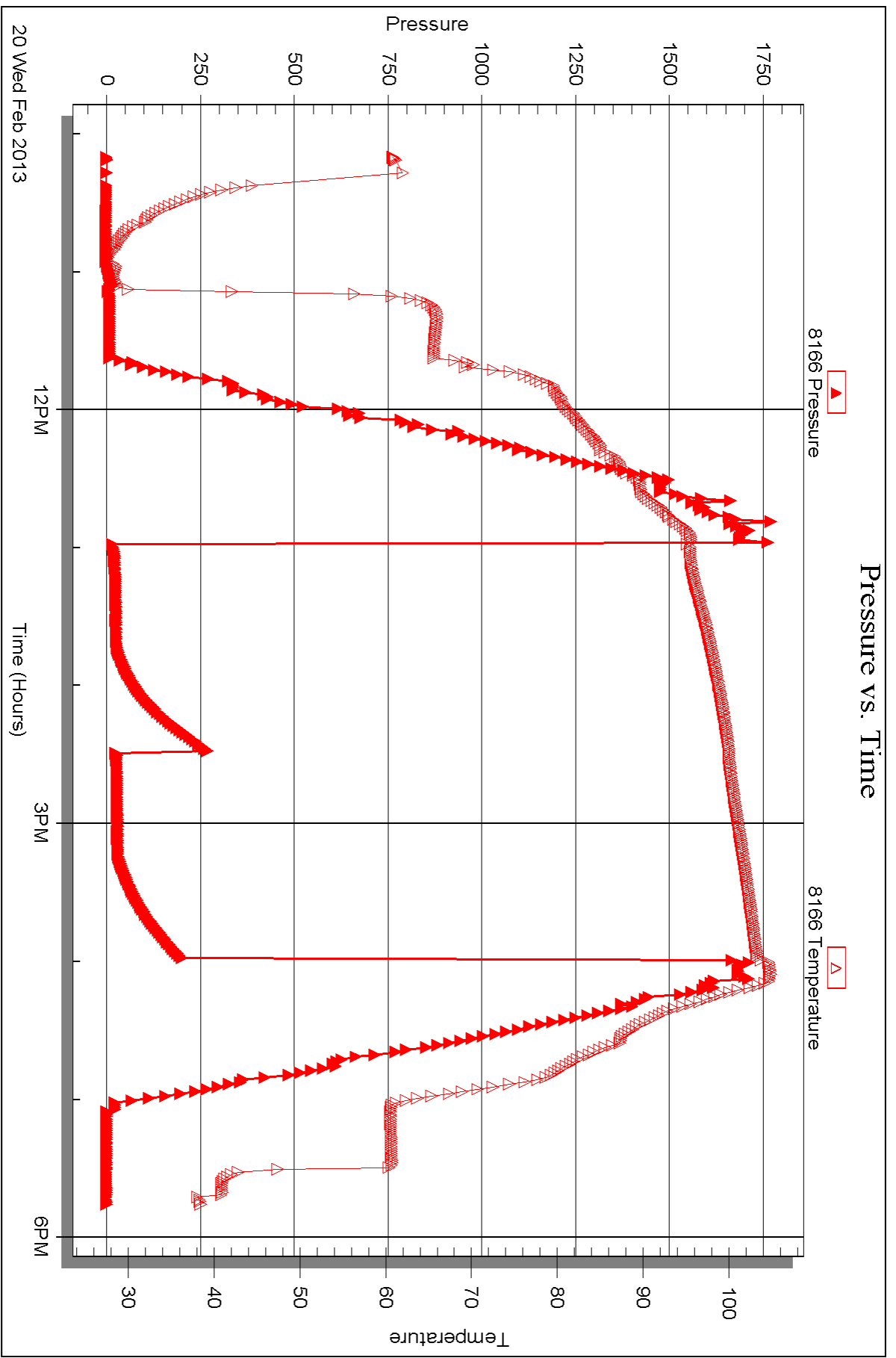
Printed: 2013.03.05 @ 10:40:50

Serial #: 8166

Outside Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52027

Printed: 2013.03.05 @ 10:40:50



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

### **Stalnaker "B" #1-14**

### **14-14s-21w Trego,KS**

Start Date: 2013.02.24 @ 04:30:00

End Date: 2013.02.24 @ 10:20:30

Job Ticket #: 52028                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.05 @ 10:40:06



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

ATTN: Ron Nelson

Job Ticket: 52028

**DST#: 2**

Test Start: 2013.02.24 @ 04:30:00

## GENERAL INFORMATION:

Formation: **KC "I,J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:20:30  
 Time Test Ended: 10:20:30  
 Interval: **3724.00 ft (KB) To 3770.00 ft (KB) (TVD)**  
 Total Depth: 3770.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2224.00 ft (KB)  
 2217.00 ft (CF)  
 KB to GR/CF: 7.00 ft

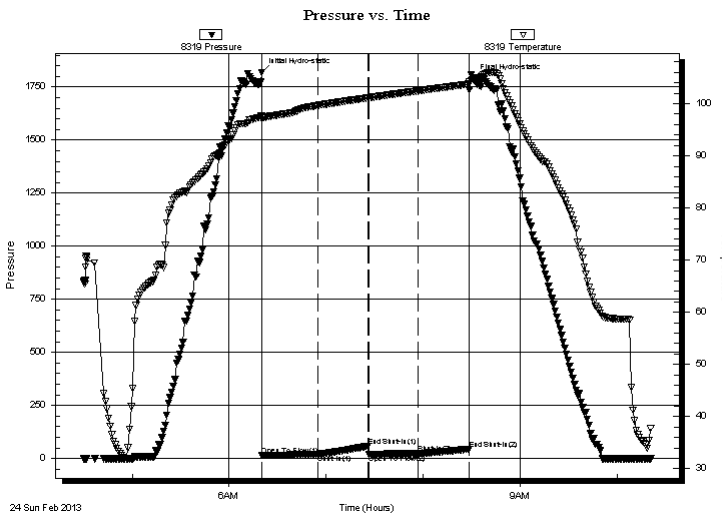
## Serial #: 8319

Inside

Press @ RunDepth: 22.33 psig @ 3725.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.02.24 End Date: 2013.02.24 Last Calib.: 2013.02.24  
 Start Time: 04:30:05 End Time: 10:20:29 Time On Btm: 2013.02.24 @ 06:20:00  
 Time Off Btm: 2013.02.24 @ 08:30:30

