



KANSAS CORPORATION COMMISSION 1089751
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

07/02/2012 07/09/2012 07/10/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-145-21676-00-00

Spot Description: _____

NE SE NW SW Sec. 29 Twp. 20 S. R. 20 East West
1740 Feet from North / South Line of Section
1314 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Pawnee

Lease Name: McCoy Well #: 1-29

Field Name: Steffen

Producing Formation: Mississippian

Elevation: Ground: 2148 Kelly Bushing: 2156

Total Depth: 4315 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 1204 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

(Date must be collected from the Reserve Pit)

Chloride content: 19000 ppm Fluid volume: 800 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Downing Nelson Oil Company Inc.

Lease Name: KTM 1-20 License #: 30717

Quarter NE Sec. 20 Twp. 20 S. R. 20 East West

County: Pawnee Permit #: D31184

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 Gontor Date: 09/12/2012



1089751

Operator Name: Downing-Nelson Oil Co Inc Lease Name: McCoy Well #: 1-29
 Sec. 29 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: 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	1204	Common	450	2% Gel & 3% CC
Production string	7.875	5.5	14	4368	EA/2	125	

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: <u>2.375</u> Set At: <u>4289.73</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>08/01/2012</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>15</u>	Gas Mcf <u>0</u>	Water Bbls. <u>10</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 checked="" 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 <i>(Specify)</i> _____	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

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

RON NELSON
 CONSULTING PETROLEUM GEOLOGIST
 3322 LINCOLN DRIVE
 HAYS, KANSAS 67601
 PHONE: 785-628-3449

**GEOLOGIC
 REPORT
 LOG**

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

COMPANY Downing-Nelson Oil Co, Inc
 WELL McCoy #1-29
 FIELD STEFFEN
 LOCATION 1652' ESL & 1314' FUEL
 SEC 29 TWP. 20S RGE 20W
 COUNTY Rawl
 STATE KANSAS

PRODUCTION MISSISSIPPI
 ELEVATION KB 210
 DF
 GL 2153
 Drilling Measured From KB
 Samples Saved From 4200 To: 4200
 Drilling Time From 3600 To: 72
 Samples Examined From 4200 To: 4200
 Geological Supervision From 4200 To Total Depth
 Wellbit Geologist Ron Nelson
 Electrical Surveys Log Tech
DUAL PROSPECT, DUAL INDENTOR
SANIC METER

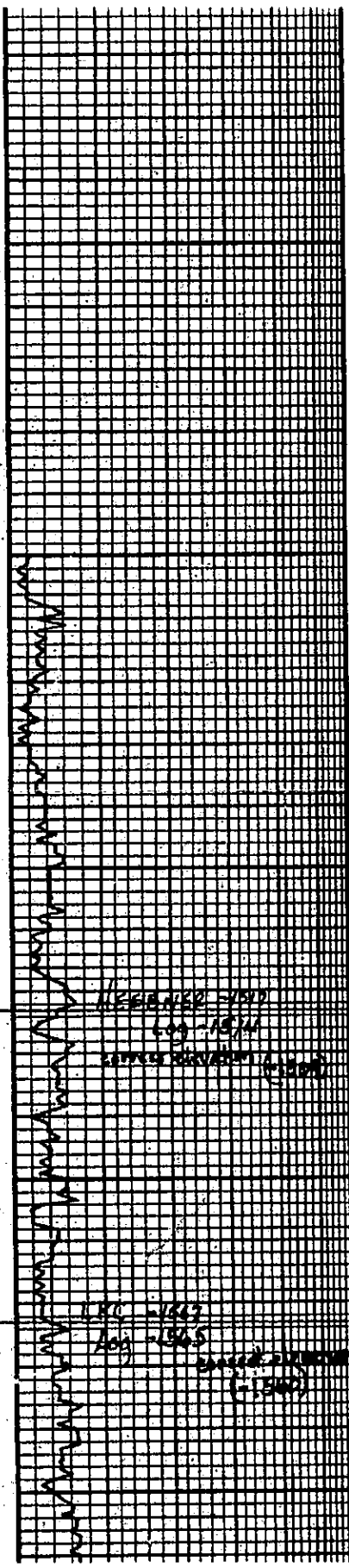
OPERATOR DNOG1
 CONTRACTOR DISCOVERY DRILLING Rig #4
 COMM. 7-2-2012 COMP. 7-9-2012
CASING RECORD
 SURF: 89' @ 1204' PROD: 5 1/2" @ 4306'
 TOTAL DEPTH DRILLERS: 4315
 TOTAL DEPTH LOG: 4313

FORMATION	DEPTH	DESCRIPTION OF SHALE	LOG ANALYSIS

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
TOP ANHYDRITE		1330	+831	+11
BASE ANHYDRITE		1358	+803	+7
HEERER	3673	3670	-1509	+8
L&C	3723	3721	-1560	+7
B&I	4043	4042	-1881	+1
FT SCOTT	4224	4221	-2060	+6
CHESTER SILEX	4242	4240	-2079	+6
MISSISSIPPI	4294	4292	-2131	+7

REFERENCE WELL FOR STRUCTURE DNOG1's McCoy-Peltier #2-29
@ 1200' ESL & 2500' FUEL (457' S & 1240' E)

