



KANSAS CORPORATION COMMISSION 1052930
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 372
Address 2: _____
City: HAYS State: KS Zip: 67601 + 0372
Contact Person: Ron Nelson
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Marc Downing
Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

<u>01/13/2011</u>	<u>01/19/2011</u>	<u>01/20/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26079-00-00

Spot Description: _____

SW NW NE NW Sec. 13 Twp. 14 S. R. 19 East West
335 Feet from North / South Line of Section
1,415 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Ellis

Lease Name: Johnson Well #: 1-13

Field Name: Ridge Hill

Producing Formation: Arbuckle

Elevation: Ground: 2144 Kelly Bushing: 2152

Total Depth: 3860 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 223 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 1372 Feet

If Alternate II completion, cement circulated from: 1372

feet depth to: 0 w/ 135 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 160000 ppm Fluid volume: 400 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Gene Karlin Company

Lease Name: Nuss #1 SWD License #: 3444

Quarter NE Sec. 5 Twp. 13 S. R. 17 East West

County: Ellis Permit #: D25588

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Garrison Date: 03/31/2011



1052930

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Johnson Well #: 1-13
 Sec. 13 Twp. 14 S. R. 19 East West County: Ellis

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 Top Datum Attached Attached Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12.25	8.625	23	222.50	Common	150	2% Gel & 3% CC
Production String	7.875	5.5	14	3860	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 (Amount and Kind of Material Used)	Depth
4	3789' - 3791'		

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3793.65</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>02/14/2011</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>7</u>	Gas Mcf <u>0</u> Water Bbls. <u>100</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) (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	Johnson 1-13
Doc ID	1052930

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density/Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Johnson 1-13
Doc ID	1052930

Tops

Top Anhydrite	1408	+744
Base Anhydrite	1448	+704
Topeka	3157	-1005
Heebner	3405	-1253
Toronto	3425	-1273
LKC	3452	-1300
BKC	3682	-1530
Arbuckle	3754	-1602

JOB LOG

SWIFT Services, Inc.

DATE 01-20-11 PAGE NO. 1

CUSTOMER DWINN & NELSON WELL NO. 1-13 LEASE JOHNSON JOB TYPE 2 STAGE TICKET NO. 19284

CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							ON LOCATION CMT: Bore: 150 EA 2 TOP: 180 SMD RTD 380 SMD PIPE 380, ISJ 428, Z SECT 3917 5 1/2" HET D.V. TAIL ON TOP * 59, 1372 CENT 1.3.5.7.9.11.59 BORE 7 5/8 0800 CALL OUT TAXES!
	0915							START GSK & FLOK ECU TKL BORE - JONAS
	1100							BREAK CIRC
	1145	5.0	12				200	MUD FLUSH 500
			20					MCL FLUSH 2%
			36.5					EA 2 CMT 150 SMD DUPLO PLUG - WASH PL
	1200	6.5	0				200	START DISP
			57.5				200	CMT ON SYSTEM
			75				400	MCL FLUSH
			85				600	
			90				700	
	1215	4.5	93.1				1400	LAND PLUG DROP DV OPENING START
	1220		7.5					PLUG RH 4/3000, MA 4/1550
	1235						900	OPEN DIS
	1235	5.5	0				200	START SMD CMT
			80					END DROP D.V. CLOSING PLUG
	1250	5.0	0				200	START DISP
			22				300	CIRC CMT TOPTT! 2845
			30				400	
	1300	4.0	33.4				1400	CLOSE DV. LAND PLUG
	1345							JOB COMPLETE THANK YOU! DAVE JOHNSON, JOHN

JOHNSON 91.92.93.94

QUALITY OILWELL CEMENTING, INC.

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

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

No. 4710

Date	1-14-11	Sec.	13	Twp.	14	Range	19	County	Ellis	State	KS	On Location		Finish	12:30 P.M.
Lease	Johnson		Well No. 1-13			Location #45483 S Spring Hill Rd. 3 mi SINTO									
Contractor	D. Scarey #3							Owner							
Type Job	Surface							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	12 1/4			T.D.			223								
Csg.	8 5/8			Depth			223								
Tbg. Size				Depth			Charge To Downing/Wilson								
Tool				Depth			Street								
Cement Left in Csg.	15'			Shoe Joint			City State								
Meas Line				Displace			13' 4 3/4								
							The above was done to satisfaction and supervision of owner agent or contractor.								
							Cement Amount Ordered 150 Com. 30cc 290cc								

EQUIPMENT

Pumptrk	9	No.	Cement	Helper	Paul	Common	150
Bulktrk		No.	Driver	Driver		Poz. Mix	
Bulktrk	10	No.	Driver	Driver	Jason	Gel.	3