TEST COMMENT: IF-1 1/4" blow  
 IS-No blow  
 FF-1" blow  
 FSI-Weak surface blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.09	97.64	Initial Hydro-static
1	14.35	97.21	Open To Flow (1)
35	20.44	99.64	Shut-In(1)
66	58.27	101.11	End Shut-In(1)
67	18.72	101.17	Open To Flow (2)
97	22.33	102.46	Shut-In(2)
128	44.29	103.72	End Shut-In(2)
131	1792.02	104.57	Final Hydro-static

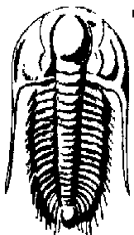
## Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 10%O 90%M	0.15

## Gas Rates

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

\* Recovery from multiple tests



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52028 **DST#: 2**

ATTN: Ron Nelson

Test Start: 2013.02.24 @ 04:30:00

### GENERAL INFORMATION:

Formation: **KC "I,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:20:30

Time Test Ended: 10:20:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3724.00 ft (KB) To 3770.00 ft (KB) (TVD)**

Reference Elevations: 2224.00 ft (KB)

Total Depth: 3770.00 ft (KB) (TVD)

2217.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8166 Outside**

Press @ Run Depth: psig @ 3725.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.24 End Date: 2013.02.24

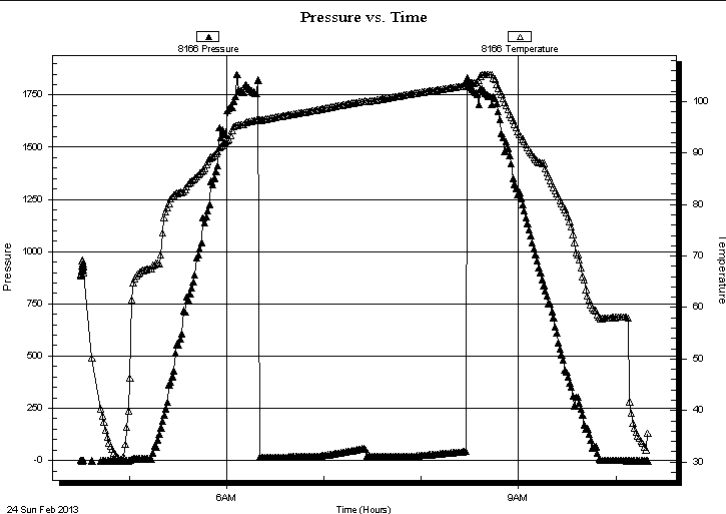
Last Calib.: 2013.02.24

Start Time: 04:30:05 End Time: 10:19:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-1 1/4" blow  
IS- No blow  
FF-1" blow  
FSI-Weak surface blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 10%O 90%M	0.15

\* 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.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52028

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2013.02.24 @ 04:30:00

## Tool Information

Drill Pipe:	Length: 3703.00 ft	Diameter: 3.80 inches	Volume: 51.94 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3724.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	67.00 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			3704.00	
Shut In Tool	5.00			3709.00	
Hydraulic tool	5.00			3714.00	
Packer	5.00			3719.00	21.00 Bottom Of Top Packer
Packer	5.00			3724.00	
Stubb	1.00			3725.00	
Recorder	0.00	8319	Inside	3725.00	
Recorder	0.00	8166	Outside	3725.00	
Perforations	3.00			3728.00	
Change Over Sub	1.00			3729.00	
Drill Pipe	32.00			3761.00	
Change Over Sub	1.00			3762.00	
Perforations	5.00			3767.00	
Bullnose	3.00			3770.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52028

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2013.02.24 @ 04:30:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 10%O 90%M	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

