



KANSAS CORPORATION COMMISSION 1052279
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 + 0372
Contact Person: Michele Meier
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Alan Downing
Purchaser: None

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>02/11/2011</u>	<u>02/16/2011</u>	<u>02/17/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22667-00-00

Spot Description: _____
SE NW SE SW Sec. 26 Twp. 13 S. R. 21 East West
900 Feet from North / South Line of Section
1,890 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Trego
Lease Name: RIEDEL FAMILY 'A' Well #: 1-26
Field Name: Wildcat

Producing Formation: None

Elevation: Ground: 2333 Kelly Bushing: 2341

Total Depth: 4120 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 223 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ 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: 16000 ppm Fluid volume: 240 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: 02/16/2011



1052279

Operator Name: Downing-Nelson Oil Co Inc Lease Name: RIEDEL FAMILY 'A' Well #: 1-26
Sec. 26 Twp. 13 S. R. 21 East West County: Trego

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

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12.25	8.625	23	222.62	Common	150	2% Gel & 3% CC

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> <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	RIEDEL FAMILY 'A' 1-26
Doc ID	1052279

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density/Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	RIEDEL FAMILY 'A' 1-26
Doc ID	1052279

Tops

Top Anhydrite	1690	+652
Base Anhydrite	1732	+610
Topeka	3392	-1050
Heebner	3626	-1284
Toronto	3644	-1302
LKC	3664	-1323
BKC	3908	-1566
Marmaton	3986	-1644
Arbuckel	4040	-1698

ALLIED CEMENTING CO., LLC. 034107

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

SERVICE POINT:
Russell Ks.

DATE <u>2-17-2011</u>	SEC. <u>26</u>	TWP. <u>13</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30 PM</u>	JOB FINISH <u>11:00 PM</u>
LEASE <u>Reidel Family</u>	WELL# <u>A-1-26</u>		LOCATION <u>Ellis Ks. Rig 1-70 Exit</u>		COUNTY <u>Trego</u>	STATE <u>KANSAS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>6 South 1/2 E 9/4 N INTD</u>				

CONTRACTOR Discovery Delco Rig #3
 TYPE OF JOB Rotary Plug
 HOLE SIZE 7 7/8 T.D. 4120'
 CASING SIZE 8 5/8 Surface DEPTH 222'
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 x-H DEPTH 4016
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER
 CEMENT
 AMOUNT ORDERED 245 sx 60/40 480 GEL
Y4# FlO-Seal
PER SX

COMMON	<u>147</u>	@	<u>13.50</u>	<u>1984.50</u>
POZMIX	<u>98</u>	@	<u>7.55</u>	<u>739.90</u>
GEL	<u>8</u>	@	<u>20.25</u>	<u>162.00</u>
CHLORIDE		@		
ASC		@		
		@		
	<u>Fl. Seal 61#</u>	@	<u>2.45</u>	<u>149.45</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>245</u>	@	<u>2.25</u>	<u>551.25</u>
MILEAGE	<u>110/sk/mile</u>			<u>318.50</u>
TOTAL				<u>3905.60</u>

EQUIPMENT

PUMP TRUCK CEMENTER Glenn
 # 398 HELPER Woody
 BULK TRUCK
 # 481 DRIVER Tony
 BULK TRUCK
 # DRIVER

REMARKS:

