



KANSAS CORPORATION COMMISSION 1067057
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30717
Name: Downing-Nelson Oil Co Inc
Address 1: PO BOX 1019
Address 2: _____
City: HAYS State: KS Zip: 67601 + _____
Contact Person: Ron Nelson
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Marc Downing
Purchaser: Coffeyville Resources

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

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

Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>10/28/2011</u>	<u>11/03/2011</u>	<u>11/04/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22733-00-00
Spot Description: _____
W2_NE_NW_NE Sec. 34 Twp. 12 S. R. 21 East West
330 Feet from North / South Line of Section
1700 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Trego
Lease Name: Seitz-Barnhardt 'C' Well #: 1-34
Field Name: Ridgeway
Producing Formation: Arbuckle
Elevation: Ground: 2190 Kelly Bushing: 2198
Total Depth: 3940 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 2214 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1569 Feet
If Alternate II completion, cement circulated from: 1569
feet depth to: 0 w/ 130 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 16000 ppm Fluid volume: 320 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Blackhawk Petroleum Company
Lease Name: Brull #2 License #: 32540
Quarter NW Sec. 30 Twp. 14 S. R. 18 East West
County: Ellis Permit #: D26232

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: Deanne Gerrick Date: 01/27/2012



1067057

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Seitz-Barnhardt 'C' Well #: 1-34
 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Attached Top Datum Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	221.41	Common	150	2% Gel & 3%CC
Production String	7.875	5.5	14	3939.54	EA/2	150	

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
4	3860' to 3862'		

TUBING RECORD: Size: <u>2.3750</u> Set At: <u>3890.94</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR: <u>01/02/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>40</u>	Gas Mcf <u>0</u>	Water Bbls. <u>0</u> Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" 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	Seitz-Barnhardt 'C' 1-34
Doc ID	1067057

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Neutron Density

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Seitz-Barnhardt 'C' 1-34
Doc ID	1067057

Tops

Top Anhydrite	1572'	+627
Base Anhydrite	1614'	+585
Topeka	3219'	-1020
Heebner	3440'	-1241
Toronto	3463'	-1264
LKC	3475'	-1276
BKC	3712'	-1513
Marmaton	3770'	-1571
Arbuckle	3835'	-1636

QUALITY OILWELL CEMENTING, INC.

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

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

No. 105

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-28-11	34	12	21	Ellis	Kansas		4-3-11
Lease <i>Seitz Burchart</i>		Well No. <i>1-34</i>		Location <i>Ellis 1 1/2 N 3 1/2 W S 1/4</i>			
Contractor <i>Discovery Drilling Rig</i>				Owner			
Type Job <i>Surface</i>				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <i>1 1/2</i>		T.D. <i>221</i>		Charge To <i>Dumping & Nelson</i>			
Csg. <i>8 3/4 2 1/2</i>		Depth <i>221</i>		Street			
Tbg. Size		Depth		City			
Tool		Depth		State			
Cement Left in Csg. <i>10-15</i>		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <i>1 1/4</i>		Cement Amount Ordered <i>150 Common 300 CC Total</i>			
EQUIPMENT							
Pumptrk <i>9</i>	No.	Cementer <i>Steve</i>		Common <i>150</i>			
Bulktrk <i>13</i>	No.	Driver <i>Matt</i>		Poz. Mix			
Bulktrk	No.	Driver <i>Bob</i>		Gel. <i>3</i>			
				Calcium <i>5</i>			
JOB SERVICES & REMARKS							
Remarks:				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
DAV or Port Collar				CFL-117 or CD110 CAF 38			
				Sand			
<i>Cement and Discharge</i>				Handling <i>158</i>			
				Mileage			
FLOAT EQUIPMENT							
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge <i>Surface</i>			
				Mileage <i>22</i>			
				Tax			
				Discount			
				Total Charge			
X Signature <i>Michael D. [unclear]</i>							

Quality Oilwell

Cementing

JOB LOG

SWIFT Services, Inc.

DATE 11-3-11 PAGE NO. 1

CUSTOMER Dawson & Nelson WELL NO. 1-77 LEASE Seitz-Bernhardt "C" JOB TYPE Convent 2 stage Longstr TICKET NO. 20401

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD-3910'	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
	1950					14 1/4"	5 1/2"		In location w/ Prod Equip (- Rig changing over)
	2010								Start 5 1/2" 14 1/4" casing to 3989'
									Insert float valve w/ Air-Fill
									LD Bore 1 1/2" collar - 55-17' @ 3922'
									Cont 2-4-7-9-11-13-15-59
									Bests #60 - Jts out #6 & 39
									D.V. #60 @ 1569 1/2'
	2145								Fin man casing
	2200								Start circ
	2230								Fin circ - Hook to Swift for 1st stage
		6	12 / 20					300	Pump 500 gal Mud Flush / 20 BBL KOL (P&S)
									Start 150 SKS Eth-2 cont
									Fin cont - Wash out pump lines - Plug
		9	60					400	Displ 60 BBL H ₂ O
		6 1/2	80					400	Displ 20 BBL Mud
	2230	6 1/2	94.7					750	Displ 14.7 KOL Fluid - Plug down
			8 / 6					1500	Hold-Release-Hold - Drop D.V. opening tool
									Plug RH - INTT 30 / 20 SKS cont
	2310	6	4					300	Open D.V. - Fin flush
		6						300	Start 130 SKS SMD @ 11.2 gal
		5	7.5					100	Fin cont - D.V. closing Plug
								300	Start Displ H ₂ O (3 BBL)
	11-4-11 2015 2415		38					600 / 1300	Plug down - Hold-Release-Hold
									Wash up & Rankin
									20 SKS SMD @ 11.2 gal to Pet

Thanks Don, Brian & Steve

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

**GEOLOGIC
 REPORT
 LOG**

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

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS	

COMPANY Downing-Nelson Oil Co., Inc.