JOB SERVICES & REMARKS

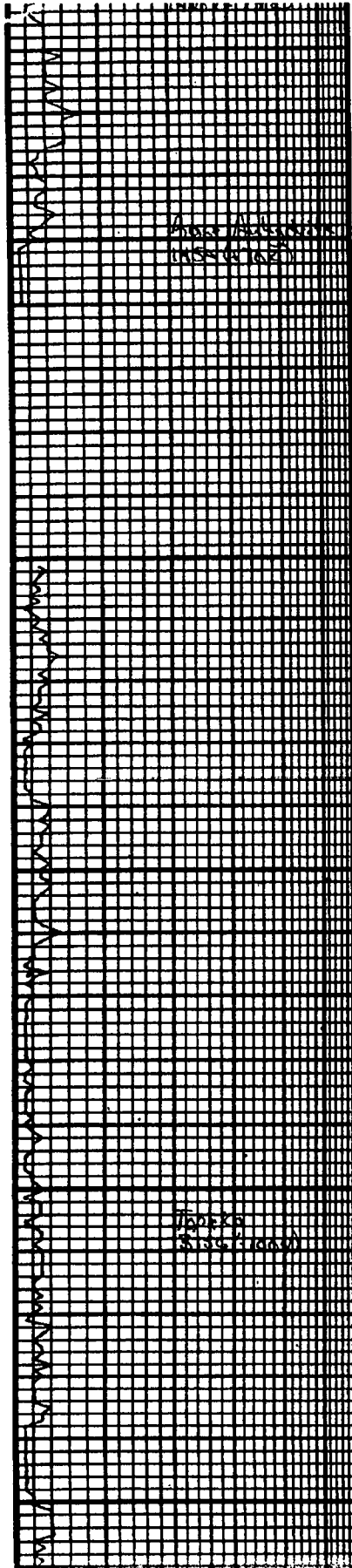
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom for Circulation.	Sand
Mix 140 SK & Displace	Handling 150
Cement Circulation	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Quality Oilwell
Cementing

Pumptrk Charge	Surface	Tax	
Mileage	6	Discount	
Signature	John Jellen	Total Charge	



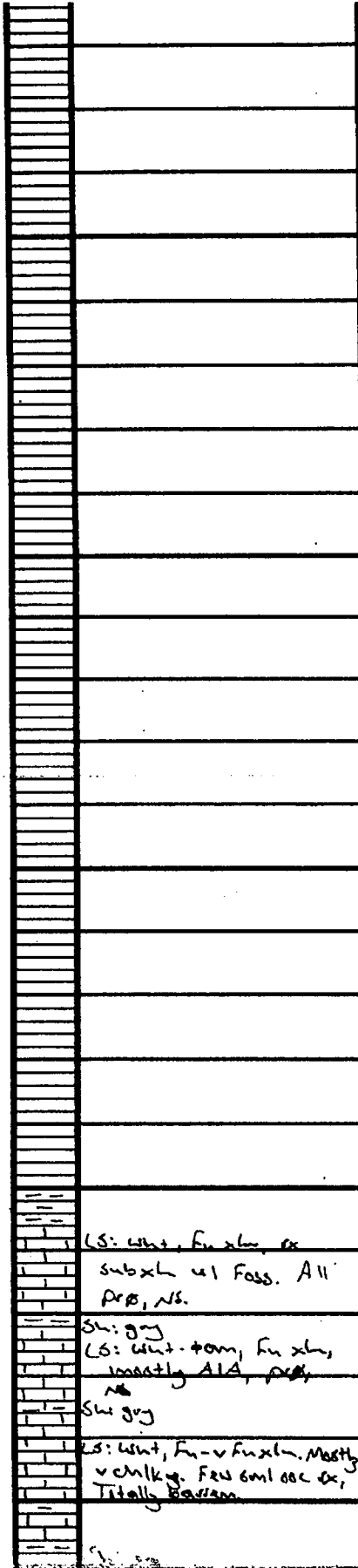
1450

3050

3100

50

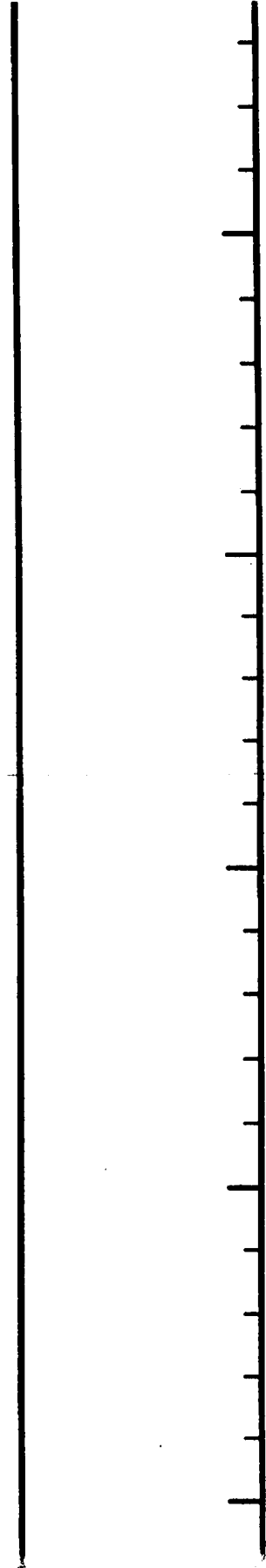
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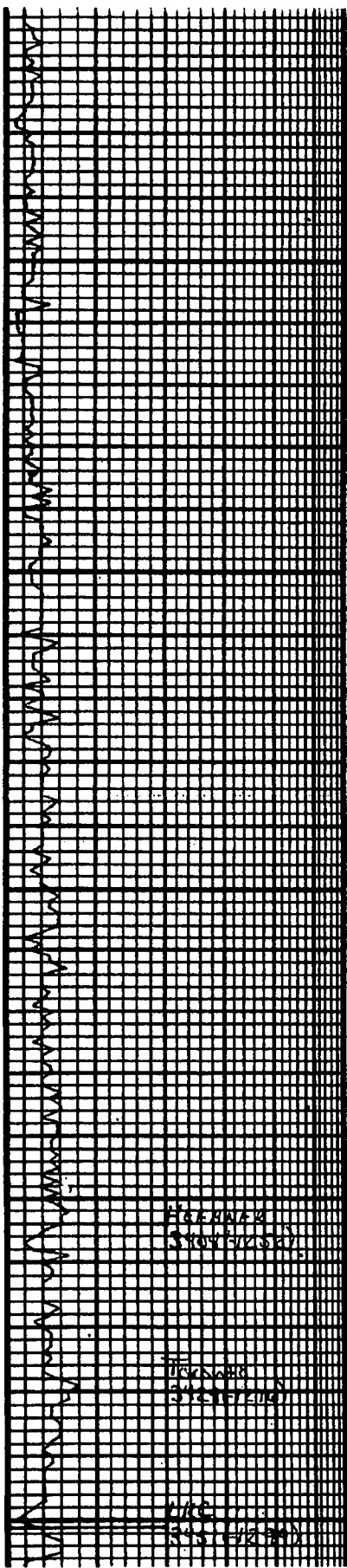


