



WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

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

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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: \_\_\_\_\_ Date: \_\_\_\_\_



1089751

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input 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

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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 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	McCoy 1-29
Doc ID	1089751

All Electric Logs Run

Sonic
Micro
Dual Indcution
Dual Poresity

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	McCoy 1-29
Doc ID	1089751

Tops

Name	Top	Datum
Top Anhydrite	1330'	+831
Base Anhydrite	1358'	+803
Heebner	3670'	-1509
LKC	3721'	-1560
BKC	4042'	-1881
Fort Scott	4221'	-2060
Cherokee Shale	4240'	-2079
Mississippi	4292'	-2131



DRILL STEM TESTS

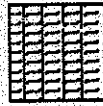
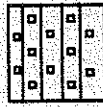


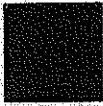

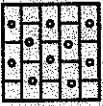
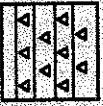
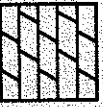
No.	Interval	FFP/Time	ISIP/Time	FFP/Time	FSP/Time	HH-FHH	RECOVERY

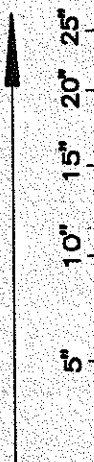

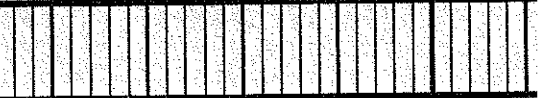
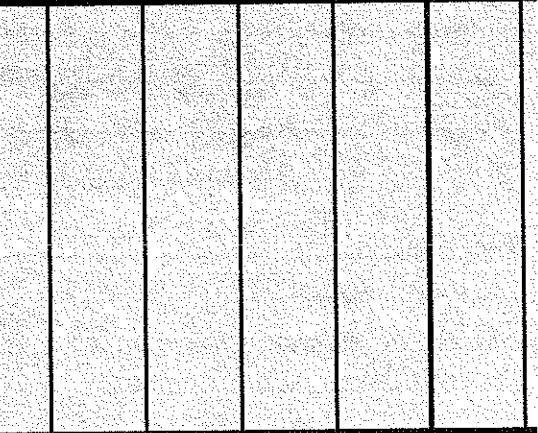


REMARKS AND RECOMMENDATIONS

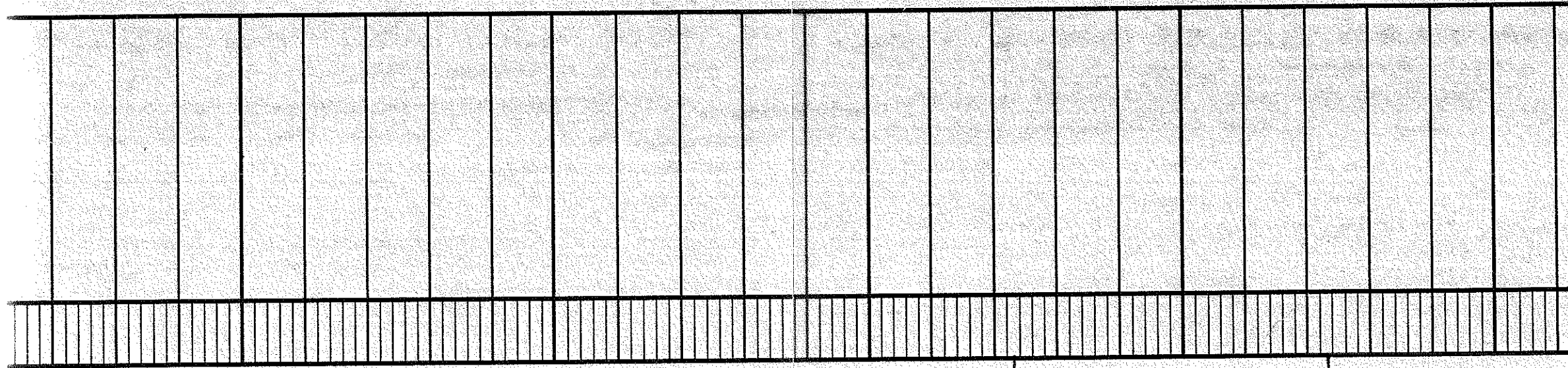
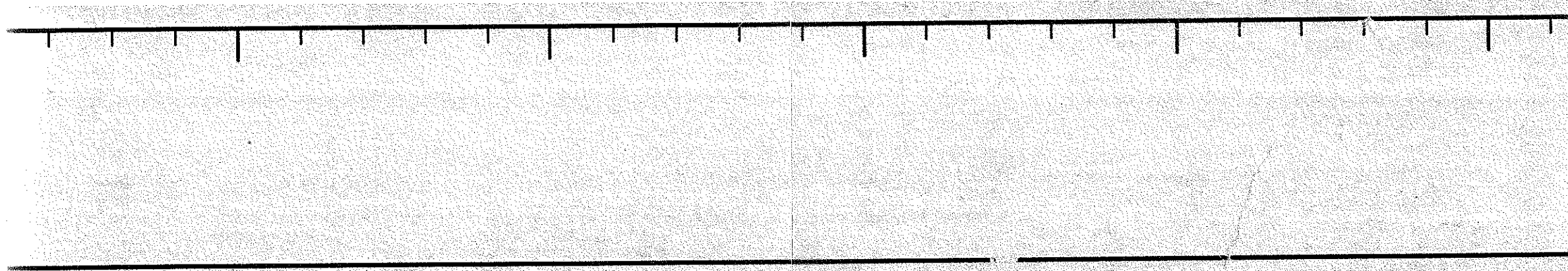
PIPE WAS SET BASED ON STRUCTURE &  
 DST #2. Please note corrected tops on strip log.  
 Originally, had incorrect location & elevation.

*Paul ...*

LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb sh
-  Limestone
-  Ool. Lime
-  Chert
-  Dolomite

