



KANSAS CORPORATION COMMISSION 1052291  
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: Michele Meier  
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>02/19/2011</u>	<u>02/25/2011</u>	<u>02/26/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21632-00-00

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

W2 W2 W2 W2 Sec. 19 Twp. 20 S. R. 20  East  West

2640 Feet from  North /  South Line of Section

120 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Pawnee

Lease Name: IFS Unit Well #: 1-19

Field Name: Steffen Northwest

Producing Formation: Mississippi

Elevation: Ground: 2215 Kelly Bushing: 2223

Total Depth: 4368 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 522 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 1384 Feet

If Alternate II completion, cement circulated from: 1384

feet depth to: 0 w/ 125 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: 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

Geologist Report Received

UIC Distribution

ALT  I  II  III Approved by: Deanna Garrison Date: 07/27/2011



1052291

Operator Name: Downing-Nelson Oil Co Inc Lease Name: IFS Unit Well #: 1-19  
 Sec. 19 Twp. 20 S. R. 20  East  West County: Pawnee

**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: <b>Attached</b>	<input 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	522	Common	250	2% Gel & 3% CC
Production String	7.875	5.5	14	4366	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	4366' to 4368	250 gal. 15% INS Acid	4366' to 4368

TUBING RECORD: Size: <u>2.3750</u> Set At: <u>4341.63</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR: <u>05/17/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>5</u>	Gas Mcf <u>0</u> Water Bbls. <u>39</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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	IFS Unit 1-19
Doc ID	1052291

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Denisty Neutron

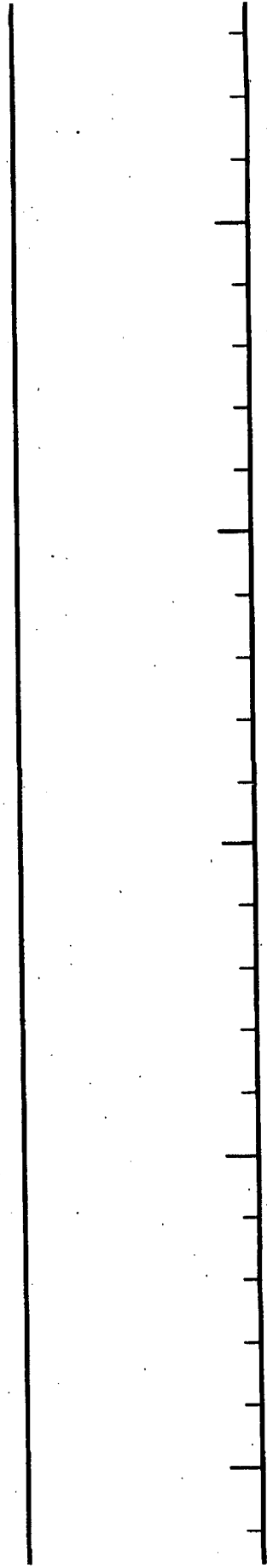
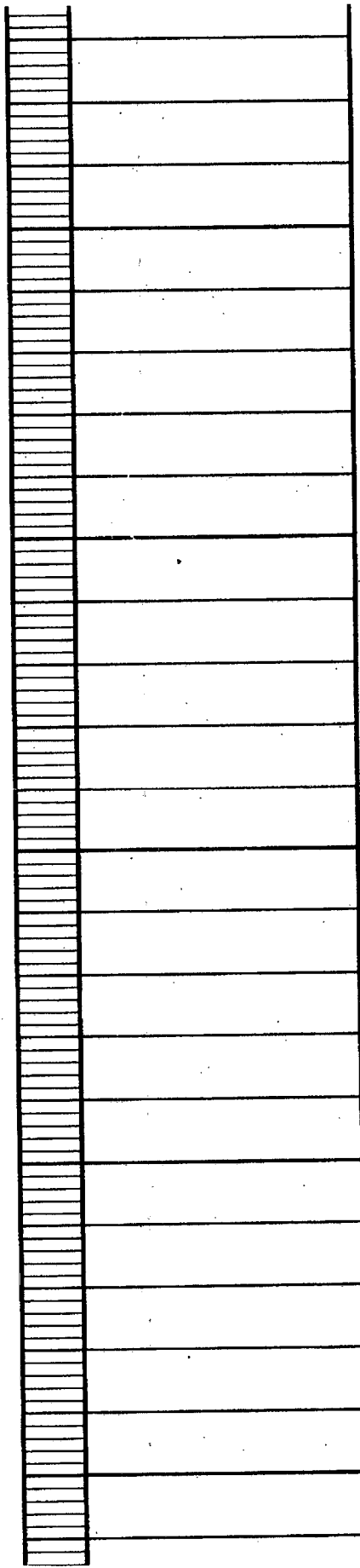
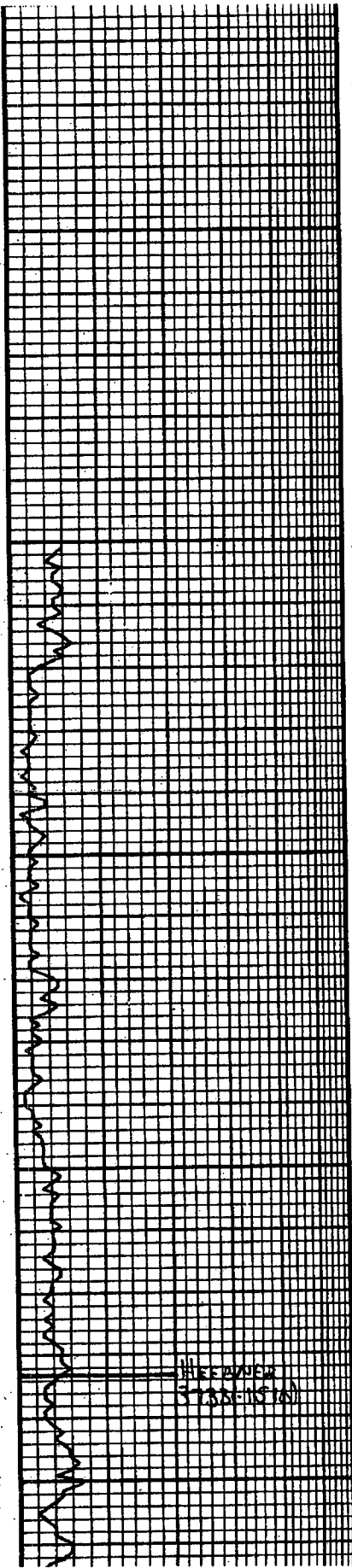
Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	IFS Unit 1-19
Doc ID	1052291