Ls: wht, Fu xls, ex
subxl w/ Foss. All
prp, ns.

Sh: gy
Ls: wht + tom, Fu xls,
mostly AIA, prp,
ns

Ls: wht, Fu - v Fu xls. Mostly
v chky. Few small ooc ex,
Totally barren





50

3300

50

3400

50

L.S: tan- wht, fine- med
 xln, subxln, Fr intxln
 & Rx long mtdl ul
 depth, All ns.

L.S: Mostly AIA, sub
 xln, Fr intxln &, All
 ns.

L.S: unt- tan, fine- med
 xln, mtdl, chalky ns.

Sh: Black Carb

Su: brn- red

L.S: wht, fine- med xln, Fr
 intxln &, vchky. Few swi
 Foss, All ns.

L.S: wht, v fine- med xln,
 v dms ul No vis.

Scat subxln cr, All
 ns.

Su: gy

L.S: wht, fine xln, subxln,
 ns Fr out gy Foss chta.
 Sh: Black Carb

Su: gy

L.S: wht, fine- med xln,
 subxln ul scat dms cr.
 All ns, scat Foss chta.

L.S: wht, fine- med xln, subxln
 Chky, frag dms ul pow
 &, ns.

L.S: unt- tan, fine xln, mostly
 chky + barren. 2-3 pcs wh
 Fr pp, 14 brn str, NSFA, No
 Od. Scat Foss.

L.S: wht- tan, dual Foss
 pr intxln &, ns. Scat
 gy su int beds.

Sh: Black Carb

Sh: gy

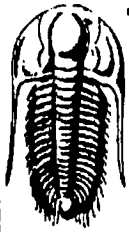
L.S: wht, v fine xln, sub
 xln in prt. Mostly dms
 ul No vis, ns.

Sh: gy- dk gy, blk

L.S: unt, v fine xln, v dms, No
 vis.

Vis: 54 Lat: 9.8

DST #1



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P O Box 372
Hays Ks 67601-0372

13-14s-19w Ellis

Job Ticket: 41666

DST#: 1

ATTN: Ron Nelson

Test Start: 2011.01.17 @ 09:12:14

GENERAL INFORMATION:

Formation: **LKC C-E**

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

Time Tool Opened: 11:12:09

Time Test Ended: 15:16:08

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3454.00 ft (KB) To 3526.00 ft (KB) (TVD)**

Total Depth: **3454.00 ft (KB) (TVD)**

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

Reference Elevations: **2148.00 ft (KB)**

2140.00 ft (CF)

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

Serial #: 6625

Inside

Press@RunDepth: **51.62 psig @ 3460.00 ft (KB)**

Start Date: **2011.01.17**

End Date:

2011.01.17

Capacity: **8000.00 psig**

Last Calib.: **2011.01.17**

Start Time: **09:12:14**

End Time:

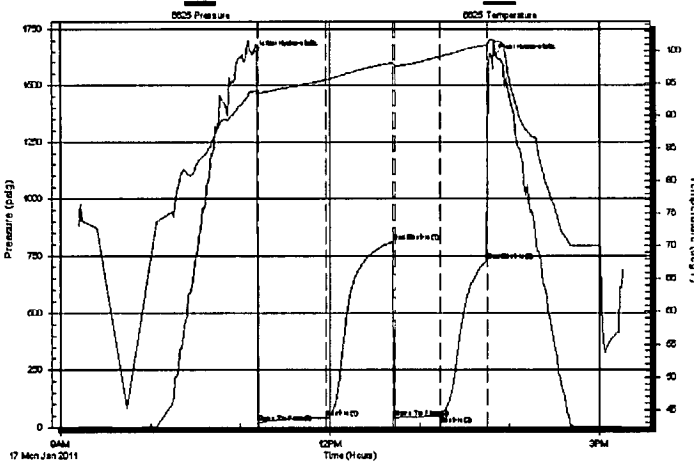
15:16:08

Time On Btm: **2011.01.17 @ 11:08:39**

Time Off Btm: **2011.01.17 @ 13:48:08**

TEST COMMENT: IFF-w k bl 1/4"to 1"bl
ISIP-no bl bk
FFP-w k bl 1/4"to 1/2"bl
FSIP-no bl bk