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

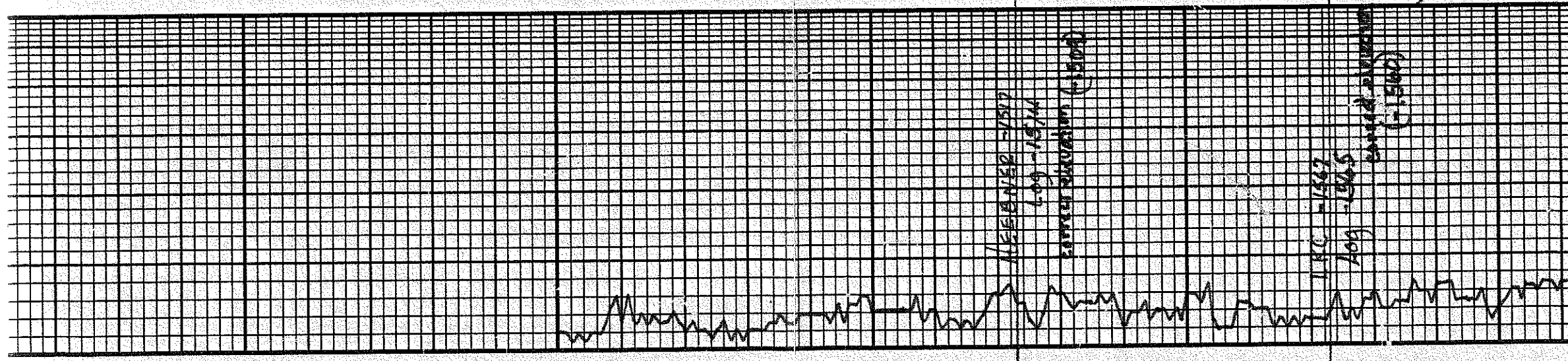


3600

50

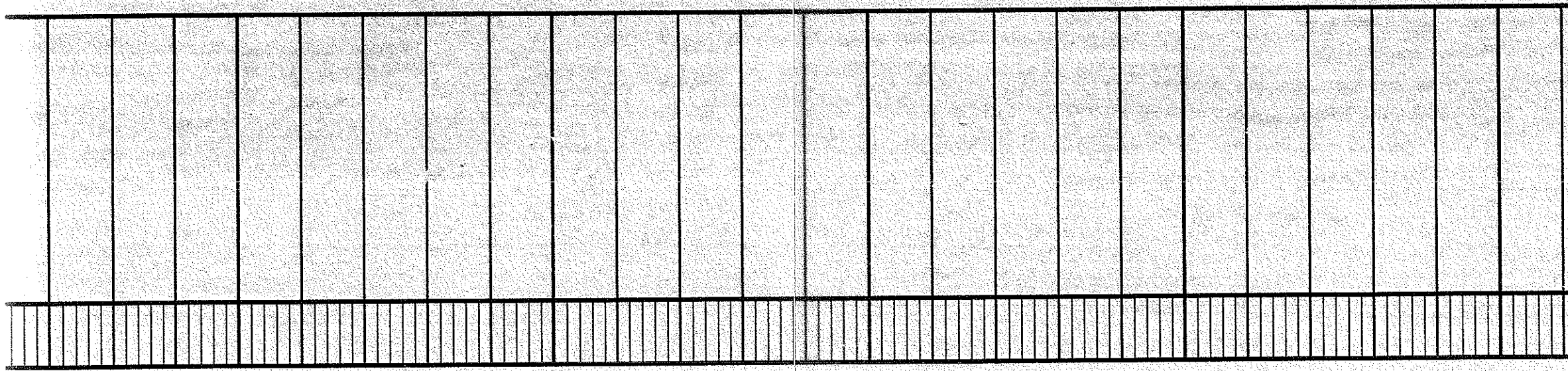
3700

50



ALLENBY 3/17/77  
Log 15/11/77  
SUNNY DIVISION (1500)

ALC 1/16/77  
Log 1/16/77  
SUNNY DIVISION (1500)



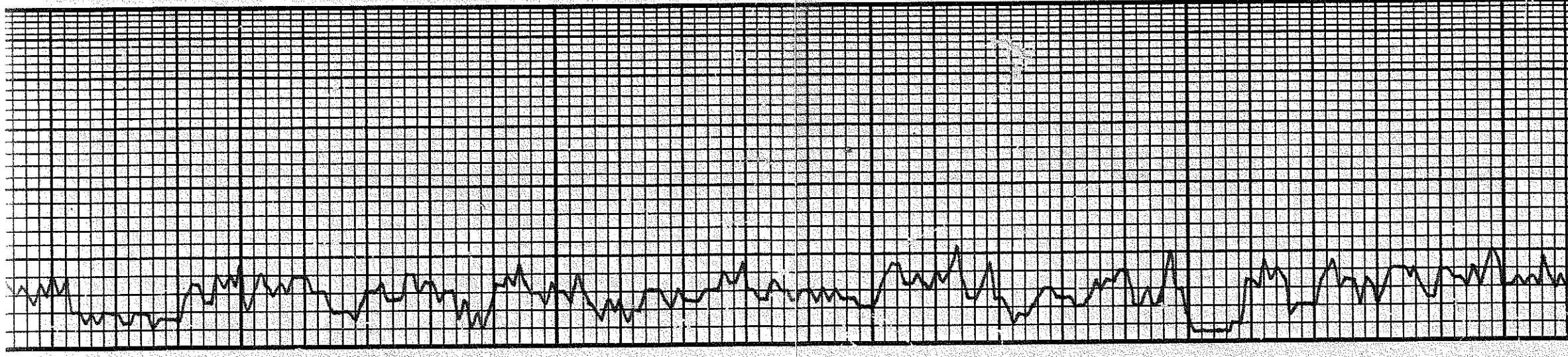
3800

50

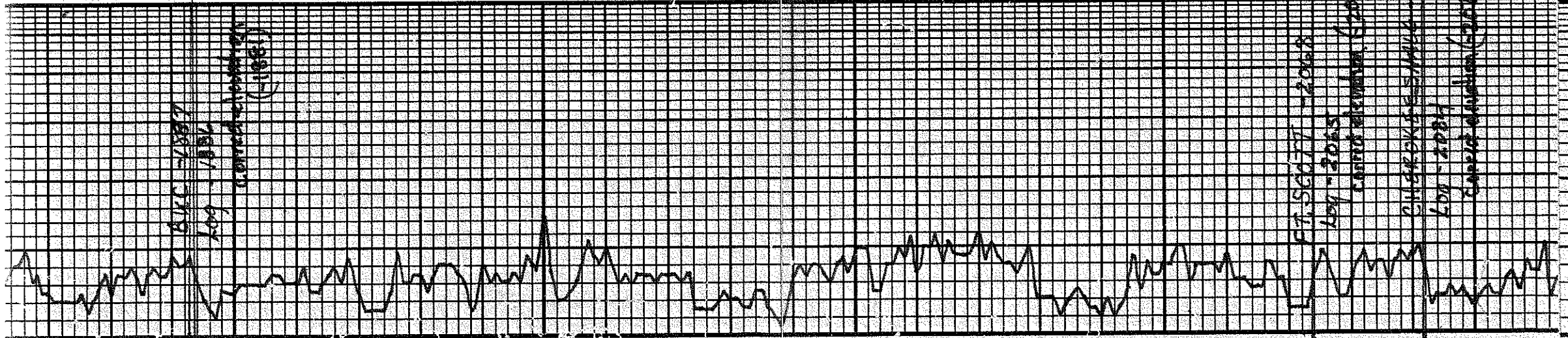
3900

50

4000







2087  
 Log 1887  
 corrected  
 (1887)

FT. SCOTT - 2068  
 Log - 2065  
 corrected  
 (2060)

CHURCHVILLE  
 Log - 2084  
 corrected  
 (2079)

50

4100

25

4200

2086

(6) 50

Ls tan - gry microp  
 v. d. s. no app. n. s.

SA aurcaas

SA aurcaas

Ls wh. tan mst v. fine  
 on 5 pr. m. 1-2 203.5  
 100 ft. pr. m. loss to n. s.

fine microp. v. d. s. n. s.  
 n. s.