WELL Seitz-Barnhardt 2" #1

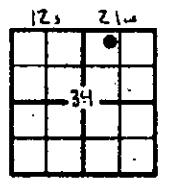
FIELD Ridgeview

LOCATION 335' CNL + 1700' FEL

SEC. 34 TWP. 12s RGE. 21w

COUNTY Trego

STATE Kansas



PRODUCTION Arbuckle

ELEVATION KB 2199
 DF
 GL 2191

Drilling Measured From: KB

Samples Saved From 3200 To: TD

Drilling Time From 3:00 To: TD

Samples Examined From: 3200 To: TD

Geological Supervision From 3100 To Total Depth

Wellbore Geologist Marc Downing

Electrical Surveys Supersine
CNL/COL
DL
MEI
Sonic

OPERATOR Discovery Drilling, Rig #1

CONTRACTOR ANACT

COMM: 10-28-11 COMP: 11-3-11

CASING RECORD

SURF: 4 5/8" @ 221' PROD: 5 7/8" @ 3940'

TOTAL DEPTH DRILLERS: 3940'

TOTAL DEPTH LOG: 3944'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	1571	1572	+127	-5
Base Anhydrite	1615	1614	+585	-3
Tonka	3218	3219	-1020	+5
HEARNER	3439	3440	-1241	+6
Toronto	3462	3463	-1264	+6
LC	3474	3475	-1276	+7
BKC	3769	3772	-1513	+5
Marmaton	3768	3770	-1571	+8
Arbuckle	3833	3835	-1636	+31

REFERENCE WELL FOR STRUCTURE Hershbarger Evaluations, Inc
McCill #1 NW-NW-NE Sec. 34-12s-21w










7515

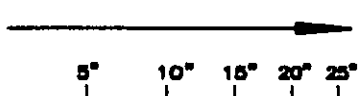
DRILL STEM TESTS							
No.	Interval	IP/Tim	IS/Tim	FR/Tim	FB/Tim	SPM	REMARKS

Prof. 30' zone of Tertiary before development

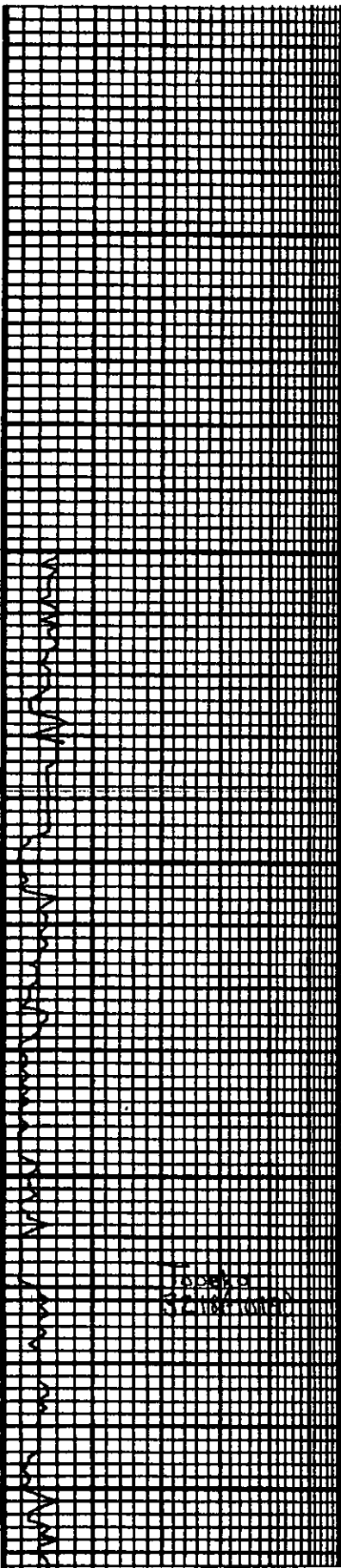
REMARKS AND RECOMMENDATIONS

LEGEND

- 
Anhydrite
- 
Salt
- 
Sandstone
- 
Shale
- 
Carbon shale
- 
Limestone
- 
Coarse limestone
- 
Chert
- 
Dolomite

<p>DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases</p> 	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS

LOG 7710

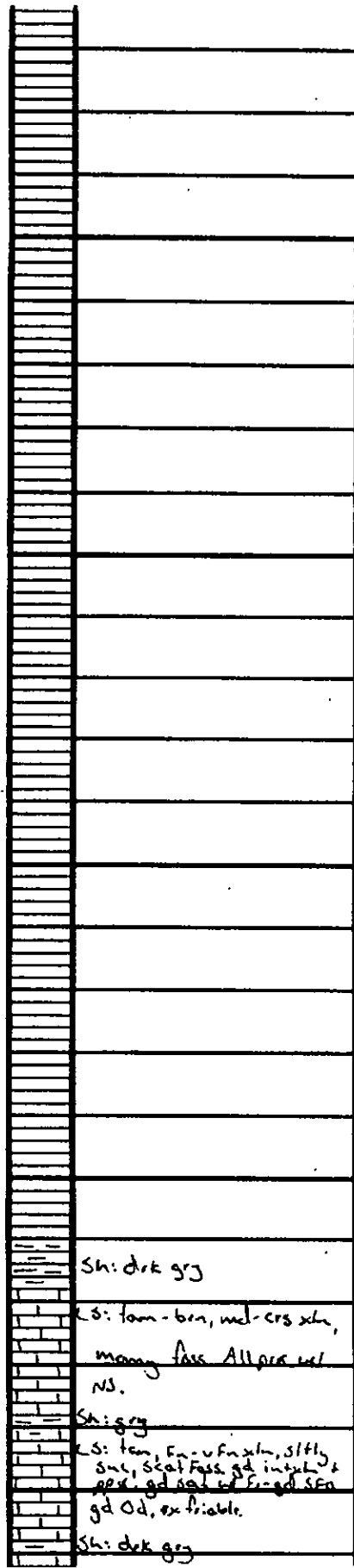


3100

50

3200

50



Sh: drk ggy

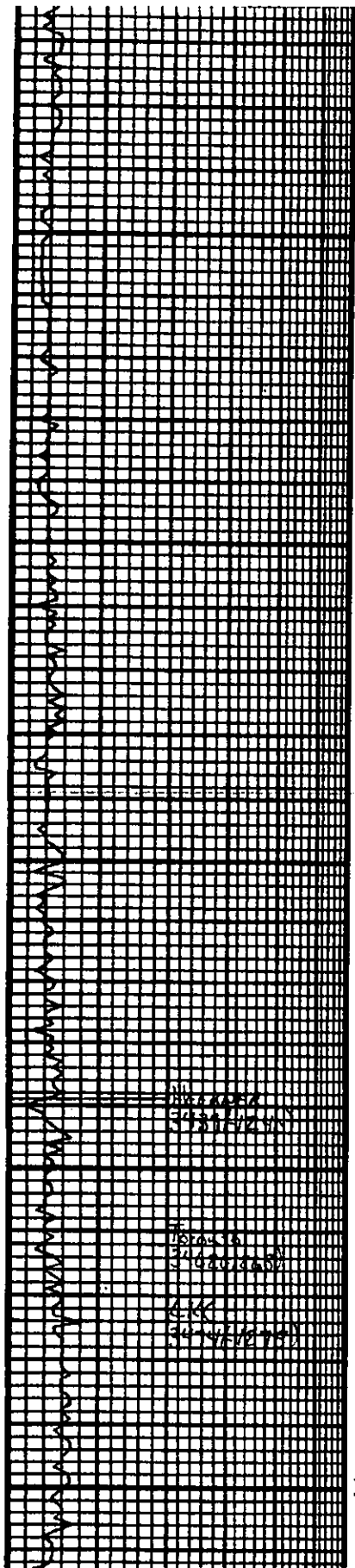
Ls: tan-brn, med-crs xln,
many fiss. All pres. vel.
NS.

Sh: ggy

Ls: tan, Fin-vfxln, sltly
suc, scat fiss, gd insub. &
per. gd sat. w/ Fin-gd. Sen.
gd Od. extriable.