Pressure vs. Time



PRESSURE SUMMARY

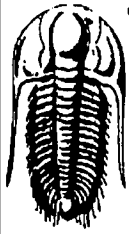
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.05	93.69	Initial Hydro-static
4	18.03	93.49	Open To Flow (1)
49	40.48	95.48	Shut-in(1)
94	812.24	98.09	End Shut-in(1)
95	42.71	97.71	Open To Flow (2)
125	51.62	99.05	Shut-in(2)
156	728.98	100.87	End Shut-in(2)
160	1624.43	101.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	55'GIP	0.00
65.00	O&GCM 5%G5%O90%M	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P O Box 372
Hays Ks 67601-0372

13-14s-19w Ellis

Job Ticket: 41666

DST#: 1

ATTN: Ron Nelson

Test Start: 2011.01.17 @ 09:12:14

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: 2.00 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
0.00	55'GIP	0.000
65.00	O&GCM 5%G5%O90%M	0.638

Total Length: 65.00 ft Total Volume: 0.638 bbl

Num Fluid Samples: 0

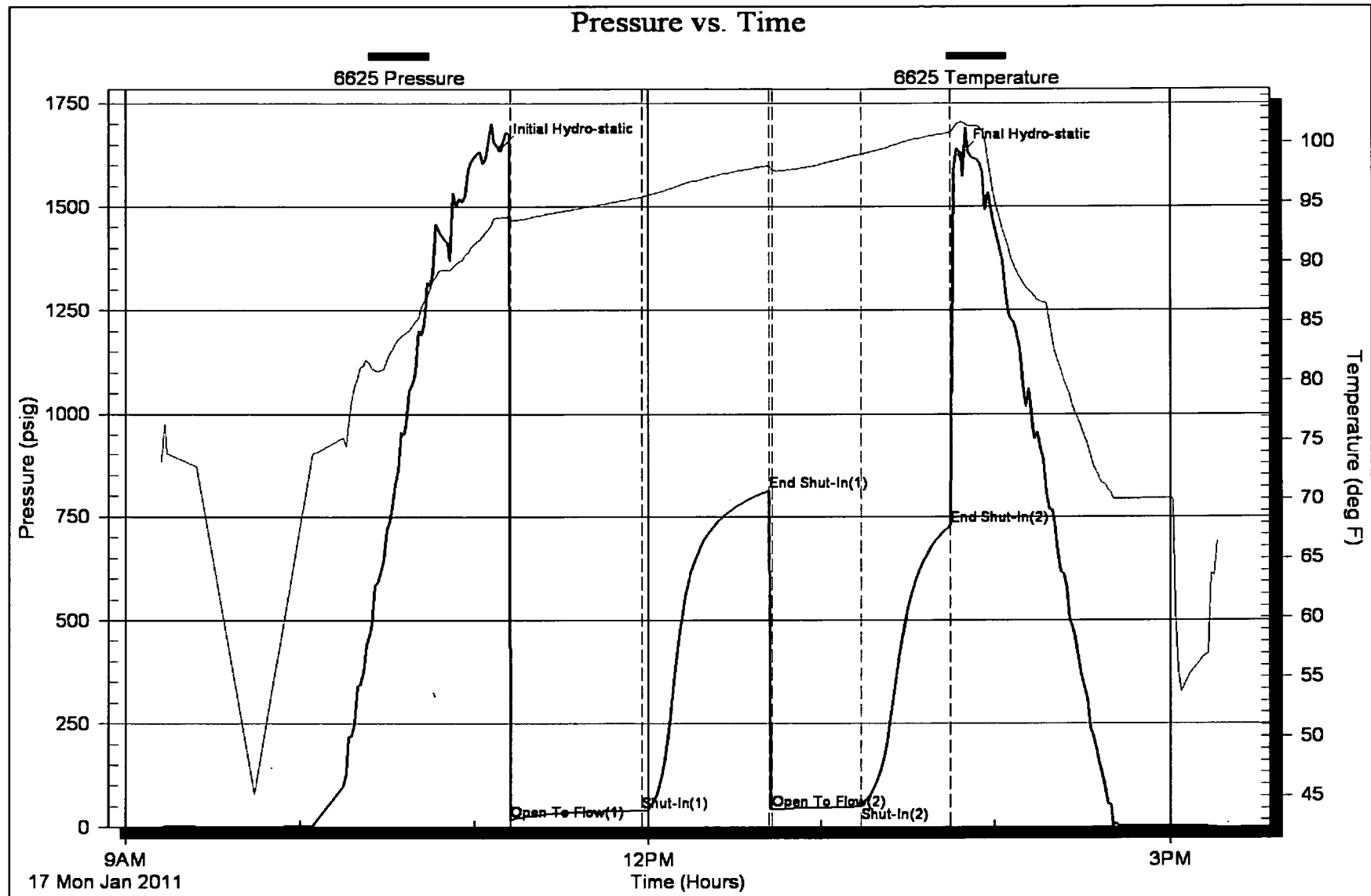
Num Gas Bombs: 0

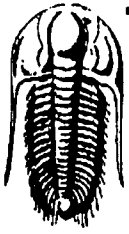
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P O Box 372
Hays Ks 67601-0372

