KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1100033

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 Nelsen
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Ron Nelson
Purchaser: Coffeyville Resources

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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 #:

10/25/2012	10/30/2012	11/01/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22824-00-00
Spot Description:
NW - SE - NE - NE Sec. 34 Twp. 12 S. R. 21 [ ] East [x] West
840 Feet from [x] North / [ ] South Line of Section
520 Feet from [x] East / [ ] West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- [x] NE
- [ ] NW
- [ ] SE
- [ ] SW

County: Trego
Lease Name: Seitz Barnhardt 'C' Well #: 2
Field Name: Ridgeway
Producing Formation: Arbuckle
Elevation: Ground: 2209 Kelly Bushing: 2217
Total Depth: 3970 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 222 Feet
Multiple Stage Cementing Collar Used? [x] Yes [ ] No
If yes, show depth set: 1582 Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 1582 w/ 155 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 23000 ppm Fluid volume: 320 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:**
- [x] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** Deanna Garrison **Date:** 02/01/2013

Side Two

[redacted]

1100033

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Seitz Barnhardt 'C' Well #: 2

Sec. 34 Twp. 12 S. R. 21 ☐ East ☑ West County: Trego

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

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

List All E. Logs Run:
Attached

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

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12.25	8.625	23	222.83	Common	150	2% Gel & 3% CC
Production String	7.875	5.5	14	3962.84	EA/2	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	3858 - 3862		

TUBING RECORD: Size: 2.3750 Set At: 3862.99 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 01/04/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40		0		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

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

PRODUCTION INTERVAL:

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

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Seitz Barnhardt 'C' 2
Doc ID	1100033

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density / Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Seitz Barnhardt 'C' 2
Doc ID	1100033

Tops

Name	Top	Datum
Top Anhydrite	1581'	+636
Base Anhydrite	1627'	+590
Topeka	3229'	-1012
Heebner	3452'	-1235
Toronto	3473'	-1256
LKC	3487'	-1270
BKC	3723'	-1506
Marmaton	3787'	-1570
Cherokee Shale	3822'	-1605
Cong Sand	3837'	-1620
Arbuckle	3850'	-1633

RON NELSON

CONSULTING PETROLEUM GEOLOGIST
3322 LINCOLN DRIVE
HAYS, KANSAS 67601
PHONE: 785–628–3449

GEOLOGIC REPORT LOG

COMPANY Downing-Nelson Oil Co. Inc.

WELL Seitz-Barnhardt 'C' #2-34

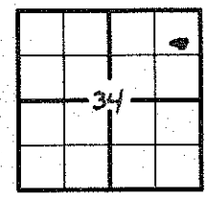
FIELD Ridgeway

LOCATION 840' FNL & 520' FEL

SEC. 34 TWP. 12S RGE. 21W

COUNTY Trego

STATE Kansas



PRODUCTION ARB · LKC

ELEVATION KB 2217'
DF
GL 2209'

Drilling Measured From: KB

Samples Saved From 3200' To: TD
Drilling Time From 3100' To: TD
Samples Examined From: 3200' To: TD
Geological Supervision From 3200' To Total Depth
Wellsite Geologist Ron Nelson
Electrical Surveys Nabors- Dual Ind:
Density-Neutron
Micro
Sonic

OPERATOR DNOCI
CONTRACTOR Discovery Drilling Rig #3
COMM: 10-25-12 COMP: 11-1-12

CASING RECORD

SURF: 8⅝" @ 222' PROD: 5½" @ 3969'
TOTAL DEPTH DRILLERS: 3970'
TOTAL DEPTH LOG 3970'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB–SEA DATUM	STRUCTURAL POSITION
TOP ANHYDRITE	1580	1581	+636	+9
BASE ANHYDRITE	1627	1627	+590	+5
TOPEKA	3231	3229	-1012	+8
HEEBNER	3453	3452	-1235	+6
TORONTO	3476	3473	-1256	+8
LKC	3488	3487	-1270	+6
BKC	3726	3723	-1506	+7
CONGLOMERATE-"CHEROKEE SHALE	3824	3822	-1605	FL
CONG. SAND	3836	3837	-1620	NA
ARBUCKLE	3850	3850	-1633	+3
FORMATION	3888	3887	-1670	+1

REFERENCE WELL FOR STRUCTURE DNOCI's Seitz-Barnhardt 'C' #1-34
Producer @ 335' FNL & 1700' FEL 34-12-21

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

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS O / S W

DRILL STEM TESTS

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

REMARKS AND RECOMMENDATIONS RAN 5½" PRODUCTION PIPE FOR ARBUCKLE EXPLORATION.

Ken Nelson

LEGEND

NELSON-8

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

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

1580

TOP ANHYDRITE +1637
Log +1636

1680

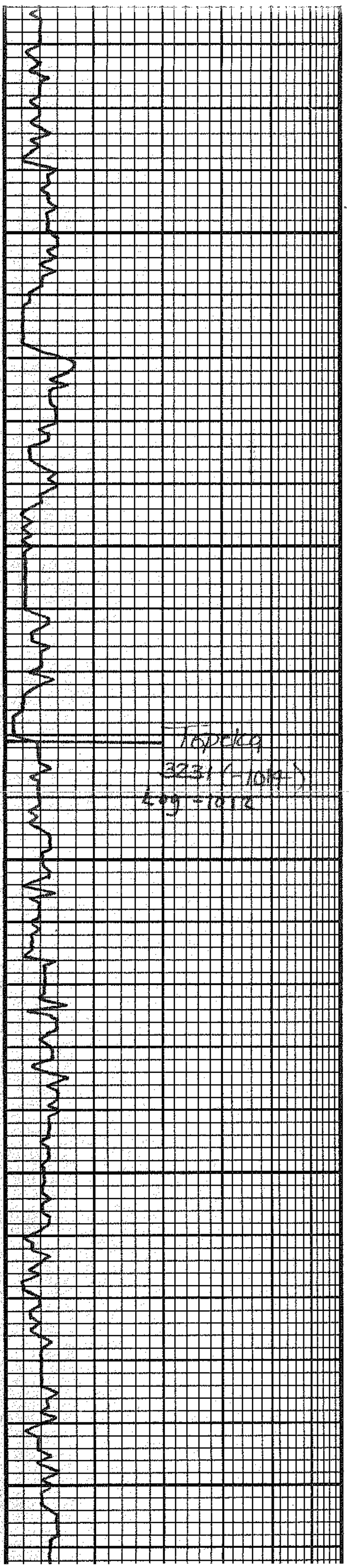
BASE ANHYDRITE

1650

3080

50

3100 ,



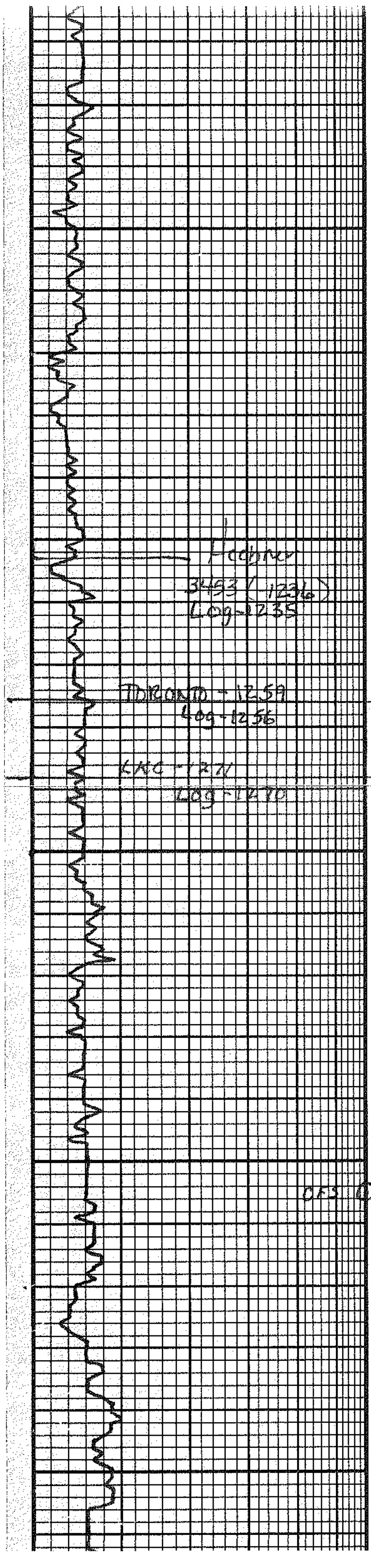
50

3200
gry sh
v chky tan LS
sh gry dkgry
tan mo suc xyln LS NS Pr Ø
gry sh
mod dns tan fn xyln LS NS

50
gry sh
LS tan-wh fn suc xyln w/ gd pp & ixyl Ø stn slod sm lt brn sat stn
dk gry sh
gry sh
LS gry mtld, fn xyln, mod dns NS
LS chky in pt sctd Ø NS

3300
chky LS aa w/ sm fn xyln dns LS . sm gry
gry sh
chky foss LS, gd int foss Ø friable NS
aa
sh blk carb
dns tan LS
sh dkgry
dns tan fn xyln LS NS pr Ø

50
gry sh
LS tan-gry, mst fn-mo xyln sm tinted w/ cmtd v pr Ø, sm



tr? Bnxyln
trng fnxyln
gry brn shs
mod dns tr? LS
BLK CARB SH
DNS gry pebbly LS
DKgry sh

3460

LS wh tan fn mnxyln frxyl Ø NS
sm gry silty LS, fnxyln, fr xyl Ø
chky impt. sstn, slod no sat
trng DNS prixyl NS
DKgry sh
tan foss LS gd int foss Ø, friable fw pcs w/stn, scld brn stn
trng chky
chky tan pebbly LS friable NS.
w/intbd shs
trng DNS mn-gry fnxyln LS
w/ BLK & tan chts