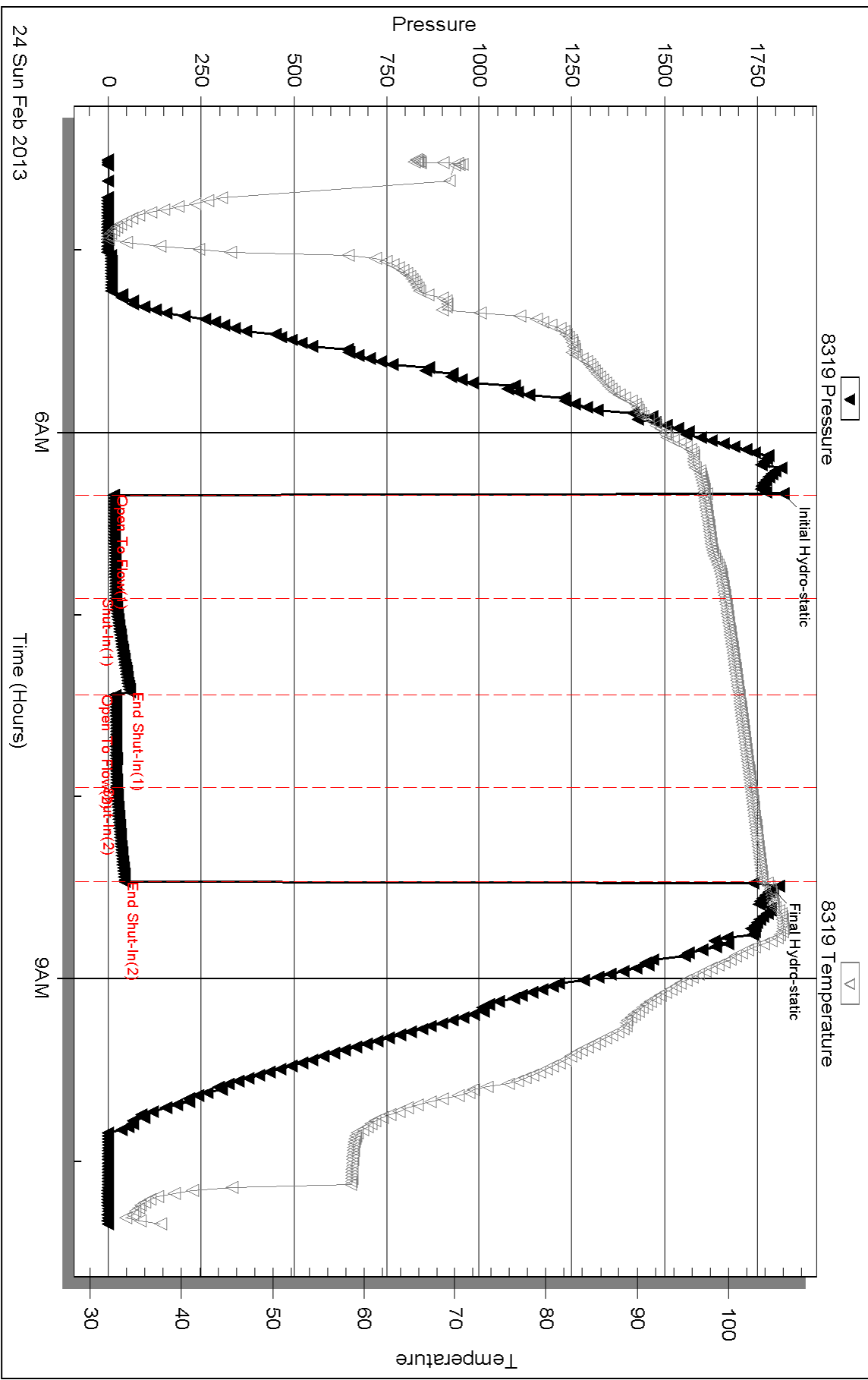
Inside

Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52028

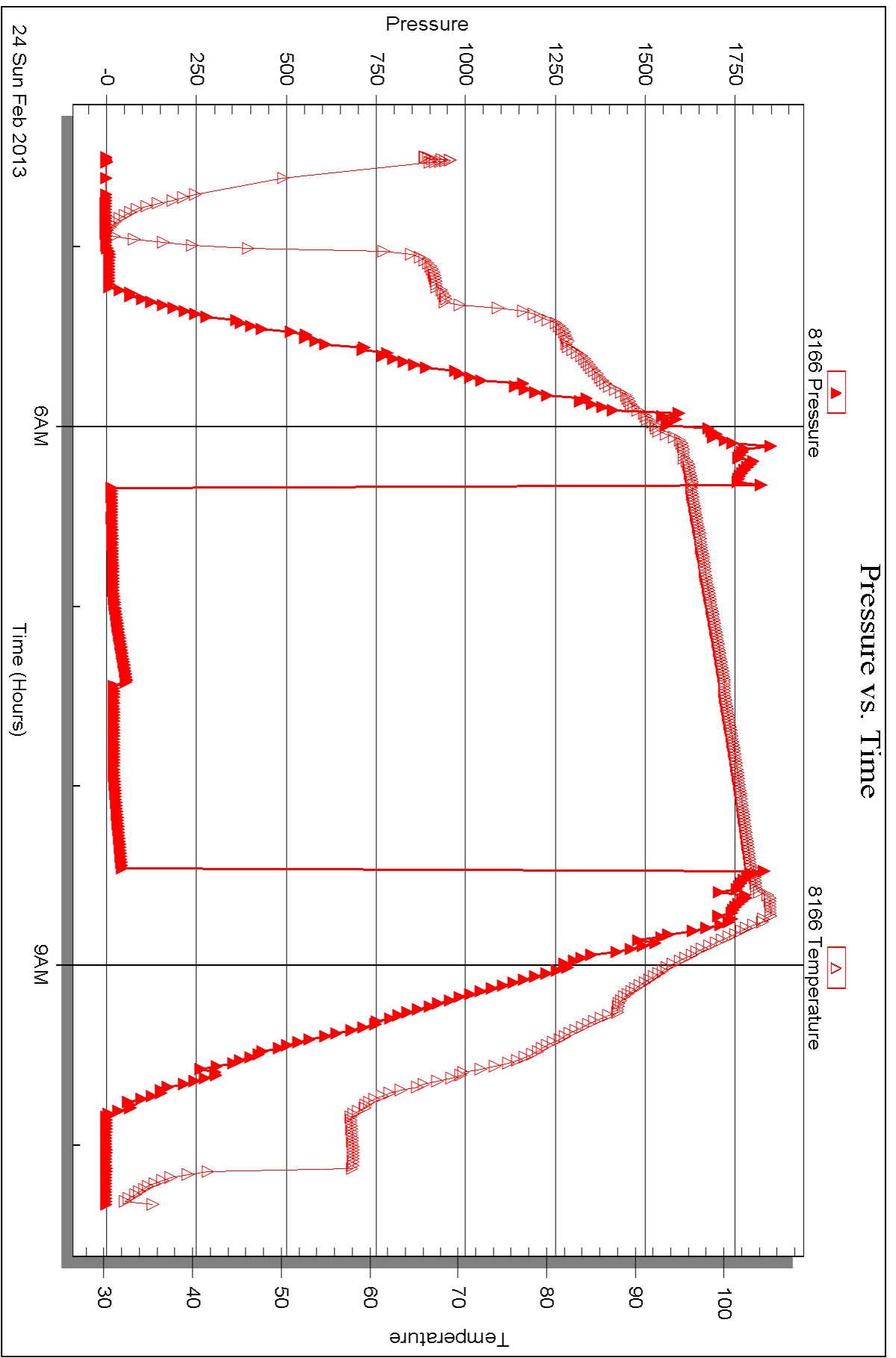
Printed: 2013.03.05 @ 10:40:08

Serial #: 8166

Outside Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52028

Printed: 2013.03.05 @ 10:40:09



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

### **Stalnaker "B" #1-14**

### **14-14s-21w Trego,KS**

Start Date: 2013.02.26 @ 00:20:00

End Date: 2013.02.26 @ 07:53:00

Job Ticket #: 52029                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.05 @ 10:39:27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

ATTN: Ron Nelson

Job Ticket: 52029

**DST#: 3**

Test Start: 2013.02.26 @ 00:20:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:42:30

Time Test Ended: 07:53:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3903.00 ft (KB) To 3920.00 ft (KB) (TVD)**

Reference Elevations: 2224.00 ft (KB)

Total Depth: 3650.00 ft (KB) (TVD)

2217.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8166 Outside**

Press @ Run Depth: 82.57 psig @ 3904.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.26