13-14s-19w Ellis

Job Ticket: 41667

DST#: 2

ATTN: Ron Nelson

Test Start: 2011.01.18 @ 00:24:58

GENERAL INFORMATION:

Formation: **LKC H-1**

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

Time Tool Opened: 02:33:23

Time Test Ended: 06:27:52

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3562.00 ft (KB) To 3618.00 ft (KB) (TVD)**

Reference Elevations: **2148.00 ft (KB)**

Total Depth: **3618.00 ft (KB) (TVD)**

2140.00 ft (CF)

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

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

Serial #: 6625 **Inside**

Press@RunDepth: **33.84 psig @ 3564.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.01.18** End Date: **2011.01.18**

Last Calib.: **2011.01.18**

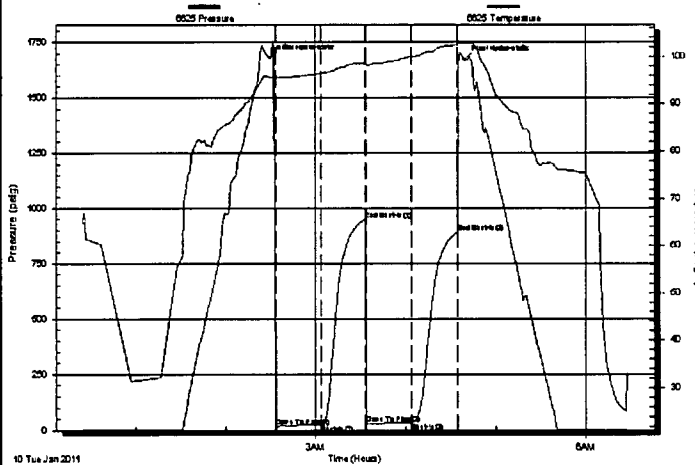
Start Time: **00:24:58** End Time: **06:27:52**

Time On Btm: **2011.01.18 @ 02:29:53**

Time Off Btm: **2011.01.18 @ 04:39:23**

TEST COMMENT: IFF-w k bl 1/4" to 1/2" bl
ISIP-no bl bk
FFP-w k bl 1/4"
FSIP-no bl bk

Pressure vs. Time



PRESSURE SUMMARY

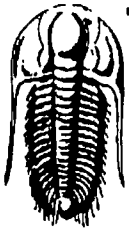
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.07	95.60	Initial Hydro-static
4	16.38	95.48	Open To Flow (1)
34	26.44	96.40	Shut-in(1)
64	948.05	98.59	End Shut-in(1)
64	27.57	98.29	Open To Flow (2)
94	33.84	99.94	Shut-in(2)
125	893.33	102.43	End Shut-in(2)
130	1672.24	102.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/show of oil	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P O Box 372
Hays Ks 67601-0372

13-14s-19w Ellis

Job Ticket: 41667

DST#: 2

ATTN: Ron Nelson

Test Start: 2011.01.18 @ 00:24:58

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 7.95 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: 2.00 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
10.00	Mud w/show of oil	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