50

sh BLK carb
DNS brn LS
a/bdnt shs gry dkgry
BRN
LS tan wh fnxyln pr Ø
NS w/sm tan cht
DKgry sh
LS mst wh tan fn xyln
DNS prixyln NS no od

3500

w/sm cht tan BRN
w/tan cht
sh BLK CARB
sh DK gry
LS wh fw pcs fst ool-foss w/ fr int ool Ø, sstn, fr-od, BRN spt stn in tool, sm BLK sat
DKgry sh
LS tan fn suc xyln 1-2 pcs fr sat brn stn sl fod, sstn trng DNS tight barren

50

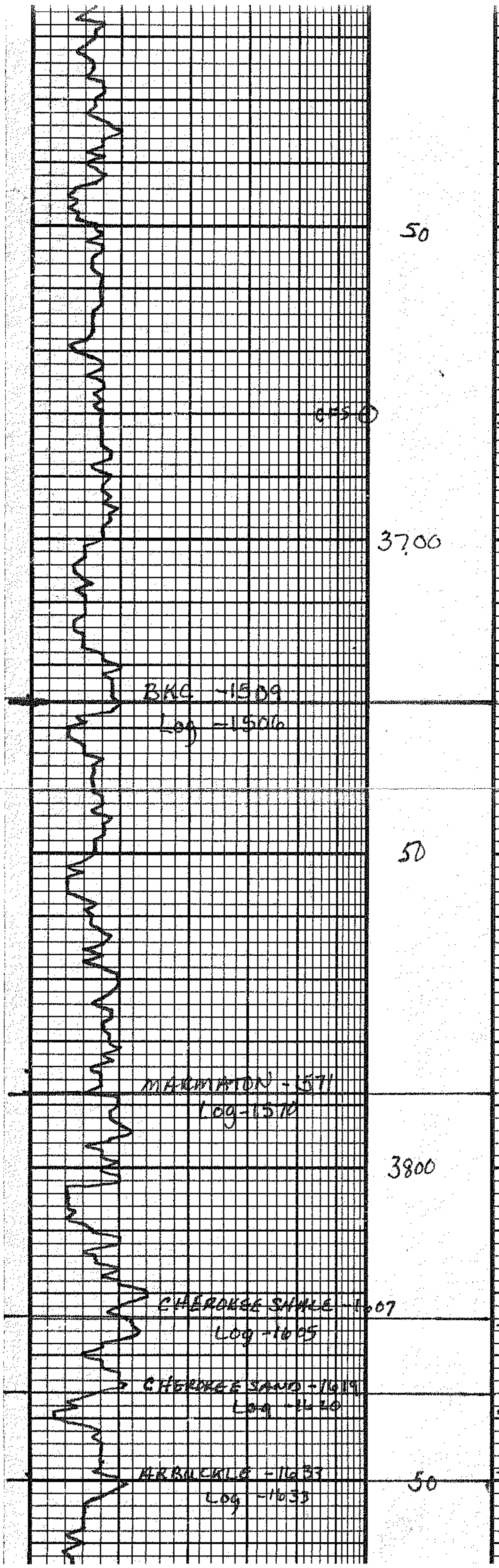
sh dk gry blk carb
LS wh vfnxyln dns pr Ø 1-2 pcs scld spt brn stn nsfo v slod mst barren
LS tan v chky, sm v foss w/fr-gd int foss Ø v ssfo, slod, friable mst barren
w/gry sh
LS wh, fnxyln, fw pcs w/fnc vug Ø, fr-gd, v ssfo, v slod mst tot barren
mic xyln v dns wh LS v pr Ø

3600

NS w/cht wh tan
aa w/cht

DST #1
3509'-3555"
30"-45"-30"-45"
1st op BOB 3"
8" SI BLOW
2nd op BOB 3½"
BOB SI. BLOW 9"
IFP 86-331
FFP 351-486
SIP 649-640
HP 1685-1624
REC 1390' G.I.P.
75' GSmwco
30g, 35oil, 30w, 5m
125' GSmwco
20g, 65oil, 10w, 5m
125' Gmocw
15g, 25oil, 40w, 20m
60' 50 mcw
15oil, 65w, 20m
645 water
chlorides 130,000
1030' TOTAL FLUID

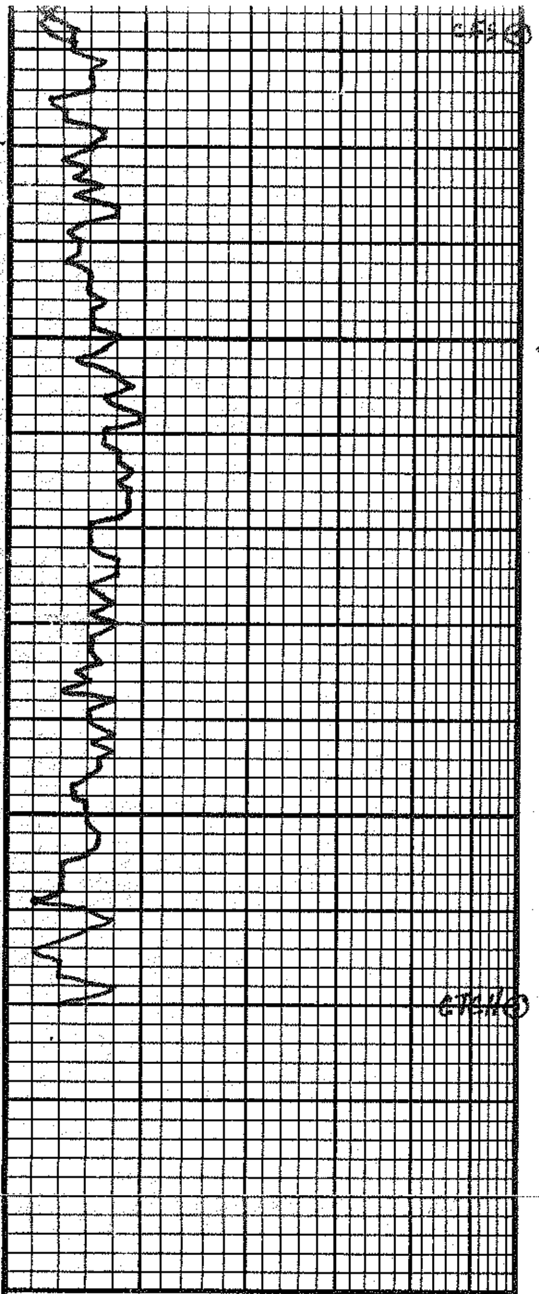
DST #1



Depth	Description
	Shs v dk gry gry
	Ls wh fn-v fn xyln dns pr vug Ø pr friable, fw pcs bk tarry gils sm ysfo no od frng mic xyln v dns NS w/cht tan wh
	Sh blk carb v dk gry
	Ls brn fn sucxyln sm tot sat brn stn, sl od, sfo, fr pp & xyl Ø friable frng wh micxyln vdns pr Ø NS
50	Sh s gry
	Ls brn-tan sm tot sat stn w/ g sfo, gd od, gd-fr vug & trc ooc Ø. Friable in fn xyln mat, fw sctd ools frng mic xyln vdns v pr Ø NS
	Shs gry brn
	microxyln wh v dns Ls no Ø NS
	aa
3700	Sh blk carb v dk gry
	Ls tan chky in pt sm friable pr xyl Ø all NS
	frng micxyln v dns Ls NS trc cht tan
	Shs gry dk gry brn w/ int bd v dns tan fn xyln Ls wh tan mic xyln v dns pr Ø NS w/ fw pcs cht
50	Rd & brn sh
	Shs aa w/ sm cht
	Dns tan micxyln Ls w/ orng cht sm brn pebbly Ls Dns Ls, sm min streaks NS
	abdnt gry, brn, & rd shs
	Ls wh tan micxyln v dns no app Ø NS. Not friable
3800	Sm tan v fn sucxyln dolo tight pr xyl Ø, w/ ssfo, v sl od, sm brn sat stn? w/ cht wh tan mstly brn shp frsh NS
	abdnt cht varicolor, mst brn, op, dk brn NS
	Sh blk v dk gry
	cht varicolor w/ shs bk gry grn
	SS clstrs clr qtz grn, fn, wl srtd, sm friable sm tole w/ tot sat brn stn, gs rainbow oil, good
	Sh gry grn
	Ls cht & ss clstrs v fn grn dns tight pr Ø, stiu sat, not friable, no od, sfo w/ shs w/ dns dolo
50	Dolo wh-lt gry, fn-md rhomxyln, tight dns pr xyl Ø, ssfo, sl-fnd not friable, sm lmy dns
	Dolo wh-brn md rhomxyln, sm tight pr Ø w/ sfo, brn sptd sctd stn gd od, sm barren all dns t-2 friable

DST #2
3635-3680'
45"-45"-45"-45"
1st op BOB 29"
2nd op BOB 22"
wk surf blow both SI's
IFP 23-49
FFP 50-71
SIP 830-765
HP 1763-1742
Rec 310' g.i.p.
64' GOWCM
(15%G : 30%O : 20%W : 35%M)
64' MWGCO
(15%G : 60%O : 10%W : 15%M)
Grav 35