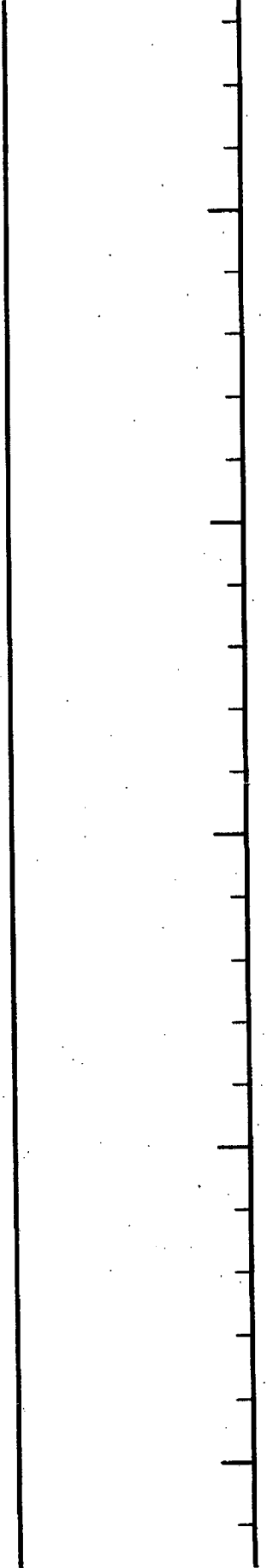
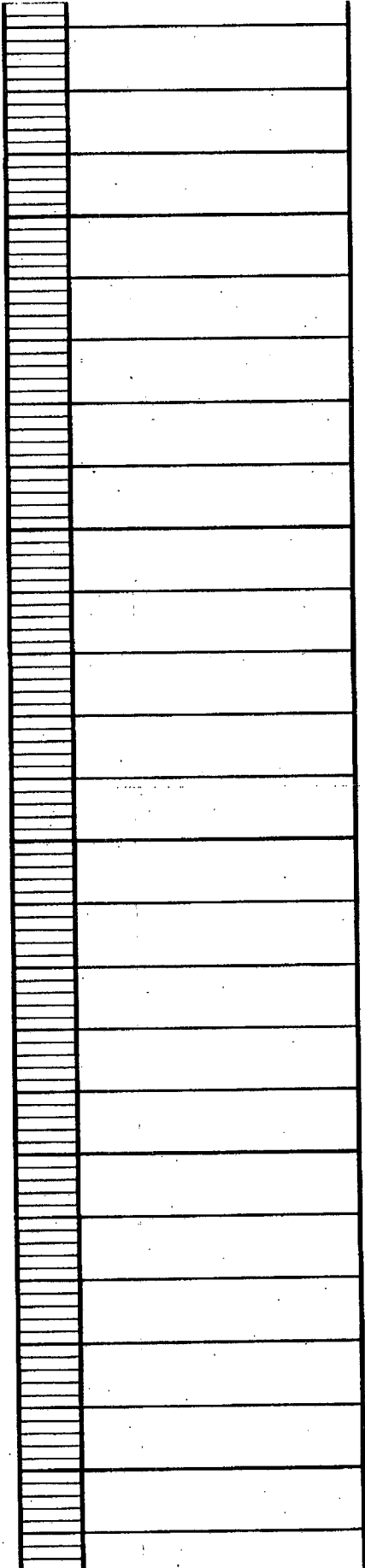
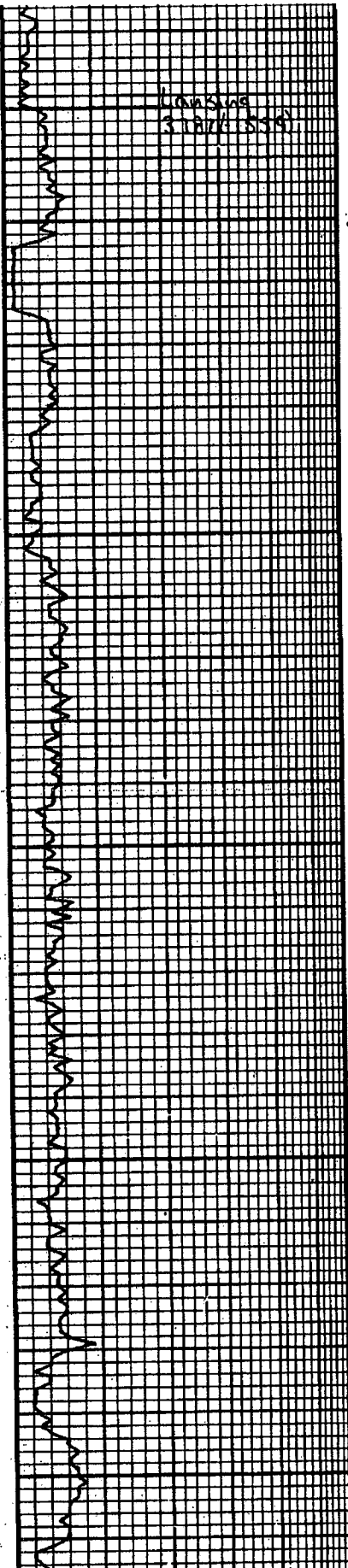
Tops