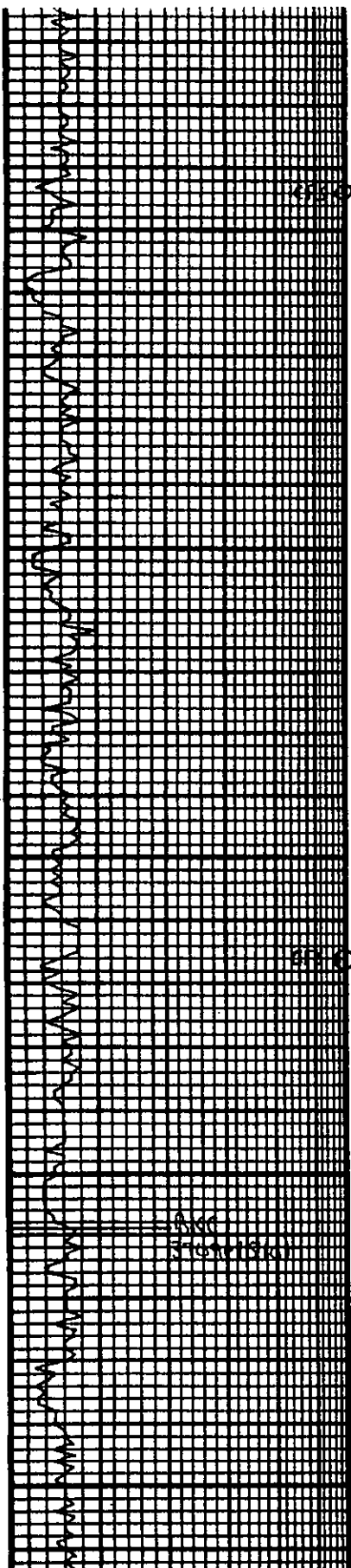
Sh: drk ggy

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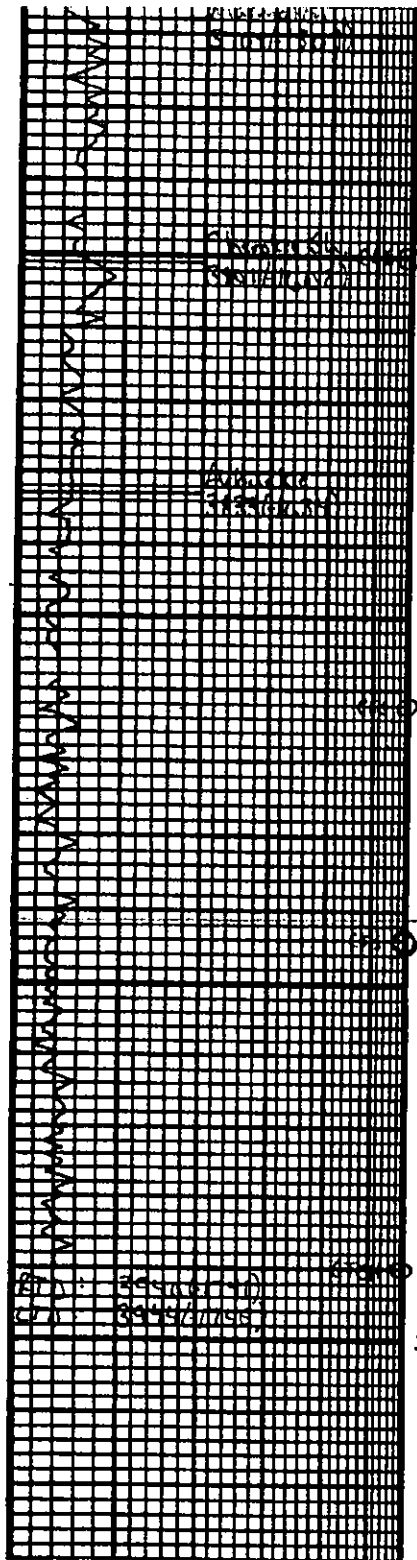
Sh: gy	LS: tan, fin, scat foss. Scat fr intxlng w/ lt brn str.
Sh: gy	LS: whit-tan fin, 1-2 brn str in gd intxlng. Mostly subxl-cmlky w/ NS.
Sh: gy	LS: Mostly A1A w/ mild ex.
Sh: gy	LS: wht, fin, cmlky trng dms.
Sh: gy	LS: tan, ool, dalam in prt. fr- gd intxlng, ool ex in prt. fr- gd scat w/ gd sfo, fr od.
Sh: gy	LS: Trng dms w/ prs, All NS
Sh: gy	LS: whit-tan, 3-4 ex w/ gd scat + gd sfo in fr-gd vng & ppp, fr-gd od.
Sh: Black Carb	
Sh: gy	LS: tan, med-xin, v foss, scat dalam ex. Scat brn str w/ gd sfo, fr od.
Sh: gy	LS: tan, med-crs xin, man foss + mild ex. sub xin - cmlky w/ blk. fine chnta mostly barren, 1-2 ex w/ lt resid str NSFO.
Sh: Black Carb	
Sh: Black Carb	LS: tan, med xin, dms
Sh: 11 gy	
Sh: 11 gy	LS: wht, fin, few sub xl r, med h dms w/ prs NS
Sh: 11 gm	LS: wht, fin, med xl, sub xl. All NS. Rv trng
Sh: 11 gm	LS: wht, fin, v fin, prs w/ frant tan shp chnta.
Sh: 11 gm	LS: wht, fin, v fin, prs w/ frant tan shp chnta.
Sh: 11 gm	LS: wht, fin, v fin, prs w/ frant tan shp chnta.

Vis: 69	LT: 8.8
OST #1	
3494-3544	
30-30-30-30	
IFP: 20-23	
FRP: 23-25	
SIP: 50-40	
MP: 1043-1036	
Rec:	
1' mud	
BHT: 102°	