DST #3
3816'-3868'
30"-45"-30"-45"
1st op BOB [redacted]3'
3½" S.I. BLOW
2nd op BOB 3"
wk surf blow on S.I.
IFP 75-259
FFP 285-416
SIP 1070-1016
HP 1886-1888
Rec 315' gas in pipe
882' C.G.O.
126' MCGSWCO
(20 G : 50 O : 10 W : 30 M)



gnl inclusions, gd-vg sod, g sfo, friable, gd vug & intgran Ø

DNS tan dolo w/sm & od & fo

DOLO TAN m-f rhom xyln sm od ixyl Ø gd od, g sfo, friable

sm frag DNS pr-fr ixyl Ø

DOLO tan m-f rhom xyln sm suc mat fr ixyl Ø, fr vug Ø w/ sm fo fr od, less brn stn, more blk stn, sm friable sm tight

DOLO TAN-lt gry m-f rhom xyln tight fr int xyln Ø, sl od, s sfo. sm gilsstn, much better DNS

DOLO TAN-gry-fn suc-fn rhom xyln DNS v pr ixyl Ø poss frac Ø NS v fnt od

DOLO aa v dns NS no od

DOLO tan gry fn dhom-suc xyln pr ixyl Ø NS no od sm pcs wh vu dns w/ frac planes

DOLO aa

DOLO gry-tan fn-vfn xyln sm vug frac planes, sm v dns frw/ fr primary xyl Ø all NS no od

Ron [signature]

DRILLING TIME Minutes/Foot (Rate of Penetration Decreases →)	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS

OPERATOR DNBCI
LEASE Seitz-Baenhardt 'C' #2-34 IP ARB-LKC
ELEVATION 2217' RTD 3970'

LOCATION 840' FNL & 520' FEL
SEC 34 TWP 12S RNG 21W
COUNTY TREGO STATE KANSAS

ALLIED OIL & GAS SERVICES, LLC 056565

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell KS

DATE 10-25-12	SEC. 34	TWP. 12	RANGE 21	CALLED OUT	ON LOCATION	JOB START 8:30 pm	JOB FINISH 9:00 pm
Seitz-LEASE Barnhardt	WELL# C-2		LOCATION I-70 & Rigg Rd ½ N ¼ S into			COUNTY Trego	STATE KS
OLD OR (NEW) (Circle one)							

CONTRACTOR Discovery #3
TYPE OF JOB surface
HOLE SIZE 12¼ T.D. 223
CASING SIZE 8⅝ 23# DEPTH 222.93
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 15'
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 13 bbl

OWNER

CEMENT
AMOUNT ORDERED 150 com 3%cc 2%gel

EQUIPMENT

PUMP TRUCK CEMENTER Robert K
417 HELPER Woody O
BULK TRUCK
378 DRIVER Walter K
BULK TRUCK
DRIVER

REMARKS:

ran 5 jts of 8⅝ new 23# csg recieved circulation mixed 150 com 3%cc 2%gel displace 13 bbl of fresh water shut in

cement circulate to surface

COMMON	150	@ 17.90	2685.00
POZMIX		@	
GEL	3	@ 23.40	70.20
CHLORIDE	5	@ 64.00	320.00
ASC		@	
HANDLING	162.09 ft³	@ 2.48	401.99
MILEAGE	155.40 t/m	2.60	404.04
		TOTAL	3881.23

SERVICE

DEPTH OF JOB		223
PUMP TRUCK CHARGE		1512.25
EXTRA FOOTAGE	@	
MILEAGE 21 HVMT	@ 7.70	161.70
MANIFOLD	@	
21 LVMT	@ 4.40	92.40
	@	
	TOTAL	1766.35

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	TOTAL	

CHARGE TO: Downing-Nelson Oil Co
STREET
CITY STATE ZIP

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME GALEN GASCHLER

SIGNATURE Galen Gaschler

SALES TAX (If Any) 209.11 ~~163.93~~
TOTAL CHARGES 5647.58
DISCOUNT 1570.03 IF PAID IN 30 DAYS
net 4077.55 before Tax
BS 1026

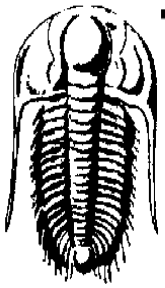
JOB LOG

SWIFT Services, Inc.

DATE 11-1-82 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Downing Nelson	2	Seitz Barnhardt	5½ Two-Stage Long String	22912

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1200							on location
								TD 3970 SJ 20
								TP 3962 DV 1582
								Insert 3942 5½ x 14#
								Centerlizers 1, 3, 5, 7, 9, 11, 56 Basket 57
	1350							Start Casing
								Drop Ball circulate
	1555		12		✓			Start Mud Flush
			20		✓			Start KCL flush
	1600	4.5	36		✓			Start Cement 150 sks EA-2
								Drop Plug
								wash out Pump & Lines
	1615	6.5			✓			Displace Plug
	1630		96.1		✓		1500	land Plug
								Release Dry
	1640							Drop Opening Plug
			7/4					Plug RH 30 sks, MH 15 sks
	1650							open DV
			20		✓		1100	Start KCL Flush
			86		✓			Start SMD Cement 155 sks
								Drop Plug
	1715				✓			Displace Plug
	1725		38.6		✓			land plug
							1500	Close DV
								circulate 60 sks to pit
								wash up
								Rack up
								Job Complete
								Thank You
								Josh, Roger, Jon, Flint



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Seitz-Barnhardt C #2

34-12s-21w Trego,KS

Start Date: 2012.10.29 @ 07:40:00
End Date: 2012.10.29 @ 15:16:30
Job Ticket #: 50788 DST #: 1

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

Printed: 2012.11.02 @ 15:08:55

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 50788 **DST#: 1**

Test Start: 2012.10.29 @ 07:40:00

GENERAL INFORMATION:

Formation: **KC"C,D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:38:30
Time Test Ended: 15:16:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Brett Dickinson
Unit No: 59

Interval: 3509.00 ft (KB) To 3555.00 ft (KB) (TVD)
Total Depth: 3555.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

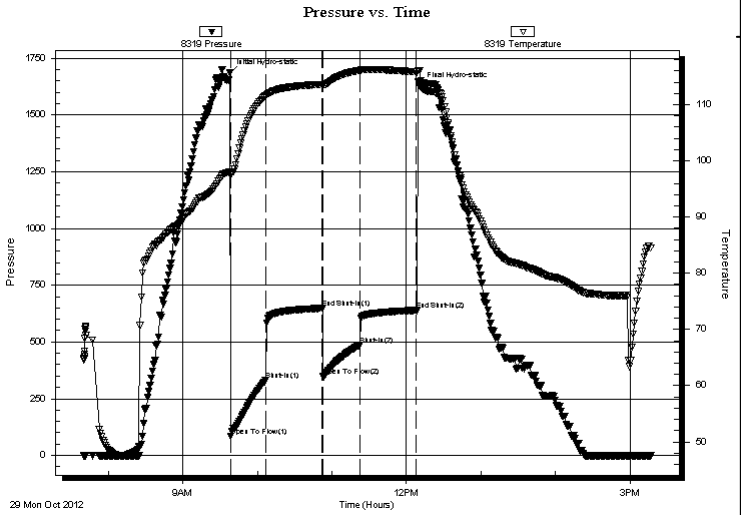
Reference Elevations: 2217.00 ft (KB)
2209.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8319 **Outside**

Press@RunDepth: 486.35 psig @ 3510.00 ft (KB)
Start Date: 2012.10.29 End Date: 2012.10.29
Start Time: 07:40:05 End Time: 15:16:29

Capacity: 8000.00 psig
Last Calib.: 2012.10.29
Time On Btm: 2012.10.29 @ 09:37:30
Time Off Btm: 2012.10.29 @ 12:10:30

TEST COMMENT: IF-BOB in 3 min
ISI-8" blow
FF-BOB in 3.5 min
FSI-BOB in 9 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.52	98.01	Initial Hydro-static
1	86.04	97.75	Open To Flow (1)
29	330.81	111.57	Shut-In(1)
75	648.95	113.58	End Shut-In(1)
76	350.84	113.46	Open To Flow (2)
105	486.35	116.09	Shut-In(2)
151	639.60	115.80	End Shut-In(2)
153	1623.87	116.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
645.00	Water	8.77
60.00	SOMCW 15% O 20%M 65%W	0.84
125.00	GMOCW 15%G 20%M 25%O 40%W	1.75
125.00	GSMWCO 20%G 5%M 10%W 65%O	1.75
75.00	GSMWCO 30%G 30%W 5%M 35%O	1.05
0.00	1390ft GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 50788 **DST#: 1**

Test Start: 2012.10.29 @ 07:40:00

GENERAL INFORMATION:

Formation: **KC"C,D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:38:30
Time Test Ended: 15:16:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Brett Dickinson
Unit No: 59

Interval: 3509.00 ft (KB) To 3555.00 ft (KB) (TVD)
Total Depth: 3555.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

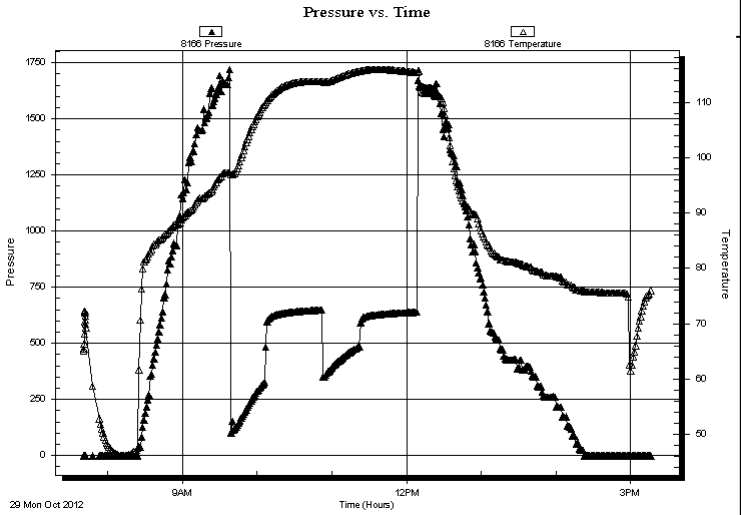
Reference Elevations: 2217.00 ft (KB)
2209.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8166 **Inside**