25 SX @ 4016
25 SX @ 1700
100 SX @ 930
40 SX @ 270
10 SX @ 40' d wiper Plug
15 SX @ mousehole
30 SX @ Rathole

THANKS

SERVICE

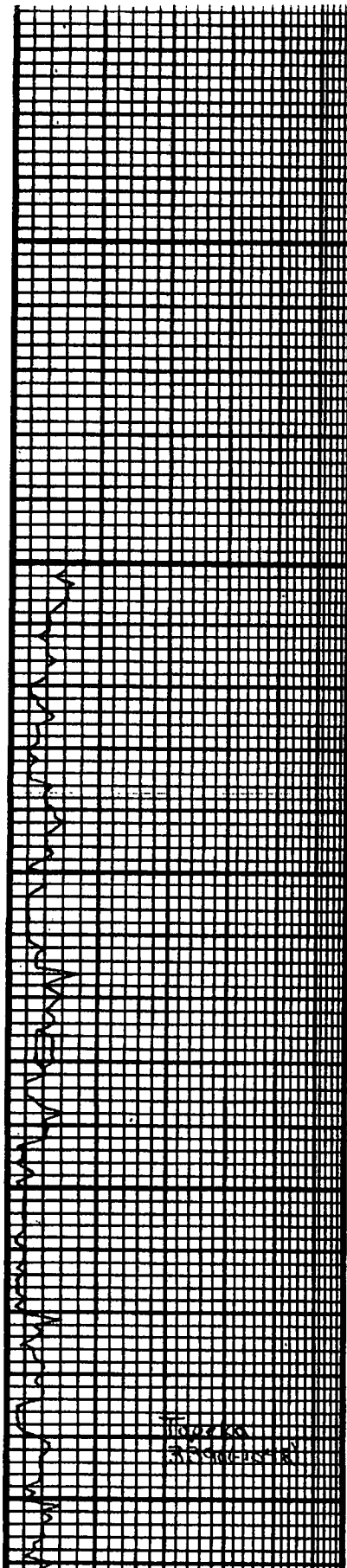
DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>991.00</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>13</u>	@	<u>7.00</u> <u>91.00</u>
MANIFOLD	@		
	@		
	@		
TOTAL <u>1082.00</u>			

CHARGE TO: Downing & Nelson Oil Co
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>8 5/8 wiper plug</u>			<u>N-C</u>
	@		
	@		
	@		
	@		