End Date: 2013.02.26

Last Calib.: 2013.02.26

Start Time: 00:20:05

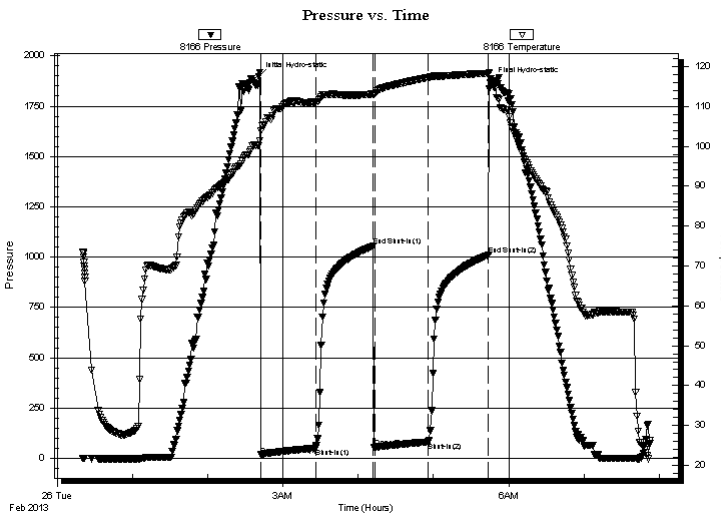
End Time: 07:52:59

Time On Btm: 2013.02.26 @ 02:40:30

Time Off Btm: 2013.02.26 @ 05:46:00

**TEST COMMENT:** IF-BOB in 34 min  
ISI-w eak surface blow  
FF-BOB in 31 min  
FSI-w eak surface blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.62	100.16	Initial Hydro-static
2	18.38	103.85	Open To Flow (1)
46	52.16	111.11	Shut-In(1)
91	1053.91	113.08	End Shut-In(1)
93	54.69	113.16	Open To Flow (2)
136	82.57	117.27	Shut-In(2)
184	1010.65	118.32	End Shut-In(2)
186	1871.39	115.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	SGMCO 10%G 20%M 70%O	0.99
90.00	SGO 10%G 90%O	1.26
0.00	120ft GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

ATTN: Ron Nelson

Job Ticket: 52029 **DST#: 3**

Test Start: 2013.02.26 @ 00:20:00

## GENERAL INFORMATION:

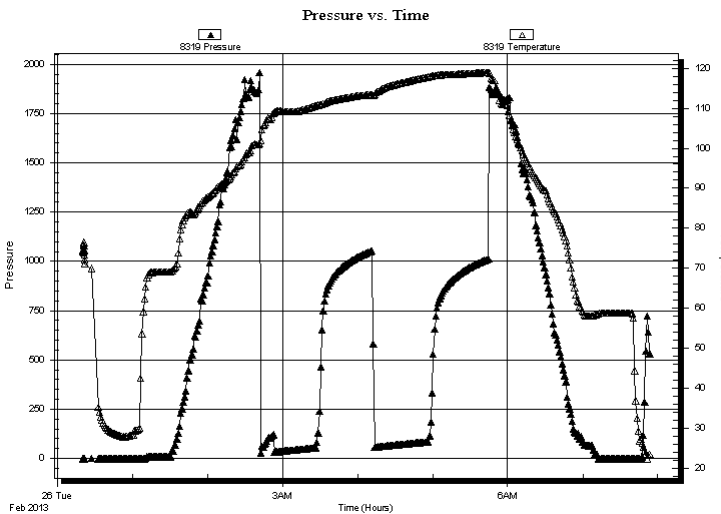
Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:42:30  
 Time Test Ended: 07:53:00  
 Interval: **3903.00 ft (KB) To 3920.00 ft (KB) (TVD)**  
 Total Depth: 3650.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2224.00 ft (KB)  
 2217.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8319 Inside**

Press @ Run Depth: psig @	3904.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2013.02.26	End Date: 2013.02.26	Last Calib.:	2013.02.26
Start Time: 00:20:05	End Time: 07:53:29	Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** IF-BOB in 34 min  
 ISI-w eak surface blow  
 FF-BOB in 31 min  
 FSI-w eak surface blow

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	SGMCO 10%G 20%M 70%O	0.99
90.00	SGO 10%G 90%O	1.26
0.00	120ft GIP	0.00

\* 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.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52029

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 00:20:00

## Tool Information

Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	50000.00 lb
Drill Pipe Above KB:	10.00 ft			Final	51000.00 lb
Depth to Top Packer:	3903.00 ft				
Depth to Bottom Packer:	ft				
Interval betw een Packers:	17.00 ft				
Tool Length:	38.00 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			3883.00	
Shut In Tool	5.00			3888.00	
Hydraulic tool	5.00			3893.00	
Packer	5.00			3898.00	21.00 Bottom Of Top Packer
Packer	5.00			3903.00	
Stubb	1.00			3904.00	
Recorder	0.00	8319	Inside	3904.00	
Recorder	0.00	8166	Outside	3904.00	
Perforations	13.00			3917.00	
Bullnose	3.00			3920.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>38.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52029

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 00:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	SGMCO 10%G 20%M 70%O	0.989
90.00	SGO 10%G 90%O	1.262
0.00	120ft GIP	0.000

Total Length: 180.00 ft      Total Volume: 2.251 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