Name	Top	Datum
Top Anhydrite	1410	+813
Base Anhydrite	1439	+784
Heebner	3733	-1510
LKC	3782	-1559
BKC	4100	-1877
Fort Scott	4286	-2063
Cherokee Shale	4303	-2080
Mississippi/Osage	4365	-2142





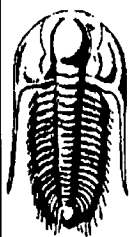












**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

DNOC

IFS Unit 1-19

P.O. Box 372  
Hays, Ks 67601

19/20S/20W-Pawnee

Job Ticket: 41843

DST#: 1

ATTN: Marc Downing

Test Start: 2011.02.24 @ 21:34:10

### GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 02:11:40

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 47

Interval: **4326.00 ft (KB) To 4368.00 ft (KB) (TVD)**

Reference Elevations: 2219.00 ft (KB)

Total Depth: 4368.00 ft (KB) (TVD)

2213.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 6.00 ft

### Serial #: 6719

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.24

End Date: 2011.02.25

Last Calib.: 2011.02.25

Start Time: 21:34:15

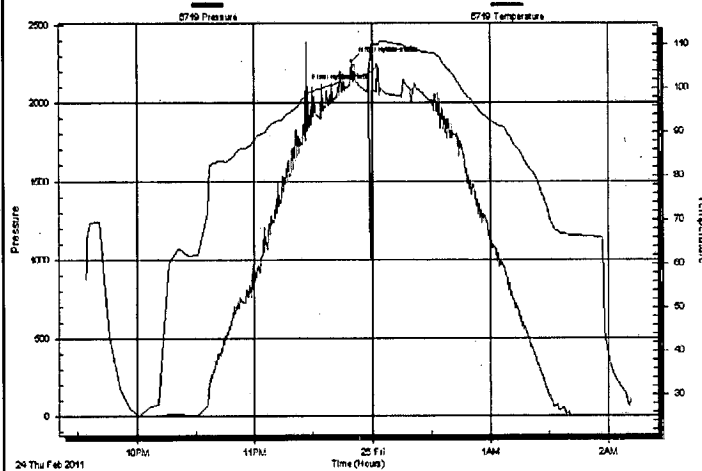
End Time: 02:11:39

Time On Btm: 2011.02.24 @ 23:49:40

Time Off Btm: 2011.02.25 @ 00:02:40

TEST COMMENT: IF-Msrun.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2264.16	102.21	Initial Hydro-static
13	2238.00	109.83	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

DNOC

**IFS Unit 1-19**

P.O. Box 372  
Hays, Ks 67601

**19/20S/20W-Pawnee**

Job Ticket: 41843

**DST#: 1**

ATTN: Marc Downing

Test Start: 2011.02.24 @ 21:34:10

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 9.18 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

