KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1072775

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:

- [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 #:

01/10/2012	01/15/2012	01/16/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-065-23796-00-00
Spot Description:
SE - NW - SE - NE Sec. 27 Twp. 9 S. R. 24 [ ] East [x] West
1790 Feet from [x] North / [ ] South Line of Section
690 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[x] NE [ ] NW [ ] SE [ ] SW
County: Graham
Lease Name: Donnie Well #: 2
Field Name: Kohart
Producing Formation: LKC
Elevation: Ground: 2488 Kelly Bushing: 2496
Total Depth: 4110 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 221 Feet
Multiple Stage Cementing Collar Used? [x] Yes [ ] No
If yes, show depth set: 2132 Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 2132 w/ 175 sx cmt.

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

Chloride content: 15000 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:
- [ ] Wireline Log Received
- [x] Geologist Report Received
- [ ] UIC Distribution

ALT [ ] I [x] II [ ] III Approved by: Deanna Garrisor Date: 03/15/2012

Side Two

1072775

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Donnie Well #: 2

Sec. 27 Twp. 9 S. R. 24 ☐ East ☑ West County: Graham

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:

Micro
Dual Induction
Compensated Density/Neutron

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

Name	Top	Datum
Top Anhydrite	2145'	+348
Base Anhydrite	2178'	+315
Topeka	3580'	-1087
Heebner	3795'	-1302
Tornoto	3819'	-1326
LKC	3836'	-1343
BKC	4060'	-1567

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	8.0625	23	221.03	Commone	150	2% Gel and 3% CC
Production String	7.875	5.5	14	4109.02	EA/2	135	

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	4030' to 4033'	250 gallons 15% Mud Acid	4030' to 4033
4	4010' to 4015'	500 gallons 15% Mud Acid	4010' to 4015' & 3990' to
4	3990' to 3993'		

TUBING RECORD: Size: 2.375 Set At: 4053.03 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 02/14/2012

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	15	0	25		

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

ITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

.03-2025
324-1041

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

No. 565

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-10-12	27	9	24	Graham	KS		5:15 PM

Lease Donnie | Well No. 2 | Location Wakeeny, KS - N to Redline Rd, 6W to 200 Rd, 1N, W+S to Rig

Contractor Discovery #1 | 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 12¼" | T.D. 221'

Csg. 8 5/8" | Depth 221'

Charge To Downing - Nelson

Tbg. Size | Depth

Street

Tool | Depth

City State

Cement Left in Csg. 15' | Shoe Joint 15'

The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line | Displace 13 BLS

Cement Amount Ordered 150 sx Common 3%CC 2%Gel

EQUIPMENT

Pumptrk 1 No. | Cementer Helper Cisco

Bulktrk 14 No. | Driver Driver Mike

~~Bulktrk~~ P.U. No. | Driver Driver Rick

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Common	150
Poz. Mix	
Gel.	3
Calcium	5
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	158
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	35
Tax	
Discount	
Total Charge	

X Signature Matt Mayfield

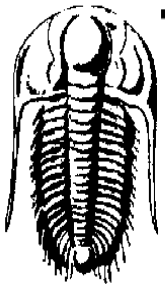
JOB LOG

SWIFT Services, Inc.

DATE 7/6/2012 PAGE NO.

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Downing & Nelson		Donnie # 2	5½ Longstring	21541

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0800							ON LOCATION
	1045							START PIPE 5½ - 14#
								RTD @ 4110 SET @ 4109
								SHOE JT 21.97
								CENTRALIZERS 1, 3, 5, 7, 9, 11, 13, 47
								CEMENT BASKETS 1, 48
								PORT COLLAR Top of #48 @ 2132
	1225							DROP BALL CIRCULATE.
	1241	6	12		✓		300	Pump 500 gal MUD FLUSH
	1243	6	20		✓		300	Pump 20 Bbl KCL FLUSH
	1247		7.5					PLUG RH - MH (30 sx - 20 sx)
	1252	4	32½		✓			MIX 135 sx EA2
	1304							WASH OUT PUMPING LINES
	1306	6			✓			RELEASE PLUG START DISPLACEMENT
	1323	Ø	100		✓		1500	PLUG DOWN PSI up LATCH PLUG IN
	1325							RELEASE PSI - DRY
	1327							WASH TRUCK
	1350							JOB COMPLETE
								THANKS # 110
								JASON JEFF ROB



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Donnie #2

27-9s-24w Graham,KS

Start Date: 2012.01.14 @ 11:44:18
End Date: 2012.01.14 @ 17:26:18
Job Ticket #: 46249 DST #: 1

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

Printed: 2012.01.18 @ 16:54:51

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

27-9s-24w Graham,KS

Donnie #2

Job Ticket: 46249 **DST#: 1**

Test Start: 2012.01.14 @ 11:44:18

GENERAL INFORMATION:

Formation: **LKC C-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:23:18
Time Test Ended: 17:26:18

Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 44

Interval: 3859.00 ft (KB) To 3900.00 ft (KB) (TVD)
Total Depth: 3900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

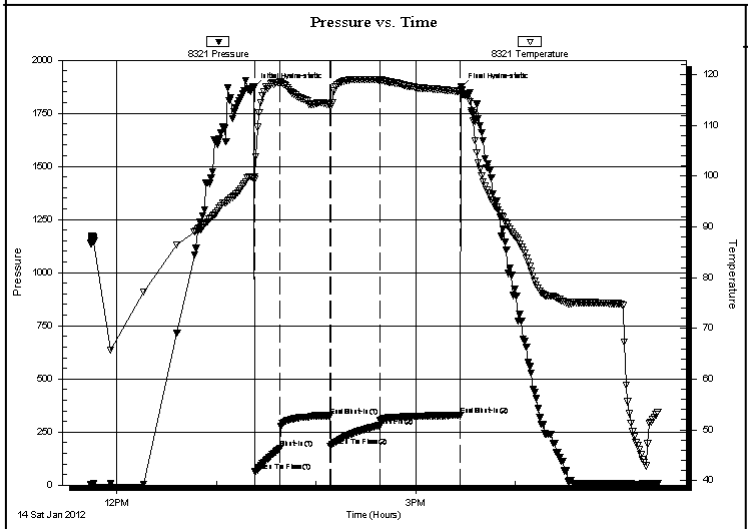
Reference Elevations: 2495.00 ft (KB)
2487.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8321 **Inside**