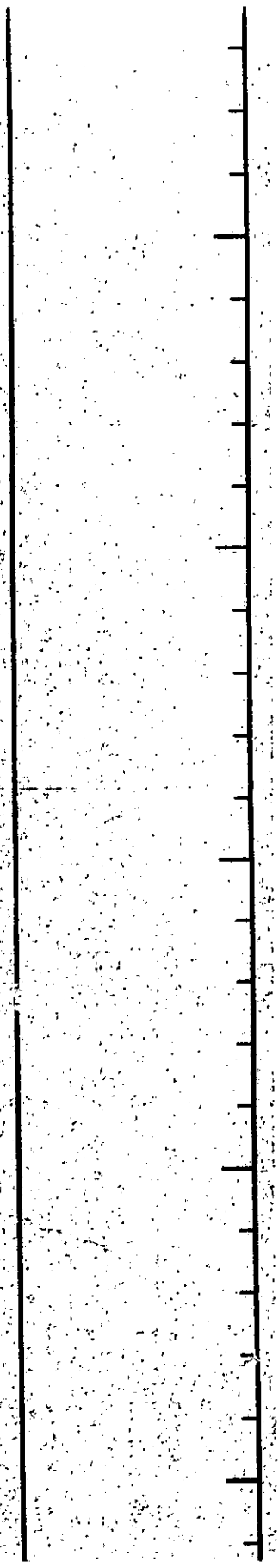
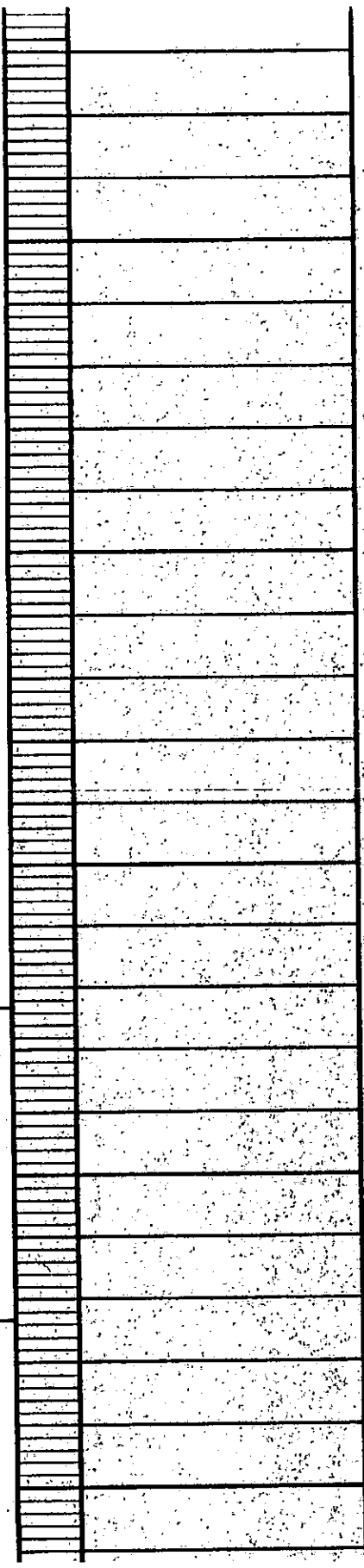