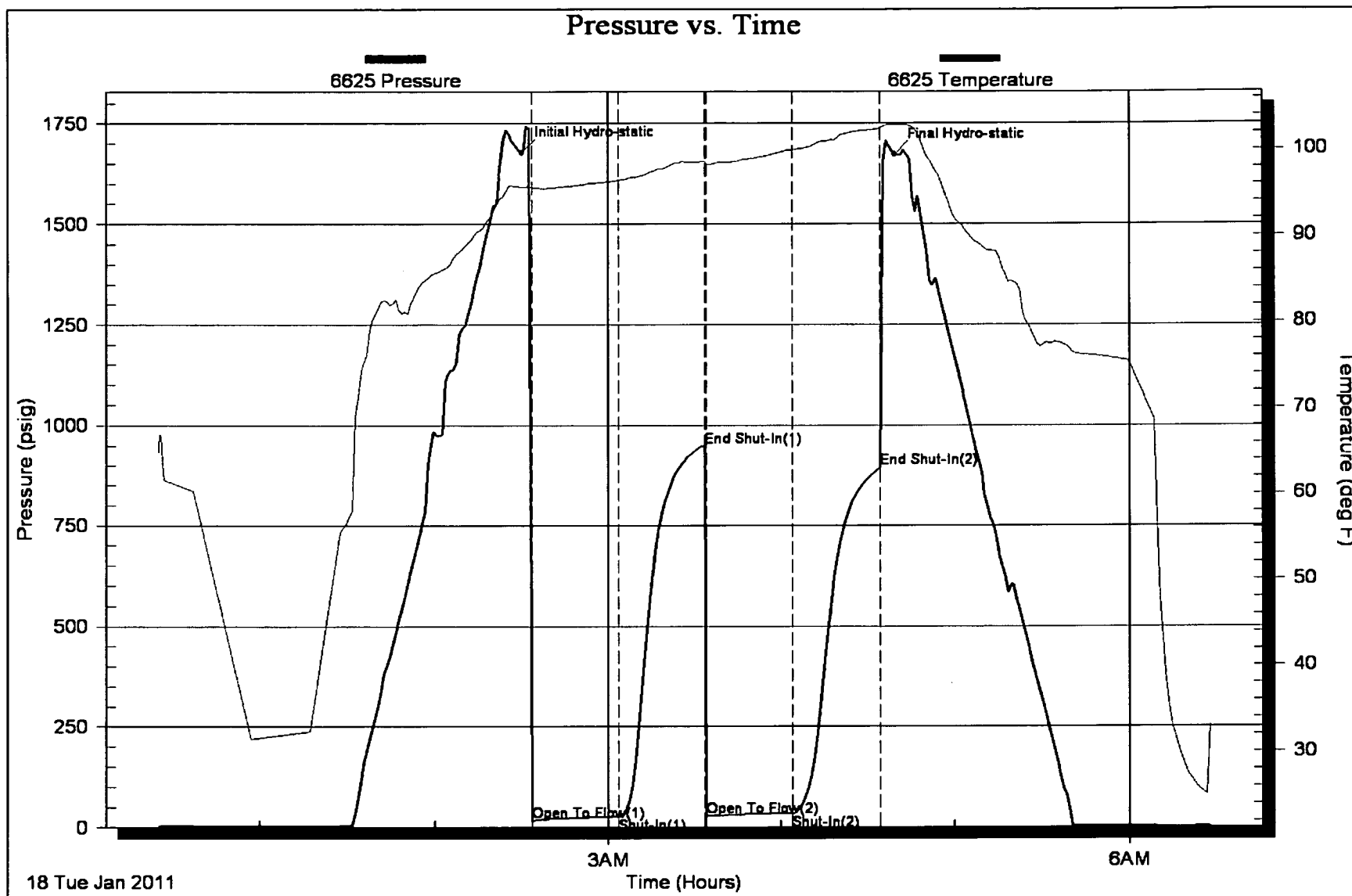
Num Gas Bombs: 0

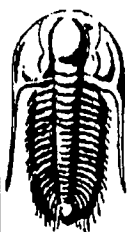
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P O Box 372
Hays Ks 67601-0372

13-14s-19w Ellis KS

Job Ticket: 41668

DST#: 3

ATTN: Ron Nelson

Test Start: 2011.01.19 @ 08:32:33

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 10:23:58

Time Test Ended: 15:12:27

Test Type: **Conventional Straddle**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3758.00 ft (KB) To 3785.00 ft (KB) (TVD)**

Total Depth: **3863.00 ft (KB) (TVD)**

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

Reference Elevations: **2148.00 ft (KB)**

2140.00 ft (CF)

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

Serial #: 6625

Inside

Press@RunDepth: **116.70 psig @ 3766.00 ft (KB)**

Start Date: **2011.01.19**

End Date:

2011.01.19

Capacity: **8000.00 psig**

Last Calib.: **2011.01.19**

Start Time: **08:32:33**

End Time:

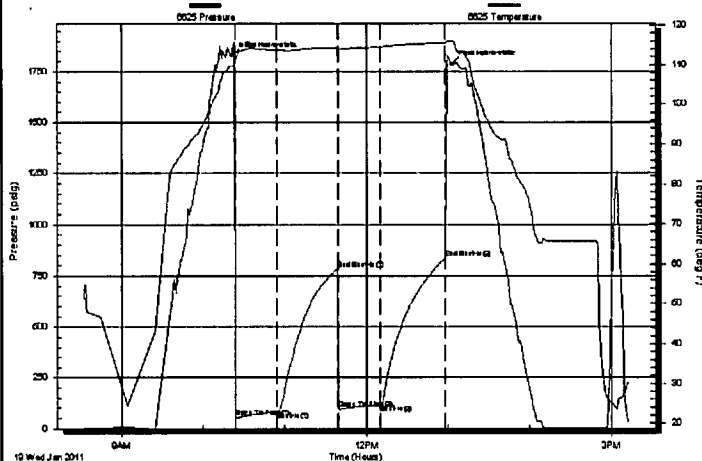
15:12:27

Time On Btm: **2011.01.19 @ 10:21:28**

Time Off Btm: **2011.01.19 @ 13:02:27**

TEST COMMENT: IFF-w k to strg in 5 min
ISIP-surface to 1/4"bl bk
FFP-w k to a gd bl 1"to 6"bl
FSIP-surface bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.82	109.59	Initial Hydro-static
3	54.22	111.13	Open To Flow (1)
33	82.97	113.79	Shut-in(1)
78	783.22	114.38	End Shut-in(1)
78	95.61	114.17	Open To Flow (2)
109	116.70	114.52	Shut-in(2)
157	835.36	115.54	End Shut-in(2)
161	1786.70	115.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MGO 20%G20%M60%O	0.99
170.00	CO	2.38
0.00	110'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P O Box 372
Hays Ks 67601-0372