Press@RunDepth: 279.85 psig @ 3864.00 ft (KB)
Start Date: 2012.01.14 End Date: 2012.01.14
Start Time: 11:44:19 End Time: 17:26:18

Capacity: 8000.00 psig
Last Calib.: 2012.01.14
Time On Btm: 2012.01.14 @ 13:22:48
Time Off Btm: 2012.01.14 @ 15:27:18

TEST COMMENT: IFP-Strong blow BOB in 3 1/2 min
ISI-Weak surface blow back
FFP-Good blow BOB in 7 min
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1872.62	99.79	Initial Hydro-static
1	66.02	99.43	Open To Flow (1)
16	174.53	118.55	Shut-In(1)
46	326.25	114.08	End Shut-In(1)
46	182.95	113.72	Open To Flow (2)
76	279.85	118.98	Shut-In(2)
124	327.46	116.74	End Shut-In(2)
125	1872.57	116.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
504.00	MW 10%M90%W	6.80
63.00	WM 30%W70%M	0.88
0.00	63-GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

27-9s-24w Graham,KS

Donnie #2

Job Ticket: 46249 **DST#: 1**

Test Start: 2012.01.14 @ 11:44:18

GENERAL INFORMATION:

Formation: **LKC C-D**
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Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 44

Interval: 3859.00 ft (KB) To 3900.00 ft (KB) (TVD)
Total Depth: 3900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

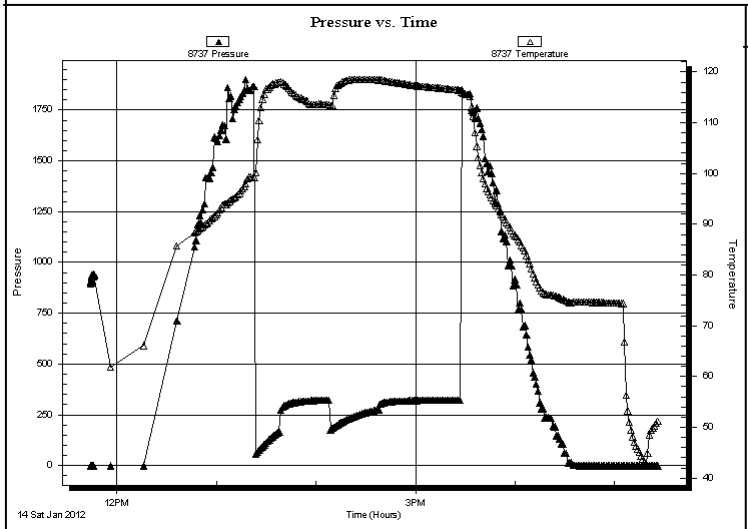
Reference Elevations: 2495.00 ft (KB)
2487.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8737 **Outside**

Press@RunDepth: psig @ 3864.00 ft (KB)
Start Date: 2012.01.14 End Date: 2012.01.14
Start Time: 11:44:19 End Time: 17:26:18

Capacity: 8000.00 psig
Last Calib.: 2012.01.14
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Strong blow BOB in 3 1/2 min
ISI-Weak surface blow back
FFP-Good blow BOB in 7 min
FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
504.00	MW 10%M90%W	6.80
63.00	WM 30%W70%M	0.88
0.00	63-GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

27-9s-24w Graham,KS

Donnie #2

Job Ticket: 46249 **DST#: 1**

Test Start: 2012.01.14 @ 11:44:18

Tool Information

Drill Pipe:	Length:	3841.00 ft	Diameter:	3.80 inches	Volume:	53.88 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:		20000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		69000.00 lb
					Total Volume:	54.03 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		32.00 ft					String Weight:	Initial	57000.00 lb
Depth to Top Packer:		3859.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		41.00 ft							
Tool Length:		61.00 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			3840.00		
Shut In Tool	5.00			3845.00		
Hydraulic tool	5.00			3850.00		
Packer	4.00			3854.00	20.00	Bottom Of Top Packer
Packer	5.00			3859.00		
Stubb	1.00			3860.00		
Perforations	4.00			3864.00		
Recorder	0.00	8321	Inside	3864.00		
Recorder	0.00	8737	Outside	3864.00		
Perforations	33.00			3897.00		
Bullnose	3.00			3900.00	41.00	Bottom Packers & Anchor
Total Tool Length:	**61.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

27-9s-24w Graham,KS

Donnie #2

Job Ticket: 46249 **DST#: 1**

Test Start: 2012.01.14 @ 11:44:18

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:	65.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	inches				