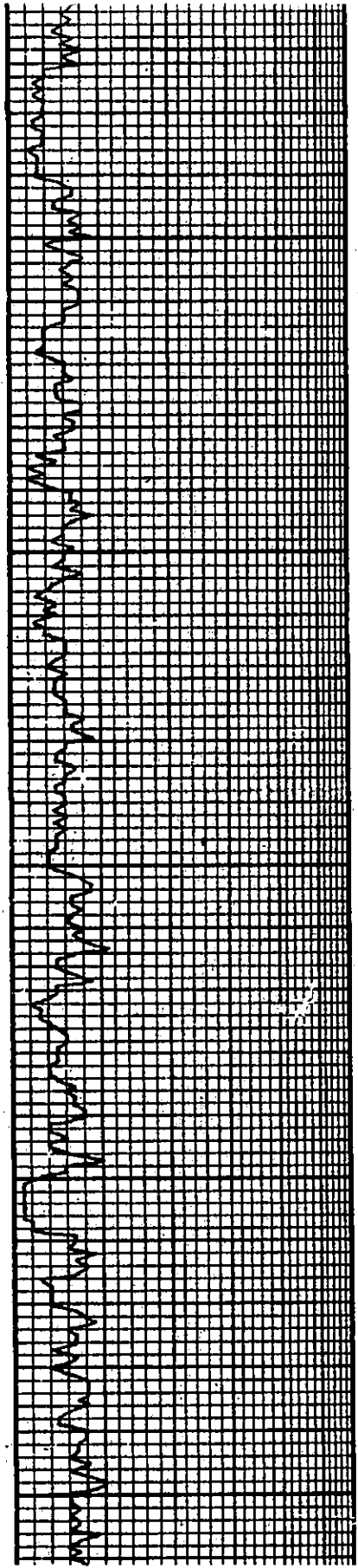
3600

50

3700

50





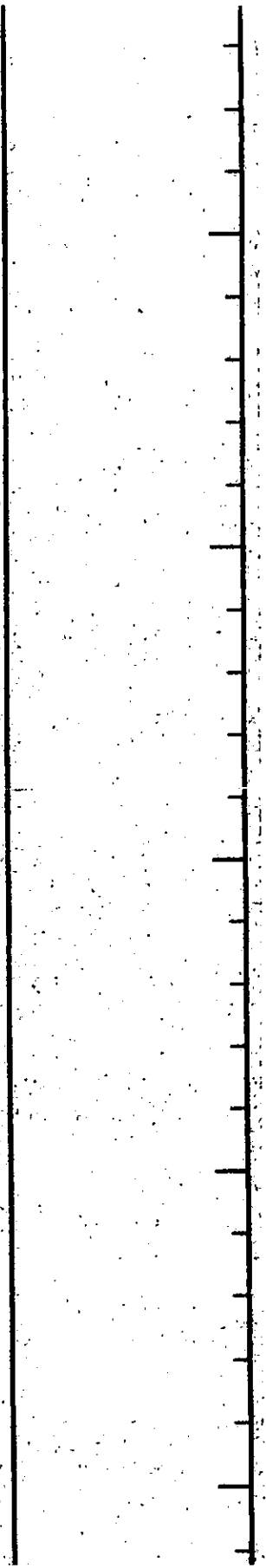
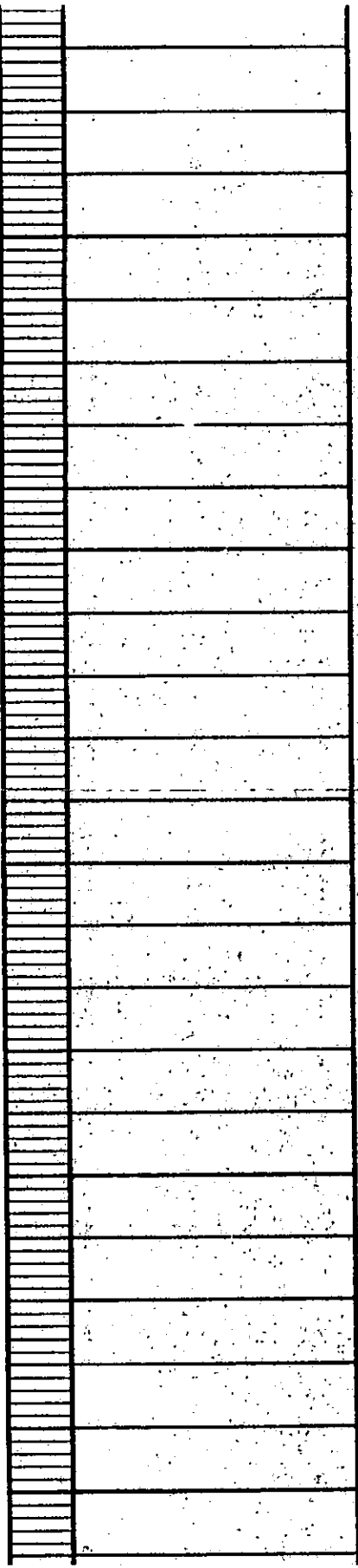
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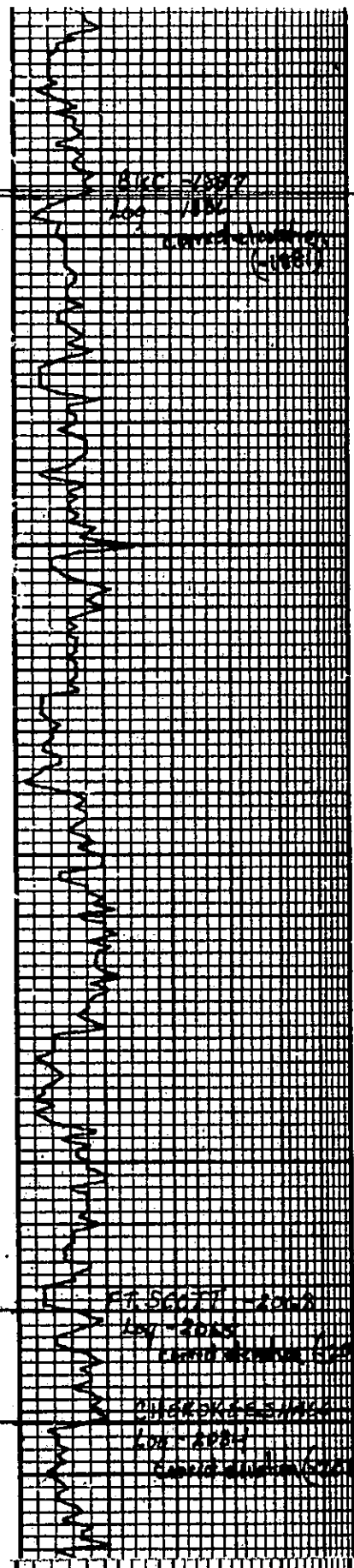
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3900

50

4000





BICE 2083
 2083
 (2083)

50

4100

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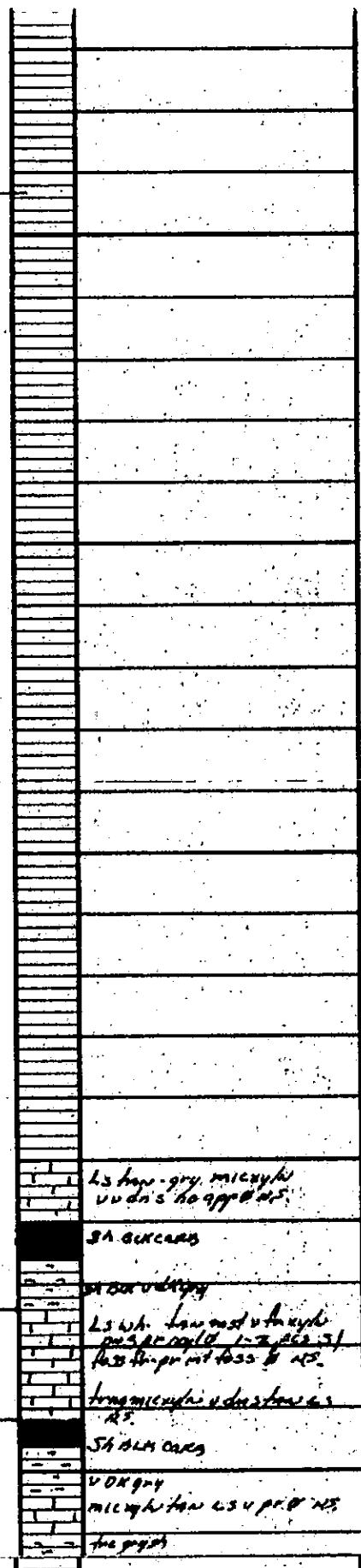
4200

FT SCOTT 2084
 2084
 (2084)

2086

2085
 (2085)

50



Ls tan-gry micayls
 v. d. s. ho app. NS

SA calcars

SA calcars

Ls wh. low micayls
 v. d. s. ho app. NS

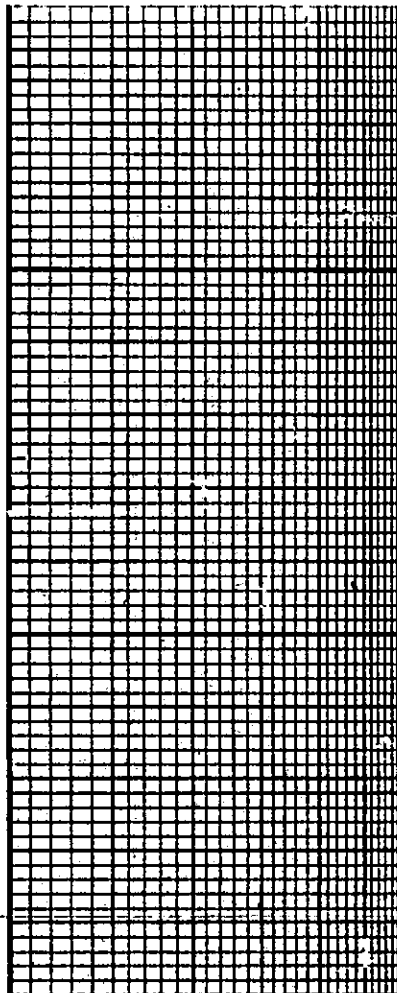
frag micayls v. d. s. ho app. NS

SA calcars

v. d. s. ho app. NS
 micayls tan Ls v. p. NS

the p. NS

2084



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

DEPTH



LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

OPERATOR DNOG1 LOCATION 1652' E36 & 1314' E24
LEASE McCoy #1-29 IP M155 SEC 29 TWP 20 S RNG 20W
ELEVATION 2161' KB RTD 4365' COUNTY Pawnee STATE KANSAS