13-14s-19w Ellis KS

Job Ticket: 41668

DST#: 3

ATTN: Ron Nelson

Test Start: 2011.01.19 @ 08:32:33

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.92 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 26 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MGO 20%G20%M60%O	0.989
170.00	CO	2.385
0.00	110'GIP	0.000

Total Length: 260.00 ft Total Volume: 3.374 bbl

Num Fluid Samples: 0

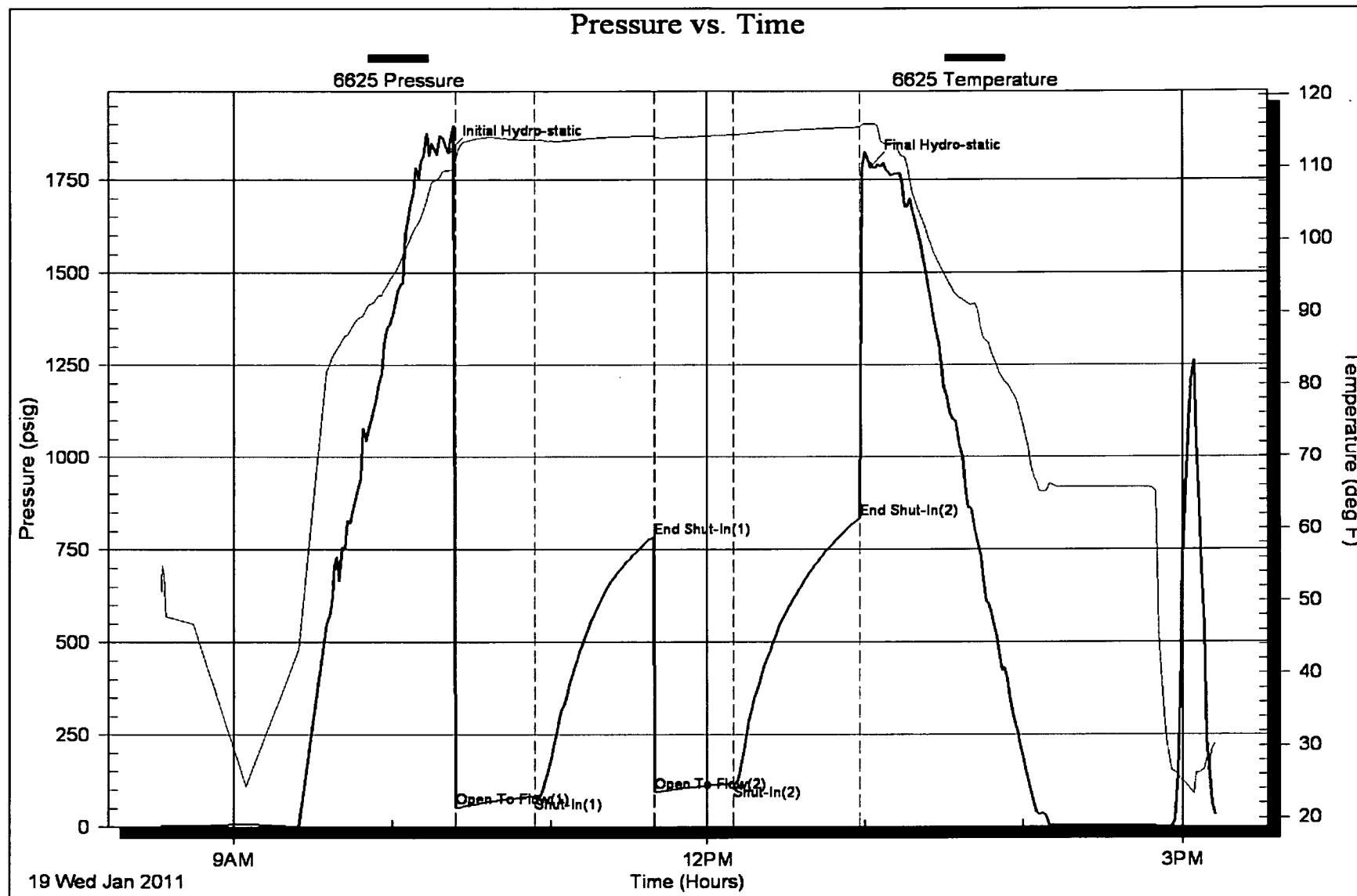
Num Gas Bombs: 0

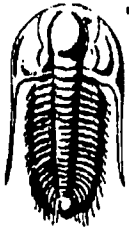
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P O Box 372
Hays Ks 67601-0372

13-14s-19w Ellis

Job Ticket: 41669

DST#: 4

ATTN: Ron Nelson

Test Start: 2011.01.19 @ 16:03:19

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 17:46:14

Time Test Ended: 23:41:43

Test Type: **Conventional Straddle**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3786.00 ft (KB) To 3800.00 ft (KB) (TVD)**

Total Depth: **3863.00 ft (KB) (TVD)**

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

Reference Elevations: **2148.00 ft (KB)**

2140.00 ft (CF)

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

Serial #: 6625

Inside

Press@RunDepth: **489.12 psig @ 3791.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.01.19**