Recovery Information

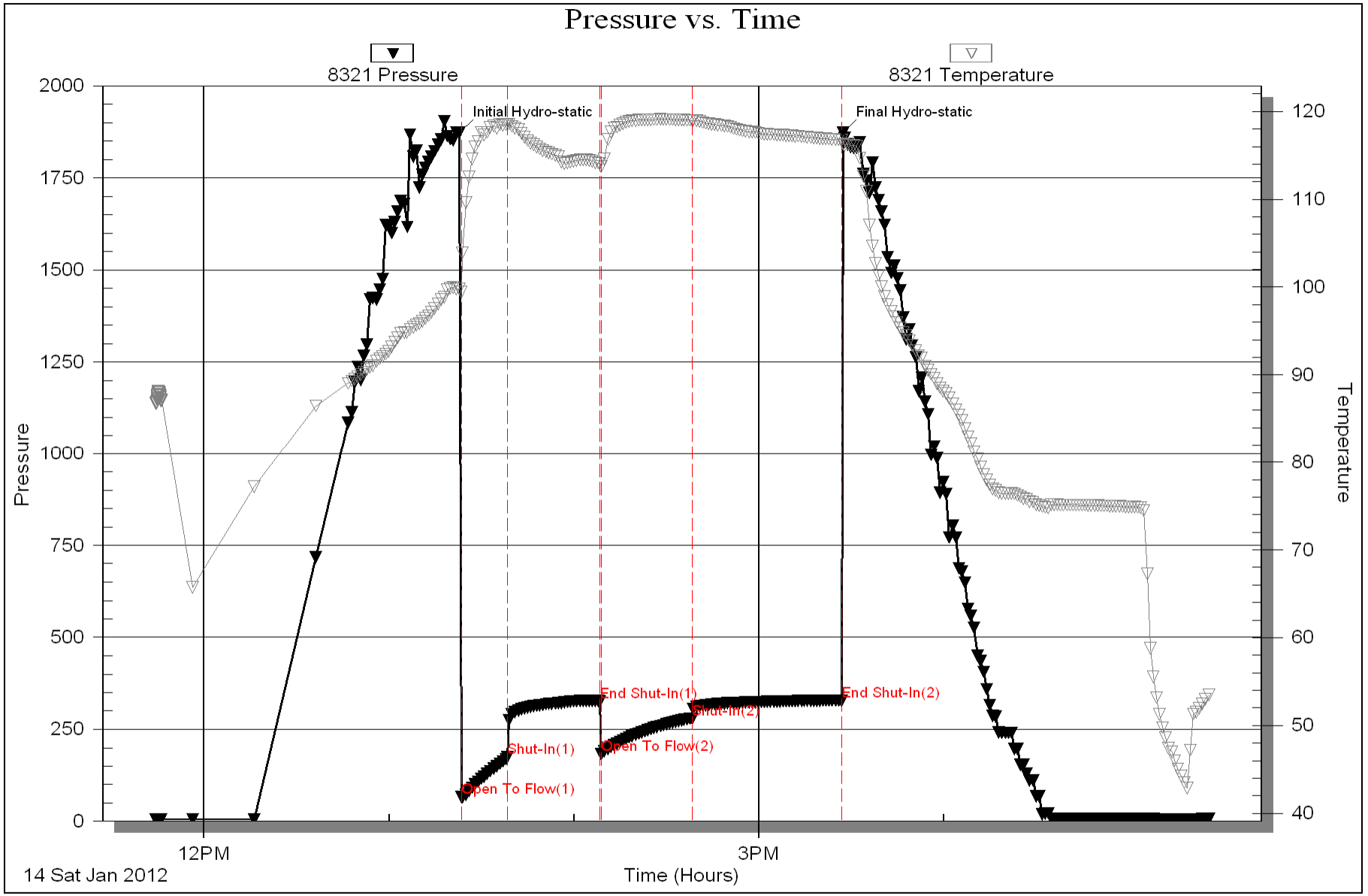
Recovery Table

Length ft	Description	Volume bbl
504.00	MW 10%M90%W	6.797
63.00	WM 30%W70%M	0.884
0.00	63-GIP	0.000

Total Length: 567.00 ft Total Volume: 7.681 bbl

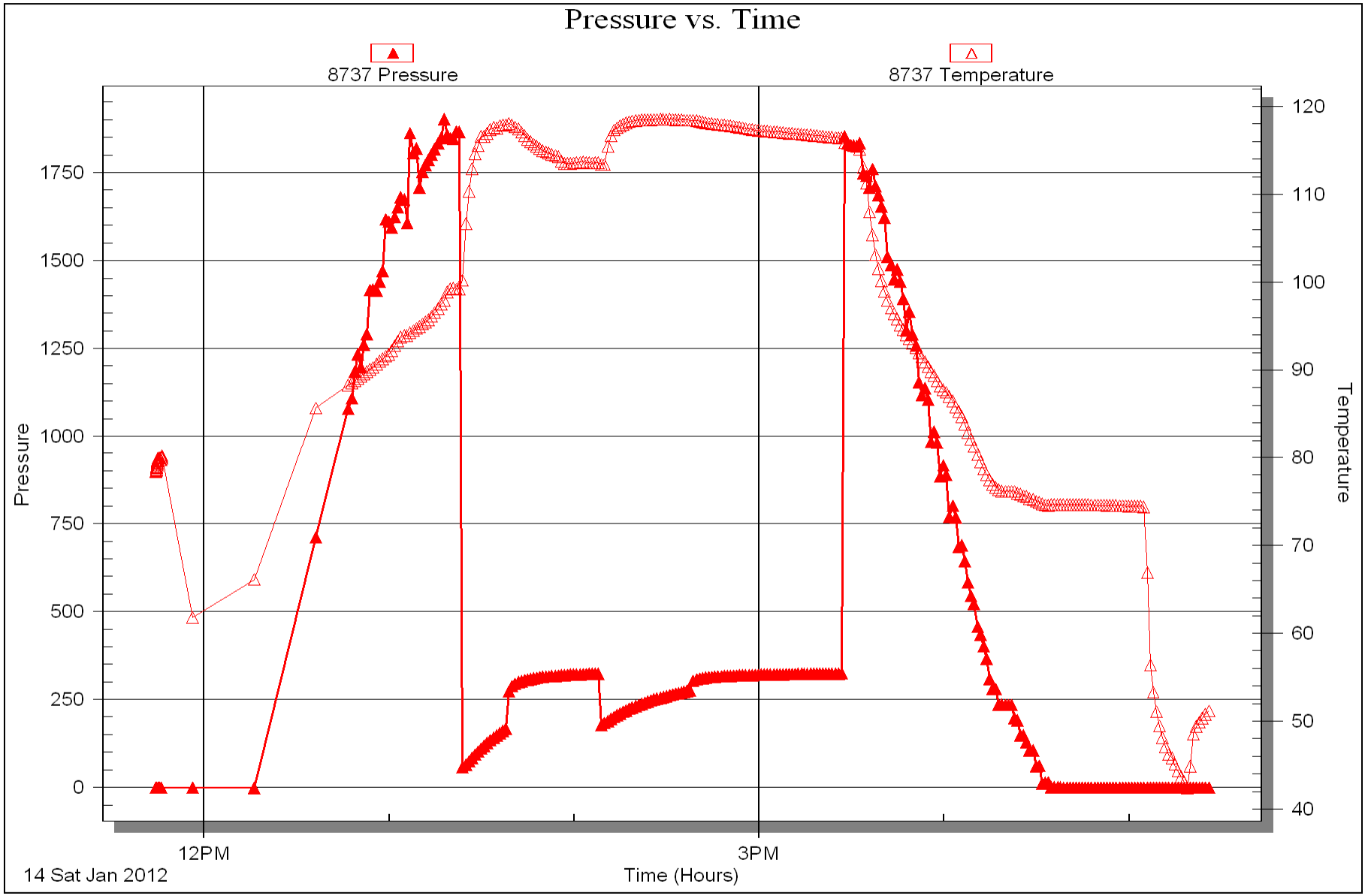
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8321 **Inside** Dow ning-Nelson Oil Co Inc Donnie #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 46249 Printed: 2012.01.18 @ 16:54:53

Serial #: 8737 **Outside** Dow ning-Nelson Oil Co Inc Donnie #2 DST Test Number: 1