Press@RunDepth: psig @ 3510.00 ft (KB)
Start Date: 2012.10.29 End Date: 2012.10.29
Start Time: 07:40:35 End Time: 15:16:29

Capacity: 8000.00 psig
Last Calib.: 2012.10.29
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-BOB in 3 min
ISI-8" blow
FF-BOB in 3.5 min
FSI-BOB in 9 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
645.00	Water	8.77
60.00	SOMCW 15% O 20%M 65%W	0.84
125.00	GMOCW 15%G 20%M 25%O 40%W	1.75
125.00	GSMWCO 20%G 5%M 10%W 65%O	1.75
75.00	GSMWCO 30%G 30%W 5%M 35%O	1.05
0.00	1390ft GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 50788 **DST#: 1**

Test Start: 2012.10.29 @ 07:40:00

Tool Information

Drill Pipe:	Length:	3487.00 ft	Diameter:	3.80	inches	Volume:	48.91	bbl	
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.70	inches	Volume:	-	bbl	
Drill Collar:	Length:	30.00 ft	Diameter:	2.25	inches	Volume:	0.15	bbl	
						Total Volume:	-	bbl	

Drill Pipe Above KB:	29.00 ft
Depth to Top Packer:	3509.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	46.00 ft
Tool Length:	67.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		85000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	50000.00 lb
	Final	57000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3489.00		
Shut In Tool	5.00			3494.00		
Hydraulic tool	5.00			3499.00		
Packer	5.00			3504.00	21.00	Bottom Of Top Packer
Packer	5.00			3509.00		
Stubb	1.00			3510.00		
Recorder	0.00	8166	Inside	3510.00		
Recorder	0.00	8319	Outside	3510.00		
Perforations	8.00			3518.00		
Change Over Sub	1.00			3519.00		
Drill Pipe	32.00			3551.00		
Change Over Sub	1.00			3552.00		
Bullnose	3.00			3555.00	46.00	Bottom Packers & Anchor
Total Tool Length:	**67.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 50788 **DST#: 1**

Test Start: 2012.10.29 @ 07:40:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	8.00 lb/gal	Cushion Length:	ft	Water Salinity:	130000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	400.00 ppm				
Filter Cake:	inches				

Recovery Information

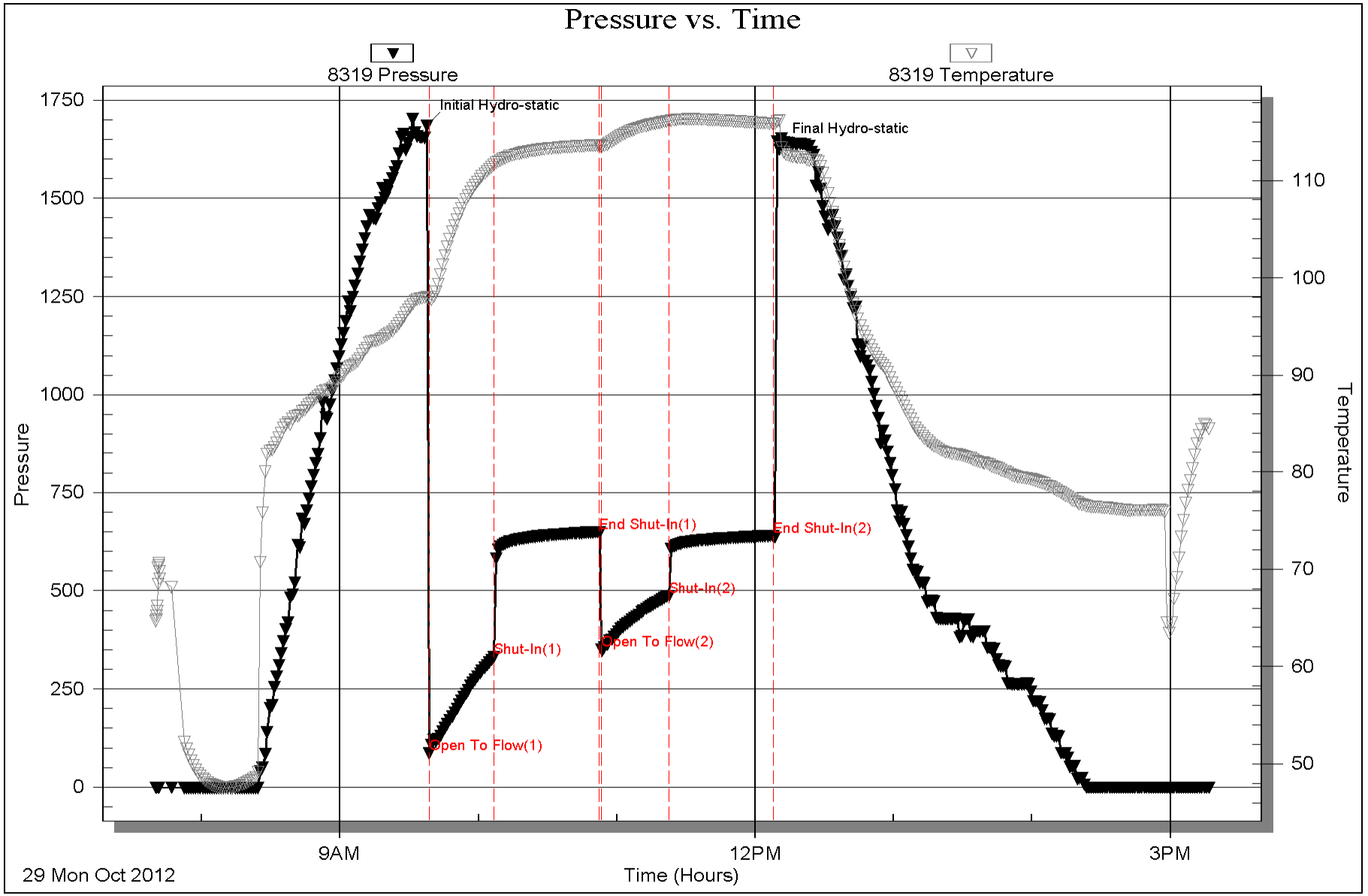
Recovery Table

Length ft	Description	Volume bbl
645.00	Water	8.774
60.00	SOMCW 15% O 20%M 65%W	0.842
125.00	GMOCW 15%G 20%M 25%O 40%W	1.753
125.00	GSMWCO 20%G 5%M 10%W 65%O	1.753
75.00	GSMWCO 30%G 30%W 5%M 35%O	1.052
0.00	1390ft GIP	0.000

Total Length: 1030.00 ft Total Volume: 14.174 bbl

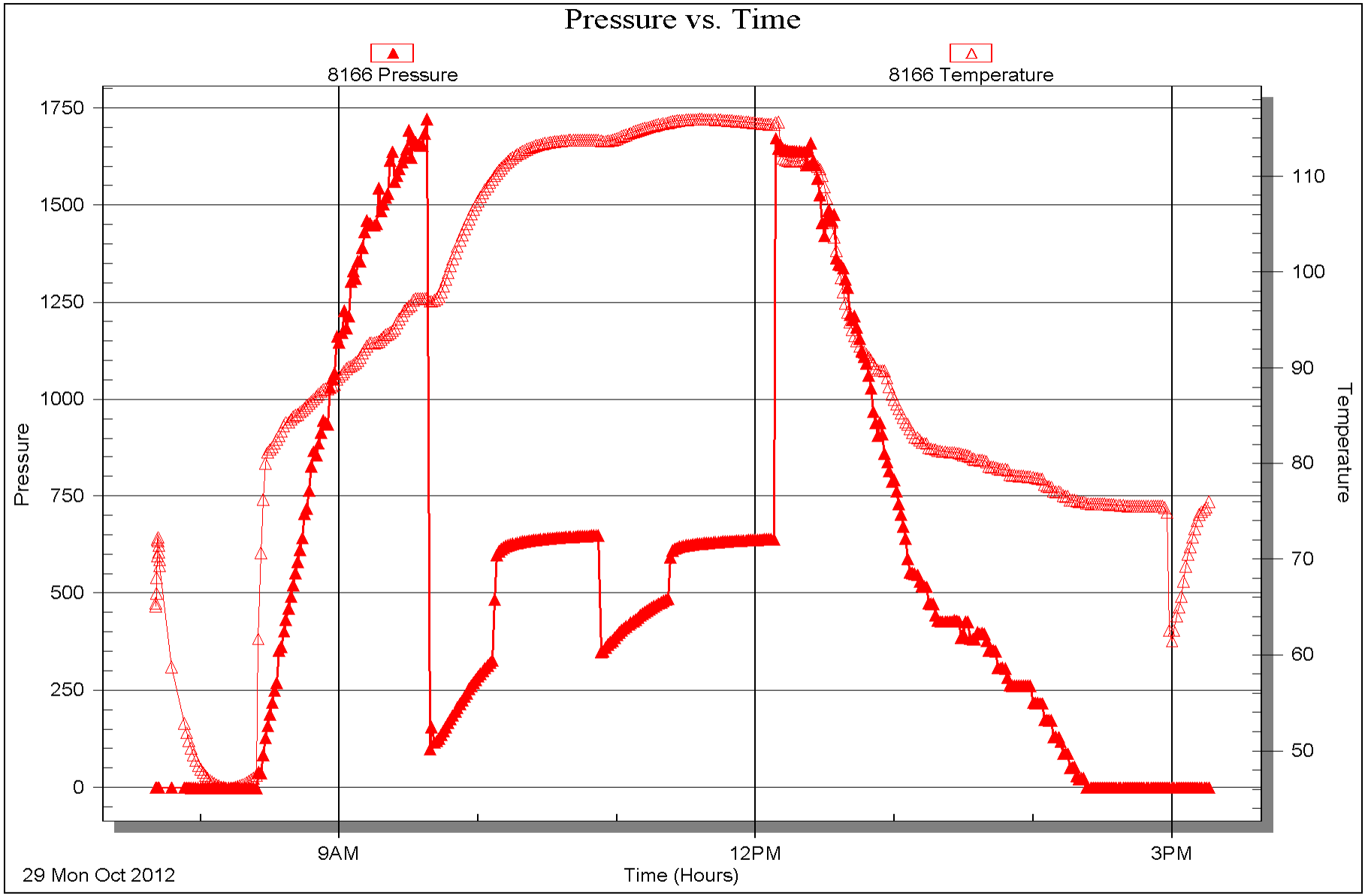
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8319 **Outside** Dow ning-Nelson Oil Co Inc. Seitz-Barnhardt C #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 50788 Printed: 2012.11.02 @ 15:09:00