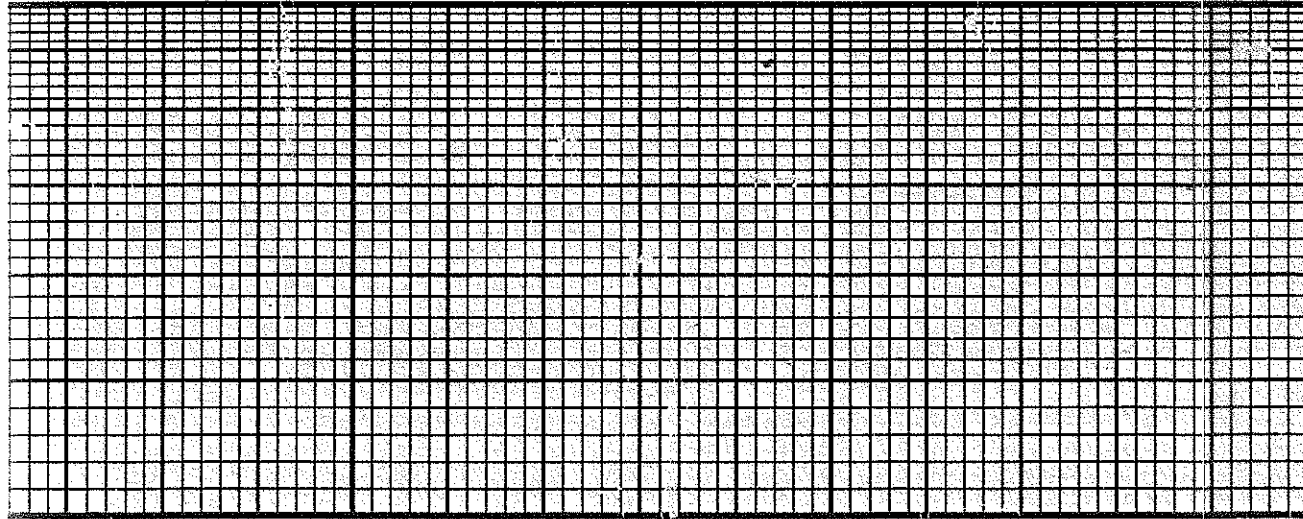
SH. OLS. cana

VDH gry

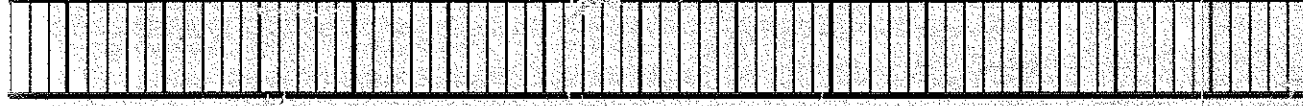
microp. tan Ls v. pr. n. s.

fine grey

v. d. s.



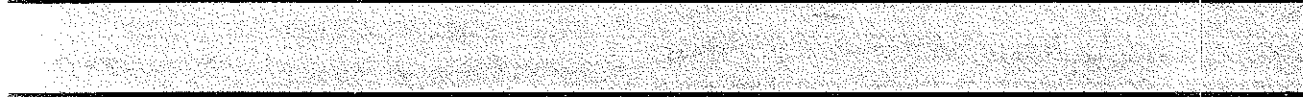
5" 10" 15" 20" 25"  
 DRILLING TIME Minutes/Foot  
 Rate of Penetration Decreases



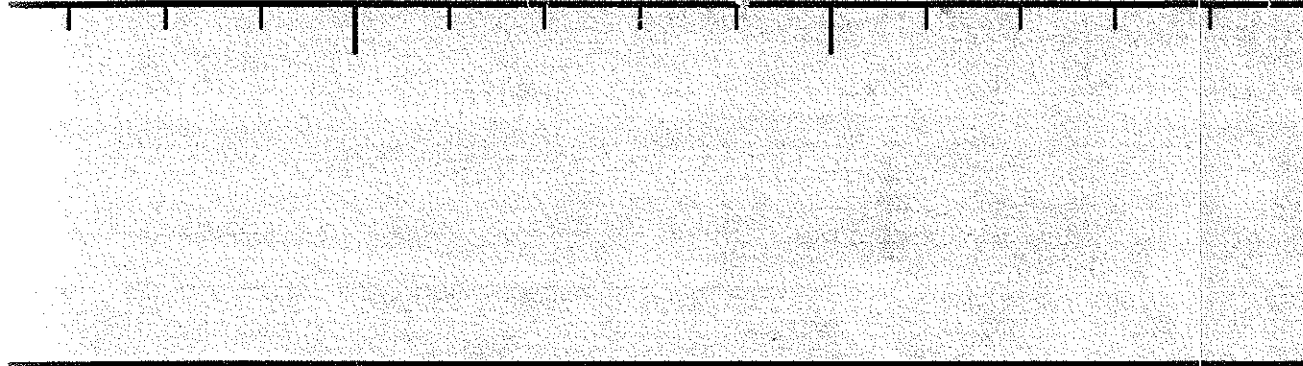
LITHOLOGY



SAMPLE DESCRIPTIONS



OIL SHOWS



REMARKS

OPERATOR DNOCI  
 LEASE McCoy #1-29 IP Miss  
 ELEVATION 2161' AB RTD 435'

LOCATION 1652' ESE of 1314' E26  
 SEC 29 TWP 20 S RNG 20W  
 COUNTY Powder STATE KANSAS

# ALLIED OIL & GAS SERVICES, LLC 053705

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Curtis Bend

DATE <u>7-3-12</u>	SEC. <u>29</u>	TWP. <u>20</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00 pm</u>	JOB FINISH <u>5:00 pm</u>
LEASE <u>M604</u>		WELL# <u>1-29</u>		LOCATION <u>Alexzander- 13 South</u>		COUNTY <u>Pawnee</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				<u>1/4 west North 10</u>			

CONTRACTOR <u>Discovery 4</u>	OWNER
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>1205</u>
CASING SIZE <u>8 3/8</u>	DEPTH <u>1204</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>700</u>	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>42.85</u>	
PERFS:	
DISPLACEMENT <u>74 BBLs</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Wayne</u>	
# <u>398</u> HELPER <u>Deovy</u>	
BULK TRUCK	
# <u>344/170</u> DRIVER <u>Marlin</u>	
BULK TRUCK	
#	DRIVER

CEMENT			
AMOUNT ORDERED	<u>4505x class A</u>		
	<u>+3%cc +2%cc</u>		
COMMON	<u>450</u>	@ <u>16.25</u>	<u>7,312.50</u>
POZMIX		@	
GEL	<u>9</u>	@ <u>21.25</u>	<u>191.25</u>
CHLORIDE	<u>16</u>	@ <u>58.20</u>	<u>931.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>486.60</u>	@ <u>2.10</u>	<u>1021.86</u>
MILEAGE	<u>22.2 x 42x</u>	<u>2.35</u>	<u>2,191.70</u>
			TOTAL <u>11,647.95</u>