ALLIED OIL & GAS SERVICES, LLC 053705

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

SERVICE POINT: Great 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>Alexander-13 South</u>		COUNTY <u>Pawnee</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				<u>1/4 west North 10th</u>			

CONTRACTOR O'Scavey 4

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 1205

CASING SIZE 8 1/2 DEPTH 1204

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 700 MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 42.85

PERFS.

DISPLACEMENT 74 BBLs

OWNER

CEMENT

AMOUNT ORDERED 4505x class A
+3%br +2%60

EQUIPMENT

PUMP TRUCK CEMENTER Wayne
#398 HELPER Ucavy

BULK TRUCK
#344/170 DRIVER MaLin

BULK TRUCK
DRIVER

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>486.50</u>	@ <u>2.10</u>	<u>1021.25</u>
MILEAGE	<u>22.2 x 42x</u>	@ <u>2.35</u>	<u>2,191.22</u>
TOTAL			<u>11,647.95</u>

REMARKS:

Pipe on Bottom Break circulate
with Rimud
Run 8 BBLs Ahead
Mix 4505x class A +3% +2%60
Release Plug Displace BBLs
Flush water band Plug + 2%60
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>11.0 M 42</u>	@ <u>7.00</u>	<u>294.00</u>
MANIFOLD		@	
	<u>1.0 M 42</u>	@ <u>4.00</u>	<u>168.00</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 14,317.75

DISCOUNT 25% 3,579.73 IF PAID IN 30 DAYS

10,738.02

PRINTED NAME _____

SIGNATURE Michael Russell

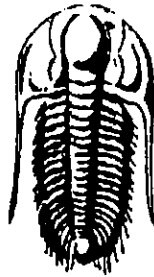
JOB LOG

SWIFT Services, Inc.

DATE 7-9-12 PAGE NO. 7

CUSTOMER *Dawson & Nelson* WELL NO. *1-29* LEASE *McCoy* JOB TYPE *Cement Logistics* TICKET NO. *22810*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
<i>7/9</i>	<i>0315</i> <i>0330</i>							<i>TO 7315'</i> <i>On location w/ Fleet Pump</i> <i>Start 5 1/2" 14' Ht Casing to 4306'</i> <i>PKR Shoe on Bottom - LID Baffle - SS 70' @ 9286'</i> <i>Cent 1-3-5-7-9-11 - Basket #4 Fin</i>
<i>7/10</i>	<i>0100</i> <i>0200</i> <i>0245</i> <i>0315</i>							<i>Circulate 20' Down to connection</i> <i>Circulate 10' Down to Bottom</i> <i>Tag bottom & circ</i> <i>Drop PKR Shoe Ball</i> <i>Plug RH / MH 30/20</i>
	<i>0330</i>	<i>6</i>	<i>7 5</i> <i>12</i>			<i>1500</i>		<i>set PKR shoe w/ TKS - mud flush</i>
		<i>10</i>	<i>20</i>			<i>250</i>		<i>Pump @ 881 KLL Flush</i>
		<i>4</i>				<i>200</i>		<i>start 175 SKS EM-2 down hole</i>
			<i>36</i>			<i>100</i>		<i>Fin cut - Wash out Pump Lines</i>
		<i>8</i>				<i>300</i>		<i>Drop L.D. Plug -</i>
		<i>8</i>	<i>75</i>			<i>400</i>		<i>Start Displ</i>
		<i>10</i>				<i>600</i>		<i>Complete PSI-LIP @ 75081</i>
<i>0400</i>						<i>800</i>		<i>slow rate @ 90 881</i>
						<i>600</i>		<i>Plug Down - Hold - Release & Hold</i>
								<i>Job Complete</i> <i>Wakeup & Pickup</i>
<i>0430</i>								<i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i>



**TRILOBITE
TESTING, INC.**

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

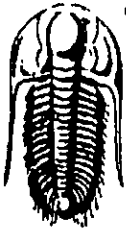
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.18 @ 09:46:00

Downing-Nelson Oil Co Inc
29-20s-20w Pawnee,KS
McCoy #1-29
DST # 1
Miss
2012.07.08



**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)**

Total Depth: **4302.00 ft (KB) (TVD)**

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

Reference Elevations: **2156.00 ft (KB)**

2148.00 ft (CF)

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

Serial #: 6625

Inside

Press@RunDepth: **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**

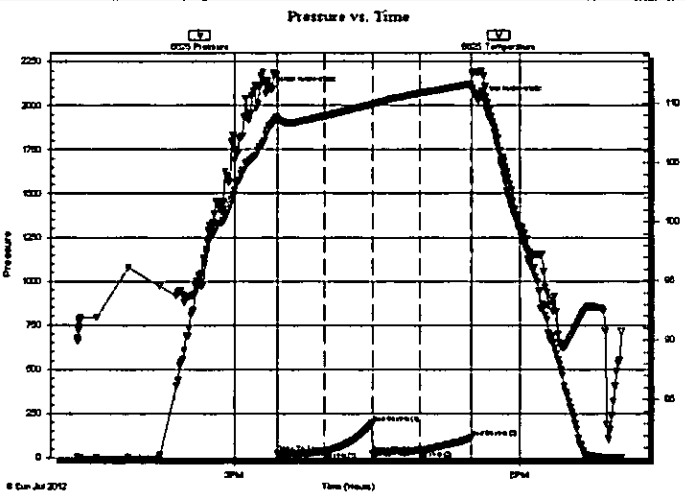
Time Off Btm: **2012.07.08 @ 17:33:31**

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 SUMMARY

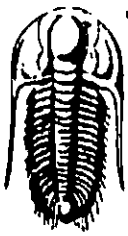
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.28	108.26	Initial Hydro-static
4	25.53	108.56	Open To Flow (1)
34	35.91	108.95	Shut-In(1)
64	196.27	109.89	End Shut-In(1)
64	27.10	109.88	Open To Flow (2)
94	43.74	110.83	Shut-In(2)
126	110.69	111.61	End Shut-In(2)
130	2037.62	112.68	Final Hydro-static