# 1	11'-6" Od. NSFO.
	Sh: gry
	LS: tan-whit, fu-v fu xln, sltly 3m w/ scat foss. fr int xln w/ fr-gd brn scat slt w/ sp ttd SFO.
	Sh: Black Carb.
50	Sh: gry
	LS: tan, v fu xln, fr brn str in fite ex, prs, Fint Od.
	Sh: gry
	LS: tan-whit, med-see xln, dlaton w/ foss. gd int xln + vng fr, gd scat str w/ gd SFO, fr-gd Od.
	Sh: gry
	LS: whit, fu-med xln, scat foss ex w/ llt brn str + sp ttd SFO.
	Mostly chalky, gd Od.
	LS: Tan-whit, fu-med xln w/ scat foss. All prs
	+ chns.
3600	Sh: Black Carb
	Sh: gry
O S T	LS: tan-whit, fu-med xln, foss scat fr int xln + vng fr, fr-gd scat w/ fr SFO, fr Od, fr Ant ex w/ fite mtr, tan-whit chn
# 2	Sh: Black Carb
	LS: whit, tan, fu-med xln, dlaton w/ foss. fr-gd int xln + vng fr gd brn scat slt w/ fr-gd sp ttd fr fr-gd Od.
	LS: trng chns w/ prs, All fite
50	Sh: gry
	LS: tan, med-cr xln, dlaton w/ foss. Scat fr-gd int xln + vng fr, fr scat w/ sp ttd SFO, fr Od. Smoles trng eml + fine.
	Sh: ben-red w/ gry
	LS: whit, fu xln, mostly chns + prs, chalky in prt, All NS.
	Sh: gry
	LS: whit, fu xln, few sand ool. Scat pr sp ttd str dead in prt. pr int xln. Rv trng Substr- chllky, some scattl SFO. All No Od.
3700	Sh: gry, trng brn-red, silty.
	LS: tan, med xln, ool, intld
	Sh: red, washes red.
	LS: AIA
50	Sh: red
	LS: tan, fu-med xln, prs.

Vis: 60	wt: 8.8
OST # 2	
3592-3666	
30-30-30-30	
IFP: 22-39	
FFP: 40-43	
SIP: 842-794	
HP: 1692-1678	
Rec:	
30' sec in 270	
BHT: 103'	



3800

50

3900

50

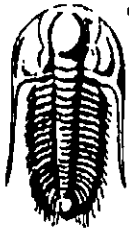
D
S
T

3

15	LS: wht, fr xln, mostly dne ul prg, scat subxln - chky ex. fr. prg. org. chkn.
10	Same LS AIA tang mostly tan sha chkn. Scat edge
5	Stn ul pr ruber sfo. 2-3 pis LS ul fr sfo in pr vngs. lt- fat ad.
0	Sh: dk gry-blk.
5	Sh: gry ul brn + lt grn
10	Sh: gry ul grn
15	
20	Dolo: tan, fr und sme xln, fr-gd intxng. silt in prt. gd sat ul d sfo. Fr-gd ad. Fr Am. tan sha chkn Free oil on sfo.
25	Dolo: Ting fr cup xln, tan, gd intxln s ul gd sat, gd sfo, gd ad. Free oil on cup. Dols ero thm ex in base ul scat gillwise.
30	Some dolo AIA tang sandy faced grain ul lng single grains. pr scat. Fr und. Fr tag ul scat sat sfo. Scat barren ex. Ting silt. weakly fr und. Fr tag ul scat sat sfo. ul fr-gd sfo when broken. Fr-gd ad. All ex dolen. Ting lites ul less gr.
35	Dolo: wht-lam med rhom xln, sandy. lng und grains ul in dolo. Fr-gd in part. Fr-gd ul fr-gd sat + fr settled sfo. Fr-gd ad.
40	Much AIA, sandy dolo ul fr-gd s. still carry- ing fr stn ul fr sfo. Scat barren ex fr ad.
45	
50	

Via: SL Lt: 9
DST # 3
3790-3862
15-30-30-45
I.F.-BOB 2 min / 1/8" SIB
F.F.-BOB 1 min / 1" SIB
IPP: 73-91
FFP: 132-479
SIP: 1143-1025
HP: 1914-1904
Rec:
120' GIP
130' MGO 10%g, 85%o
1055' CD
BHT: 114° G=28
* Mud damage on ISLP

Handwritten signature



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego

P O Box 1019
Hays Ks 67601

Seitz-BarnhardtC1-34

Job Ticket: 44764

DST#: 1

ATTN: Ron Nelson

Test Start: 2011.11.01 @ 03:25:17

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 05:20:42

Time Test Ended: 08:45:11

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3494.00 ft (KB) To 3544.00 ft (KB) (TVD)**

Total Depth: **3544.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2198.00 ft (KB)**

2190.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **25.88 psig @ 3508.00 ft (KB)**

Start Date: **2011.11.01**

End Date:

2011.11.01

Start Time: **03:25:17**

End Time:

08:45:11

Capacity: **8000.00 psig**

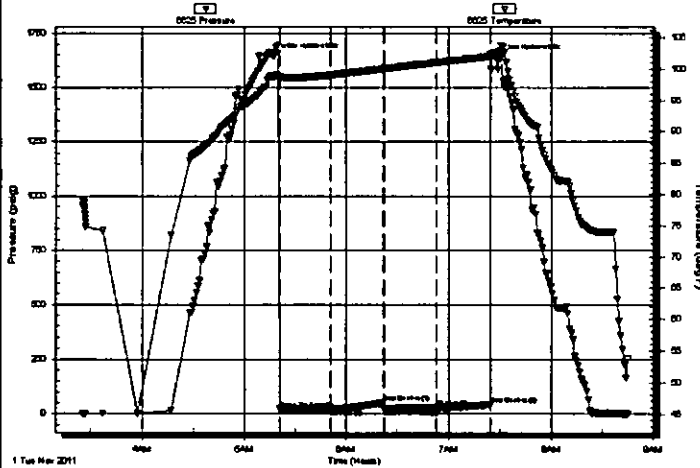
Last Calib.: **2011.11.01**

Time On Btm: **2011.11.01 @ 05:17:12**

Time Off Btm: **2011.11.01 @ 07:27:42**

TEST COMMENT: 30-IFP-surface bl thru-out
30-ISIP-no bl
30-FFP-no bl
30-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