REMARKS:  
Pipe on Bottom Break Circulate  
with Rimud  
Run 8 BBLs Ahead  
Mix 4505x class A +3%cc +2%cc  
Release Plug Displace BBLs  
Freshwater land Plug 200PSI  
Shut in  
Cement did circulate

SERVICE			
DEPTH OF JOB	<u>1204</u>		
PUMP TRUCK CHARGE		<u>1125.00</u>	
EXTRA FOOTAGE	<u>904</u>	@ <u>.95</u>	<u>858.80</u>
MILEAGE	<u>40m 42</u>	@ <u>7.00</u>	<u>2,940.00</u>
MANIFOLD		@	
	<u>40m 42</u>	@ <u>4.00</u>	<u>1,680.00</u>
		@	
			TOTAL <u>2,445.80</u>

CHARGE TO: Downing / Nelson  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT			
	<u>Bottle plate</u>	@ <u>112.00</u>	<u>112.00</u>
	<u>Rubber Plug</u>	@ <u>112.00</u>	<u>112.00</u>
		@	
		@	
		@	
			TOTAL <u>224.00</u>

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

SALES TAX (If Any)	
TOTAL CHARGES	<u>14,317.75</u>
DISCOUNT	<u>3,579.43</u>
	IF PAID IN 30 DAYS
	<u>10,738.32</u>

PRINTED NAME \_\_\_\_\_  
 SIGNATURE [Signature]

**JOB LOG**

**SWIFT Services, Inc.**

CUSTOMER Downing & Nelson WELL NO. 1-29 LEASE McCoy JOB TYPE Cement Logging TICKET NO. 22810

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
7/9	2315							TD 7315'
	2330							On location w/ Flat Pump Start 5 1/2" 14" casing to 7306' PKR Shoe on Bottom - LD Baffle - SS 70' @ 2266' Ceat 1-3-5-7-9-11 - Basket #4 Pin Circulate 20' Down to connection Circulate 10' Down to Bottom Tag Bottom & circ Drop PKR Shoe Ball Plus RH / MH 30/20 Set PKR Shoe w/ TKS - mud flush Pump @ 881 KLL Flush Start 125 S/KS EM-2 down hole Fin cut - Wash out Pump Lines Drop LD Plug - Start Disp Caught Psi - LIP @ 75081 Slow rate @ 90881 Plug Down - Hold - Release & Hold Job Complete Washup & Packoff
7/10	0100							
	0200							
	0245							
	0315							
			75					
	0330	6	12			1250		
		6	20			250		
		4				200		
			36			400		
						1200		
		8				300		
		8	75			400		
		6				600		
	0400					800		
						500		
	0430							

*[Signature]*  
Dan Bivens  
J. Long



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

### **McCoy #1-29**

#### **29-20s-20w Pawnee,KS**

Start Date: 2012.07.08 @ 13:20:36

End Date: 2012.07.08 @ 19:04:30

Job Ticket #: 47433                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.18 @ 09:46:00



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co inc

**29-20s-20w Pawnee,KS**

PO Box 1019  
Hays KS 67601

**McCoy #1-29**

Job Ticket: 47433

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2012.07.08 @ 13:20:36

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:27:31

Time Test Ended: 19:04:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

**Interval: 4266.00 ft (KB) To 4302.00 ft (KB) (TVD)**

Reference Elevations: 2156.00 ft (KB)

Total Depth: 4302.00 ft (KB) (TVD)

2148.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 43.74 psig @ 4272.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.08

End Date:

2012.07.08

Last Calib.:

2012.07.08

Start Time: 13:20:36

End Time:

19:04:30

Time On Btm:

2012.07.08 @ 15:23:31

Time Off Btm:

2012.07.08 @ 17:33:31

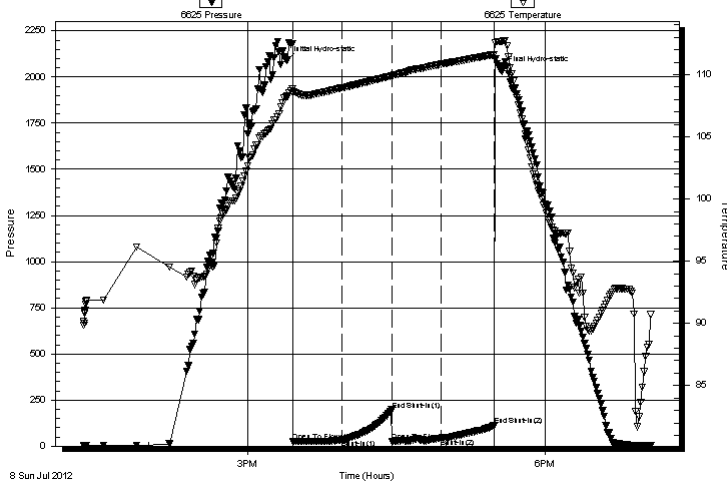
TEST COMMENT: 30-IFP-w k bl 1/8" to surface bl

30-ISIP-no bl

30-FFP-no bl

30-FSIP-no bl

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.28	108.26	Initial Hydro-static
4	25.53	108.56	Open To Flow (1)
34	35.91	108.95	Shut-In(1)
64	196.27	109.89	End Shut-In(1)
64	27.10	109.88	Open To Flow (2)
94	43.74	110.83	Shut-In(2)
126	110.69	111.61	End Shut-In(2)
130	2037.62	112.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co inc

**29-20s-20w Pawnee,KS**

PO Box 1019  
Hays KS 67601

**McCoy #1-29**

Job Ticket: 47433

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2012.07.08 @ 13:20:36

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:27:31  
 Time Test Ended: 19:04:30  
 Interval: **4266.00 ft (KB) To 4302.00 ft (KB) (TVD)**  
 Total Depth: 4302.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 2156.00 ft (KB)  
 2148.00 ft (CF)  
 KB to GR/CF: 8.00 ft

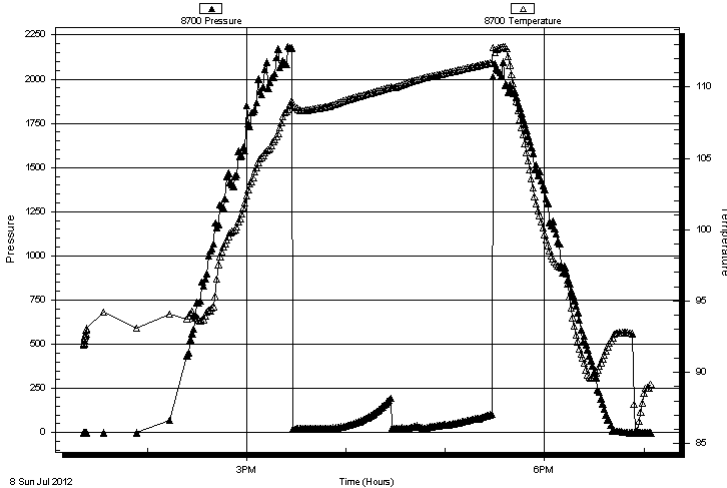
## Serial #: 8700

Outside

Press @RunDepth: psig @ 4272.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.07.08 End Date: 2012.07.08 Last Calib.: 2012.07.08  
 Start Time: 13:21:36 End Time: 19:04:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30-IFP-w k bl 1/8" to surface bl  
 30-ISIP-no bl  
 30-FFP-no bl  
 30-FSIP-no bl