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

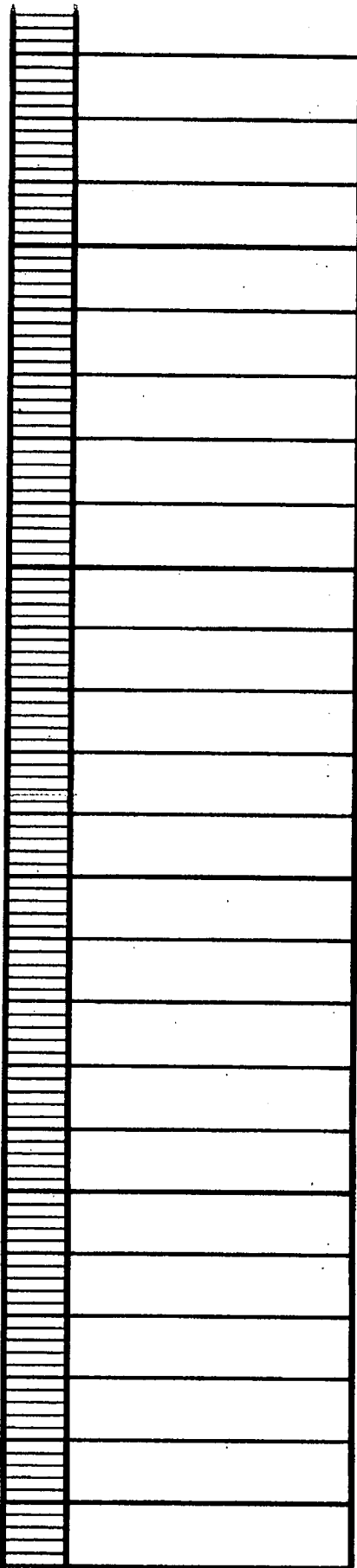


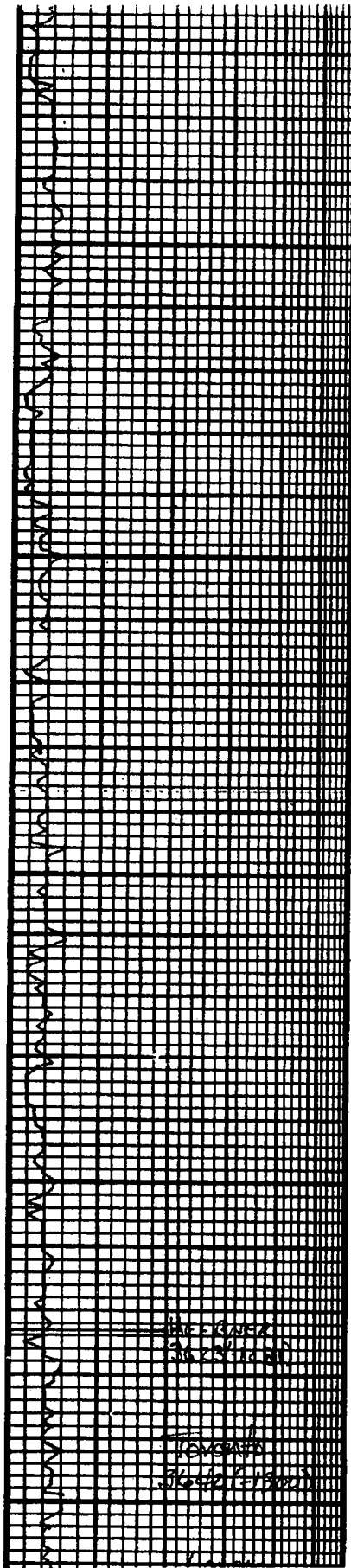
3250

3300

50

3400





56

3500

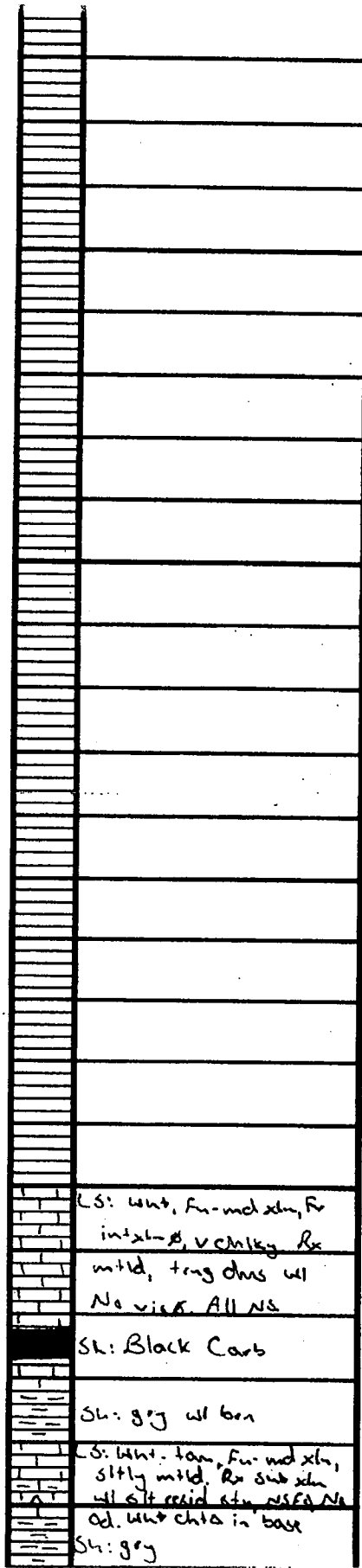
56

3600

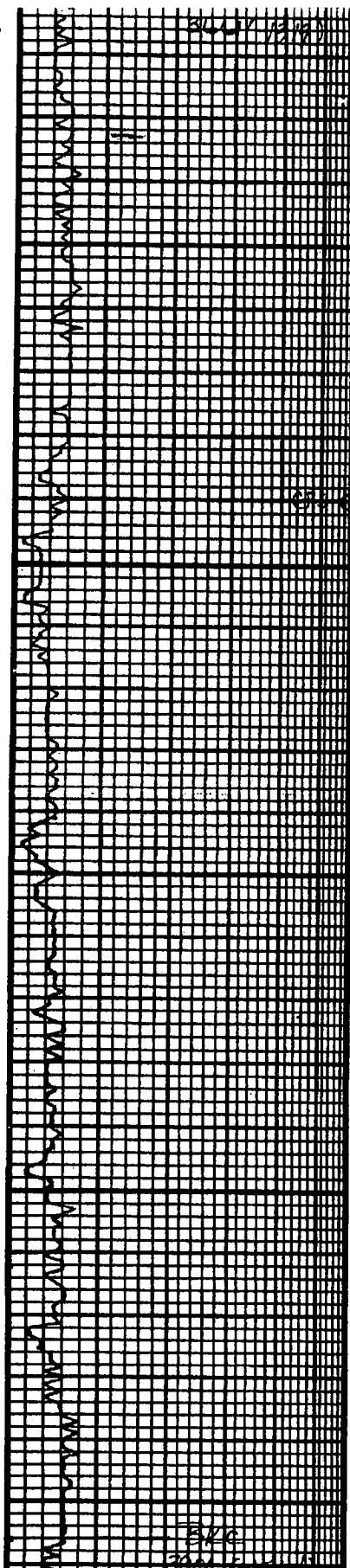
3625 (1500)

3650 (1500)

50



V/S 72
101.