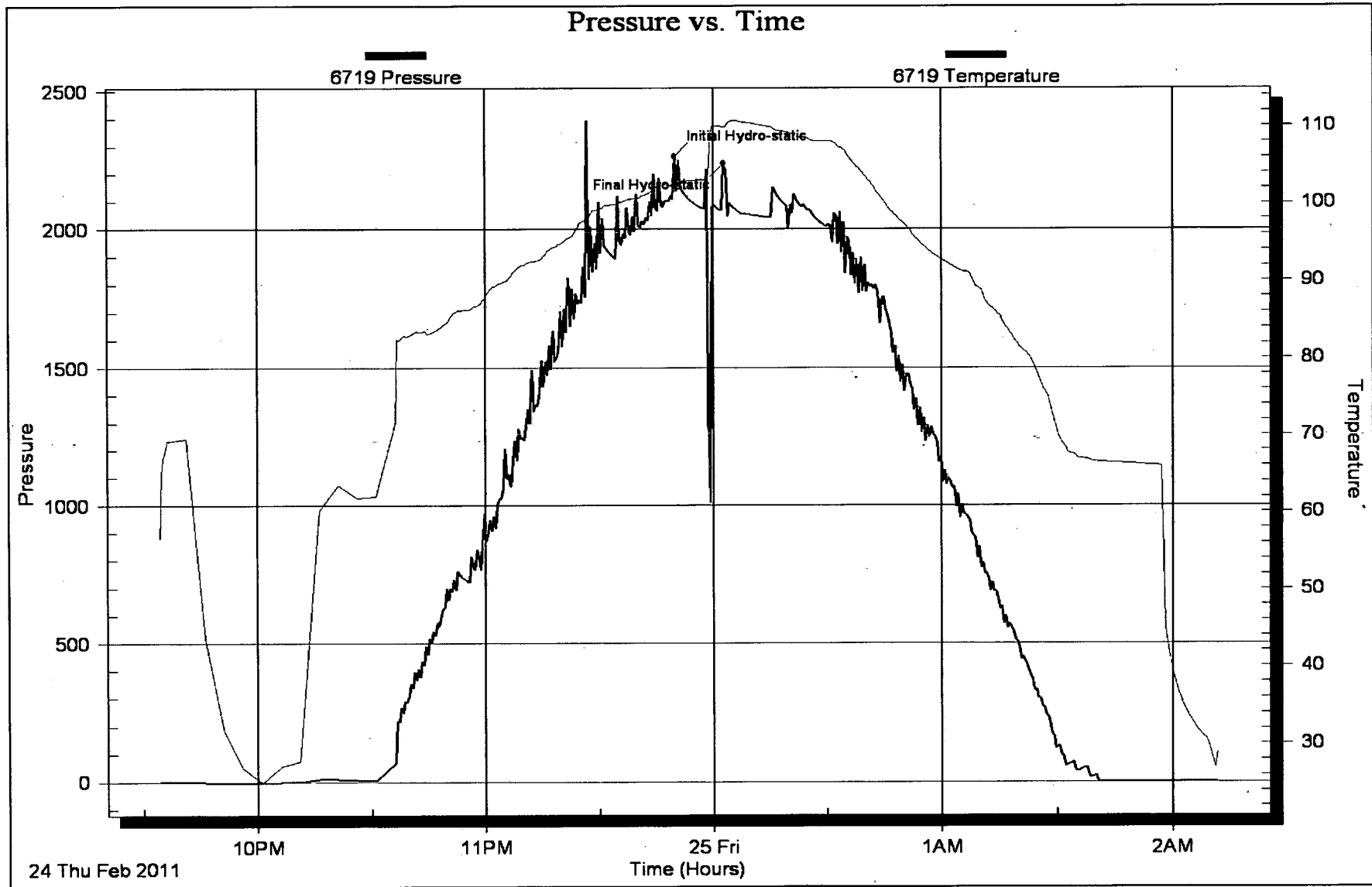
Num Gas Bombs: 0

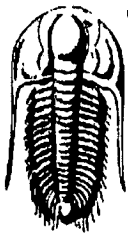
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

DNOO  
P.O. Box 372  
Hays, Ks 67601

**IFS Unit 1-19**  
**19/20S/20W-Pawnee**  
Job Ticket: 41844 **DST#: 2**  
Test Start: 2011.02.25 @ 02:34:10

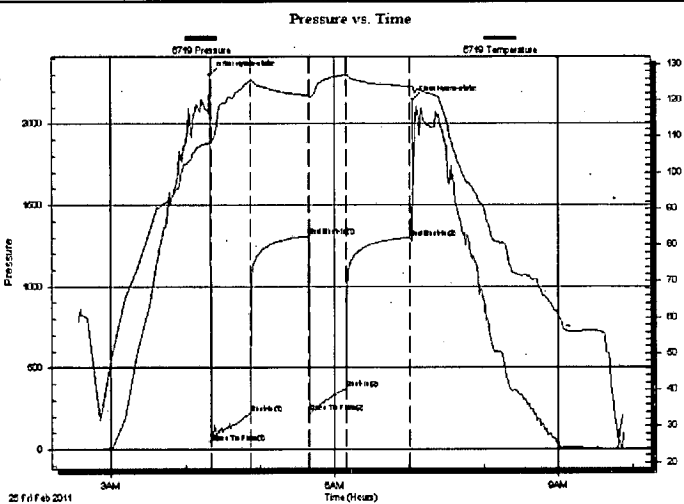
ATTN: Marc Downing

## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 04:20:10  
Time Test Ended: 09:52:40  
Test Type: Conventional Bottom Hole  
Tester: Dustin Rash  
Unit No: 47  
Interval: **4294.00 ft (KB) To 4368.00 ft (KB) (TVD)**  
Reference Elevations: 2219.00 ft (KB)  
Total Depth: 4368.00 ft (KB) (TVD)  
2213.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
KB to GR/CF: 6.00 ft

**Serial #: 6719** **Inside**  
Press@RunDepth: 373.06 psig @ 4296.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.02.25 End Date: 2011.02.25 Last Calib.: 2011.02.25  
Start Time: 02:34:15 End Time: 09:52:39 Time On Btm: 2011.02.25 @ 04:19:10  
Time Off Btm: 2011.02.25 @ 07:03:10

**TEST COMMENT:** IF-Strong building blow . BOB in 8 minutes 20 seconds.  
IS-No Return.  
FF-Strong building blow . BOB in 9 minutes.  
FS-No Return.



## PRESSURE SUMMARY

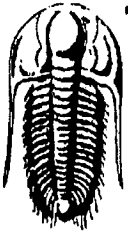
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.40	108.21	Initial Hydro-static
1	42.50	108.13	Open To Flow (1)
33	221.32	125.38	Shut-In(1)
80	1307.31	121.31	End Shut-In(1)
81	227.15	121.00	Open To Flow (2)
110	373.06	127.00	Shut-In(2)
162	1300.16	123.75	End Shut-In(2)
164	2146.83	123.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
496.00	70%Water/12.5%Gas/12.5%Oil/5%Mud	6.68
248.00	40%Water/40%Mud/10%Oil/10%Gas	3.48
33.00	50%Mud/20%Water/15%Oil/15%Gas	0.46
2.00	90%Oil/10%Gas	0.03