Serial #: 8166 **Inside** Dow ning-Nelson Oil Co Inc. Seitz-Barnhardt C #2 DST Test Number: 1



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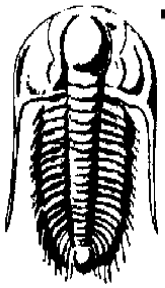


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Seitz-Barnhardt C #2

34-12s-21w Trego,KS

Start Date: 2012.10.30 @ 03:45:00
End Date: 2012.10.30 @ 11:13:00
Job Ticket #: 50789 DST #: 2

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

Printed: 2012.11.02 @ 15:08:04

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 50789 **DST#: 2**

Test Start: 2012.10.30 @ 03:45:00

GENERAL INFORMATION:

Formation: **KC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:19:30
Time Test Ended: 11:13:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson/Wilb
Unit No: 59

Interval: 3635.00 ft (KB) To 3680.00 ft (KB) (TVD)
Total Depth: 3680.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

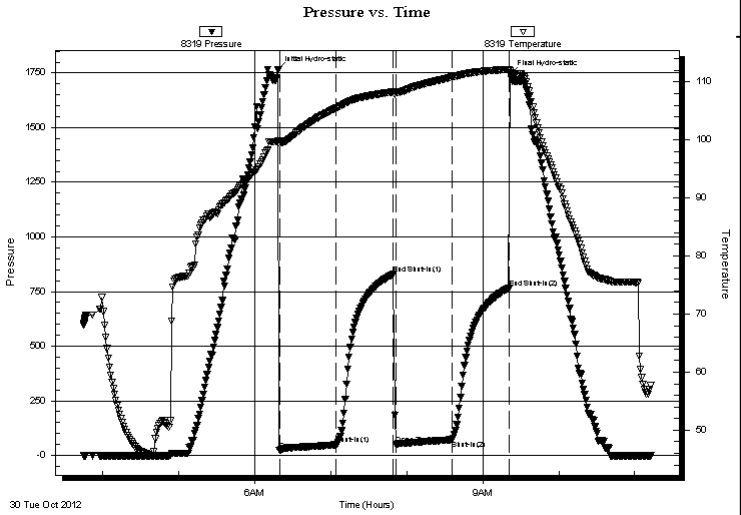
Reference Elevations: 2217.00 ft (KB)
2209.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8319 **Outside**

Press@RunDepth: 71.28 psig @ 3636.00 ft (KB)
Start Date: 2012.10.30 End Date: 2012.10.30
Start Time: 03:45:05 End Time: 11:12:59

Capacity: 8000.00 psig
Last Calib.: 2012.10.30
Time On Btm: 2012.10.30 @ 06:18:30
Time Off Btm: 2012.10.30 @ 09:21:30

TEST COMMENT: IF-BOB in 29 min
ISI-Weak surface blow
FF-BOB in 22 min
FSI-Weak suface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.68	99.91	Initial Hydro-static
1	23.04	99.54	Open To Flow (1)
46	48.77	105.51	Shut-In(1)
91	829.71	108.28	End Shut-In(1)
93	49.86	108.13	Open To Flow (2)
137	71.28	110.82	Shut-In(2)
182	764.59	112.16	End Shut-In(2)
183	1742.05	111.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GOWCM 15%G 30%O 20%W 35%M	0.62
64.00	MWGCO 15%g 60%O 20%W 35%M	0.90
310.00	Gas in pipe	4.35

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 50789 **DST#: 2**

Test Start: 2012.10.30 @ 03:45:00

GENERAL INFORMATION:

Formation: **KC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:19:30
Time Test Ended: 11:13:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson/Wilb
Unit No: 59

Interval: 3635.00 ft (KB) To 3680.00 ft (KB) (TVD)
Total Depth: 3680.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

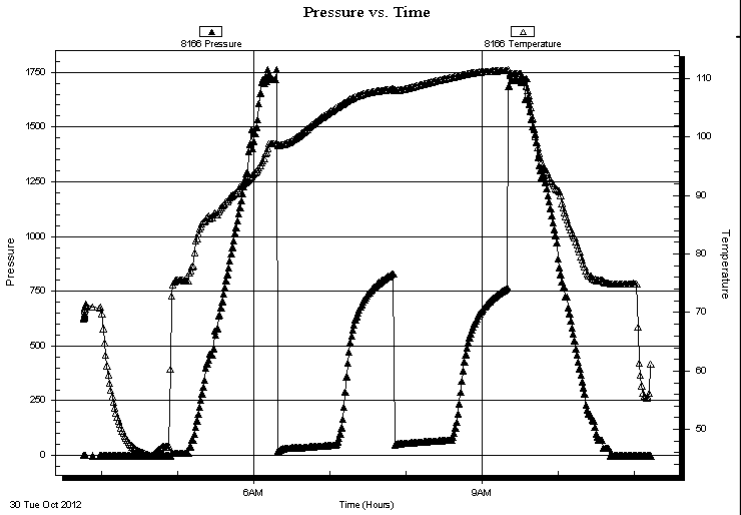
Reference Elevations: 2217.00 ft (KB)
2209.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8166 **Inside**

Press@RunDepth: psig @ 3636.00 ft (KB)
Start Date: 2012.10.30 End Date: 2012.10.30
Start Time: 03:45:35 End Time: 11:12:59

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-BOB in 29 min
ISI-Weak surface blow
FF-BOB in 22 min
FSI-Weak suface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GOWCM 15%G 30%O 20%W 35%M	0.62
64.00	MWGCO 15%g 60%O 20%W 35%M	0.90
310.00	Gas in pipe	4.35

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 50789 **DST#: 2**

Test Start: 2012.10.30 @ 03:45:00

Tool Information

Drill Pipe:	Length:	3612.00 ft	Diameter:	3.80	inches	Volume:	50.67	bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches	Volume:	0.00	bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25	inches	Volume:	0.15	bbl	Weight to Pull Loose:	lb
						Total Volume:	50.82	bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		28.00 ft							String Weight: Initial	52000.00 lb
Depth to Top Packer:		3635.00 ft							Final	lb
Depth to Bottom Packer:		ft								
Interval betw een Packers:		45.00 ft								
Tool Length:		66.00 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			3615.00		
Shut In Tool	5.00			3620.00		
Hydraulic tool	5.00			3625.00		
Packer	5.00			3630.00	21.00	Bottom Of Top Packer
Packer	5.00			3635.00		
Stubb	1.00			3636.00		
Recorder	0.00	8166	Inside	3636.00		
Recorder	0.00	8319	Outside	3636.00		
Perforations	8.00			3644.00		
Change Over Sub	1.00			3645.00		
Drill Pipe	31.00			3676.00		
Change Over Sub	1.00			3677.00		
Bullnose	3.00			3680.00	45.00	Bottom Packers & Anchor
Total Tool Length:	**66.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 50789 **DST#: 2**

Test Start: 2012.10.30 @ 03:45:00

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:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	GOWCM 15%G 30%O 20%W 35%M	0.624
64.00	MWGCO 15%g 60%O 20%W 35%M	0.898
310.00	Gas in pipe	4.348