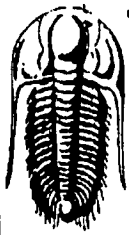
	sh - chky, friable, NS
	LS: wnt - tan, Fr xln, No v. sct chky
	Fr - All NS, Fass in base.
	sh: drk gr
3700	LS: wnt, md - crs xln, many Fass w/ sct onl. Fr
	Int Fass as sm l vugs, sub xln in pt. fr - Fr hug str, rove sfg, fnt ad.
	sh: gr
	LS: wnt, Fr xln, sub xln. Fr - 2 acc w/ resid sfg
	NSFO, No ad. Tang v. Fr xln + dms.
	sh: drk gr
	LS: wnt, md xln, Fass. Fr w/ Fass & w/ fr bon str, pr sfg. Fr wnt chky, Fr ad.
50	LS: wnt - Lt. Tan Fr w/ good ooc of v. lt. sfg. No odor - Hwy orl
	LS: wnt - Lt. Tan Fr - subsh all v. chky - wash wnt
	sh: v. dark gm - Black
3900	LS: Crm - Lt. Tan Fr - subsh all v. chky w/ some tan sct xln show.
	sh: gm
	LS: Tan Fr, v. finely ool w/ fr. ool of NSFO - v. lt. Fr - subsh No odor - some chky oolitic
	sh: gm - v. silt-y
50	LS: Tan Fr w/ Fr. dd - intnd
	LS: Tan Fr - v. An all v. dse No show fav. Dec. wnt clv A.
	sh: gm - Brown
	LS: Bone wnt An. good ooc of v. spt sfg NSFO - chky to subsh in pt.
	LS: wnt Fr - v. An all v. dse w/ sct wnt & oent.
3900	sh: Red - Brown a

W 7.6

DST #1
3683 - 3740
45 - 45 - 45 - 45
Rec:
85' mud

ITD: 1794#
IFD: 34-58#
FFD: 62-68#
SID: 484-438#
FAD: 1756#

Vis 50
Wt 9.1
W 8.6



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

DNOC
PO Box 372
Hays, Ks
67601
ATTN: Marc Downing

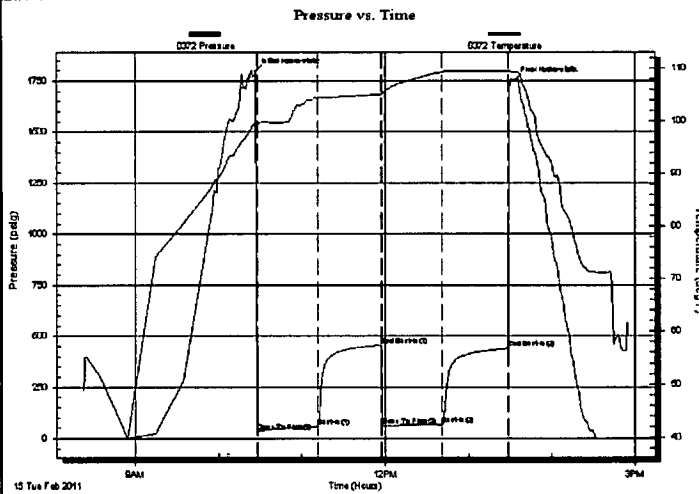
Riedel Family A 1-26
26-13-21/Trego
Job Ticket: 41780 **DST#: 1**
Test Start: 2011.02.15 @ 08:22:32

GENERAL INFORMATION:

Formation: **LKC "C-E"**
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
Time Tool Opened: **10:27:31** Tester: **Brian Fairbank**
Time Test Ended: **14:54:31** Unit No: **41**
Interval: **3683.00 ft (KB) To 3740.00 ft (KB) (TVD)** Reference Elevations: **2342.00 ft (KB)**
Total Depth: **3740.00 ft (KB) (TVD)** **2334.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **KB to GR/CF: 8.00 ft**

Serial #: 8372 **Inside**
Press@RunDepth: **68.42 psig @ 3690.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2011.02.15** End Date: **2011.02.15** Last Calib.: **2011.02.15**
Start Time: **08:22:32** End Time: **14:54:31** Time On Btm: **2011.02.15 @ 10:26:31**
Time Off Btm: **2011.02.15 @ 13:32:31**

TEST COMMENT: IFP - weak to fair blow 1/2" - 3 1/2"
ISI - no blow back
FFP - weak blow throughout sur - 2"
FSI - no blow back



PRESSURE SUMMARY

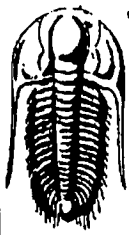
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.28	99.84	Initial Hydro-static
1	34.06	99.49	Open To Flow (1)
45	57.98	104.40	Shut-In(1)
91	454.30	105.12	End Shut-In(1)
91	61.52	105.22	Open To Flow (2)
135	68.42	109.26	Shut-In(2)
182	438.20	109.42	End Shut-In(2)
186	1750.25	109.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	mud 100%	0.90

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Riedel Family A 1-26

PO Box 372

26-13-21/Trego

Hays, Ks

Job Ticket: 41780

DST#: 1

67601

Test Start: 2011.02.15 @ 08:22:32

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:

ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 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
85.00	mud 100%	0.901

