



KANSAS CORPORATION COMMISSION 1060016
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 # _____

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

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: _____



1060016

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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 Bbls.	Gas Mcf	Water Bbls.	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> _____ <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	RBL Unit 1-25
Doc ID	1060016

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density/Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	RBL Unit 1-25
Doc ID	1060016

Tops

Name	Top	Datum
Top Anhydrite	1646	+665
Base	1688	+623
Topeka	3324	-1013
Heebner	3556	-1245
LKC	3593	-1282
BKC	3845	-1534
Marmaton	3907	-1598
Cherokee Shale	3943	-1632
Arbuckle	3956	-1645

ALLIED CEMENTING CO., LLC. 039601

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell

DATE <u>9/28/14</u>	SEC. <u>25</u>	TWP. <u>13</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00p</u>	JOB FINISH <u>6:30p</u>
LEASE <u>RBL Unit</u>	WELL# <u>1-25</u>	LOCATION <u>Ellis 15 24 1/2 S</u>			COUNTY <u>Ellis</u>	STATE <u>Ks.</u>	
OLD OR <u>NEW</u> (Circle one)			<u>Winto</u>		Tres.		

CONTRACTOR Discovery Rig #3
 TYPE OF JOB Surface Job
 HOLE SIZE 12 1/4 T.D. 223
 CASING SIZE 8 5/8 DEPTH 222.45
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15
 PERFS.
 DISPLACEMENT 13.21 Lbl
 EQUIPMENT

PUMP TRUCK CEMENTER Shane Heath
 # 409 HELPER Tony
 BULK TRUCK
 # 372 DRIVER Ron
 BULK TRUCK
 # DRIVER

REMARKS:

Ran 5 hrs + Landrig Jt.
Fast Circulation
Mixed 150 vks
Cement Circulated

CHARGE TO: Downing Nelson
 STREET
 CITY STATE ZIP

OWNER
 CEMENT
 AMOUNT ORDERED 150 Co-3 + 2

COMMON	<u>150</u>	@ <u>16.25</u>	<u>2437.50</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@ <u>58.20</u>	<u>291.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>158</u>	@ <u>2.25</u>	<u>355.50</u>
MILEAGE	<u>111/5k/pole</u>		<u>521.40</u>
TOTAL			<u>3669.15</u>

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>60</u>	@ <u>7.00</u>	<u>420.00</u>
MANIFOLD		@	
<u>CLM</u>	<u>60</u>	@ <u>4.00</u>	<u>240.00</u>
		@	
TOTAL			<u>1785.00</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment
 and furnish cementer and helper(s) to assist owner or

Thanks!

JOB LOG

SWIFT Services, Inc.

DATE 5 MAY 11 PAGE NO. 1

CUSTOMER DOWSING & NELSON

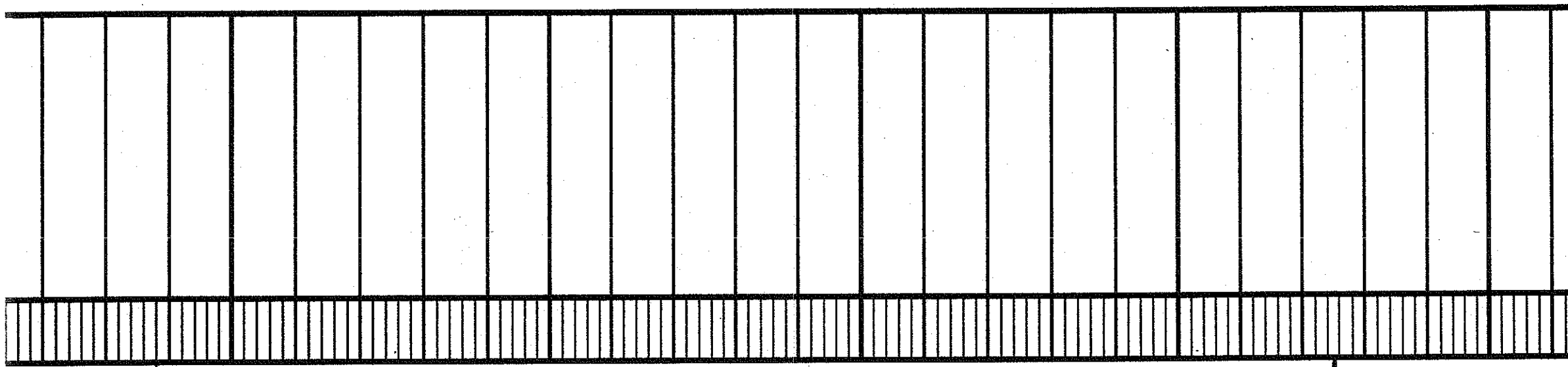
WELL NO.