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:

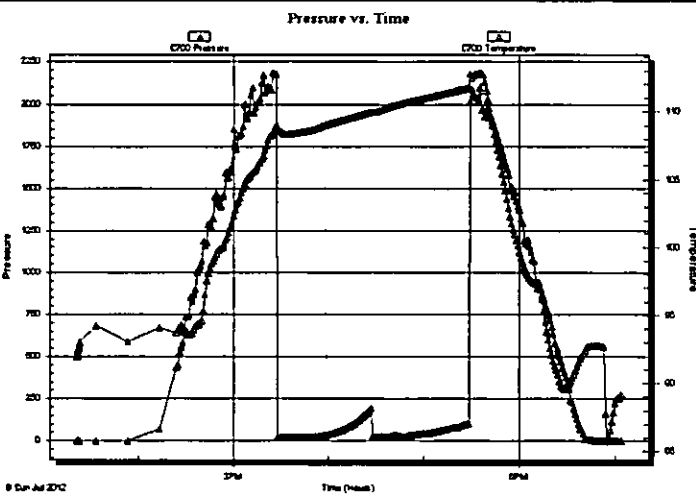
Formation: **Miss**
 Deviated: **No Whipstock: ft (KB)**
 Time Tool Opened: 15:27:31
 Time Test Ended: 19:04:30
 Interval: **4266.00 ft (KB) To 4302.00 ft (KB) (TVD)**
 Total Depth: **4302.00 ft (KB) (TVD)**
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**

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)**
 Start Date: **2012.07.08** End Date: **2012.07.08**
 Start Time: **13:21:36** End Time: **19:04:00**

Capacity: **8000.00 psig**
 Last Calib.: **2012.07.08**
 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 SUMMARY

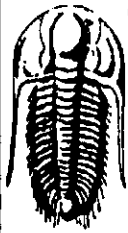
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

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

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/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

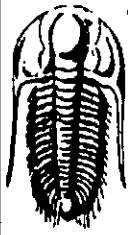
Tool Information

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

Downing-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: bbl		
Water Loss: 11.12 in ³	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

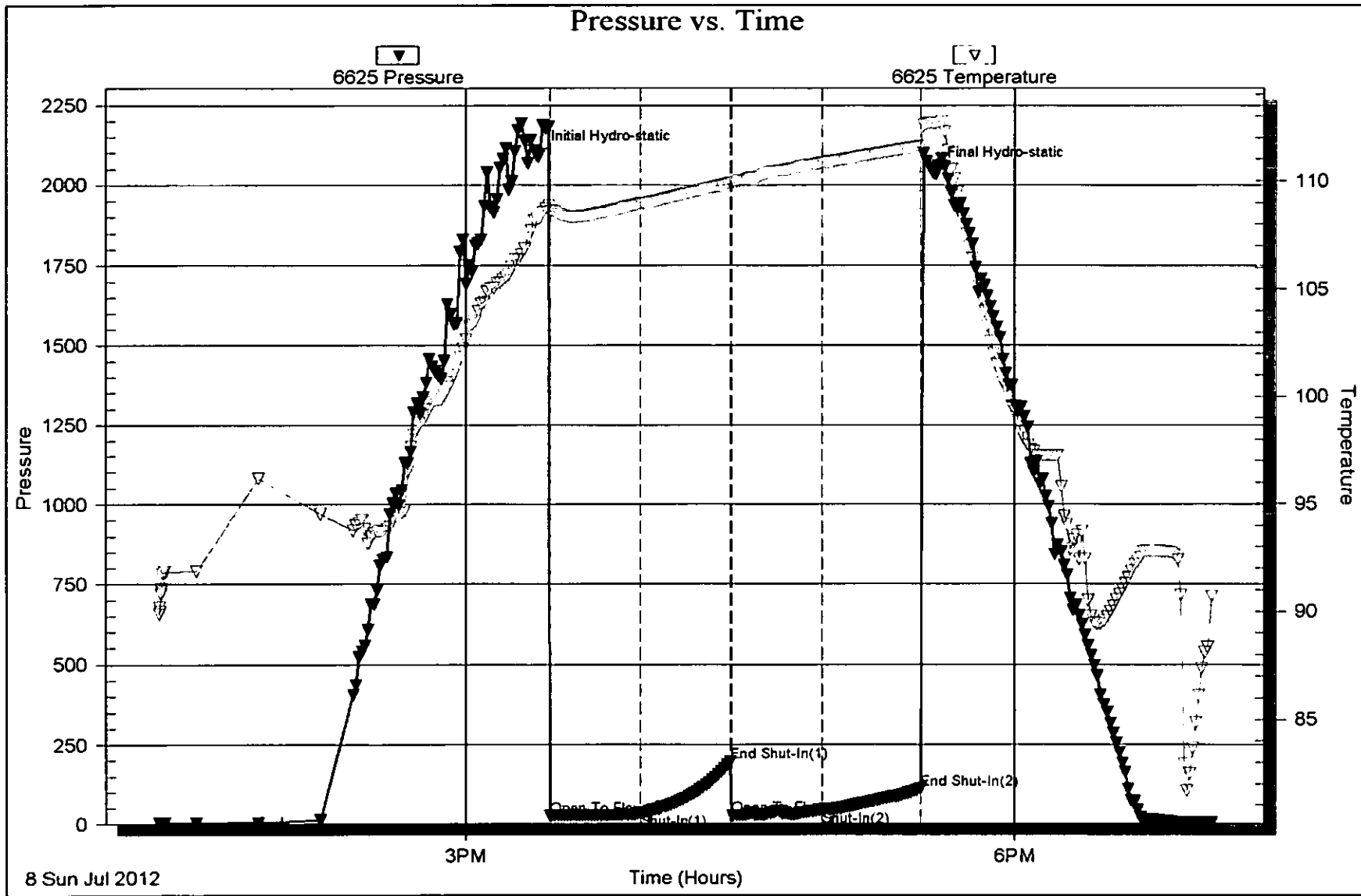
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