Total Length: 85.00 ft

Total Volume: 0.901 bbl

Num Fluid Samples: 0

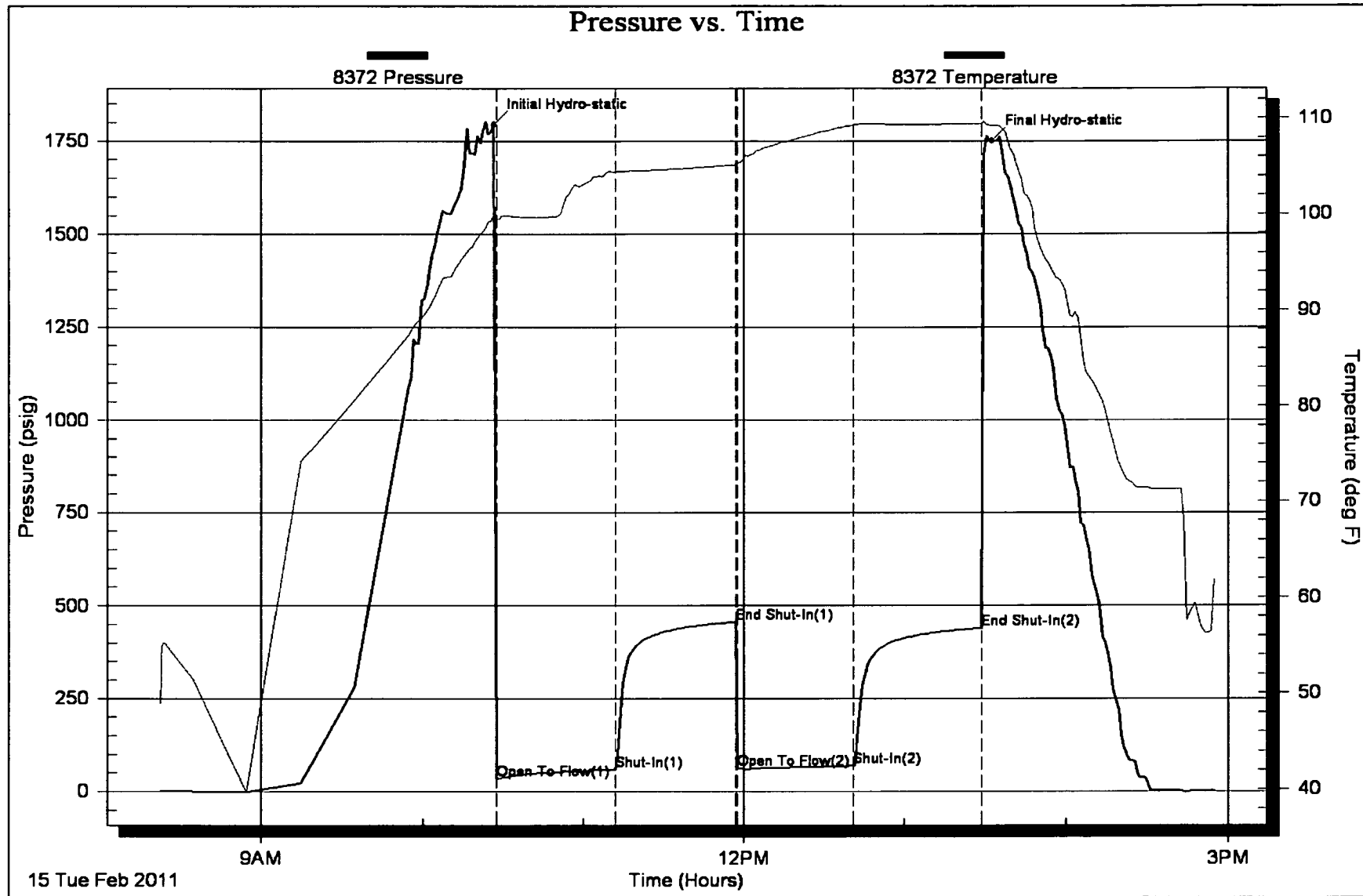
Num Gas Bombs: 0

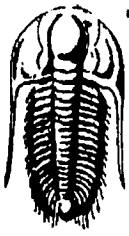
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

DNOC

Riedel Family A 1-26

PO Box 372

26-13-21/Trego

Hays, Ks

Job Ticket: 41781

DST#: 2

67601

Test Start: 2011.02.16 @ 08:00:33

ATTN: Marc Downing

GENERAL INFORMATION:

Formation: **Marmaton**

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

Time Tool Opened: 10:04:02

Time Test Ended: 14:10:02

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3969.00 ft (KB) To 4025.00 ft (KB) (TVD)**

Reference Elevations: **2342.00 ft (KB)**

Total Depth: **4025.00 ft (KB) (TVD)**

2334.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8372

Inside

Press@RunDepth: **53.20 psig @ 3974.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.02.16**

End Date:

2011.02.16

Last Calib.: **2011.02.16**

Start Time: **08:00:33**

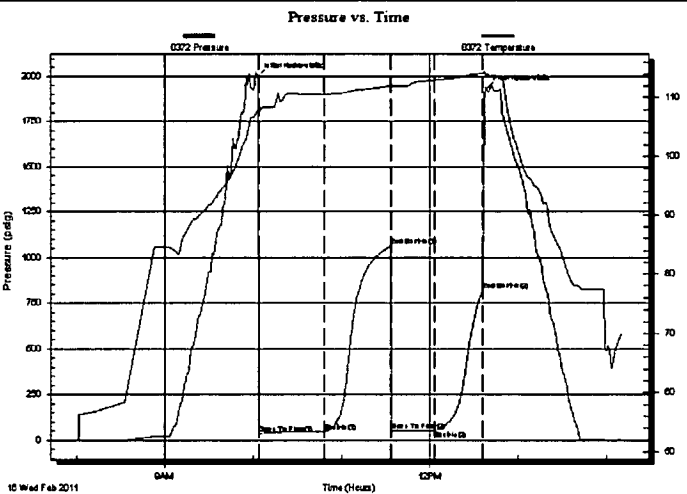
End Time:

14:10:02

Time On Btm: **2011.02.16 @ 10:03:02**

Time Off Btm: **2011.02.16 @ 12:38:32**

TEST COMMENT: IFP - weak blow throughout 1/4" - 1 1/2"
ISI - no blow back
FFP - weak blow throughout sur - 3/4"
FSI - no blow back