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

DNOC  
P.O. Box 372  
Hays, Ks 67601

IFS Unit 1-19  
**19/20S/20W-Pawnee**  
Job Ticket: 41844      **DST#: 2**  
Test Start: 2011.02.25 @ 02:34:10

ATTN: Marc Downing

## Mud and Cushion Information

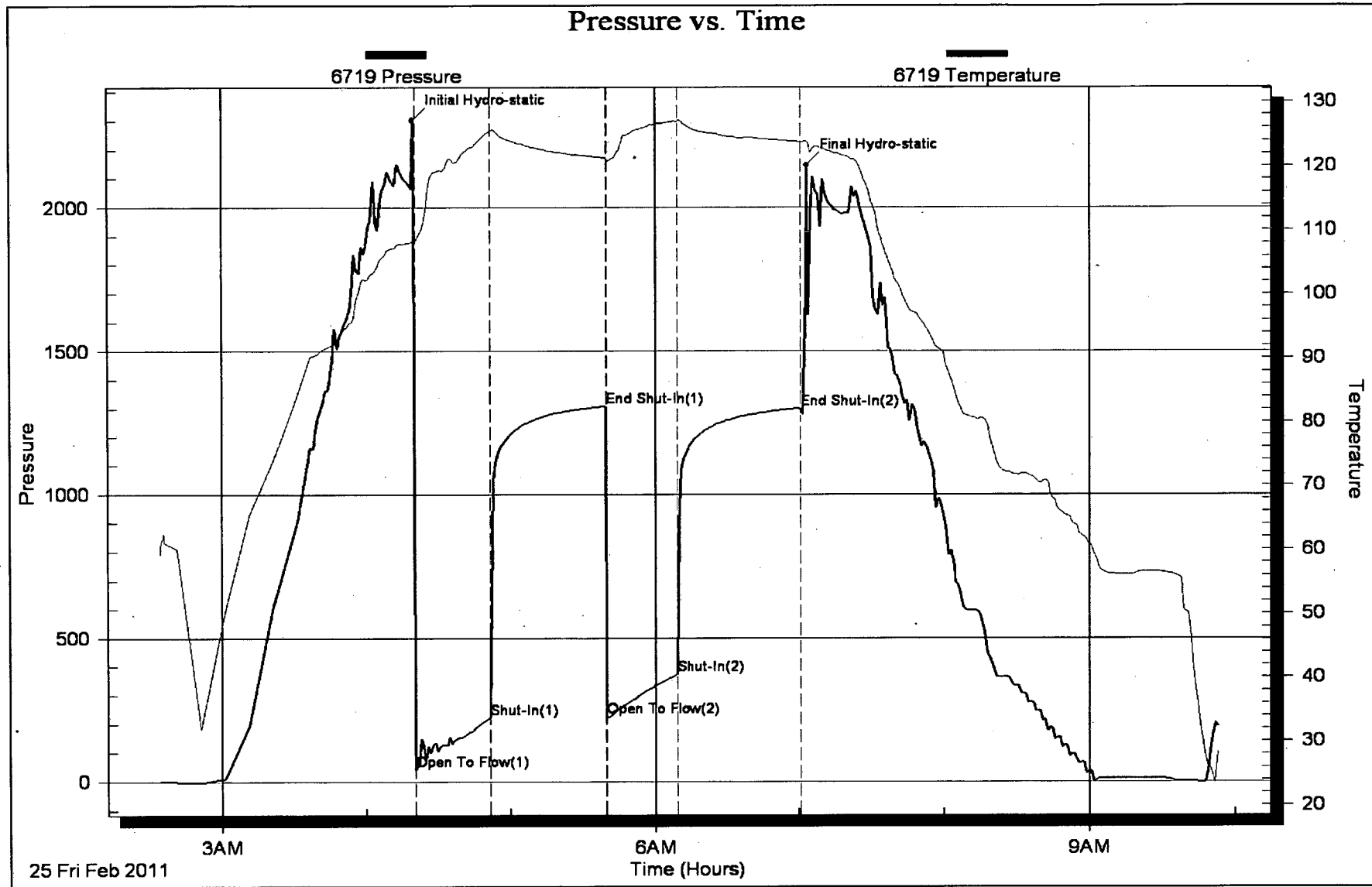
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	42000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.44 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
496.00	70%Water/12.5%Gas/12.5%Oil/5%Mud	6.675
248.00	40%Water/40%Mud/10%Oil/10%Gas	3.479
33.00	50%Mud/20%Water/15%Oil/15%Gas	0.463
2.00	90%Oil/10%Gas	0.028