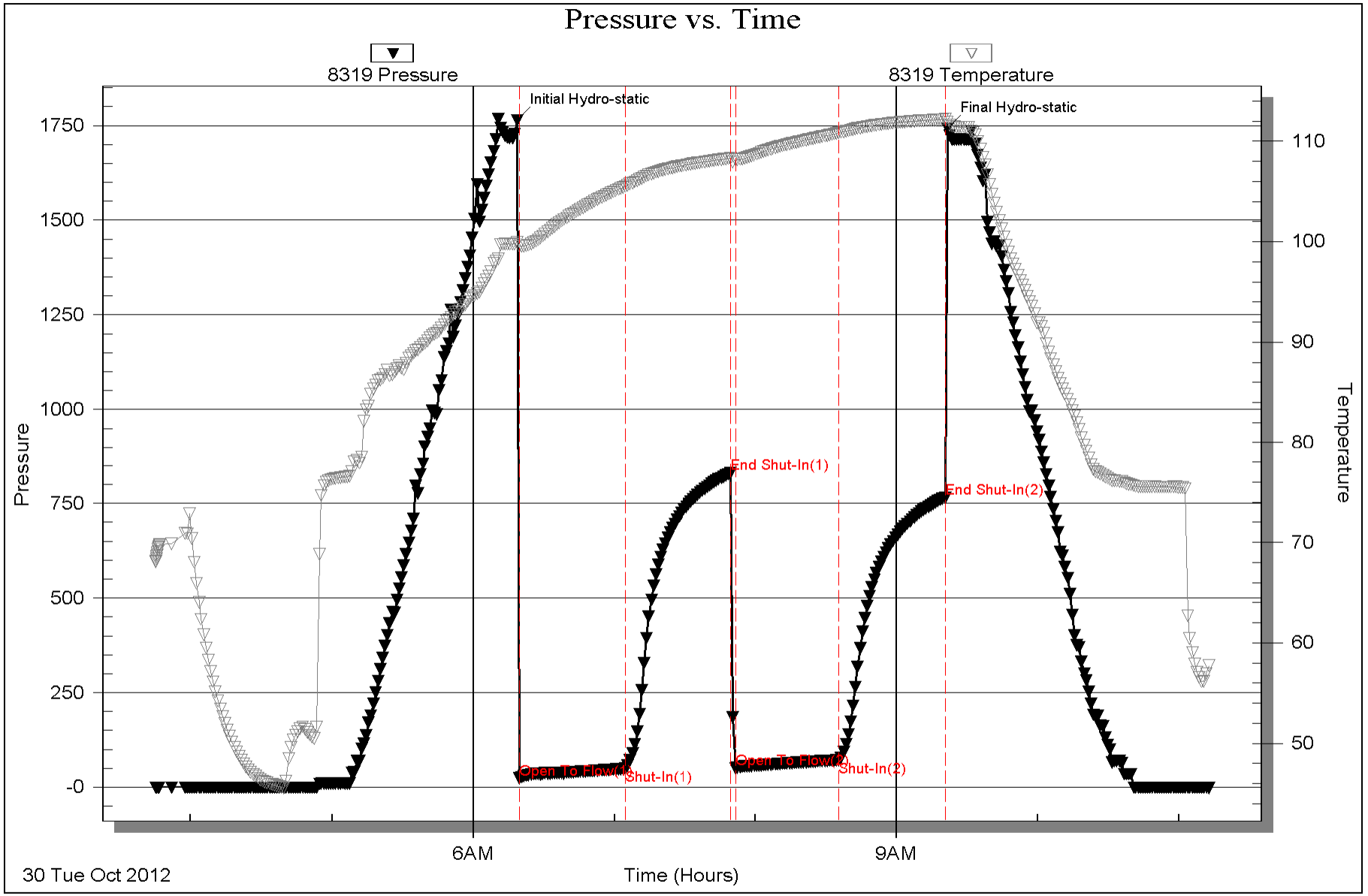
Total Length: 438.00 ft Total Volume: 5.870 bbl

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

Laboratory Name: Laboratory Location:

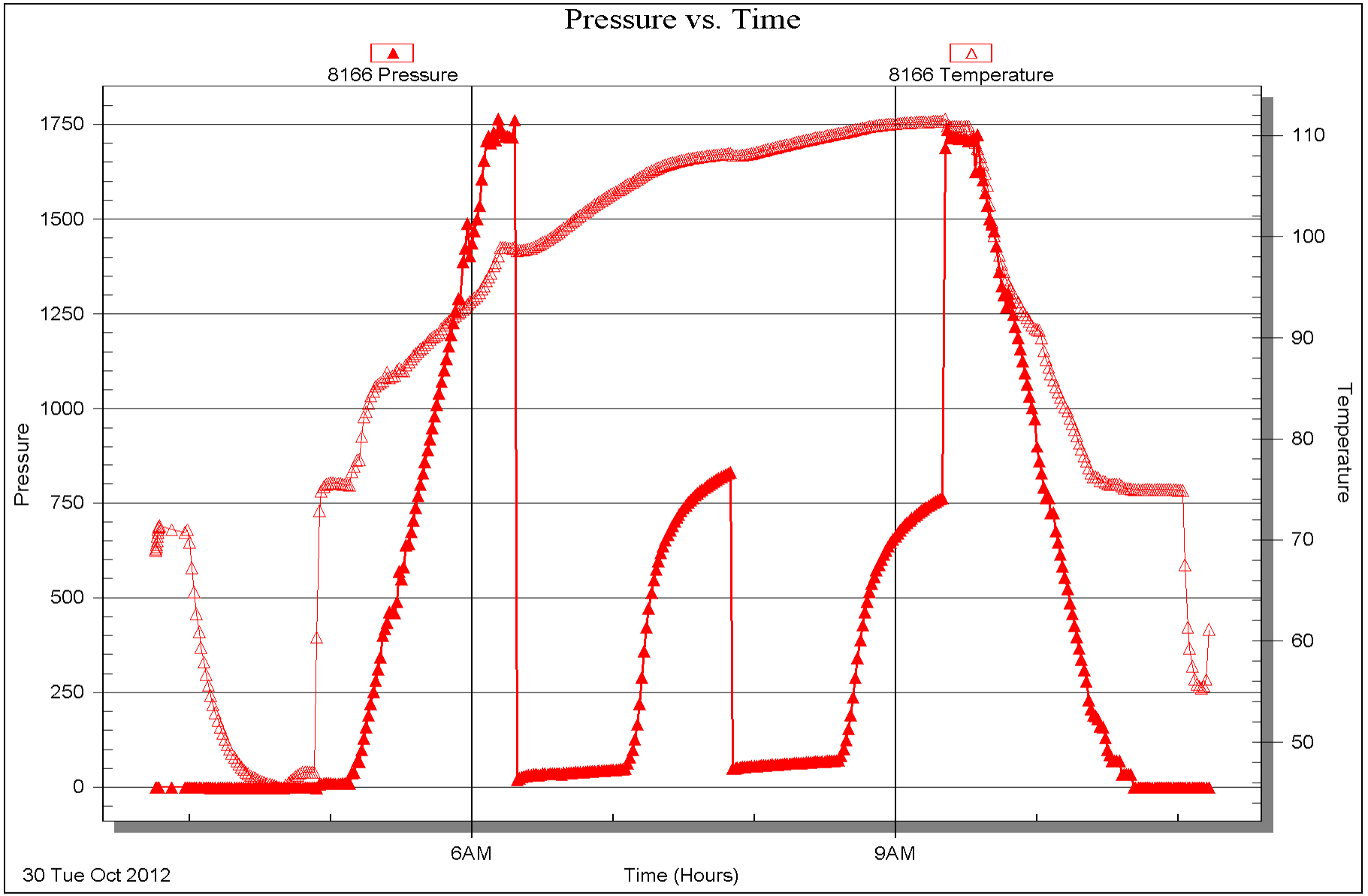
Recovery Comments: 64 DEG @ 34.6=35 Oil Gravity

Serial #: 8319 **Outside** Dow ning-Nelson Oil Co Inc. Seitz-Barnhardt C #2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 50789 Printed: 2012.11.02 @ 15:08:09

Serial #: 8166 **Inside** Dow ning-Nelson Oil Co Inc. Seitz-Barnhardt C #2 DST Test Number: 2



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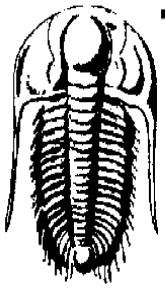


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Seitz-Barnhardt C #2

34-12s-21w Trego,KS

Start Date: 2012.10.31 @ 05:55:00
End Date: 2012.10.31 @ 13:52:30
Job Ticket #: 51083 DST #: 3

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

Printed: 2012.11.02 @ 15:07:14

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 51083 **DST#: 3**

Test Start: 2012.10.31 @ 05:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:16:00
Time Test Ended: 13:52:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Wilbur Steinbeck
Unit No: 59

Interval: 3816.00 ft (KB) To 3868.00 ft (KB) (TVD)
Total Depth: 3868.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

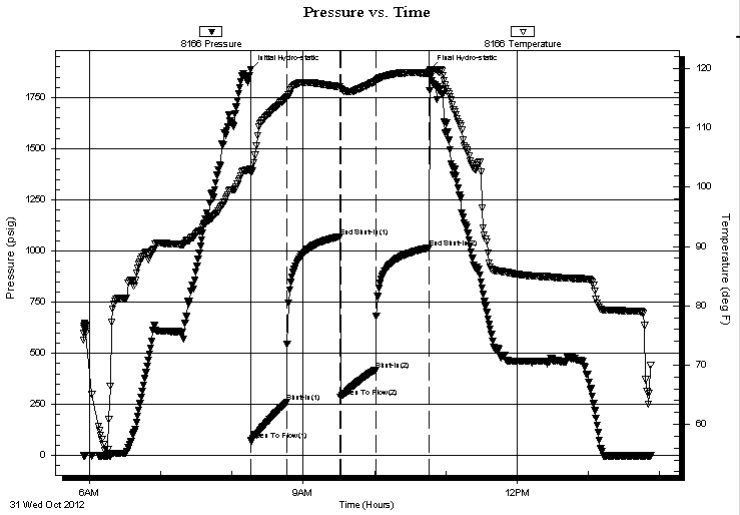
Reference Elevations: 2217.00 ft (KB)
2209.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8166 **Inside**

Press@RunDepth: 416.10 psig @ 3817.00 ft (KB)
Start Date: 2012.10.31 End Date: 2012.10.31
Start Time: 05:55:05 End Time: 13:52:29

Capacity: 8000.00 psig
Last Calib.: 2012.10.31
Time On Btm: 2012.10.31 @ 08:15:30
Time Off Btm: 2012.10.31 @ 10:47:00

TEST COMMENT: 30 IF; BOB in 3 min
45 ISI;Built to 3 1/2" in 7 min then died off
30 FF; BOB in 3min
45 FSI; Weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.09	103.01	Initial Hydro-static
1	74.81	102.52	Open To Flow (1)
31	259.46	115.12	Shut-In(1)
75	1070.46	116.93	End Shut-In(1)
76	284.71	116.63	Open To Flow (2)
106	416.10	117.84	Shut-In(2)
151	1016.04	119.22	End Shut-In(2)
152	1888.34	119.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	WMGCO 50%O 20%G 20%M 10%W	1.49
756.00	Reversed out GO 90%O 10%G	10.60
126.00	GO	1.77
		0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 51083 **DST#: 3**