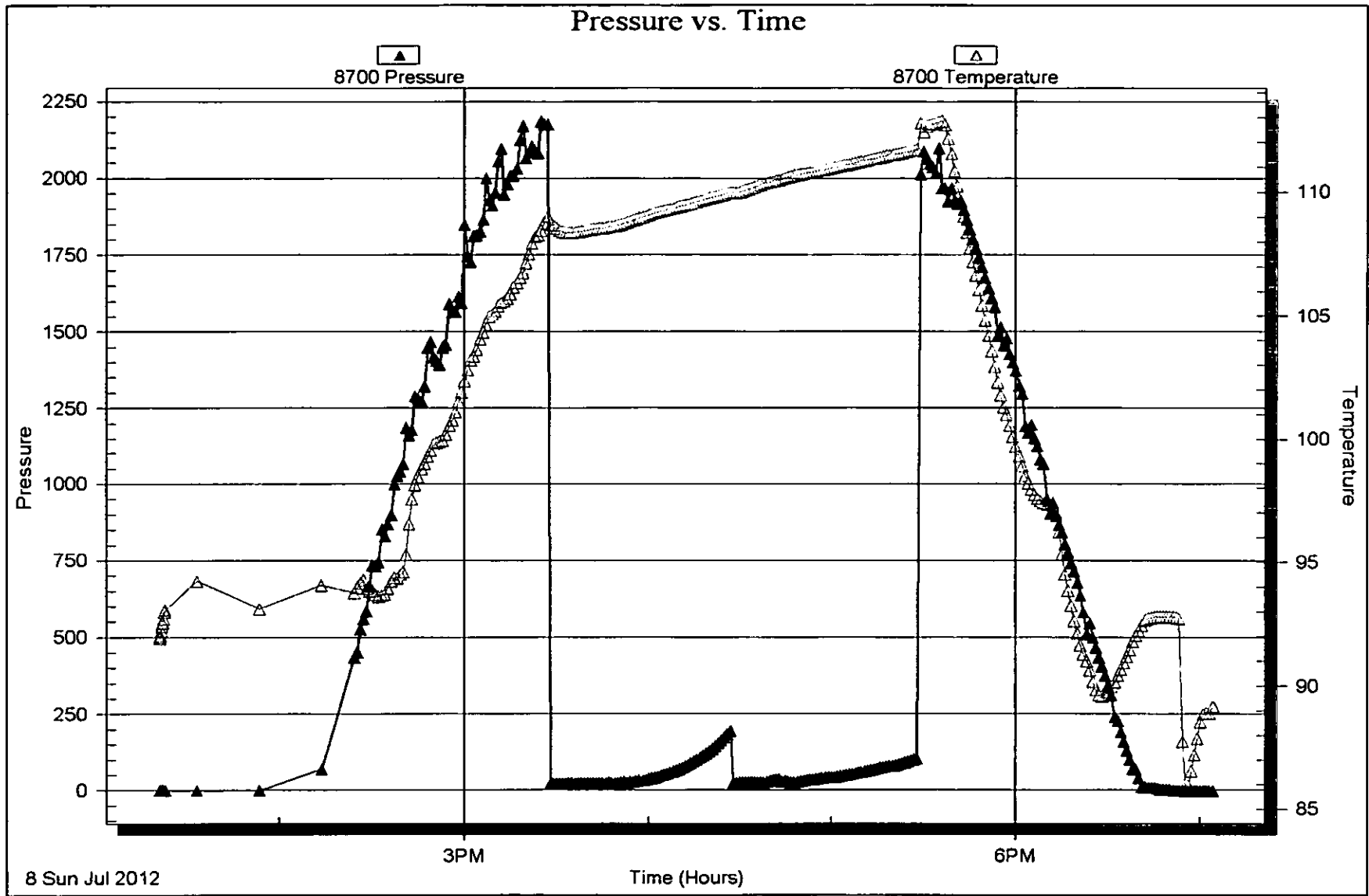


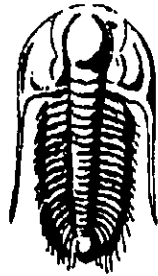
Serial #: 8700

Outside Downing-Nelson Oil Co inc

McCoy #1-29

DST Test Number: 1





TRILOBITE
TESTING, INC.

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

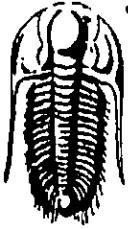
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.18 @ 09:45:15

Downing-Nelson Oil Co inc
29-20s-20w Pawnee,KS
McCoy #1-29
DST # 2
Miss
2012.07.09



**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

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

Tester: **Ray Schwager**

Unit No: **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**

Reference Elevations: **2156.00 ft (KB)**

2148.00 ft (CF)

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

Serial #: **6625**

Inside

Press@RunDepth: **241.75 psig @ 4279.00 ft (KB)**

Start Date: **2012.07.09**

End Date:

2012.07.09

Start Time: **00:55:48**

End Time:

08:31:42

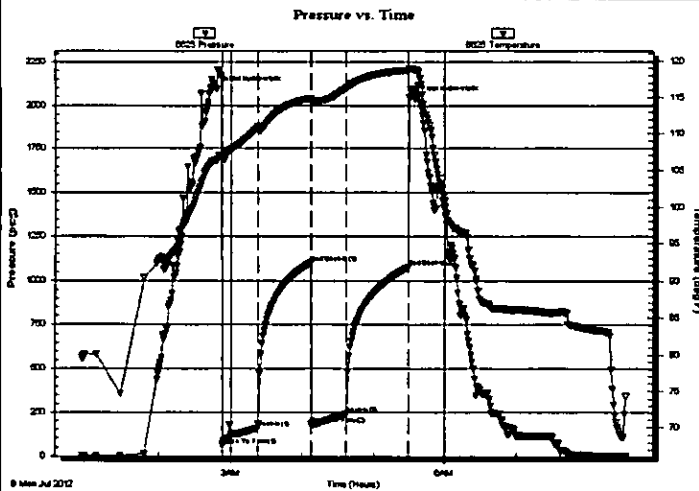
Capacity: **8000.00 psig**

Last Calib.: **2012.07.09**

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

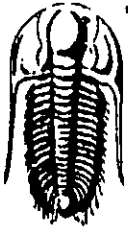
Recovery

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)