PRESSURE SUMMARY

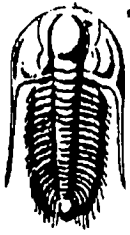
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.19	108.03	Initial Hydro-static
1	37.88	107.46	Open To Flow (1)
45	47.55	110.56	Shut-In(1)
90	1062.24	112.02	End Shut-In(1)
91	52.48	111.95	Open To Flow (2)
121	53.20	113.08	Shut-In(2)
153	818.52	114.19	End Shut-In(2)
156	1928.27	113.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
21.00	OCM 10%O, 90%M	0.10
21.00	MCO 50%O, 50%M	0.19
3.00	FREE OIL 95%O, 5%M	0.04
0.00	35' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Riedel Family A 1-26

PO Box 372

26-13-21/Trego

Hays, Ks

Job Ticket: 41781

DST#: 2

67601

ATTN: Marc Downing

Test Start: 2011.02.16 @ 08:00:33

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
21.00	OCM 10%O, 90%M	0.103
21.00	MCO 50%O, 50%M	0.194
3.00	FREE OIL 95%O, 5%M	0.042
0.00	35' GIP	0.000

Total Length: 45.00 ft Total Volume: 0.339 bbl

Num Fluid Samples: 0

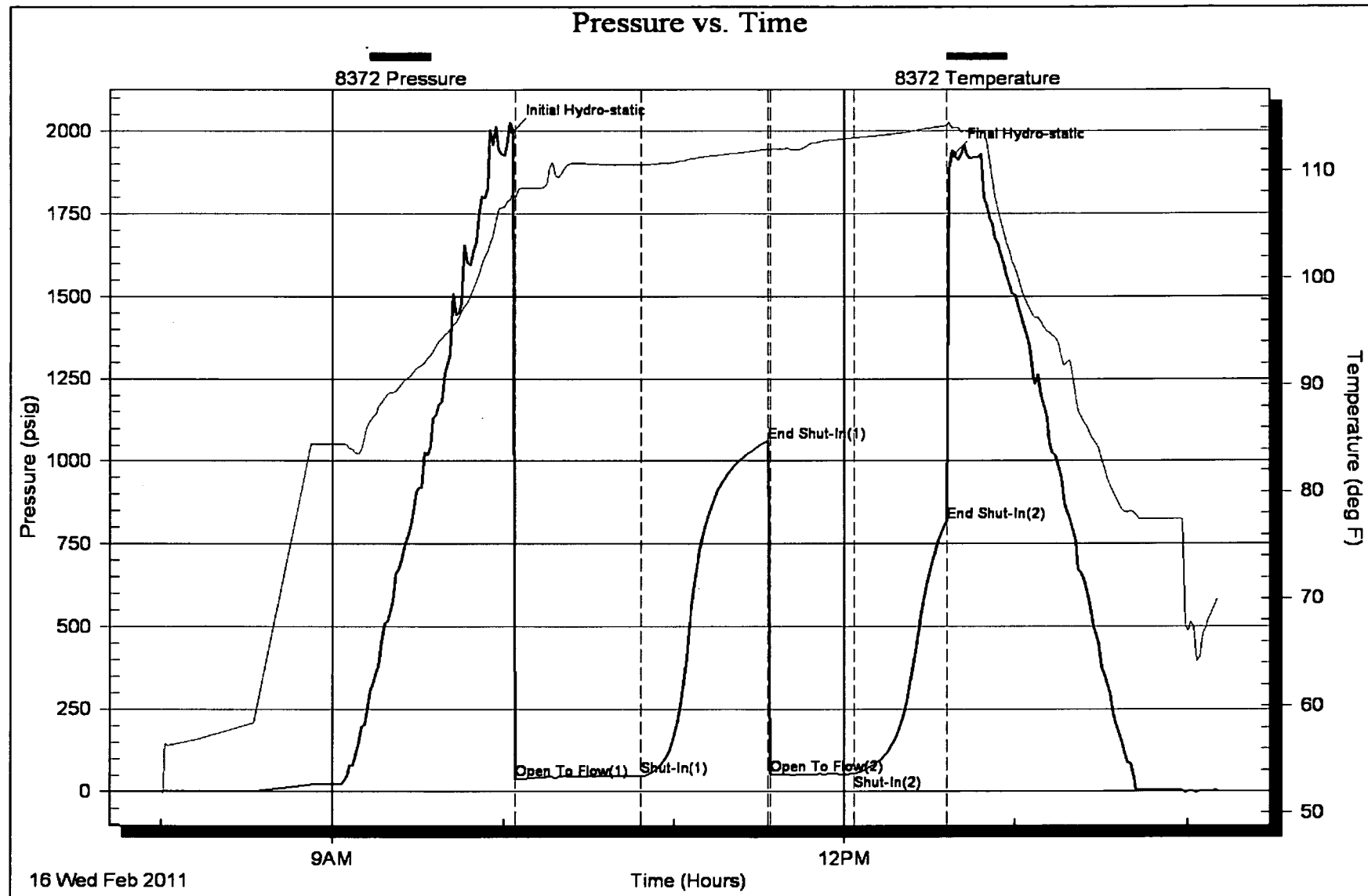
Num Gas Bombs: 0

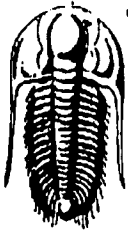
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

DNOC

Riedel Family A 1-26

PO Box 372
Hays, Ks
67601

26-13-21/Trego

Job Ticket: 41782

DST#: 3

ATTN: Marc Downing

Test Start: 2011.02.16 @ 20:23:03

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 22:18:32

Time Test Ended: 03:13:02

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **4037.00 ft (KB) To 4047.00 ft (KB) (TVD)**

Reference Elevations: **2342.00 ft (KB)**