End Date:

2011.01.19

Last Calib.: **2011.01.20**

Start Time: **16:03:19**

End Time:

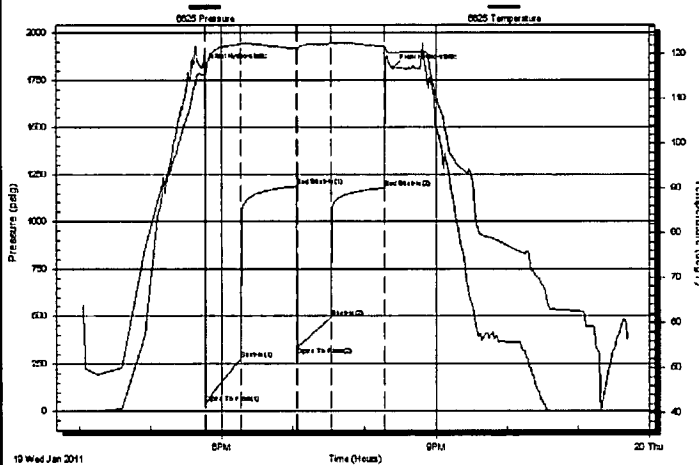
23:41:43

Time On Btm: **2011.01.19 @ 17:43:14**

Time Off Btm: **2011.01.19 @ 20:24:13**

TEST COMMENT: IFF-w k to strg in 3 min
ISIP-surface to 1/4"bl bk
FFP-w k to strg in 6 min
FSIP-surface bl bk

Pressure vs. Time



PRESSURE SUMMARY

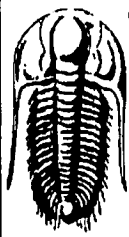
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1818.57	115.42	Initial Hydro-static
3	40.99	115.11	Open To Flow (1)
33	272.83	122.13	Shut-In(1)
80	1186.81	121.18	End Shut-In(1)
81	294.13	120.88	Open To Flow (2)
109	489.12	122.26	Shut-In(2)
154	1179.11	121.73	End Shut-In(2)
161	1814.14	120.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
760.00	Water	10.39
125.00	OCCMW 10%O20%M70%W	1.75
115.00	CO	1.61
0.00	200'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P O Box 372
Hays Ks 67601-0372

13-14s-19w Ellis

Job Ticket: 41669

DST#: 4

ATTN: Ron Nelson

Test Start: 2011.01.19 @ 16:03:19

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 17:46:14

Time Test Ended: 23:41:43

Test Type: Conventional Straddle

Tester: Ray Schwager

Unit No: 42

Interval: **3786.00 ft (KB) To 3800.00 ft (KB) (TVD)**

Reference Elevations: 2148.00 ft (KB)

Total Depth: 3863.00 ft (KB) (TVD)

2140.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374 Below (Straddle)

Press@RunDepth: psig @ 3831.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.19

End Date:

2011.01.19

Last Calib.:

2011.01.20

Start Time: 16:03:35

End Time:

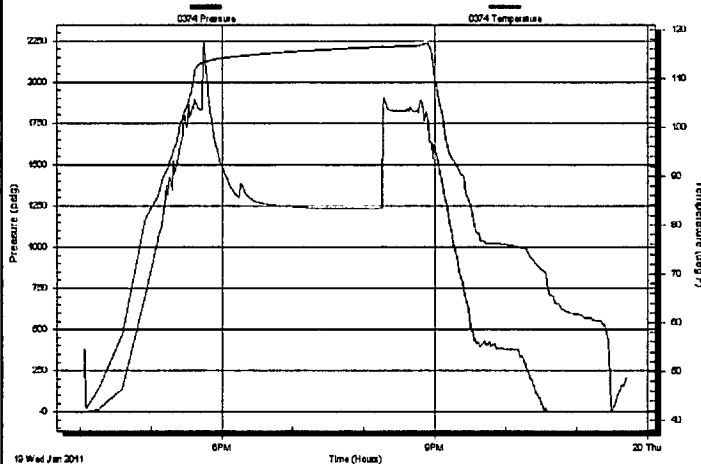
23:43:34

Time On Btm:

Time Off Btm:

TEST COMMENT: IFF-w k to strg in 3 min
ISIP-surface to 1/4"bl bk
FFP-w k to strg in 6 min
FSIP-surface bl bk

Pressure vs. Time



PRESSURE SUMMARY

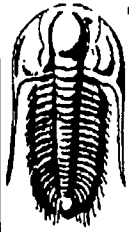
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
760.00	Water	10.39
125.00	OCCMW 10%O20%M70%W	1.75
115.00	CO	1.61
0.00	200'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

Johnson 1-13

P O Box 372
Hays Ks 67601-0372

13-14s-19w Ellis

Job Ticket: 41669

DST#: 4

ATTN: Ron Nelson

Test Start: 2011.01.19 @ 16:03:19

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.93 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 30 deg API
Water Salinity: 24000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
760.00	Water	10.388
125.00	OCMW 10%O20%M70%W	1.753
115.00	CO	1.613
0.00	200'GIP	0.000

Total Length: 1000.00 ft Total Volume: 13.754 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .38 @ 51F