LEASE RBL UNIT 1-25

JOB TYPE 5 1/2 LONGSTRING

TICKET NO. 20784

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1420							ON LOCATION
	1505							START PIPE 5 1/2" 14" RTD @ 4053 LT D @ 4054 SHOE JT 42.43' DV TOOL ON JT. # 57 @ 1640 CENTRALIZERS # 1, 3, 5, 7, 9, 11, 56 BASKET # 57
	1641							DROP BALL CIRCULATE.
	1703	6	12		✓		300	Pump 500 gal MUD FLUSH
	1705	6	20		✓		300	Pump 20 BBL KCL FLUSH
	1708	4	36		✓		300	MIX 150 SX FA2
	1721							WASH OUT PUMPING LINES
	1723	6			✓			RELEASE PLUG START DISPLACEMENT
	1740		99		✓		1500	PLUG DOWN PRESSURE UP LATCH PLUG IN
	1742							RELEASE PRESSURE DRY
	1743							DROP BOMB
	1752				✓		1200	OPEN DV TOOL
	1752	6	20		✓		300	Pump 20 BBL KCL FLUSH
	1755		7, 3 1/2					PLUG RH/MA (30SX-15SX)
	1800	4	86		✓		200	MIX 155 SX SMD
	1826							WASH OUT PUMPING LINES.
	1828	6			✓			RELEASE PLUG START DISPLACEMENT
	1836	Ø	40		✓		1500	PLUG DOWN PRESSURE UP CLOSE DV TOOL
	1839							RELEASE PRESSURE - DRY -
	1842							CIRCULATE 20 SX CEMENT TO SURFACE WASH TRUCK
	1915							JOB COMPLETE THANKS # 110 JASON JEFF ROB.