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Co inc

**29-20s-20w Pawnee,KS**

PO Box 1019  
Hays KS 67601

**McCoy #1-29**

Job Ticket: 47433

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2012.07.08 @ 13:20:36

## Tool Information

Drill Pipe:	Length: 4222.00 ft	Diameter: 3.80 inches	Volume: 59.22 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 59.37 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4266.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	57.00 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			4246.00	
Shut In Tool	5.00			4251.00	
Hydraulic tool	5.00			4256.00	
Packer	5.00			4261.00	21.00 Bottom Of Top Packer
Packer	5.00			4266.00	
Stubb	1.00			4267.00	
Perforations	5.00			4272.00	
Recorder	0.00	6625	Inside	4272.00	
Recorder	0.00	8700	Outside	4272.00	
Perforations	27.00			4299.00	
Bullnose	3.00			4302.00	36.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co inc

**29-20s-20w Pawnee,KS**

PO Box 1019  
Hays KS 67601

**McCoy #1-29**

Job Ticket: 47433

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2012.07.08 @ 13:20:36

## 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.12 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

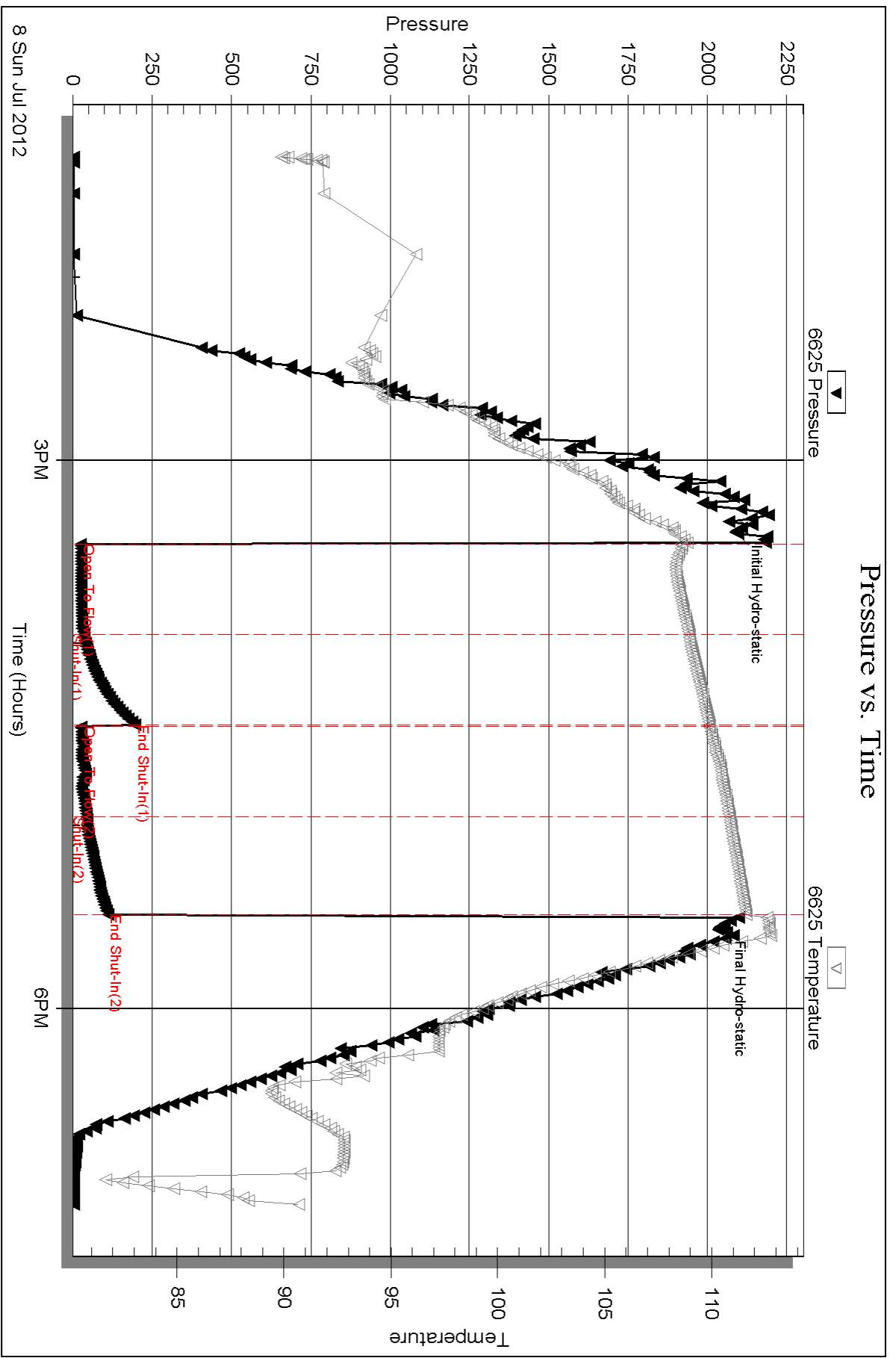
Serial #: 6625

Inside

Downing-Nelson Oil Co inc

McCoy #1-29

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47433

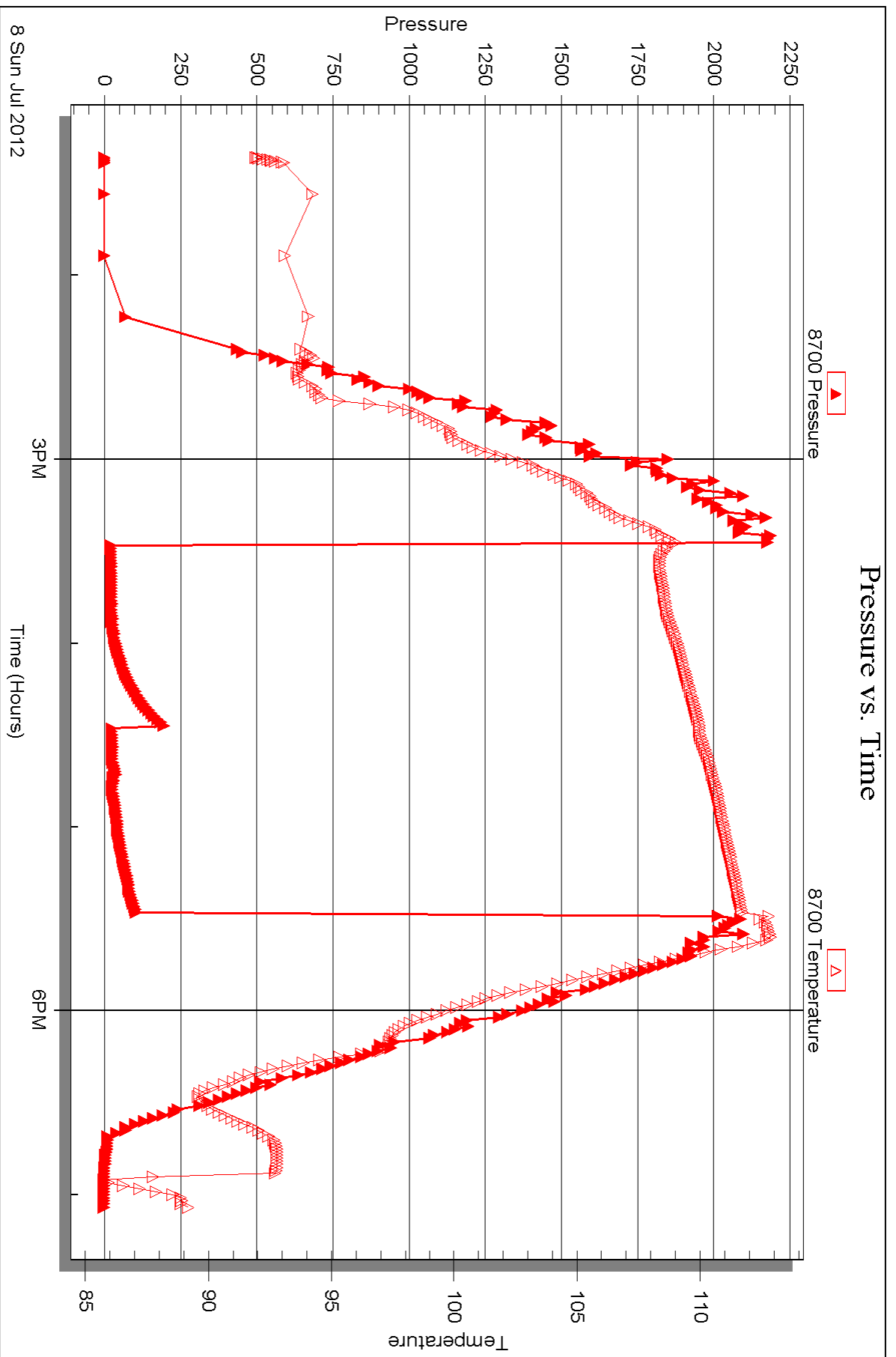
Printed: 2012.07.18 @ 09:46:02

Serial #: 8700

Outside Dow nting-Nelson Oil Co inc

McCoy #1-29

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47433

Printed: 2012.07.18 @ 09:46:03



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

### **McCoy #1-29**

#### **29-20s-20w Pawnee,KS**

Start Date: 2012.07.09 @ 00:55:48

End Date: 2012.07.09 @ 08:31:42

Job Ticket #: 47434                      DST #: 2

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

Printed: 2012.07.18 @ 09:45:15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co inc