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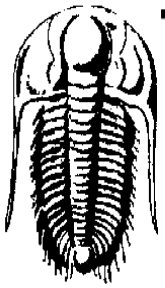


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Donnie #2

27-9s-24w Graham,KS

Start Date: 2012.01.15 @ 06:06:18
End Date: 2012.01.15 @ 12:46:48
Job Ticket #: 46250 DST #: 2

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

Printed: 2012.01.18 @ 16:54:16

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

27-9s-24w Graham,KS

Donnie #2

Job Ticket: 46250 **DST#: 2**

Test Start: 2012.01.15 @ 06:06:18

GENERAL INFORMATION:

Formation: **LKC I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:52:18
Time Test Ended: 12:46:48

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 44

Interval: 3983.00 ft (KB) To 4025.00 ft (KB) (TVD)
Total Depth: 4025.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

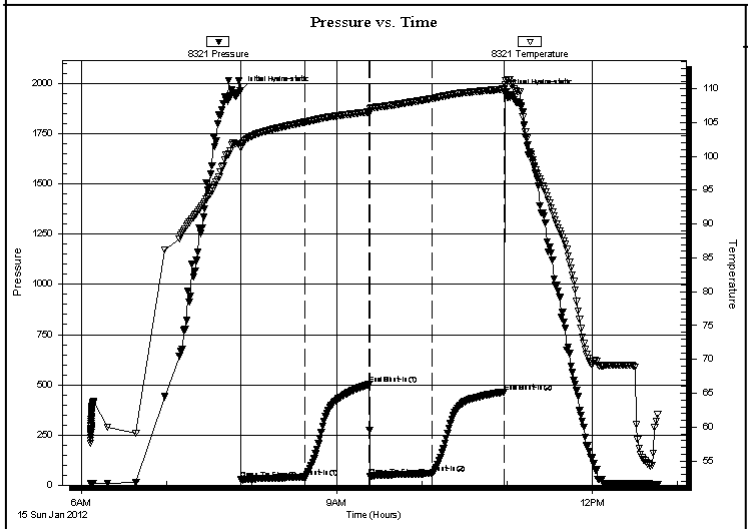
Reference Elevations: 2495.00 ft (KB)
2487.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8321 **Inside**

Press@RunDepth: 57.98 psig @ 3989.00 ft (KB)
Start Date: 2012.01.15 End Date: 2012.01.15
Start Time: 06:06:19 End Time: 12:45:48

Capacity: 8000.00 psig
Last Calib.: 2012.01.15
Time On Btm: 2012.01.15 @ 07:51:48
Time Off Btm: 2012.01.15 @ 10:58:18

TEST COMMENT: IFP-Good blow BOB in 14 min
ISI-Dead no blow back
FFP-Good blow BOB in 20 min
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.43	101.89	Initial Hydro-static
1	27.43	101.23	Open To Flow (1)
46	41.33	105.07	Shut-In(1)
91	501.43	106.58	End Shut-In(1)
92	42.85	106.99	Open To Flow (2)
135	57.98	108.55	Shut-In(2)
186	462.92	109.96	End Shut-In(2)
187	1948.95	110.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
48.00	HOCM 40%O60%M	0.40
63.00	HGOCM 20%G40%O40%M	0.88
0.00	519-GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

27-9s-24w Graham,KS

Donnie #2

Job Ticket: 46250 **DST#: 2**

Test Start: 2012.01.15 @ 06:06:18

GENERAL INFORMATION:

Formation: **LKC I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:52:18
Time Test Ended: 12:46:48

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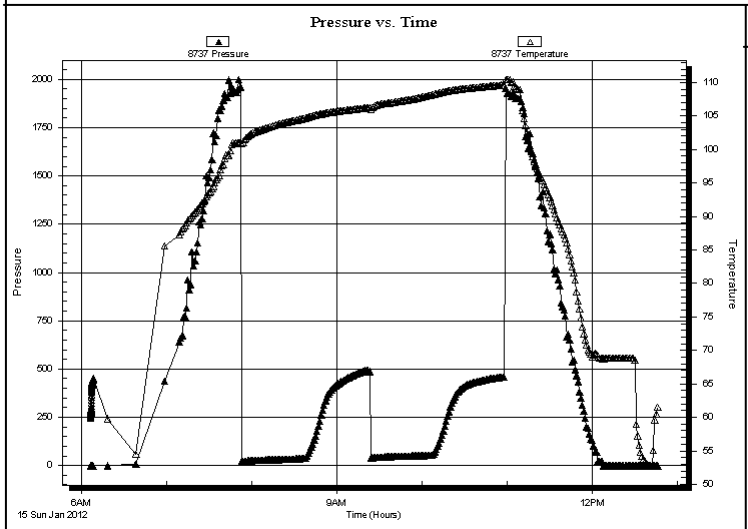
Reference Elevations: 2495.00 ft (KB)
2487.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8737 **Outside**

Press@RunDepth: psig @ 3989.00 ft (KB)
Start Date: 2012.01.15 End Date: 2012.01.15
Start Time: 06:06:19 End Time: 12:45:48

Capacity: 8000.00 psig
Last Calib.: 2012.01.15
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Good blow BOB in 14 min
ISI-Dead no blow back
FFP-Good blow BOB in 20 min
FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
48.00	HOCM 40%O60%M	0.40
63.00	HGOCM 20%G40%O40%M	0.88
0.00	519-GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

27-9s-24w Graham,KS

Donnie #2

Job Ticket: 46250 **DST#: 2**

Test Start: 2012.01.15 @ 06:06:18

Tool Information

Drill Pipe:	Length:	3965.00 ft	Diameter:	3.80 inches	Volume:	55.62 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:		20000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		69000.00 lb
					Total Volume:	55.77 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		32.00 ft					String Weight:	Initial	58000.00 lb
Depth to Top Packer:		3983.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		42.00 ft							
Tool Length:		62.00 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			3964.00		
Shut In Tool	5.00			3969.00		
Hydraulic tool	5.00			3974.00		
Packer	4.00			3978.00	20.00	Bottom Of Top Packer
Packer	5.00			3983.00		
Stubb	1.00			3984.00		
Perforations	5.00			3989.00		
Recorder	0.00	8321	Inside	3989.00		
Recorder	0.00	8737	Outside	3989.00		
Perforations	33.00			4022.00		
Bullnose	3.00			4025.00	42.00	Bottom Packers & Anchor
Total Tool Length:	**62.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