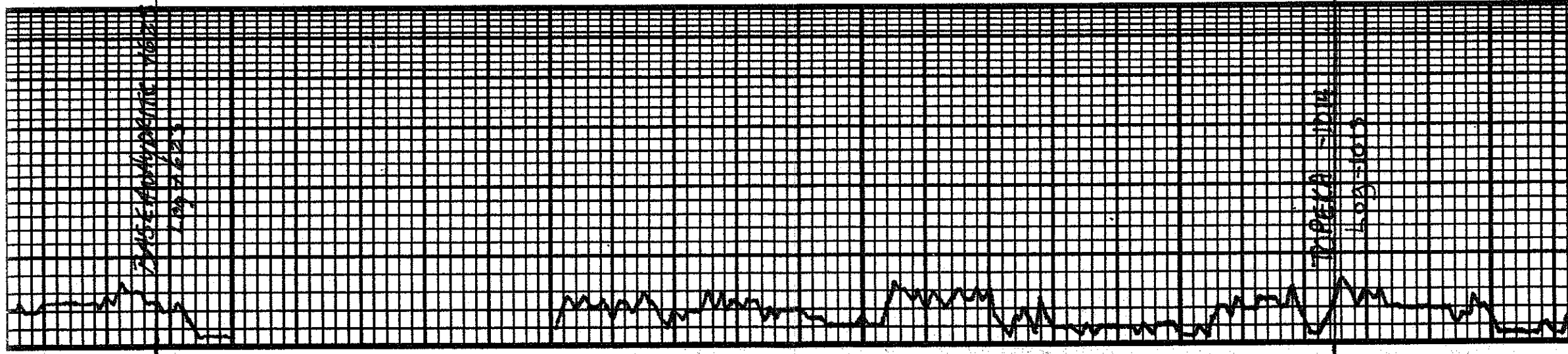
1700

3200

50

3300

50



BASE FUNDAMENTAL 1000
1000

BASE FUNDAMENTAL 1000
1000

3400

50

3500

50

3600

SABLN CARB
DUSTANES

94846945

LS tan-wh. v. fine mod
DUS-DUS pt. 100-100

9454

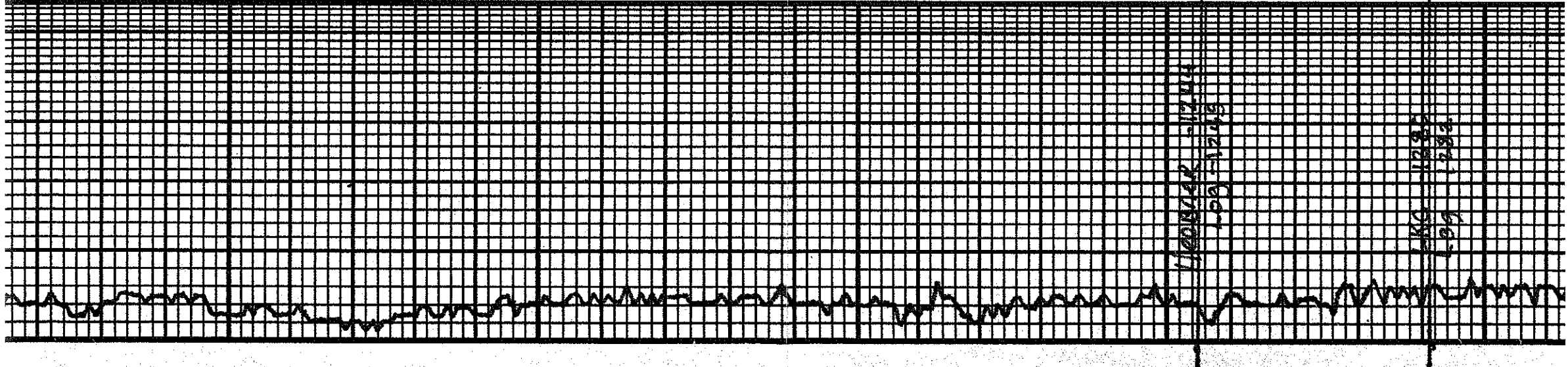
LS tan-wh. v. fine mod
DUS-DUS pt. 100-100

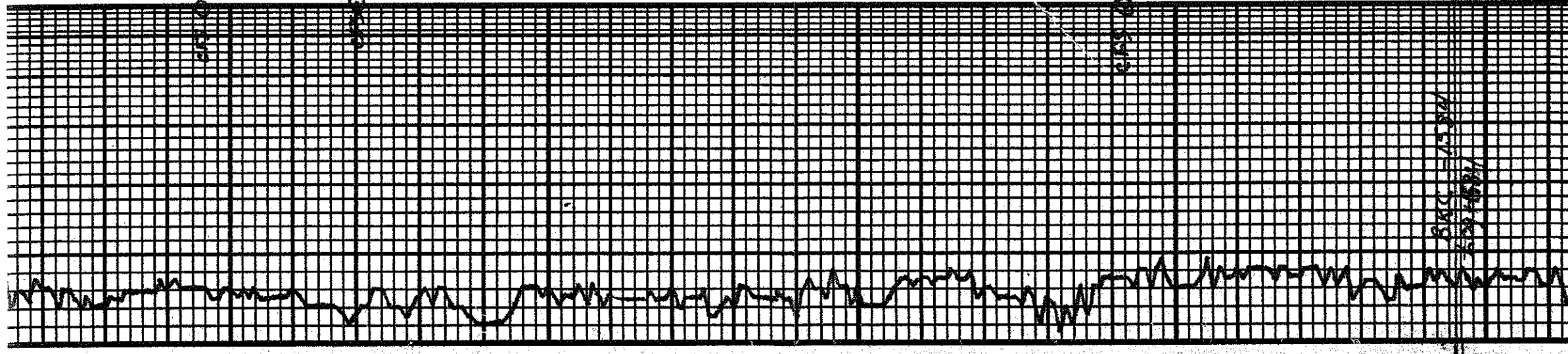
LS tan-wh. v. fine mod
DUS-DUS pt. 100-100
586 9200