**29-20s-20w Pawnee,KS**

PO Box 1019  
Hays KS 67601

**McCoy #1-29**

Job Ticket: 47434

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2012.07.09 @ 00:55:48

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:53:13  
 Time Test Ended: 08:31:42  
 Interval: **4266.00 ft (KB) To 4315.00 ft (KB) (TVD)**  
 Total Depth: 4315.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 2156.00 ft (KB)  
 2148.00 ft (CF)  
 KB to GR/CF: 8.00 ft

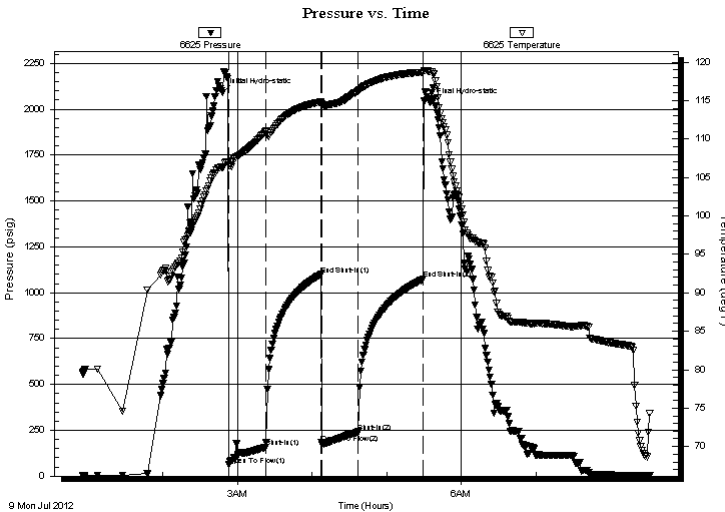
## Serial #: 6625

Inside

Press @ Run Depth: 241.75 psig @ 4279.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.07.09 End Date: 2012.07.09 Last Calib.: 2012.07.09  
 Start Time: 00:55:48 End Time: 08:31:42 Time On Btm: 2012.07.09 @ 02:48:13  
 Time Off Btm: 2012.07.09 @ 05:35:12

TEST COMMENT: 30-IFP-w k to strg in 6 min  
 45-ISIP-1/4" bl bk  
 30-FFP-w k to strg in 7 min  
 45-FSIP-1/4" bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2090.83	106.33	Initial Hydro-static
5	61.79	106.57	Open To Flow (1)
35	158.47	110.98	Shut-In(1)
79	1099.37	114.83	End Shut-In(1)
80	181.13	114.60	Open To Flow (2)
109	241.75	116.23	Shut-In(2)
161	1073.27	118.69	End Shut-In(2)
167	2036.25	118.76	Final Hydro-static

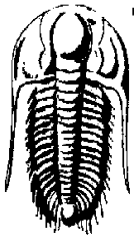
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	340'GIP	0.00
250.00	MGO 20%G5%M75%O	3.23
405.00	CO	5.68

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co inc

**29-20s-20w Pawnee,KS**

PO Box 1019  
Hays KS 67601

**McCoy #1-29**

Job Ticket: 47434

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2012.07.09 @ 00:55:48

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 02:53:13  
 Tester: Ray Schwager  
 Time Test Ended: 08:31:42  
 Unit No: 42

**Interval: 4266.00 ft (KB) To 4315.00 ft (KB) (TVD)**  
 Reference Elevations: 2156.00 ft (KB)  
 Total Depth: 4315.00 ft (KB) (TVD)  
 2148.00 ft (CF)  
 Hole Diameter: 7.85 inches  
 Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