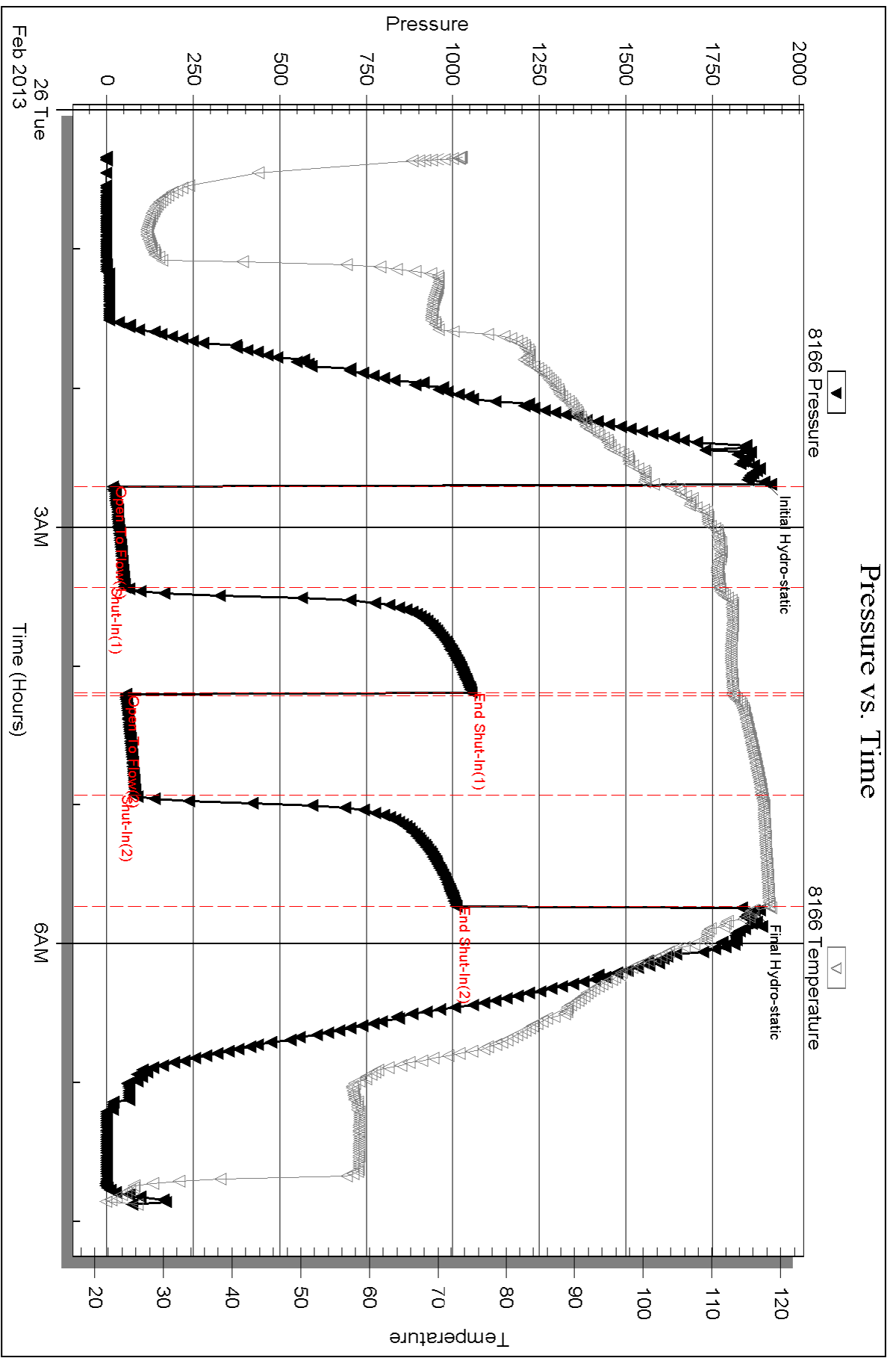


Serial #: 8166

Outside Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 3



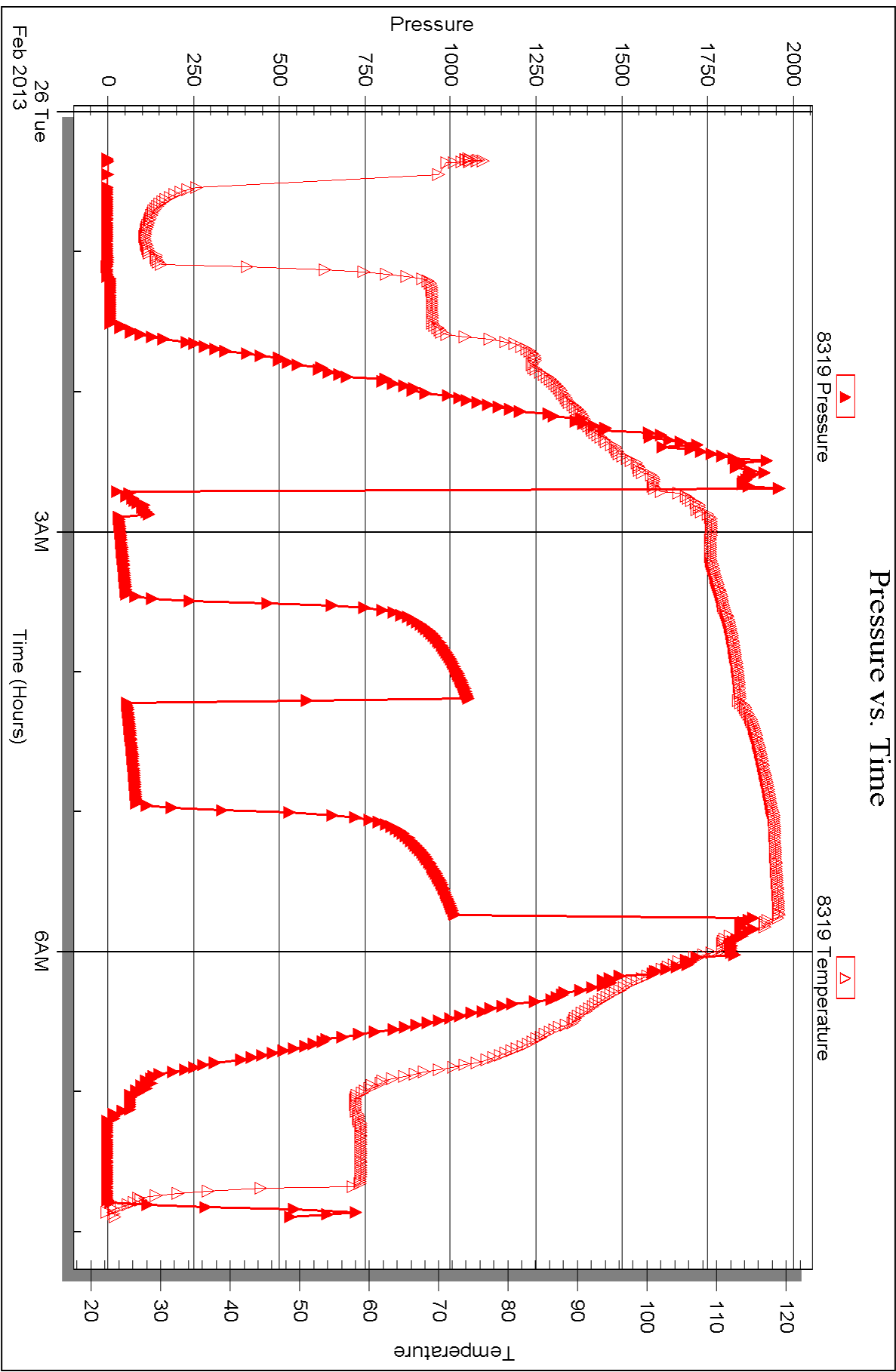
Serial #: 8319

Inside

Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 3





## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

### **Stalnaker "B" #1-14**

### **14-14s-21w Trego,KS**

Start Date: 2013.02.26 @ 17:20:00

End Date: 2013.02.27 @ 00:18:00

Job Ticket #: 52030                      DST #: 4

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

Printed: 2013.03.05 @ 10:37:32



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

ATTN: Ron Nelson

Job Ticket: 52030

**DST#: 4**

Test Start: 2013.02.26 @ 17:20:00

## GENERAL INFORMATION:

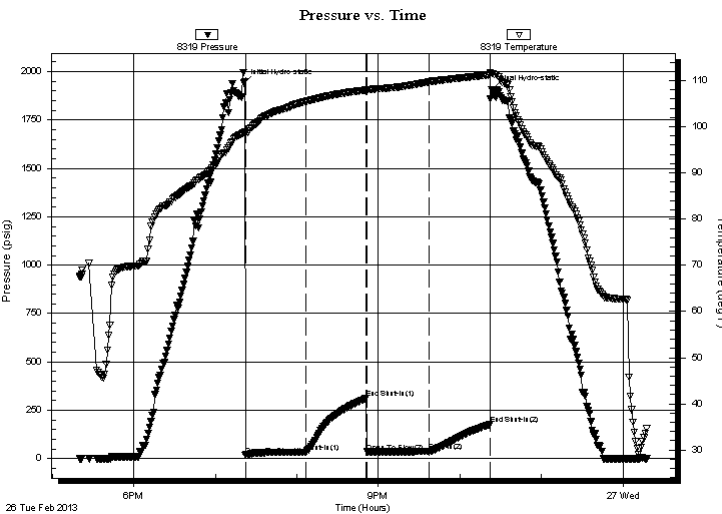
Formation: **sd**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:22:00  
 Time Test Ended: 00:18:00  
 Interval: **3940.00 ft (KB) To 3983.00 ft (KB) (TVD)**  
 Total Depth: 3650.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2224.00 ft (KB)  
 2217.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8319

Inside

Press @ Run Depth: 35.21 psig @ 3941.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.02.26 End Date: 2013.02.27 Last Calib.: 2013.02.27  
 Start Time: 17:20:05 End Time: 00:17:59 Time On Btm: 2013.02.26 @ 19:21:00  
 Time Off Btm: 2013.02.26 @ 22:23:30

TEST COMMENT: IF-3 3/4" blow  
 IS-No blow  
 FF-3/4" blow  
 FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.04	98.75	Initial Hydro-static
1	17.68	98.46	Open To Flow (1)
46	33.39	105.48	Shut-In(1)
90	310.79	107.95	End Shut-In(1)
91	34.08	107.85	Open To Flow (2)
137	35.21	109.73	Shut-In(2)
181	175.70	111.25	End Shut-In(2)
183	1907.92	111.52	Final Hydro-static

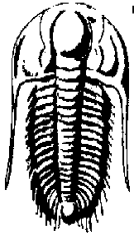
## Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSWCM 5%W 95%M	0.29

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

ATTN: Ron Nelson

Job Ticket: 52030 **DST#: 4**

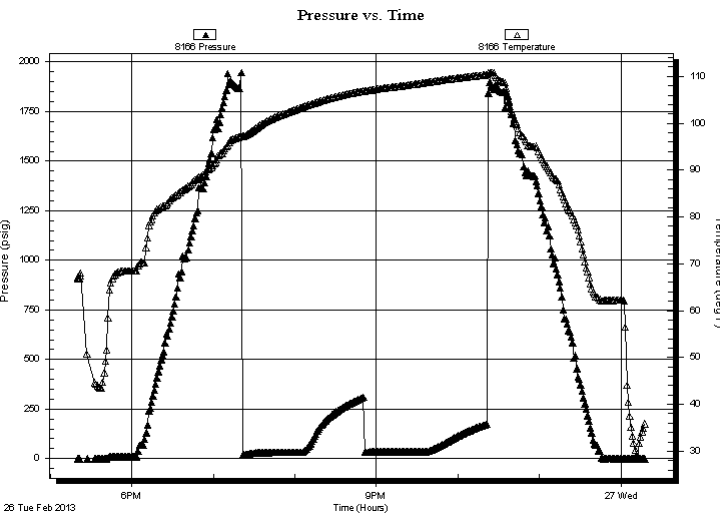
Test Start: 2013.02.26 @ 17:20:00

### GENERAL INFORMATION:

Formation: <b>sd</b>		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Brett Dickinson