DST#1
3606-3645

1000000 1000000
1000000 1000000

1000 1000
1000 1000





LS tan, An. suc. rhy. 1-2 chalyb pt. sh. rhy. sh. sh. rhy. rhy. gd. od. sm. gd. od. sm. 5m 5m tight barren	LS wh, tan, v. fr. - mic. rhy. 5m tight barren	Bk & Mg rhy. sh	LS tan, An. suc. rhy. w/ 99 pp sh p. v. sh. v. rhy. od. sh. sh. sh. rhy. sh.	LS tan, slicky, foss. w/ fr. gr. 10% sh. sh. sh. sh. sh. sh. sh. sh. sh. sh.	Chalyb. tan. sh. LS. rhy. sh. sh.	LS wh - tan. sh. sh. sh. sh. v. od. sh. pr. rhy. sh. sh.	w/ chalyb. tan. sh. sh. sh. sh. all rhy.	Sh. sh. sh. sh. sh. sh. sh. v. chalyb.	LS tan - gray, sh.	LS tan - gray, sh.	LS tan - gray, sh.	LS tan - gray, sh.	LS tan - gray, sh.	LS tan - gray, sh.
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1st op 3' " Blow
 2nd op 3 1/4" Blow
 NO ST. Blow
 IFF 14-42
 FFP 46-58
 SIP 500-494
 HP 1748-1784
 Rec 6' only Mud 80%
 Rec 30' 0 1/4 m
 DST #2 600 m
 3649'-3670'
 30" 45" 30" 45"
 1st op 808 3"
 1st ST 808 16"
 2nd op 808 8"
 2nd ST 808 24"
 IFF 36-159
 FFP 165-241
 SIP 380-379
 HP 1783-1684
 Rec 930' 61P
 150' G.O.
 60' G.WOCM
 120' OMCW
 180' WM
 BMT 1190 GRAN. 410

DST #3
 3765-3792
 45' 45" 45' 45"
 1st op 808 17"
 2nd op 808 14"
 NO ST. Blow
 IFF 16-40
 FFP 42-42
 SIP 509-506
 HP 1898-1806
 Rec 434' 81P
 120' OMCW
 BMT 1140

50

3700

50

3800

50

BMT 1190 GRAN. 410

JA RO SM

orange chit & DUSTAN
MIC Kyr/LS. Two sets of loss

DUSTAN - wh LS sm Rejoice
Mealy LS all DE

VDUSTAN mic/LS. no aggr. obs
w/ chit op wh. thin, sharp
ls. thin - heavy, wh. top obs
ad. heavy, wh. top obs. fr. ad.
top fracture line 300.

chit thin wh. sp. gray sh. p. fr. ch
p. gray. wh. top obs. fr. ad.
edge sm. gassy when broken,
fring obs barren chit

SH BLK CARB
SH GRAY BRAGGER

sections fr. gray wh. top obs. fr. ad.
fr. wh. top obs. fr. ad. wh. top obs.
DUSTAN - heavy, wh. top obs. fr. ad.
p. wh. top obs. fr. ad. wh. top obs.
NO obs. 55th. SI. fr. ad.

dark brownish - ma. chon. wh. top
fr. - go. wh. top obs. fr. ad. wh. top obs.
wh. top obs. fr. ad. wh. top obs.
VSS to VSS

fring obs - mod obs mo
chon. wh. top obs. fr. ad. wh. top obs.
dark chon. wh. top obs.

mod. wh. top obs. fr. ad. wh. top obs.
wh. top obs. fr. ad. wh. top obs.