**Serial #: 8700**

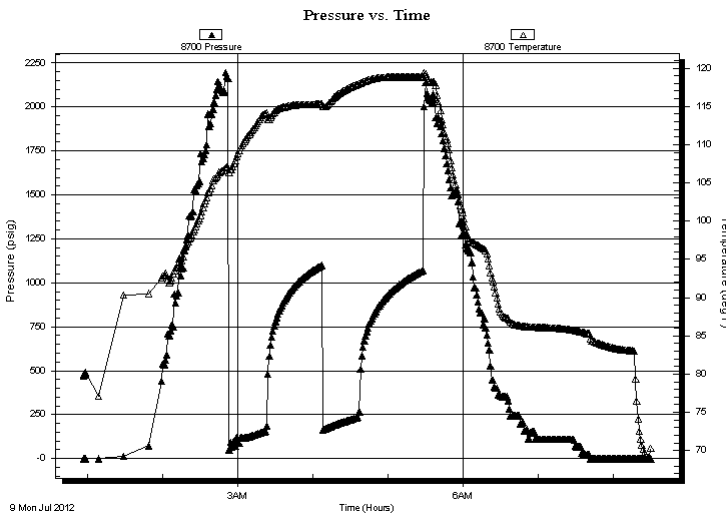
**Outside**

Press@RunDepth: psig @ 4279.00 ft (KB)  
 Start Date: 2012.07.09 End Date: 2012.07.09  
 Start Time: 00:56:48 End Time: 08:30:42

Capacity: 8000.00 psig  
 Last Calib.: 2012.07.09  
 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 6 min  
 45-ISIP-1/4" bl bk  
 30-FFP-w k to strg in 7 min  
 45-FSIP-1/4" bl bk

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	340'GIP	0.00
250.00	MGO 20%G5%M75%O	3.23
405.00	CO	5.68

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Co inc

**29-20s-20w Pawnee,KS**

PO Box 1019  
Hays KS 67601

**McCoy #1-29**

Job Ticket: 47434

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2012.07.09 @ 00:55:48

## Tool Information

Drill Pipe:	Length: 4227.00 ft	Diameter: 3.80 inches	Volume: 59.29 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4266.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4246.00	
Shut In Tool	5.00			4251.00	
Hydraulic tool	5.00			4256.00	
Packer	5.00			4261.00	21.00 Bottom Of Top Packer
Packer	5.00			4266.00	
Stubb	1.00			4267.00	
Perforations	12.00			4279.00	
Recorder	0.00	6625	Inside	4279.00	
Recorder	0.00	8700	Outside	4279.00	
Blank Spacing	33.00			4312.00	
Bullnose	3.00			4315.00	49.00 Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co inc

**29-20s-20w Pawnee,KS**

PO Box 1019  
Hays KS 67601

**McCoy #1-29**

Job Ticket: 47434

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2012.07.09 @ 00:55:48

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.10 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	340'GIP	0.000
250.00	MGO 20%G5%M75%O	3.234
405.00	CO	5.681

Total Length: 655.00 ft

Total Volume: 8.915 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

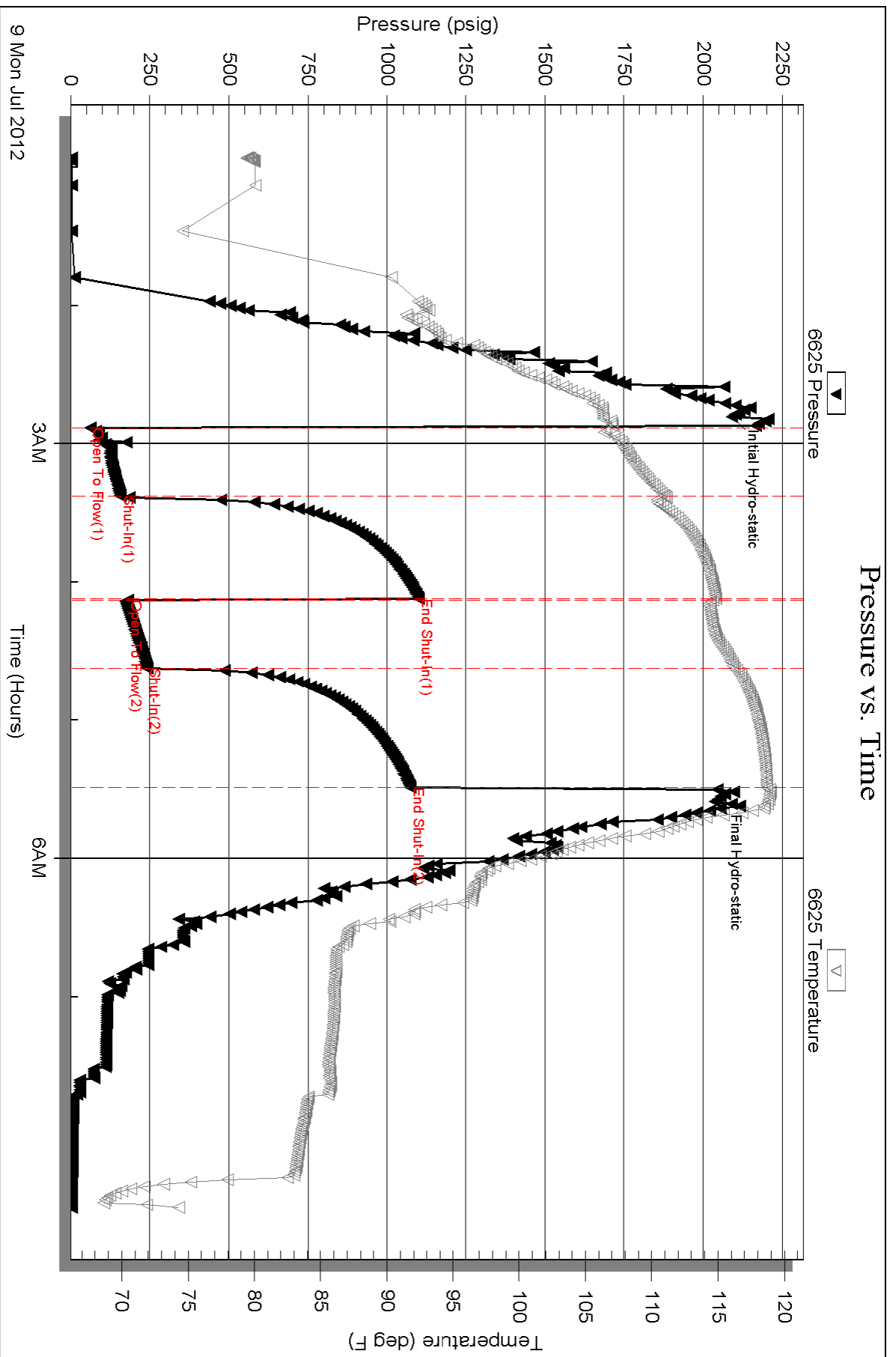
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