27-9s-24w Graham,KS

Donnie #2

Job Ticket: 46250 **DST#: 2**

Test Start: 2012.01.15 @ 06:06:18

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 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
48.00	HOCM 40%O60%M	0.400
63.00	HGOCM 20%G40%O40%M	0.884
0.00	519-GIP	0.000

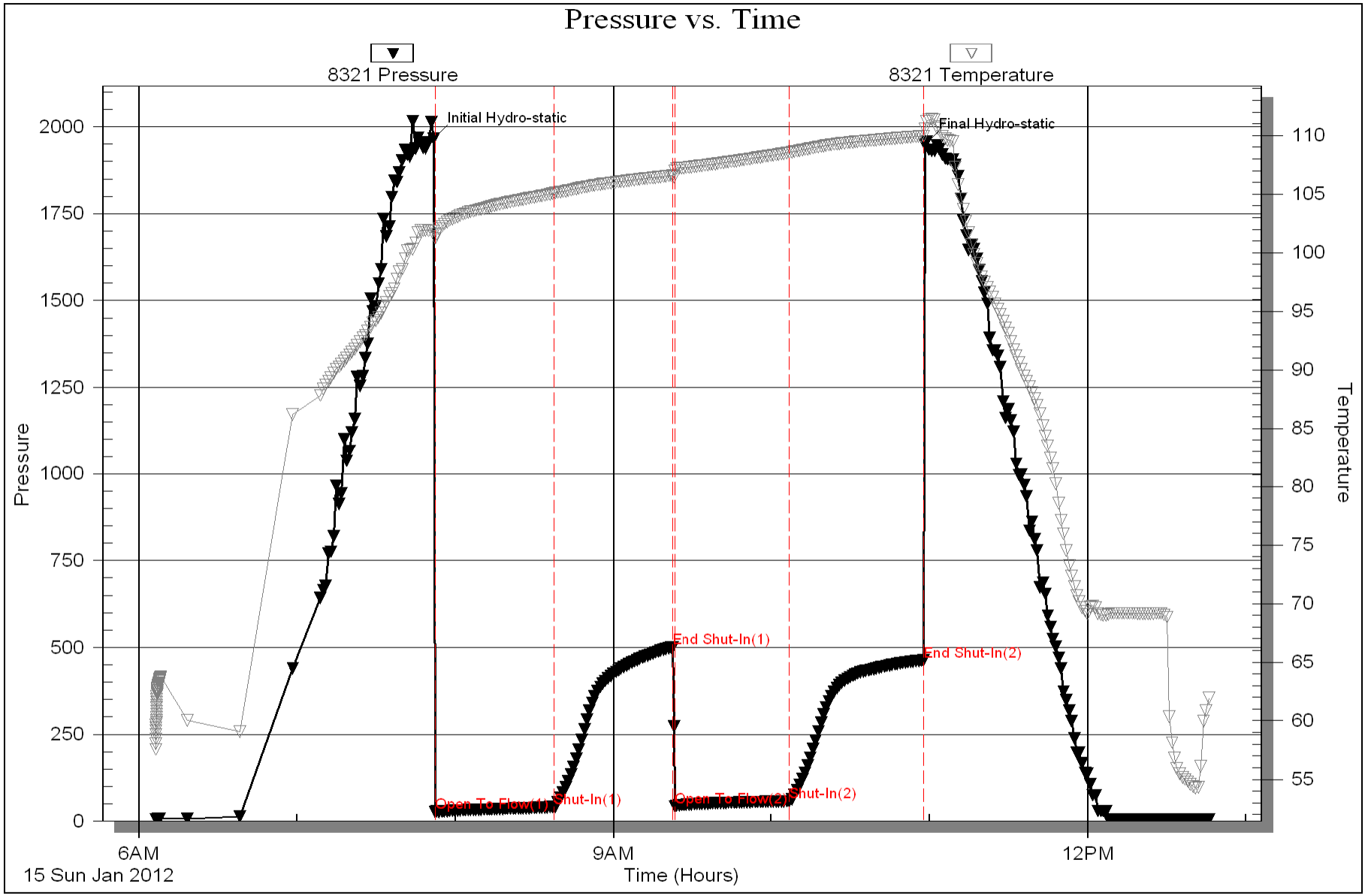
Total Length: 111.00 ft Total Volume: 1.284 bbl

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

Laboratory Name: Laboratory Location:

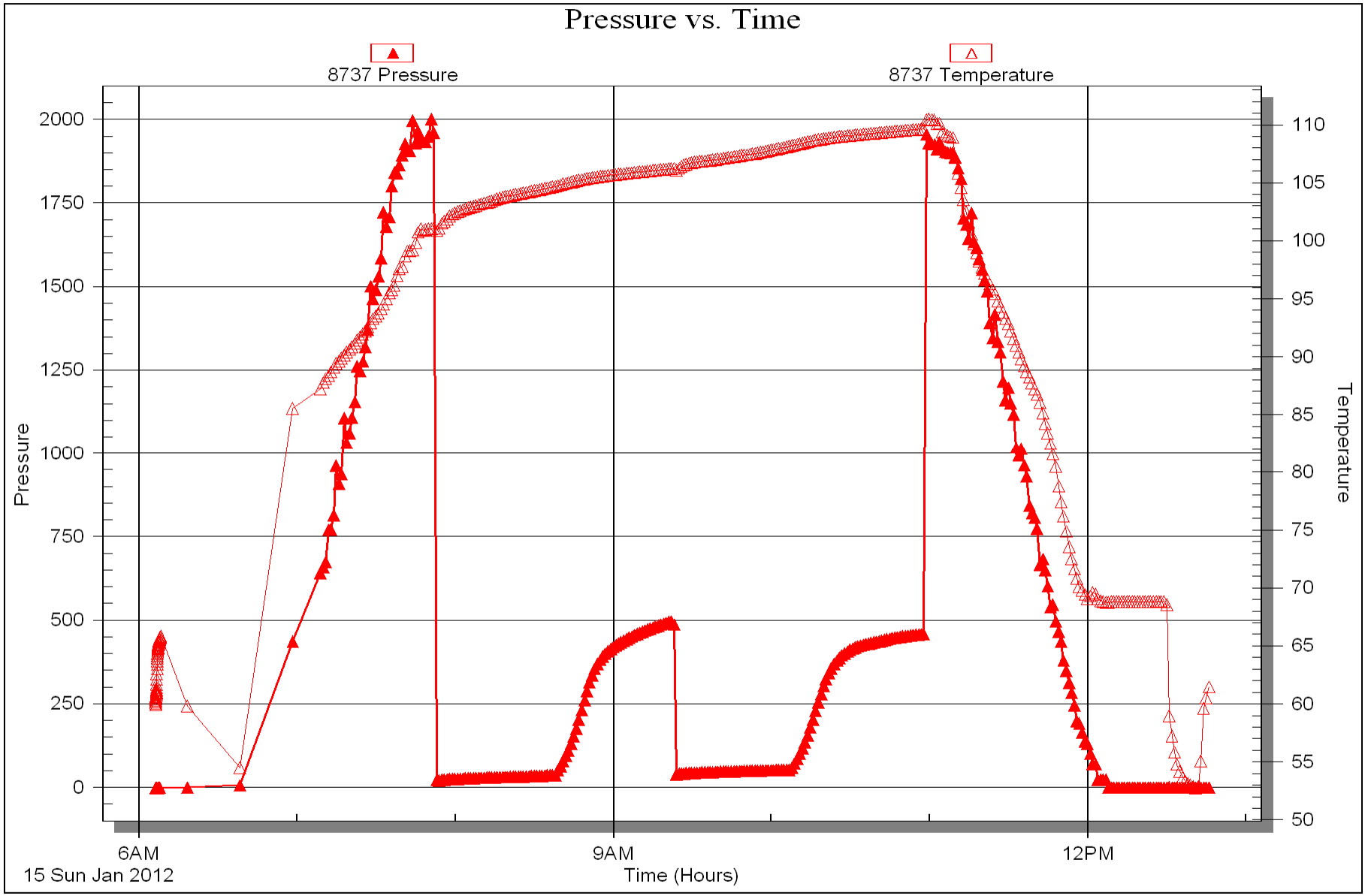
Recovery Comments:

Serial #: 8321 **Inside** Dow ning-Nelson Oil Co Inc Donnie #2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 46250 Printed: 2012.01.18 @ 16:54:18

Serial #: 8737 **Outside** Dow ning-Nelson Oil Co Inc Donnie #2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 46250 Printed: 2012.01.18 @ 16:54:19

TRILOBITE TESTING INC.
P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 17 2012
BY:

Test Ticket

NO. 46249

4/10

Well Name & No. Dannie #2 Test No. 1 Date 1-14-12
Company Downing-Nelson Oil Co Inc Elevation 2495 KB 2487 GL
Address Po Box 1019 Hays KS 67601
Co. Rep / Geo. Marc Downing Rig Discovery #1
Location: Sec. 27 Twp. 9s Rge. 24w Co. Graham State KS

Interval Tested 3859-3900 Zone Tested LKC-C-D
Anchor Length 41 Drill Pipe Run 3841 Mud Wt. 8.6
Top Packer Depth 3854 Drill Collars Run 30 Vis 65
Bottom Packer Depth 3859 Wt. Pipe Run 0 WL 7.2
Total Depth 3900 Chlorides 800 ppm System LCM 2½

Blow Description IFP-Strong Blow BOB IN 3½ min
ISI-Weak surface Blow Back
FFP-Good Blow BOB IN 7 min
FSI-Dead No Blow Back

Rec 504	Feet of MW	%gas	%oil	90 %water	10 %mud
Rec 63	Feet of WM	%gas	%oil	30 %water	70 %mud
Rec	Feet of 63-GIP	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 567 BHT 117 Gravity API RW .137 @ 47.6 °F Chlorides 90,000 ppm

(A) Initial Hydrostatic 1873	☒ Test 1125	T-On Location 10:28
(B) First Initial Flow 66	☐ Jars	T-Started 11:44
(C) First Final Flow 175	☐ Safety Joint	T-Open 13:23
(D) Initial Shut-In 32	☐ Circ Sub	T-Pulled 15:23
(E) Second Initial Flow 183	☐ Hourly Standby	T-Out 17:20
(F) Second Final Flow 280	☒ Mileage 112 RT 156.80	Comments
(G) Final Shut-In 327	☐ Sampler	
(H) Final Hydrostatic 1873	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 15	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total Ø
Final Flow 30	☐ Day Standby	Total 1281.80
Final Shut-In 45	☐ Accessibility	MP/DST Disc't
	Sub Total 1281.80	

Approved By Our Representative Jeff Brown

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.

P.O. Box 1733 • Hays, Kansas 67601

4/10

RECEIVED
JAN 18 2012
BY:

Test Ticket NO. 46250

Well Name & No. Donnie #2 Test No. 2 Date 1-15-12

Company Downing - Nelson Oil Co Inc Elevation 2495 KB 2487 GL

Address PO Box 1019 Hays KS 67601

Co. Rep / Geo. Marc Downing Rig Discovery #1

Location: Sec. 27 Twp. 9S Rge. 24W Co. Graham State KS

Interval Tested 3983-4025 Zone Tested LKC-I-J

Anchor Length 42 Drill Pipe Run 3965 Mud Wt. 9.0

Top Packer Depth 3978 Drill Collars Run 30 Vis 60

Bottom Packer Depth 3983 Wt. Pipe Run 0 WL 8.0

Total Depth 4025 Chlorides 1500 ppm System LCM 1/2

Blow Description IF-Good Blow BOB IN 14 min
ISI-Dead No Blow Back
FF-Good Blow BOB IN 20 min
FSI-Dead No Blow Back

Rec 48	Feet of 40CM	%gas	40 %oil	%water	60 %mud
Rec 63	Feet of 460CM	20 %gas	40 %oil	%water	40 %mud
Rec	Feet of 519·60IP	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 111 BHT 110 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic	1960	☒ Test 1225	T-On Location 5:27
(B) First Initial Flow	27	☐ Jars	T-Started 6:06
(C) First Final Flow	41	☐ Safety Joint	T-Open 7:52
(D) Initial Shut-In	501	☐ Circ Sub	T-Pulled 10:57
(E) Second Initial Flow	43	☐ Hourly Standby	T-Out 12:40
(F) Second Final Flow	58	☒ Mileage 112RT 156.80	Comments
(G) Final Shut-In	463	☐ Sampler	
(H) Final Hydrostatic	1949	☐ Straddle	☐ Ruined Shale Packer
Initial Open	45	☐ Shale Packer	☐ Ruined Packer
Initial Shut-In	45	☐ Extra Packer	☐ Extra Copies
Final Flow	45	☐ Extra Recorder	Sub Total 0
Final Shut-In	45	☐ Day Standby	Total 1381.80
		☐ Accessibility	MP/DST Disc't
		Sub Total 1381.80	

Approved By ____ Our Representative Jeff Brown

Downing-Nelson Oil Co., Inc.