DOLO - fr. gray obs. p. wh. top obs.
fr. wh. top obs. fr. ad. wh. top obs.
MS.

DUSTAN DOLO

DOLO with ma. chon. wh. top obs.
DOLO friable. fr. wh. top obs. fr. ad.
MS

fring obs w/ p. b

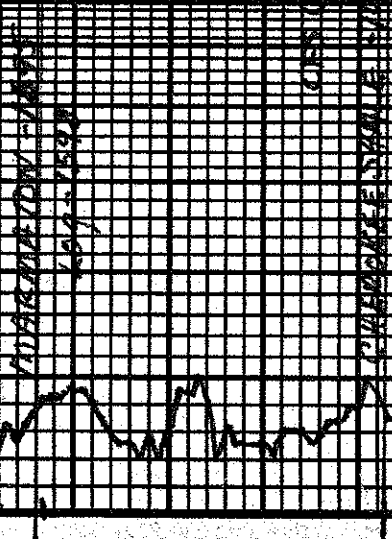
go porous wh. - gray DOLO strong
MS

DUSTAN DOLO

fring - heavy mod obs. DOLO
MS.

Ron Nelson

3900

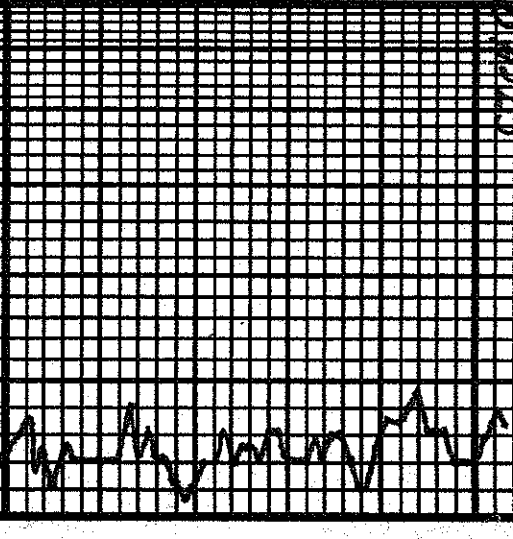


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4000



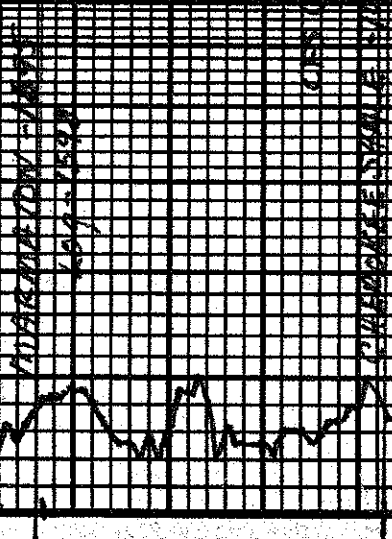
50



4100

DST #4
3910'-3935'
30" L 45° 30' - 48° 4'
1/2" OP 3085' 4"
1 1/2" SI 1 1/4"
2nd OP 10" Blow
NO SI Blow
IFP 30-69
FFP 72-88
SIP 447-257
HP 1944-1880
Rec 275' GIP
185' 60
30' 00 CM
BHT 1170 GROW 37°
pacmer pulled loose &
BHP invalid on 1st SI