Time Tool Opened: 19:22:00		Unit No: 59
Time Test Ended: 00:18:00		
<b>Interval: 3940.00 ft (KB) To 3983.00 ft (KB) (TVD)</b>		Reference Elevations: 2224.00 ft (KB)
Total Depth: 3650.00 ft (KB) (TVD)		2217.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 7.00 ft

<b>Serial #: 8166</b>	<b>Outside</b>		
Press @ RunDepth: psig @ 3941.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2013.02.26	End Date: 2013.02.27	Last Calib.: 2013.02.27	
Start Time: 17:20:05	End Time: 00:17:29	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF-3 3/4" blow  
ISI-No blow  
FF-3/4" blow  
FSI-No blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSWCM 5%W 95%M	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.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52030

**DST#: 4**

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 17:20:00

## Tool Information

Drill Pipe:	Length: 3897.00 ft	Diameter: 3.80 inches	Volume: 54.66 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	51000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3940.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	64.00 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			3920.00	
Shut In Tool	5.00			3925.00	
Hydraulic tool	5.00			3930.00	
Packer	5.00			3935.00	21.00 Bottom Of Top Packer
Packer	5.00			3940.00	
Stubb	1.00			3941.00	
Recorder	0.00	8319	Inside	3941.00	
Recorder	0.00	8166	Outside	3941.00	
Perforations	3.00			3944.00	
Change Over Sub	1.00			3945.00	
Drill Pipe	32.00			3977.00	
Change Over Sub	1.00			3978.00	
Perforations	2.00			3980.00	
Bullnose	3.00			3983.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co Inc.

**14-14s-21w Trego,KS**

PO Box 1019  
Hays KS 67601

**Stalnaker "B" #1-14**

Job Ticket: 52030

**DST#: 4**

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 17:20:00

## 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: 46.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	VSWCM 5%W 95%M	0.288

Total Length: 40.00 ft      Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