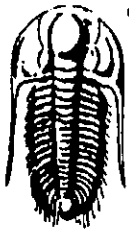
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.28	98.78	Initial Hydro-static
4	20.90	98.74	Open To Flow (1)
34	23.58	99.01	Shut-In(1)
65	50.81	100.01	End Shut-In(1)
65	23.47	100.02	Open To Flow (2)
96	25.88	101.02	Shut-In(2)
127	40.88	101.99	End Shut-In(2)
131	1636.52	102.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

34-12s-21w Trego

P O Box 1019
Hays Ks 67601

Seitz-BarnhardtC1-34

Job Ticket: 44764

DST#: 1

ATTN: Ron Nelson

Test Start: 2011.11.01 @ 03:25:17

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1.00	Mud	0.005

Total Length:

1.00 ft

Total Volume:

0.005 bbl

Num Fluid Samples: 0

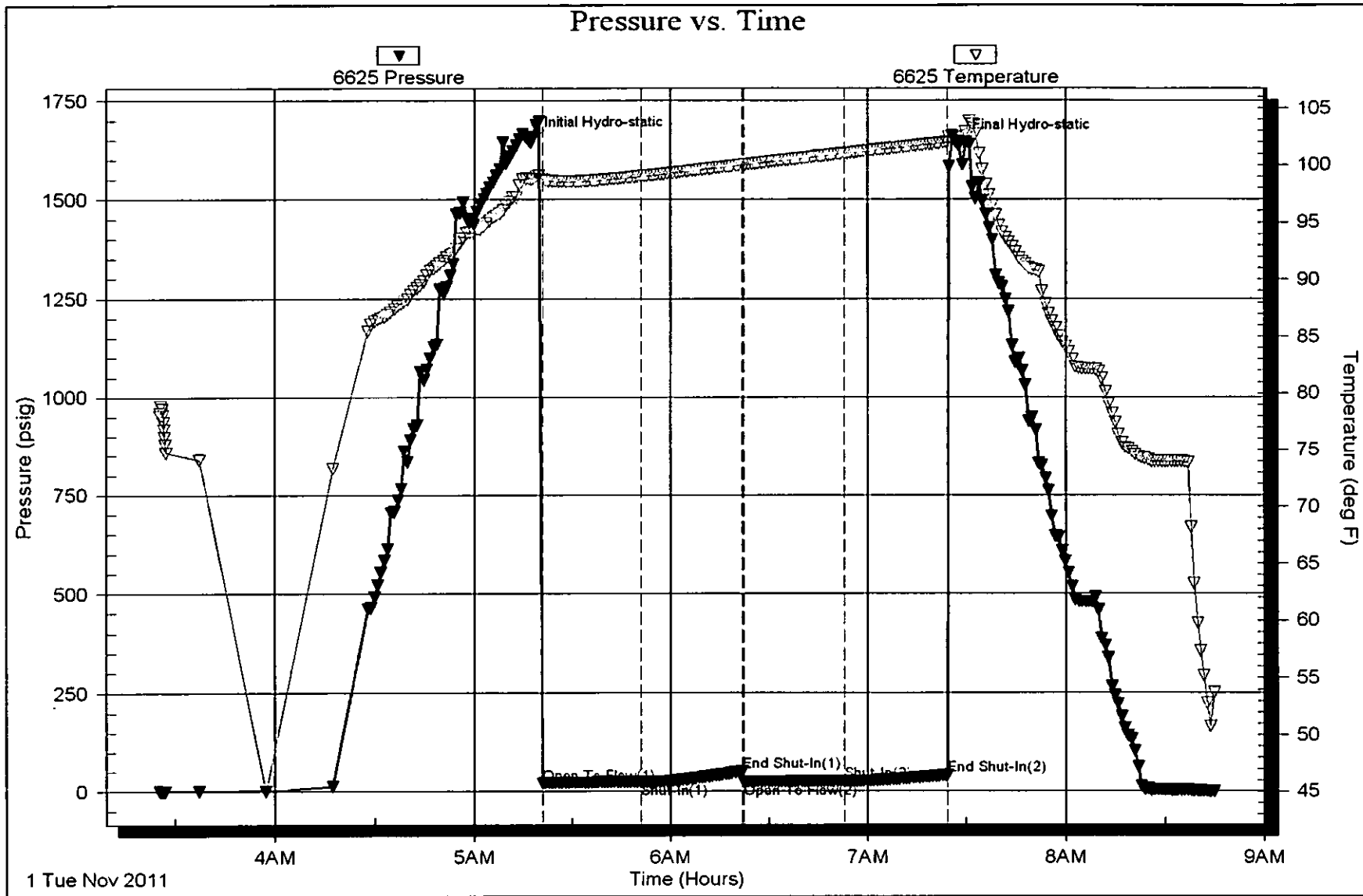
Num Gas Bombs: 0

Serial #:

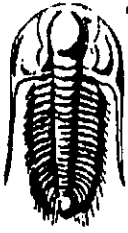
Laboratory Name:

Laboratory Location:

Recovery Comments:



1 Tue Nov 2011



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego

P O Box 1019
Hays Ks 67601

Seitz-BarnhardtC1-34

Job Ticket: 44765

DST#: 2

ATTN: Ron Nelson

Test Start: 2011.11.01 @ 20:25:23

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 21:54:18

Time Test Ended: 01:27:47

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3592.00 ft (KB) To 3666.00 ft (KB) (TVD)**

Total Depth: **3666.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2198.00 ft (KB)**

2190.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **43.06 psig @ 3600.00 ft (KB)**

Start Date: **2011.11.01**

End Date:

2011.11.02

Capacity: **8000.00 psig**

Last Calib.: **2011.11.02**

Start Time: **20:25:23**

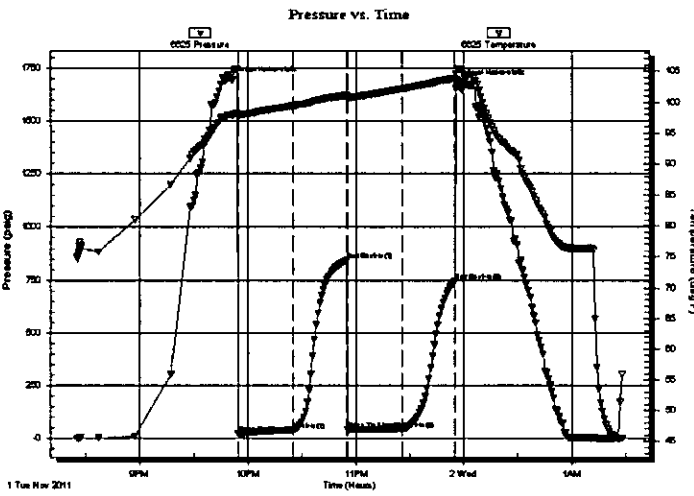
End Time:

01:27:47

Time On Btm: **2011.11.01 @ 21:51:18**

Time Off Btm: **2011.11.01 @ 23:58:18**

TEST COMMENT: 30-IFP-w k bl 1/4"to 1"bl
30-ISIP-no bl
30-FFP-surface bl thru-out
30-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1692.13	97.95	Initial Hydro-static
3	22.45	97.94	Open To Flow (1)
34	38.25	99.37	Shut-In(1)
64	842.20	101.11	End Shut-In(1)
64	40.23	100.90	Open To Flow (2)
95	43.06	102.12	Shut-In(2)
124	744.33	103.85	End Shut-In(2)
127	1678.49	105.39	Final Hydro-static

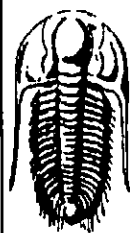
Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 2%O98%M	0.15

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

34-12s-21w Trego

P O Box 1019
Hays Ks 67601

Seitz-BarnhardtC1-34

Job Ticket: 44765

DST#: 2

ATTN: Ron Nelson

Test Start: 2011.11.01 @ 20:25:23

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 7.94 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 2%O98%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