Total Length: 779.00 ft      Total Volume: 10.645 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





# ALLIED CEMENTING CO., LLC. 038701

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

SERVICE POINT:  
Great Bend

DATE <u>2-20-11</u>	SEC. <u>19</u>	TWP. <u>19</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30 AM</u>	JOB FINISH <u>5:00 AM</u>
LEASE <u>IFS</u>	WELL# <u>1-19</u>	LOCATION <u>Alexander - 45 11 South</u>			COUNTY <u>Dawson</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			To RD W 2 West 1/2 South East 1/4				

CONTRACTOR Discovery 4

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 523

CASING SIZE 8 1/2 # 24 DEPTH 523

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15

PERFS. \_\_\_\_\_

DISPLACEMENT 32.25 BBHs

OWNER Dawson + Nelson

CEMENT

AMOUNT ORDERED 2500x class A 3%cc  
2% gel

COMMON	<u>250</u>	@ <u>13.50</u>	<u>3.375.00</u>
POZMIX		@	
GEL	<u>5</u>	@ <u>20.25</u>	<u>101.25</u>
CHLORIDE	<u>9</u>	@ <u>51.50</u>	<u>463.50</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>250</u>	@ <u>2.25</u>	<u>562.50</u>
MILEAGE	<u>250x 314.10</u>		<u>775.00</u>
TOTAL			<u>5.277.25</u>

EQUIPMENT

PUMP TRUCK CEMENTER Wayne

# 366 HELPER Gary

BULK TRUCK

# 371 DRIVER woody

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

Ran 8 1/2 casing in.  
Had circulate with Rig mud  
shut down. Mix 2500x class A  
3%cc + 2% gel  
Displace 32.25 BBHs fresh water.  
shut in. Rig down  
Cement did circulate.

CHARGE TO: Dawson + Nelson

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>523</u>		
PUMP TRUCK CHARGE			<u>1159.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>31.</u>	@ <u>7.00</u>	<u>217.00</u>
MANIFOLD		@	
		@	
		@	
TOTAL			<u>1376.00</u>

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment.

63.31  
277.54

# SWIFT Services, Inc.

DATE 2-26-11 PAGE NO. 7  
TICKET NO. 19562

King & Nelson

WELL NO. 1-19

LEASE IFS Unit

JOB TYPE Cement Logging

ART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								TD-4368'
	0945							On location w/ Float Equip RIS LD DP.
	0516							Start 5 1/2" casing to 4366' 14 #/ft.
								PKR Shoe - LD Bottle - 55 30.78'
								Cent 1-3-5-7-9-12-71
								Cement Packet # 72
								D.V. collar #72 @ 1384'
	0710							Fin run casing - Tag Log Down Jt
	0720							run longer Jt.
	0730							Start cir casing
	0830							Fin cir - Drop PKR Shoe ball
								Take on mud displ.
	0850							Pump to set PKR Shoe - w/ Tok - mud
								Not set - wait 5 min - still not
		1						Set - start 500 gal mud flush
		0 1				300		Shutting Down & Stagnant - Not Set
						200		Fin Mud Flush - start 20 881 KCL flush
								PKR shoe still not pressure up.
	0920							Fin KCL flush - call tool - said to cut.
		3						Start 150 sks standard FH-2 mud
		3 1/2	36					Fin cut - wash pump & lines
		8						Drop Stroke - LD Plug - Start Displ
		6	72			300		Start Mud Displ - cement cut - slow rate
		5	90			400		Fin 18881 mud - start 2 <sup>nd</sup> stage KCL flush
	1000		100			600		Plug Down - Hold - Release & Hold
	1005					750		Drop D.V. opening device - Plug RH / mH @ 920'
	1008		2			900		Open D.V. w/ tok - KCL flush
								start 125 sks SMD @ 11.2 gal
		5	70					Fin cut. Drop D.V. closing Plug.
								Start Displ
			34			900	1200	Plug Down - 50 sks SMD circulate to pit
								D.V. close - Hold & Release & Hold
								Job Complete
								Wash up & Packup

*[Signature]*  
Hon, Doug & Dave E.