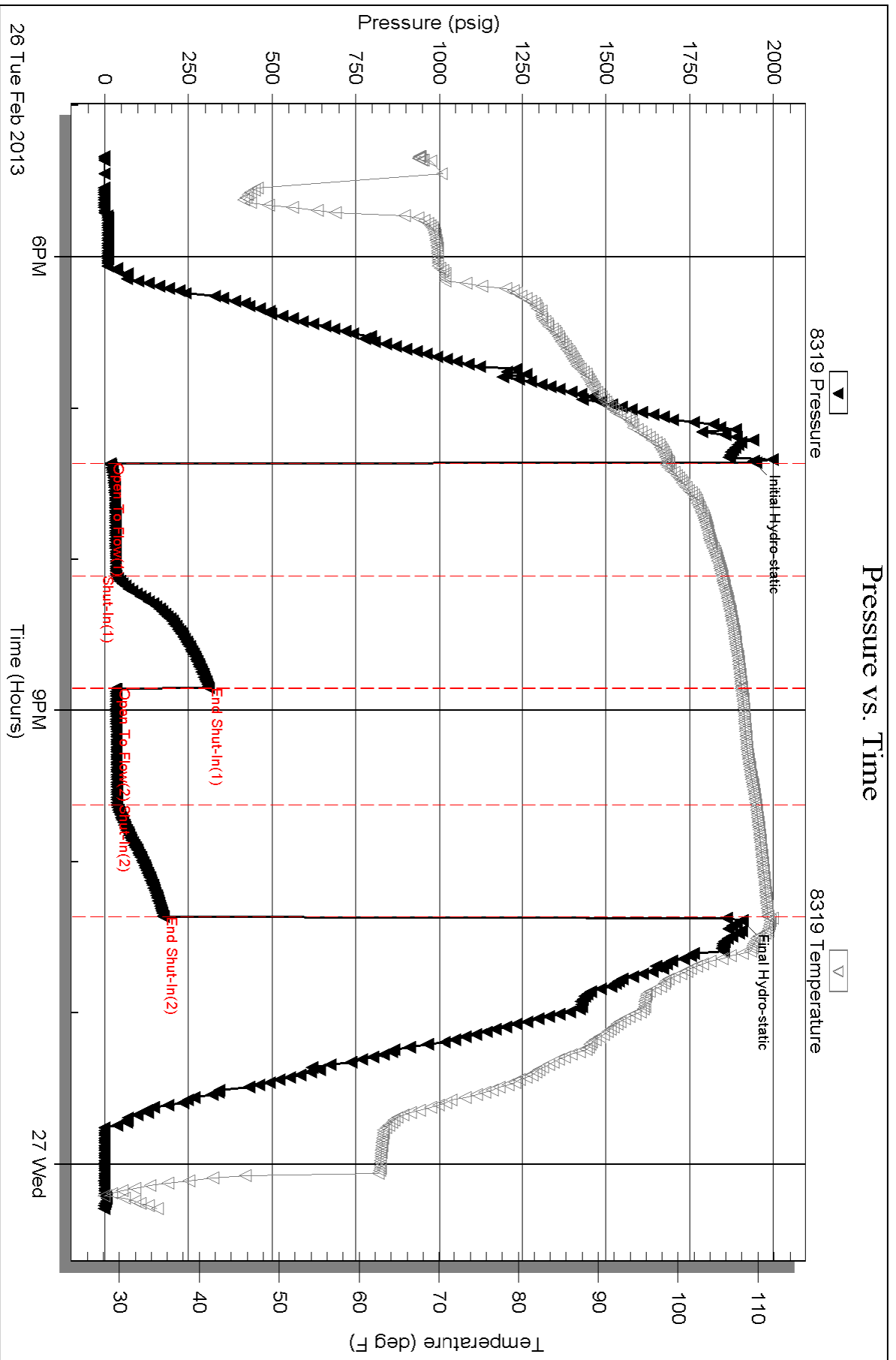
Inside

Dow nung-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 4

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52030

Printed: 2013.03.05 @ 10:37:35

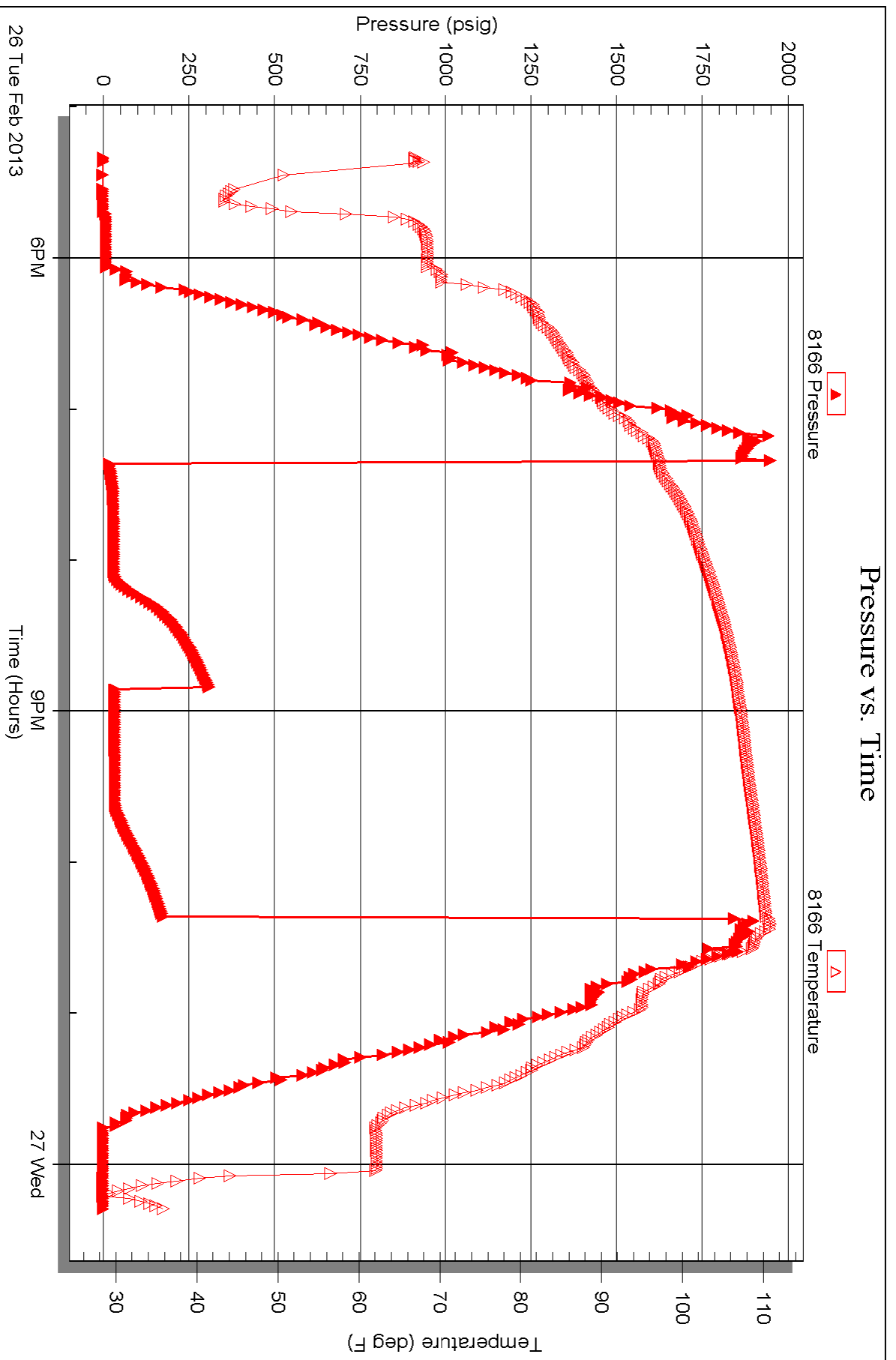


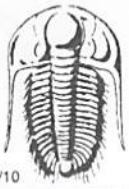
Serial #: 8166

Outside Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 4





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52027

Well Name & No. Stainater "B" 1-14 Test No. 1 Date 2/20/13  
 Company Downing-Nelson Oil Co Inc Elevation 2224 KB 2217 GL  
 Address PO Box 1019 Hays KS 67601  
 Co. Rep / Geo. \_\_\_\_\_ Rig Discovery #3  
 Location: Sec. 14 Twp. 14 Rge. 21 Co. Trego State KS