Test Start: 2012.10.31 @ 05:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:16:00
Time Test Ended: 13:52:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Wilbur Steinbeck
Unit No: 59

Interval: 3816.00 ft (KB) To 3868.00 ft (KB) (TVD)
Total Depth: 3868.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

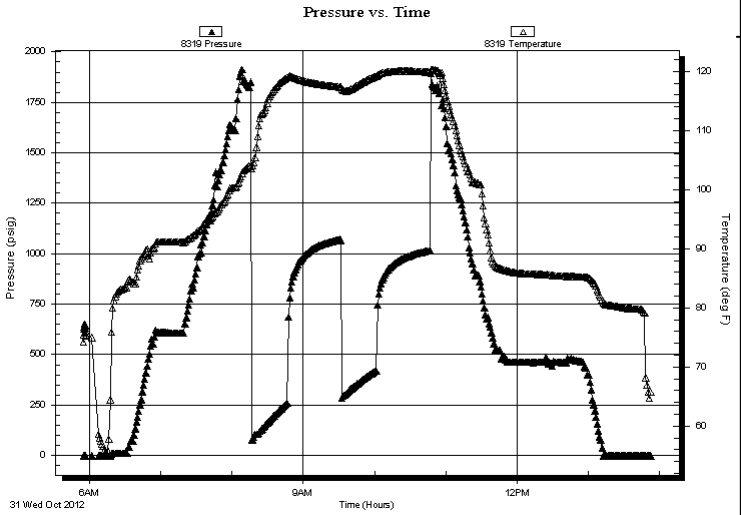
Reference Elevations: 2217.00 ft (KB)
2209.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8319 **Outside**

Press@RunDepth: psig @ 3817.00 ft (KB)
Start Date: 2012.10.31 End Date: 2012.10.31
Start Time: 05:55:05 End Time: 13:52:59

Capacity: 8000.00 psig
Last Calib.: 2012.10.31
Time On Btm:
Time Off Btm:

TEST COMMENT: 30 IF; BOB in 3 min
45 ISI;Built to 3 1/2" in 7 min then died off
30 FF; BOB in 3min
45 FSI; Weak surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	WMGCO 50%O 20%G 20%M 10%W	1.49
756.00	Reversed out GO 90%O 10%G	10.60
126.00	GO	1.77
		0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 51083 **DST#: 3**

Test Start: 2012.10.31 @ 05:55:00

Tool Information

Drill Pipe:	Length:	3769.00 ft	Diameter:	3.80	inches	Volume:	52.87	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	30.00 ft	Diameter:	2.25	inches	Volume:	0.15	bbl	
						Total Volume:	53.02	bbl	

Drill Pipe Above KB:	4.00 ft
Depth to Top Packer:	3816.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	52.00 ft
Tool Length:	73.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		62000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	53000.00 lb
	Final	59000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3796.00		
Shut In Tool	5.00			3801.00		
Hydraulic tool	5.00			3806.00		
Packer	5.00			3811.00	21.00	Bottom Of Top Packer
Packer	5.00			3816.00		
Stubb	1.00			3817.00		
Recorder	0.00	8166	Inside	3817.00		
Recorder	0.00	8319	Outside	3817.00		
Perforations	8.00			3825.00		
Change Over Sub	1.00			3826.00		
Drill Pipe	32.00			3858.00		
Change Over Sub	1.00			3859.00		
perforations	6.00			3865.00		
Bullnose	3.00			3868.00	52.00	Bottom Packers & Anchor
Total Tool Length:	**73.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc.

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

34-12s-21w Trego,KS

Seitz-Barnhardt C #2

Job Ticket: 51083 **DST#: 3**

Test Start: 2012.10.31 @ 05:55:00

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:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	WMGCO 50%O 20%G 20%M 10%W	1.494
756.00	Reversed out GO 90%O 10%G	10.605
126.00	GO	1.767
		0.000

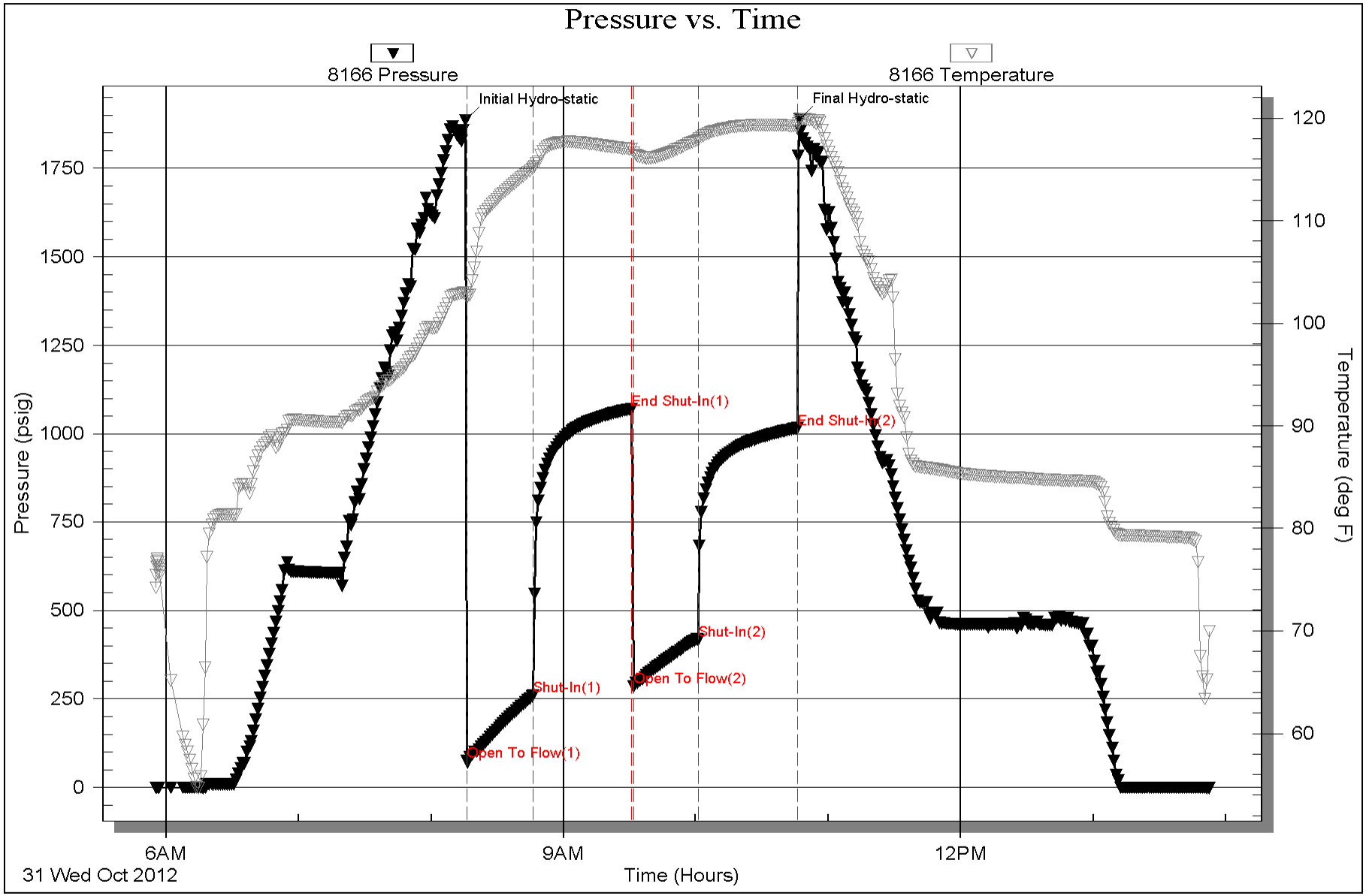
Total Length: 1008.00 ft Total Volume: 13.866 bbl

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

Laboratory Name: Laboratory Location:

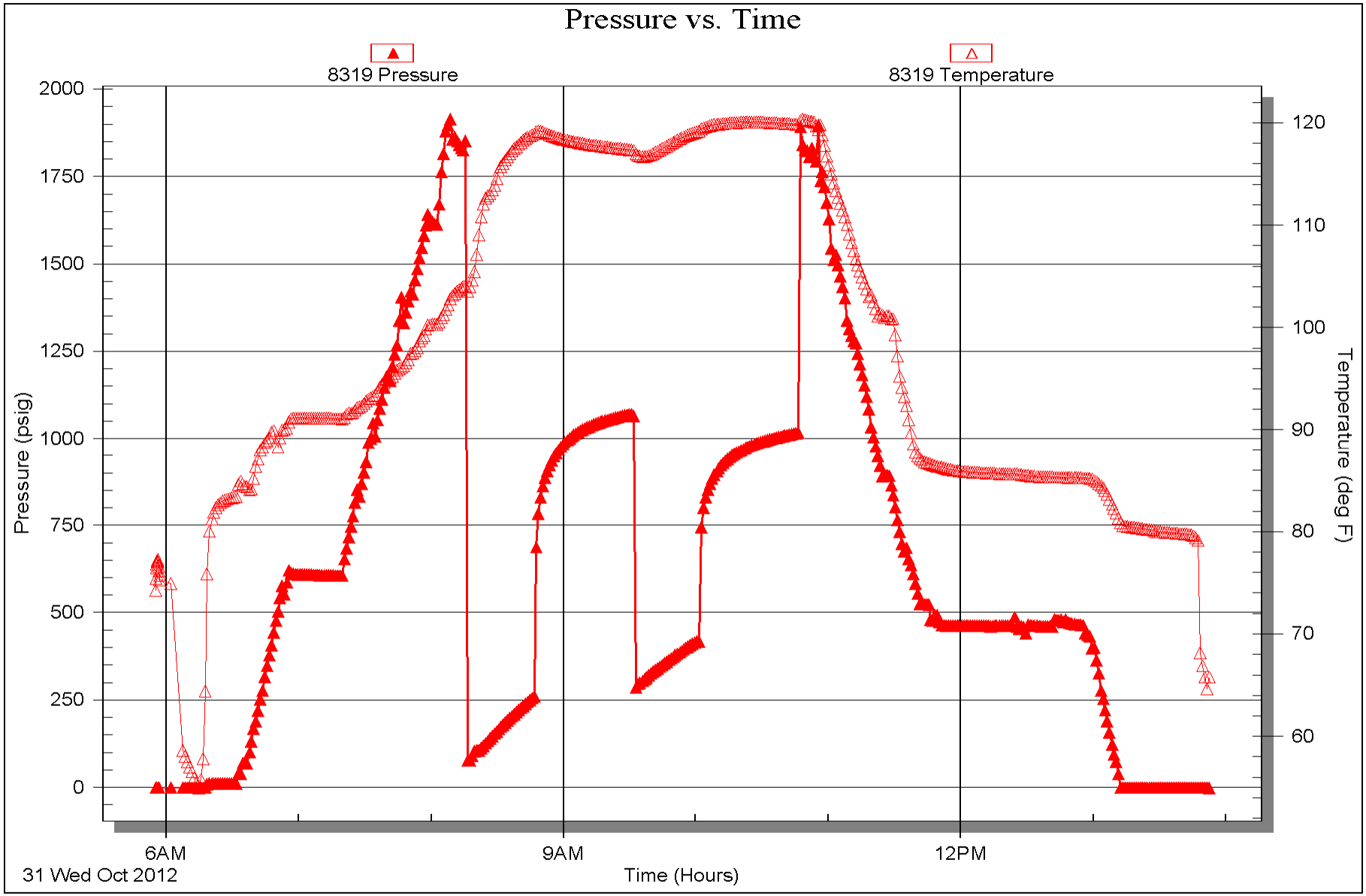
Recovery Comments:

Serial #: 8166 **Inside** Downing-Nelson Oil Co Inc. Seitz-Barnhardt C #2 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 51083 Printed: 2012.11.02 @ 15:07:19

Serial #: 8319 **Outside** Dow ning-Nelson Oil Co Inc. Seitz-Barnhardt C #2 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 51083 Printed: 2012.11.02 @ 15:07:19

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 50788

Well Name & No. Seitz - Barnhardt "C" #2 Test No. 1 Date 10/29/12

Company Downing-Nelson Oil Co Inc Elevation 2217 KB 2209 GL

Address PO Box 1019 111 West 10th Street Hays KS 67601

Co. Rep / Geo. Ron Nelson Rig Discovery #3

Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State KS

Interval Tested 3509 - 3555 Zone Tested KC "C, D"

Anchor Length 46 Drill Pipe Run 3487 Mud Wt. 8.5

Top Packer Depth 3504 Drill Collars Run 30 Vis 51

Bottom Packer Depth 3509 Wt. Pipe Run — WL 8.0

Total Depth 3555 Chlorides 400 ppm System LCM 2½

Blow Description IF - BOB in 3 min

ISI - 8 in blow

FF - BOB in 3½ min

FSI - BOB in 9 min

Rec 645	Feet of mcw	%gas	%oil	%water	%mud	
Rec 60	Feet of 50 MCW	%gas	15 %oil	65 %water	20 %mud	
Rec 125	Feet of GMOCW	15 %gas	25 %oil	40 %water	20 %mud	
Rec 125	Feet of ~~GMOCW~~ GSMWCO	20 %gas	65 %oil	10 %water	5 %mud	
Rec 75	Feet of GSMWCO	30 %gas	35 %oil	30 %water	5 %mud	

Rec Total 4,030 BHT ____ Gravity ____ API RW .06 @ 76 °F Chlorides 130,000 ppm

1340ft GIP

(A) Initial Hydrostatic	4685	☒ Test 1150	T-On Location 6:05
(B) First Initial Flow	86	☐ Jars	T-Started 7:40
(C) First Final Flow	331	☐ Safety Joint	T-Open 9:40
(D) Initial Shut-In	649	☐ Circ Sub	T-Pulled 12:10
(E) Second Initial Flow	351	☐ Hourly Standby	T-Out 15:15
(F) Second Final Flow	486	☒ Mileage 50-T 77.50	Comments
(G) Final Shut-In	640	☐ Sampler	
(H) Final Hydrostatic	1,624	☐ Straddle	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open	30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	45	☐ Extra Recorder	Sub Total 0
Final Flow	30	☐ Day Standby	Total 1227.50
Final Shut-In	45	☐ Accessibility	MP/DST Disc't
		Sub Total 1227.50	

Approved By ____ Our Representative Brett Dinkel

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 50789

Well Name & No. Seitz - Barnhardt "C" #2 Test No. 2 Date 10/30/12

Company Downing - Nelson Oil Co Inc. Elevation 2217 KB 2209 GL

Address PO Box 1019 111 west 10th Street Hays KS 67601

Co. Rep / Geo. Ron Nelson Rig Discovery #3

Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State KS

Interval Tested 3635 - 3680 Zone Tested KC

Anchor Length 45 Drill Pipe Run 3612 Mud Wt. 8.7

Top Packer Depth 3630 Drill Collars Run 30 Vis 55

Bottom Packer Depth 3635 Wt. Pipe Run — WL 7.6

Total Depth 3680 Chlorides 1,500 ppm System LCM 2#

Blow Description IF - BOB in 29 min

ISI - ~~No blow~~ weak surface blow

FF - BOB in 22 min

FSI - weak surface blow

Rec ~~30~~ 64	Feet of ~~MCW~~ MWGCO	15	%gas	60	%oil	10	%water	~~70~~ 30	%mud
Rec ~~30~~ 64	Feet of ~~MCW~~ GOWCM	15	%gas	30	%oil	20	%water	35	%mud
Rec 310	Feet of Gas in PIPE		%gas		%oil		%water		%mud
Rec	Feet of		%gas		%oil		%water		%mud
Rec	Feet of		%gas		%oil		%water		%mud

Rec Total 438 BHT Gravity 64° @ 34.6 = 35 Grav API RW @ °F Chlorides ppm

(A) Initial Hydrostatic	1763	☒ Test 1150	T-On Location 3:30
(B) First Initial Flow	23	☐ Jars	T-Started 3:45
(C) First Final Flow	49	☐ Safety Joint	T-Open 6:20
(D) Initial Shut-In	830	☐ Circ Sub	T-Pulled 9:20
(E) Second Initial Flow	50	☐ Hourly Standby	T-Out 11:15
(F) Second Final Flow	71	☒ Mileage 50 rt 77.50	Comments
(G) Final Shut-In	765	☐ Sampler	
(H) Final Hydrostatic	1742	☐ Straddle	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open	45	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	45	☐ Extra Recorder	Sub Total 0
Final Flow	45	☐ Day Standby	Total 1227.50
Final Shut-In	45	☐ Accessibility	MP/DST Disc't
		Sub Total 1227.50	

Approved By Our Representative 50/50 Brett Dickson

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

4/10

Test Ticket

NO. 51083

Well Name & No. Seitz - Bornhardt "C" #2 Test No. 3 Date 10-31-12

Company Downing - Nelson Oil Co. Inc. Elevation 2217 KB 2209 GL

Address PO Box 1019 111 west 10th St. Hays KS 67601

Co. Rep / Geo. Ron Nelson Rig Discovery #3

Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State KS

Interval Tested 3816 3868 Zone Tested Arbuckle

Anchor Length 52 Drill Pipe Run 3769 Mud Wt. 9.1

Top Packer Depth 3811 Drill Collars Run 30 Vis 54

Bottom Packer Depth 3816 Wt. Pipe Run — WL 8

Total Depth 3868 Chlorides 2500 ppm System LCM 1/2

Blow Description IF: BOB 3min

ISI: built to 3½ in 7min then died off

FF: BOB 3min

FSI: weak surface blow

Rec	126	Feet of	GO	40	%gas	60	%oil		%water	%mud
Rec	—	Feet of	Reversed out 756 of GO	10	%gas	90	%oil		%water	%mud
Rec	—	Feet of	Last two were GMCO	18	%gas	55	%oil	0	%water	28 %mud
Rec	126	Feet of		20	%gas	50	%oil	10	%water	20 %mud
Rec		Feet of	GIP 315'		%gas		%oil		%water	%mud

Rec Total 1008 BHT — Gravity 72°@38.6=37.4 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	1886	☑ Test	1150	T-On Location	4:45
(B) First Initial Flow	75	☐ Jars		T-Started	5:55
(C) First Final Flow	259	☐ Safety Joint		T-Open	8:20
(D) Initial Shut-In	1070	☒ Circ Sub	Dropped Bar 50	T-Pulled	10:50
(E) Second Initial Flow	285	☐ Hourly Standby		T-Out	14:00
(F) Second Final Flow	416	☑ Mileage	50 RT 77.50	Comments	Drop Bar & Reversed fluid out
(G) Final Shut-In	1016	☐ Sampler			
(H) Final Hydrostatic	1888	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☑ Ruined Packer	320
Initial Open	30	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	320
Final Flow	30	☐ Day Standby		Total	1597.50
Final Shut-In	45	☐ Accessibility		MP/DST Disc't	
		Sub Total	1277.50		

Approved By — Our Representative