Total Depth: **4037.00 ft (KB) (TVD)**

2334.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8372

Inside

Press@RunDepth: **76.70 psig @ 4039.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.02.16**

End Date:

2011.02.17

Last Calib.: **2011.02.17**

Start Time: **20:23:03**

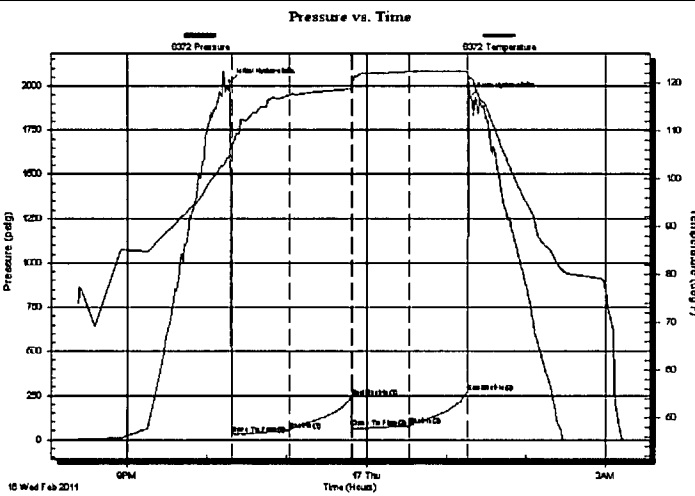
End Time:

03:13:02

Time On Btm: **2011.02.16 @ 22:17:02**

Time Off Btm: **2011.02.17 @ 01:18:02**

TEST COMMENT: IFF - BOB 43 min
ISI - no blow back
FFP - weak to good blow sur - 6"
FSI - no blow back



PRESSURE SUMMARY

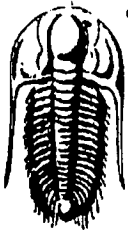
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.42	104.71	Initial Hydro-static
2	30.33	107.26	Open To Flow (1)
45	52.62	117.45	Shut-In(1)
91	244.47	118.78	End Shut-In(1)
92	69.71	120.14	Open To Flow (2)
135	76.70	122.25	Shut-In(2)
179	267.66	122.29	End Shut-In(2)
181	1938.82	120.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCMW 5%O, 55%W, 40%M	0.55
15.00	W & MCO 55%O, 15%W, 30%M	0.21
80.00	FREE OIL 95%O, 5%M	1.12
0.00	60' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Riedel Family A 1-26

PO Box 372

26-13-21/Trego

Hays, Ks

Job Ticket: 41782

DST#: 3

67601

ATTN: Marc Downing

Test Start: 2011.02.16 @ 20:23:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCMW 5%O, 55%W, 40%M	0.550
15.00	W & MCO 55%O, 15%W, 30%M	0.210
80.00	FREE OIL 95%O, 5%M	1.122
0.00	60' GIP	0.000

Total Length: 155.00 ft

Total Volume: 1.882 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