Time Tool Opened: 02:53:13

Time Test Ended: 08:31:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 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

Reference Elevations: 2156.00 ft (KB)

2148.00 ft (CF)

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

Capacity:

8000.00 psig

Start Time: 00:56:48

End Time:

08:30:42

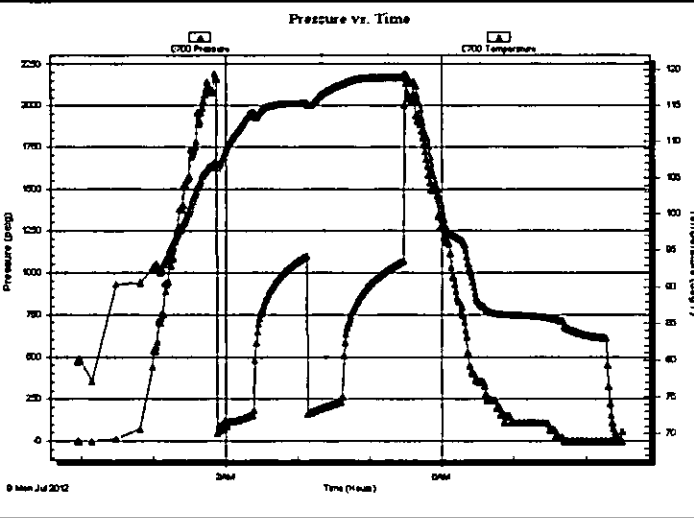
Last Calib.:

2012.07.09

Time On Btrn

Time Off Btrn

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 (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

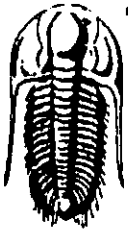
Recovery

Length (ft)	Description	Volume (tbl)
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 (Mc/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: 47434

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.07.09 @ 00:55:48

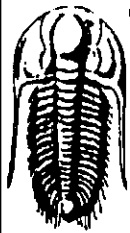
Tool Information

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 betw een 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
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 in³