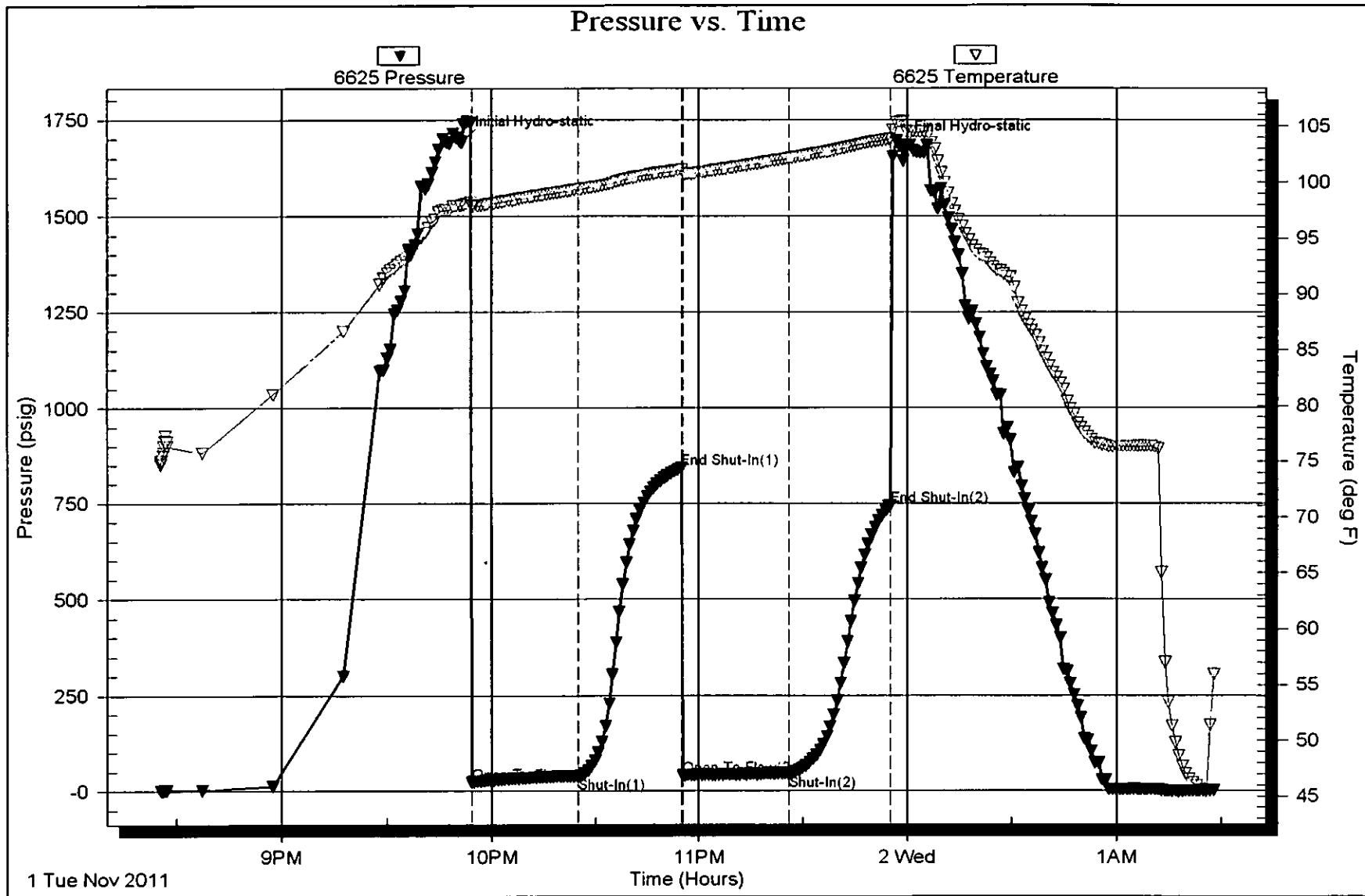
Num Gas Bombs: 0

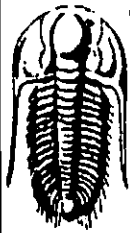
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

34-12s-21w Trego

P O Box 1019
Hays Ks 67601

Seitz-BarnhardtC1-34

Job Ticket: 44766 **DST#: 3**

ATTN: Ron Nelson

Test Start: 2011.11.02 @ 16:15:34

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 18:05:29

Time Test Ended: 22:59:58

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3790.00 ft (KB) To 3862.00 ft (KB) (TVD)**

Total Depth: **3862.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2198.00 ft (KB)**

2190.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **479.28 psig @ 3796.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.11.02** End Date: **2011.11.02**

Last Calib.: **2011.11.02**

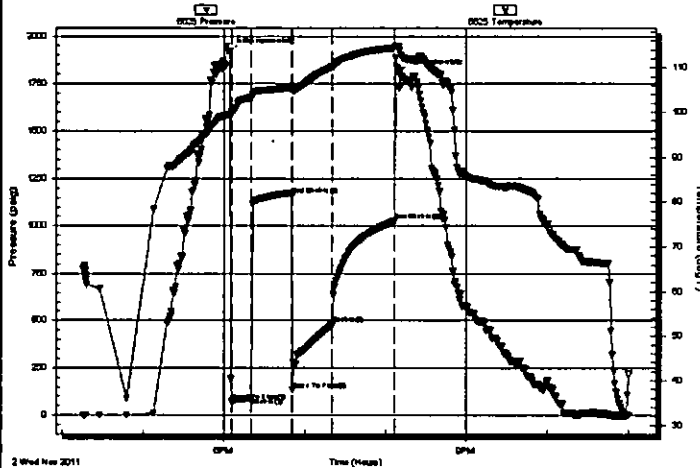
Start Time: **16:15:34** End Time: **22:59:58**

Time On Btm: **2011.11.02 @ 18:03:59**

Time Off Btm: **2011.11.02 @ 20:09:29**

TEST COMMENT: 15-IFP-strg bl in 2 min
30-ISIP-1/8"bl bk
30-FFP-strg bl in 1 min
45-FSIP-1"bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1914.50	99.34	Initial Hydro-static
2	73.18	99.82	Open To Flow (1)
16	91.83	103.09	Shut-In(1)
46	1163.71	105.47	End Shut-In(1)
47	132.74	104.96	Open To Flow (2)
76	479.28	110.17	Shut-In(2)
122	1025.64	114.30	End Shut-In(2)
126	1804.09	114.69	Final Hydro-static

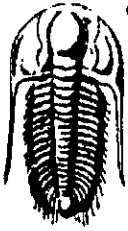
Recovery

Length (ft)	Description	Volume (bbl)
130.00	MGO 10%G5%M85%O	1.55
1055.00	CO	14.80
0.00	120' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

34-12s-21w Trego

P O Box 1019
Hays Ks 67601

Seitz-BarnhardtC1-34

Job Ticket: 44766

DST#: 3

ATTN: Ron Nelson

Test Start: 2011.11.02 @ 16:15:34

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 7.95 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 28 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	MGO 10%G5%M85%O	1.550
1055.00	CO	14.799
0.00	120' GIP	0.000

Total Length: 1185.00 ft Total Volume: 16.349 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