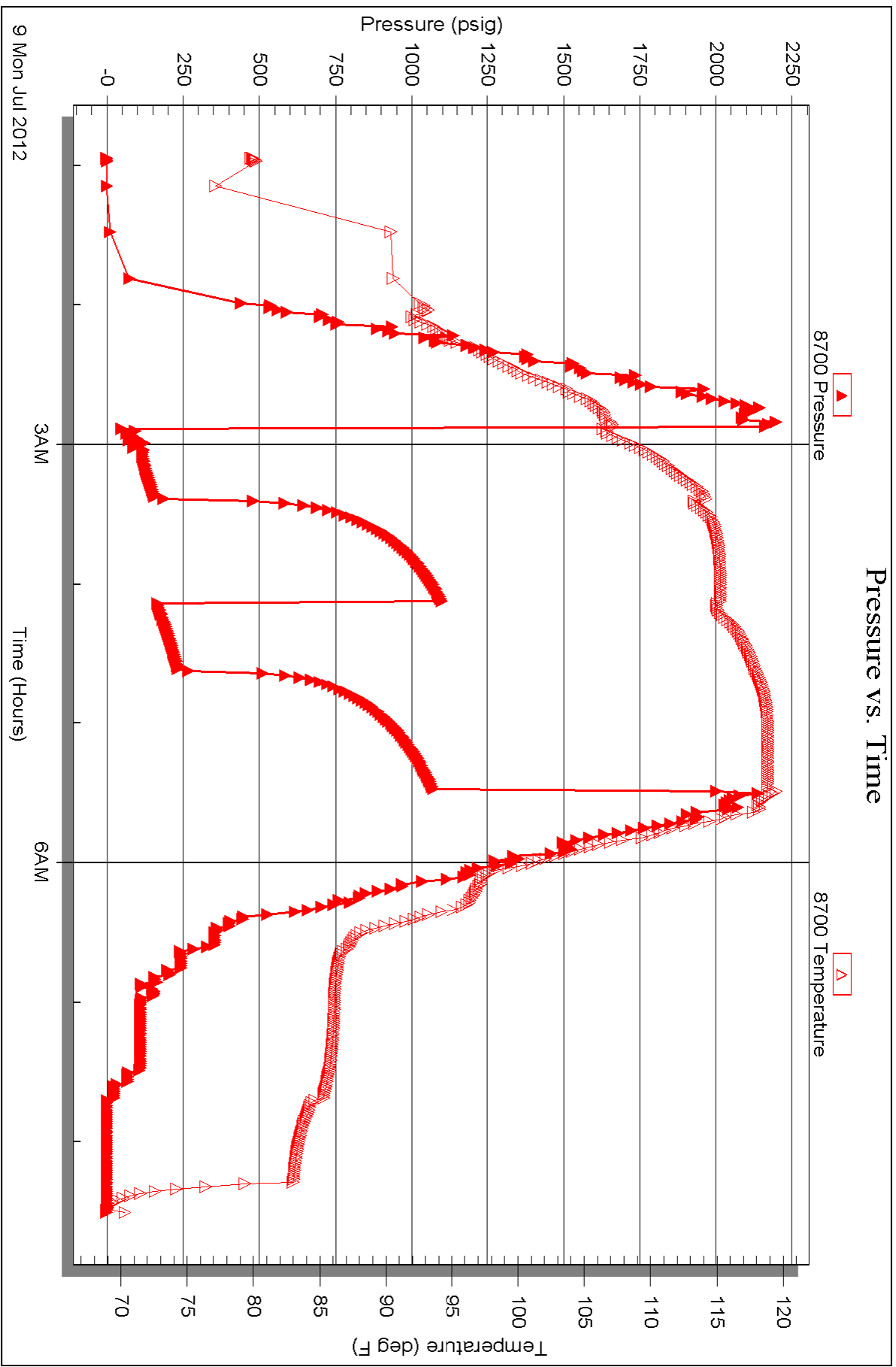
Serial #: 8700

Outside

Dow nting-Nelson Oil Co inc

McCoy #1-29

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47434

Printed: 2012.07.18 @ 09:45:17



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47433

Well Name & No. McCoy #1-29 Test No. 1 Date 7-8-12  
 Company Downing-Nelson Oil Co Inc Elevation 2156 KB 2148 GL  
 Address Po Box 1019 Hays, Ks 67601  
 Co. Rep / Geo. Ron Nelson Rig Discovery rig 4  
 Location: Sec. 29 Twp. 20<sup>s</sup> Rge. 20<sup>w</sup> Co. PAWNEE State Ko

Interval Tested 4266-4302 Zone Tested MISS  
 Anchor Length 36 Drill Pipe Run 4222 Mud Wt. 8.9  
 Top Packer Depth 4261 Drill Collars Run 30 Vis 62  
 Bottom Packer Depth 4266 Wt. Pipe Run - WL 11.2  
 Total Depth 4302 Chlorides 8000 ppm System LCM 2#

Blow Description IFP - WEAK BLOW 1/8" TO SURFACE BLOW  
ISIP - NO BLOW  
FFP - NO BLOW  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 111 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2088  Test 1250 T-On Location 1115  
 (B) First Initial Flow 25  Jars - T-Started 1320  
 (C) First Final Flow 35  Safety Joint - T-Open 1525  
 (D) Initial Shut-In 196  Circ Sub - T-Pulled 1725  
 (E) Second Initial Flow 27  Hourly Standby - T-Out 1904  
 (F) Second Final Flow 43  Mileage 115 RT 178.25  
 (G) Final Shut-In 110  Sampler -  
 (H) Final Hydrostatic 2037  Straddle -  Ruined Shale Packer -  
 Shale Packer -  Ruined Packer -  
 Extra Packer -  Extra Copies -  
 Extra Recorder - Sub Total 0  
 Day Standby - Total 1428.25  
 Accessibility - MP/DST Disc't -  
 Sub Total 1428.25

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER THANK YOU

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

## Test Ticket

NO. 47434

4/10

Well Name & No. McCoy #1-29 Test No. 2 Date 7-8-12  
 Company Downing-Nelson Oil Co Inc Elevation 2156 KB 2148 GL  
 Address PO Box 1019 Hays, Ks 67601  
 Co. Rep / Geo. Ron Nelson Rig Discovery 194  
 Location: Sec. 29 Twp. 20<sup>s</sup> Rge. 20<sup>w</sup> Co. Pawnee State K

Interval Tested 4266-4315 Zone Tested MISS  
 Anchor Length 49 Drill Pipe Run 4227 Mud Wt. 8.9  
 Top Packer Depth 4261 Drill Collars Run 30 Vis 62  
 Bottom Packer Depth 4266 Wt. Pipe Run - WL 11.2  
 Total Depth 4315 Chlorides 8000 ppm System LCM 2#

Blow Description IFP - WEAK TO STRONG IN 6 MIN  
ISIP - 1/4" BLOW BACK  
FFP - WEAK TO STRONG IN 7 MIN  
FSIP - 1/4" BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>405</u>	<u>CO</u>				
<u>250</u>	<u>MGO</u>	<u>20</u>	<u>75</u>		<u>5</u>
<u>340</u>	<u>GIP</u>				

Rec Total 655 BHT 118 Gravity 39 API RW - @ - °F Chlorides - ppm  
 Test 1250  
 Jars  
 Safety Joint  
 Circ Sub  
 Hourly Standby  
 Mileage 178.25  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

T-On Location 2320  
 T-Started 0055  
 T-Open 0250  
 T-Pulled 0520  
 T-Out 0831

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45

Comments  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1428.25  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER Thank you  
 Sub Total 1428.25

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.