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

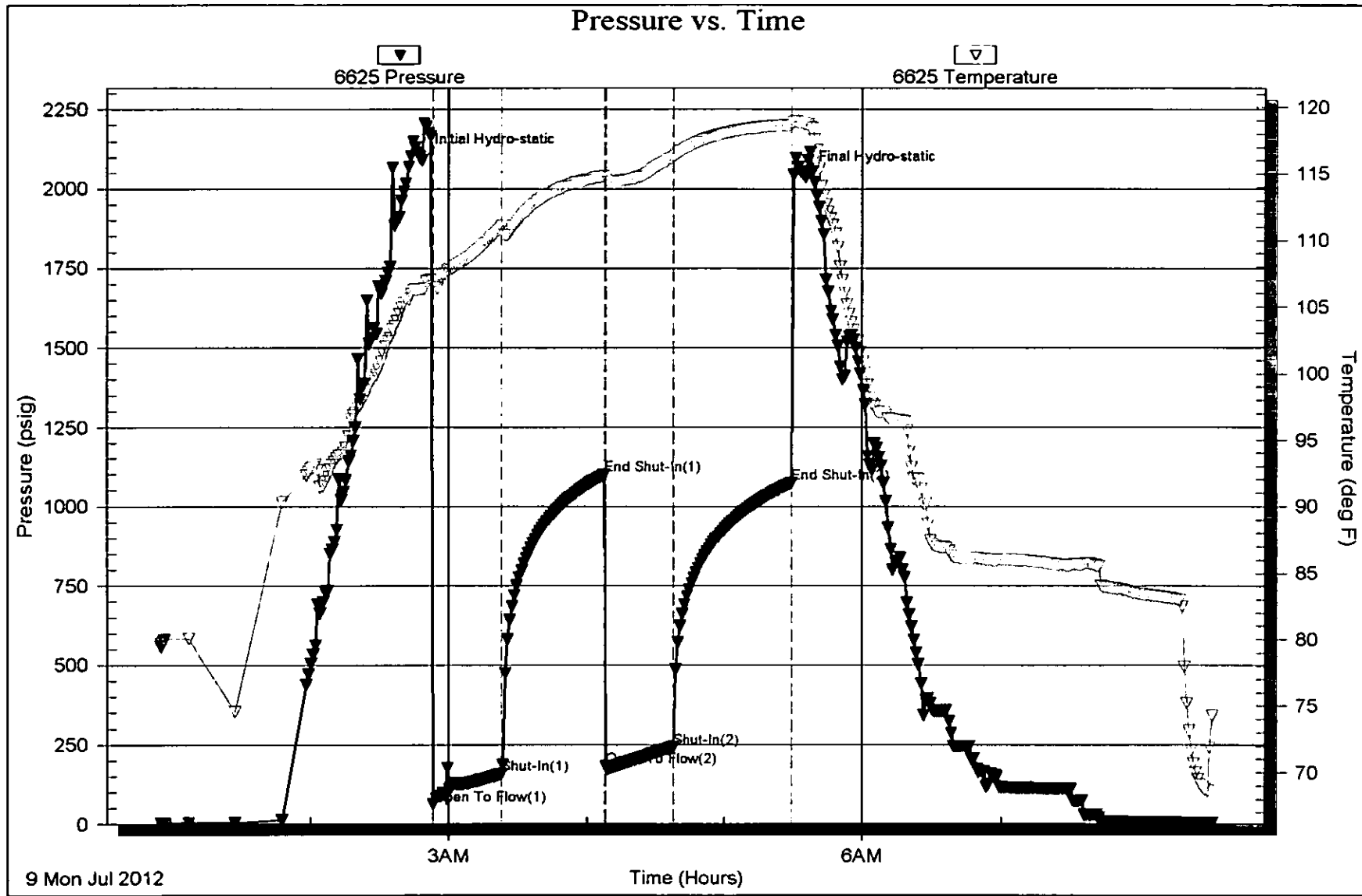
Num Gas Bombs: 0

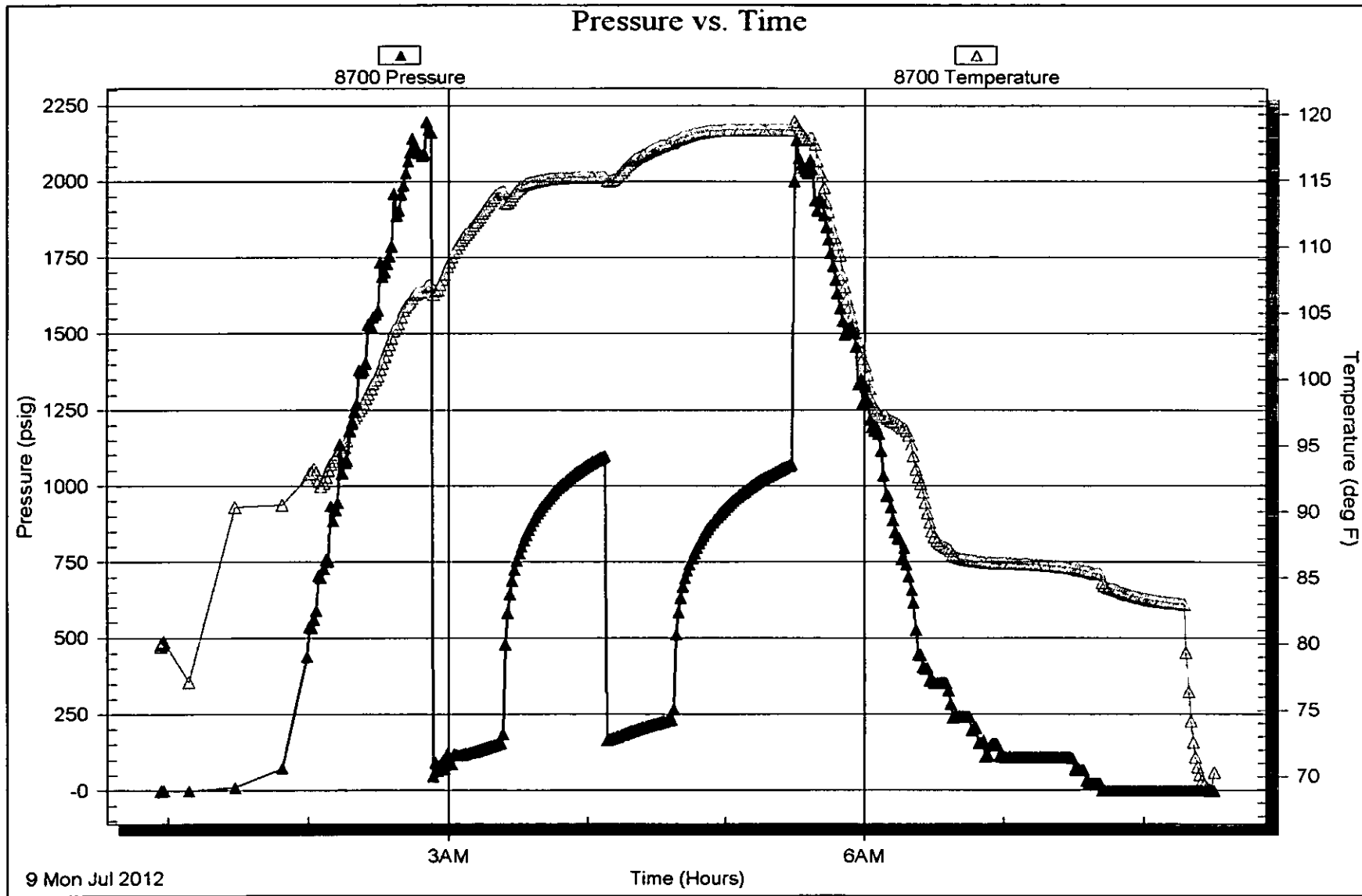
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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, Ko 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery rig 4
 Location: Sec. 29 Twp. 20^s Rge. 20^w Co. PAWAP State Ko

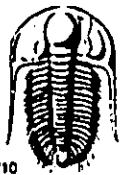
Interval Tested 4266-4302 Zone Tested MISS
 Anchor Length 36 Drill Pipe Run 4222 Mud Wt. 8.9
 Top Packer Depth 4261 Drill Collars Run 30 Vis 62
 Bottom Packer Depth 4266 Wl. Pipe Run - WL 11.2
 Total Depth 4302 Chlorides 8000 ppm System LCM 2[#]
 Blow Description IFP - Weak Blow 1/8" To surface Blow
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 Total 5 BHT 111 Gravity - API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 2088 Test 1115 T-On Location
 (B) First Initial Flow 25 Jars 1320 T-Started
 (C) First Final Flow 35 Safety Joint 1525 T-Open
 (D) Initial Shut-In 196 Circ Sub 1725 T-Pulled
 (E) Second Initial Flow 27 Hourly Standby 1904 T-Out
 (F) Second Final Flow 43 Mileage 115 RT 178.25 Comments
 (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

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

Approved By _____ Our Representative Ray Swager Thank you
 Trilobite Testing Inc. shall not be liable for damaged or 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

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, Ko 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery 194
 Location: Sec. 29 Twp. 20^s Rge. 20^w Co. Pawnee State Ko

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 6.2
 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
FSTIP - 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
 (A) Initial Hydrostatic 2090 Test 2320 T-On Location
 (B) First Initial Flow 61 Jars 0055 T-Started
 (C) First Final Flow 158 Safety Joint 0250 T-Open
 (D) Initial Shut-In 1099 Circ Sub 0520 T-Pulled
 (E) Second Initial Flow 181 Hourly Standby 0831 T-Out
 (F) Second Final Flow 241 Mileage 178.25 Comments
 (G) Final Shut-In 1073 Sampler
 (H) Final Hydrostatic 2036 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'l

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45
 Sub Total 1428.25

Approved By _____ Our Representative RAY SCHWAGER THANK YOU

Trilobite Testing Inc. shall not be liable for damaged or 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, tool's lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.