Interval Tested 3594-3650 Zone Tested KC  
 Anchor Length 56 Drill Pipe Run 3550 Mud Wt. 6.7  
 Top Packer Depth 3589 Drill Collars Run 30 Vis 47  
 Bottom Packer Depth 3594 Wt. Pipe Run \_\_\_\_\_ WL 8.6  
 Total Depth 3650 Chlorides 2,000 ppm System LCM 27

Blow Description FF - 5 in blow  
ISZ - weak surface blow  
FF - 5 in blow  
FSZ - weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OCM</u>	<u>45</u>		<u>55</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 40 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,749  Test 1150 T-On Location 9:35  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 10:10  
 (C) First Final Flow 27  Safety Joint \_\_\_\_\_ T-Open 12:55  
 (D) Initial Shut-In 269  Circ Sub \_\_\_\_\_ T-Pulled 15:55  
 (E) Second Initial Flow 27  Hourly Standby \_\_\_\_\_ T-Out 17:45  
 (F) Second Final Flow 31  Mileage 59 RT 91.45 Comments \_\_\_\_\_  
 (G) Final Shut-In 201  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,703  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1241.45  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1241.45

Approved By \_\_\_\_\_ Our Representative Butt

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52028

Well Name & No. Stina Ker "B" 1-14 Test No. 2 Date 2/24/13  
 Company Downing-Nelson Oil Co Inc. Elevation 2224 KB 2217 GL  
 Address PO Box 1019 Hays KS 67601  
 Co. Rep / Geo. \_\_\_\_\_ Rig Discovery #3  
 Location: Sec. 14 Twp. 14 Rge. 21 Co. Trego State KS

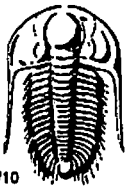
Interval Tested 3724 - 3770 Zone Tested KC "I, J"  
 Anchor Length 46 Drill Pipe Run 8703 Mud Wt. \_\_\_\_\_  
 Top Packer Depth 3719 Drill Collars Run 30 Vis \_\_\_\_\_  
 Bottom Packer Depth 3724 Wt. Pipe Run — WL \_\_\_\_\_  
 Total Depth 3770 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_  
 Blow Description FF - 1 1/4 in blow  
FSI - No blow  
FF - 1 in blow  
FSI - weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>SOCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 104 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1,819</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>4:05</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars _____	T-Started <u>4:30</u>
(C) First Final Flow <u>20</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>6:20</u>
(D) Initial Shut-In <u>58</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>8:20</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:20</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>59.7</u> 91.45	Comments _____
(G) Final Shut-In <u>44</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1,792</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1241.45</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc'tr _____
	Sub Total <u>1241.45</u>	

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52029

Well Name & No. Stoemaker "B" #1-14 Test No. 3 Date 2/26/13  
 Company Downing - Nelson Oil Co Inc. Elevation 2224 KB 2217 GL  
 Address PO Box 1219 Hays KS 67601  
 Co. Rep / Geo. \_\_\_\_\_ Rig Discovery "3"  
 Location: Sec. 14 Twp. 14 Rge. 21 Co. 11000 State KS

Interval Tested 3903 - 3920 Zone Tested Monkton  
 Anchor Length 17 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.0  
 Top Packer Depth 3895 Drill Collars Run 30 Vis 6.3  
 Bottom Packer Depth 3903 Wt. Pipe Run \_\_\_\_\_ WL 9.0  
 Total Depth 3920 Chlorides 2500 ppm System LCM 11.0  
 Blow Description SI - BOB in 34 min  
ISI - weak surface blow  
FF - BOB in 31 min  
FST - weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>560</u>	<u>10</u>	<u>90</u>		
<u>90</u>	<u>5560</u>	<u>10</u>	<u>70</u>		<u>20</u>
	<u>12087 62P</u>				

Rec Total 180 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,899  Test 1150 T-On Location 00:02  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 00:20  
 (C) First Final Flow 52  Safety Joint \_\_\_\_\_ T-Open 2:40  
 (D) Initial Shut-In 1,054  Circ Sub \_\_\_\_\_ T-Pulled 3:40  
 (E) Second Initial Flow 55  Hourly Standby \_\_\_\_\_ T-Out 7:56  
 (F) Second Final Flow 83  Mileage 3907 91.45  
 (G) Final Shut-In 1,011  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,871  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

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

Sub Total 1241.45  
 Total 1241.45  
 MP/DST Disc't \_\_\_\_\_

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

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52030

Well Name & No. Stainaker "B" #1-14 Test No. 4 Date 2/26/13  
 Company Downing-Nelson Oil Co Inc. Elevation 2224 KB 2217 GL  
 Address PO Box 1019 Hays KS 67601  
 Co. Rep / Geo. \_\_\_\_\_ Rig p. discovery #13  
 Location: Sec. 14 Twp. 14 Rge. 21 Co. Trego State KS

Interval Tested 3940 - 3983 Zone Tested sd  
 Anchor Length 43 Drill Pipe Run 3897 Mud Wt. 9.0  
 Top Packer Depth 3935 Drill Collars Run 30 Vis 46  
 Bottom Packer Depth 3940 Wt. Pipe Run — WL 8.8  
 Total Depth 3983 Chlorides 8,000 ppm System LCM 1  
 Blow Description IF - 3 3/4 in blow  
75' - No blow  
FF - 3/4 in blow  
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>vswcm</u>			<u>5</u>	<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 111 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1,941</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>16:50</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars _____	T-Started <u>17:20</u>
(C) First Final Flow <u>33</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>19:20</u>
(D) Initial Shut-In <u>311</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>22:20</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>00:17</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>59.7 x 2</u> 182.90	Comments _____
(G) Final Shut-In <u>176</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1,908</u>	<input type="checkbox"/> Straddle _____	<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>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1332.90</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1332.90</u>	

Approved By \_\_\_\_\_ Our Representative But Dini

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