Donnie # Z-27

Wildcat

1790' FNL & 690' FEL

Z7 9s 24w

Graham

Kansas

DNOCI

Discovery Drilling, Rig #1

1-10-12 1-15-12

8 5/4" @ 221' 5½" @ 4106'

4110'

4106'

9s 24w

27

LKC

2493

2485

KB

3900 TD

3500 TD

3900 TD

3500

Marc Downing

Superior

CNL/CDL

DIL

MEL

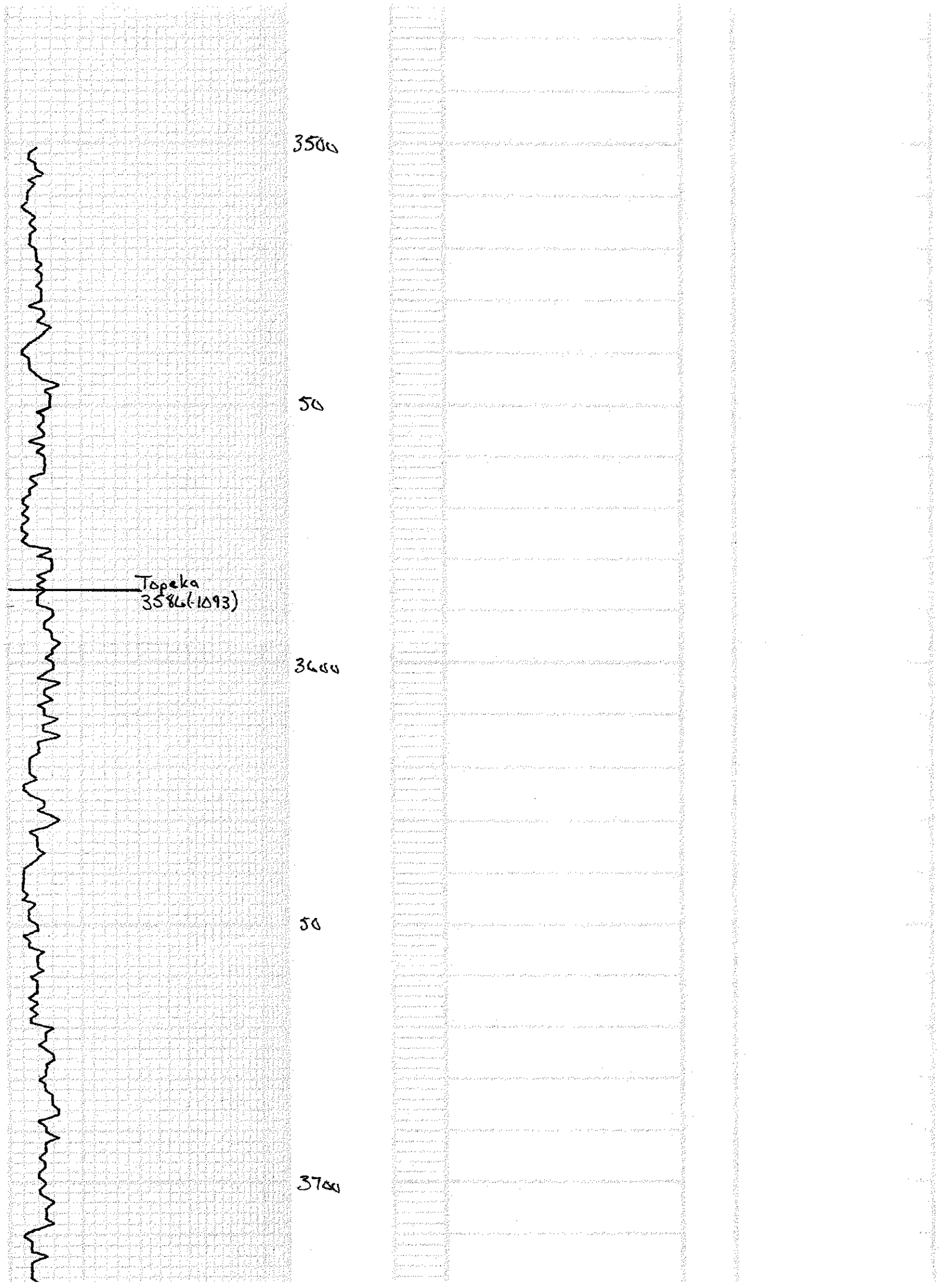
Top Anhydrite	2147	2145	+348	-4
Base Anhydrite	2183	2178	+315	-4
Topeka	3586	3580	-1087	FL
HEEBNER	3801	3795	-1302	FL
Toronto	3824	3819	-1326	-1
LKC	3841	3836	-1343	-1
BKC	4068	4060	-1567	-1

DNOCI

Donnie #1-27 335' FNL & 335' FEL Sec. 27-9s-24w

WELL STATUS

Perforate "D" & "H" before abandonment.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Topeka
3586(-1093)
3600
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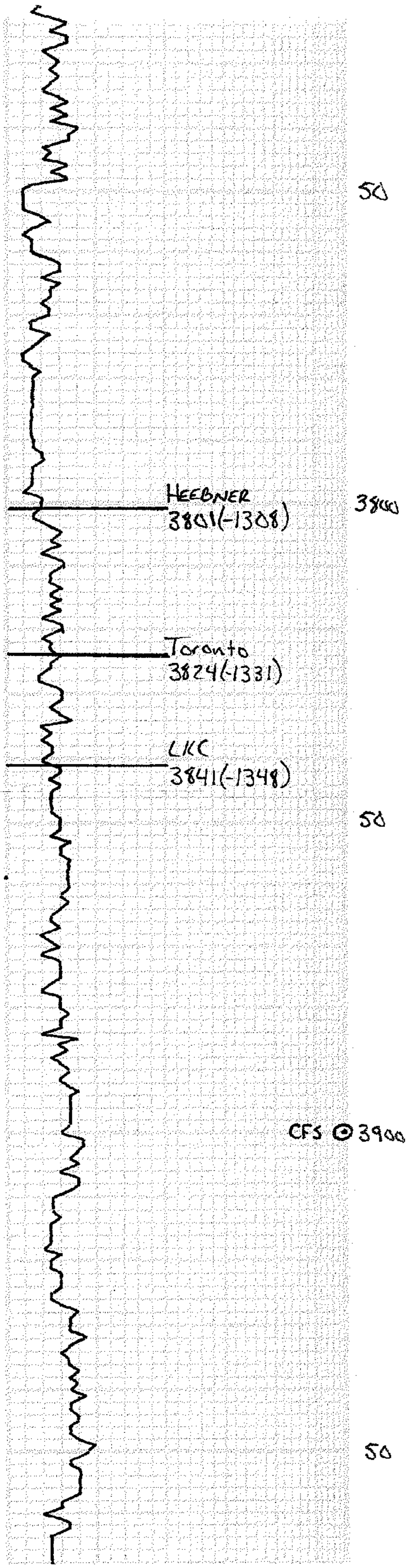
3700



DST #1

Sh: Black Carb

LS: tam, md xln, foss, dns

Sh: lt gry, gummy. Trng red w/ depth

LS: wht, fn-md xln, foss, suc in prt. Fr intxln ø, sub xln in prt, NS.

Sh: gry

LS: wht, md xln. ool w/ foss. scat Fr intxln ø w/ sml vugs. Trng dns w/ No visø, All NS.

Sh: gry

LS: wht, md crs xln, foss, dolom. Fr int foss + sml vug ø. Fr lt brn sat stn w/ sptd SFO, Fr Od. Fr Amt wht-gry foss cht a.

LS: wht, foss, dolom. Fr-gd int xln ø w/ gd vug ø. Fr-gd sat stn, Fr-gd sptd SFO, Fr Od. Rxmd xln.

LS: wht-gry, fn-vfn xln, few sml foss. No visø, NS.

Sh: Black Carb

LS: wht, fn-md xln, ool. Fr-gd int ool ø w/ Fr brn stn, sptd SFO. Abnt chlky barren ox. Strong Od, wht shp chta in base.

LS: wht, fn-vfn xln, few sml foss. Mostly dns w/ prø, NS.

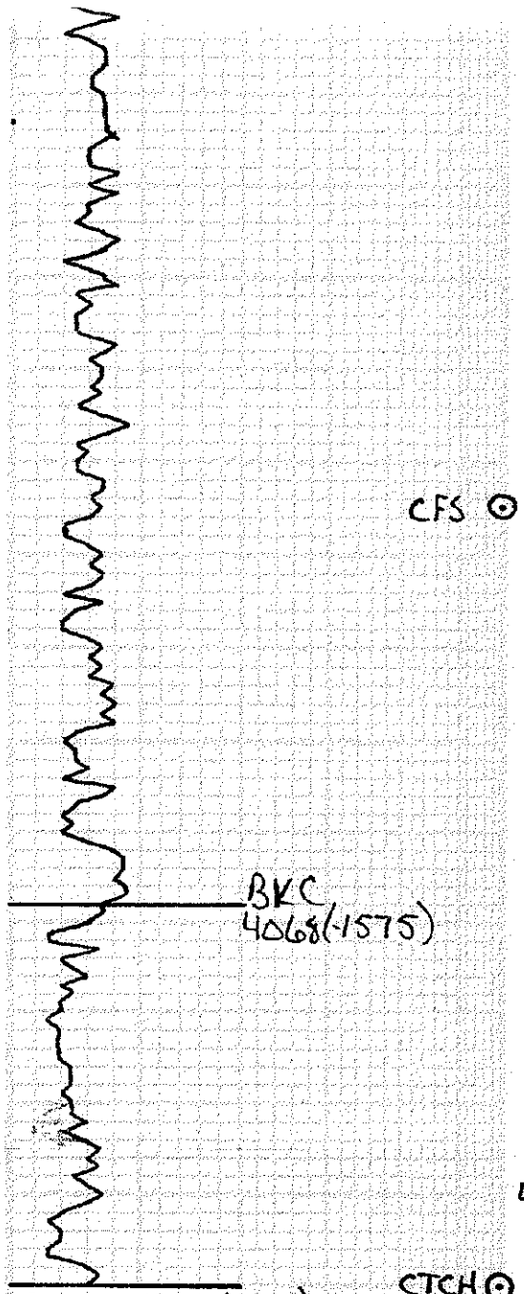
LS: wht, Fn-vFn xln. All v dns w/ No app ø. Trng lt gry in base. All NS.

Sh: Black Carb

Sh: gry

Vis: 65 Wt: 8.6

DST #1
3859 - 3900
15-30-30-45
I.F.- BOB 3½ min/Surf SIB
F.F.- BOB 7 min
IFP: 66-175
FFP: 193-290
SIP: 326-327
HP: 1873-1873
Rec:
63' GIP
504' MW 90% w
63' WM 30% w
BHT: 117° Chlor: 90K



DST #2

LS: wht-tan, md xln, foss. Fr int foss, slty tite, few sml vugs. Scat lt brn stn + sat ul spttd SFO, 4-5 rx ul dead blk stn, lt-fr Od. Rx tang tite ul prsx.

Sh: grj

LS: tan wht, md xln, foss, dolom in prt. fr-gd intxln, friable. Fr-gd lt brn sat ul fr spttd SFO. Fr-gd Od, free oil on cup.

Sh: lt grj, gummy

LS: wht, md xln, dolom ul few foss & oal. Fr intxln ul lt brn stn, spttd SFO, lt-fr Od.

Sh: grj-drk grj

LS: tan-wht, md-crs xln, tot foss. gd-vgd int foss & vugs. gd sat stn ul gd-vgd SFO. Fr-gd Od.

Sh: grj

LS: wht, Fn-md xln, scat foss. v chlky, scat Fr int xln vugs. 1-2 pcs ul lt stn, NSFO, No Od. Mostly barren.

Sh: grj ul brn.

LS: tan-wht, md xln, dns.

Sh: grj

Vis: 60 wt: 9.0

DST #2
3983-4025
45-45-45-45
I.F.-BOB 14min
F.F.-BOB 20min
IFP: 27-41
FFP: 43-58
SIP: 501-463
HP: 1964-1949
Rec:
519' GIP
48' HOCM 40%o
63' GMO 20%g, 40%o
BHT: 118° G=NA