3900

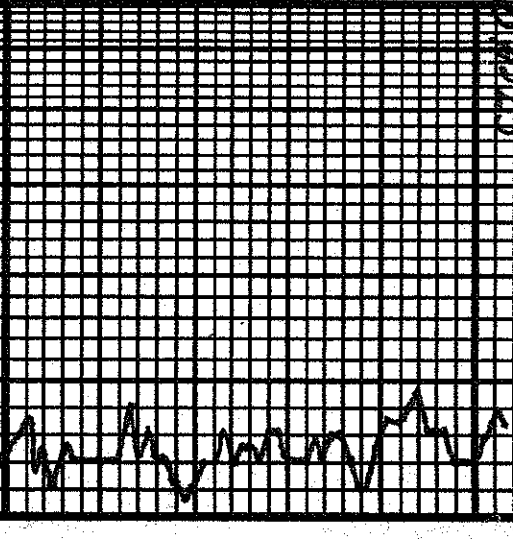


32

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4000



50



4100



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

ATTN: Ron Nelson

Job Ticket: 42798

DST#: 1

Test Start: 2011.05.02 @ 07:48:15

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:36:05

Time Test Ended: 14:24:15

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3606.00 ft (KB) To 3645.00 ft (KB) (TVD)

Total Depth: 3645.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2311.00 ft (KB)

2304.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 57.71 psig @ 3608.00 ft (KB)

Start Date: 2011.05.02

End Date:

2011.05.02

Start Time: 07:58:15

End Time:

14:24:15

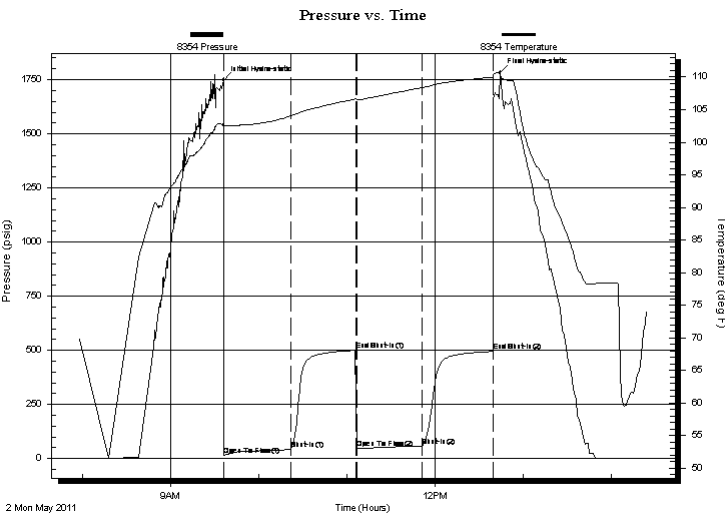
Capacity: 8000.00 psig

Last Calib.: 2011.05.02

Time On Btm: 2011.05.02 @ 09:35:55

Time Off Btm: 2011.05.02 @ 12:44:15

TEST COMMENT: IF-Weak building blow . Built to 3&1/4 inches.
IS-No Return.
FF-Weak building blow . Built to 3&1/4 inches.
FS-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.19	102.85	Initial Hydro-static
1	14.29	102.26	Open To Flow (1)
46	42.04	104.02	Shut-In(1)
90	499.65	106.62	End Shut-In(1)
91	46.22	106.48	Open To Flow (2)
136	57.71	108.36	Shut-In(2)
184	493.90	109.99	End Shut-In(2)
189	1783.76	110.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	50%Mud/45%Water/5%Oil	0.56
30.00	75%Mud/20%Water/5%Oil	0.42
6.00	80%Oil/15%Mud/5%Water	0.08

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42798

DST#: 1

ATTN: Ron Nelson

Test Start: 2011.05.02 @ 07:48:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

52500 ppm

Viscosity: 82.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.12 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	50%Mud/45%Water/5%Oil	0.559
30.00	75%Mud/20%Water/5%Oil	0.421
6.00	80%Oil/15%Mud/5%Water	0.084

Total Length: 96.00 ft

Total Volume: 1.064 bbl

Num Fluid Samples: 0

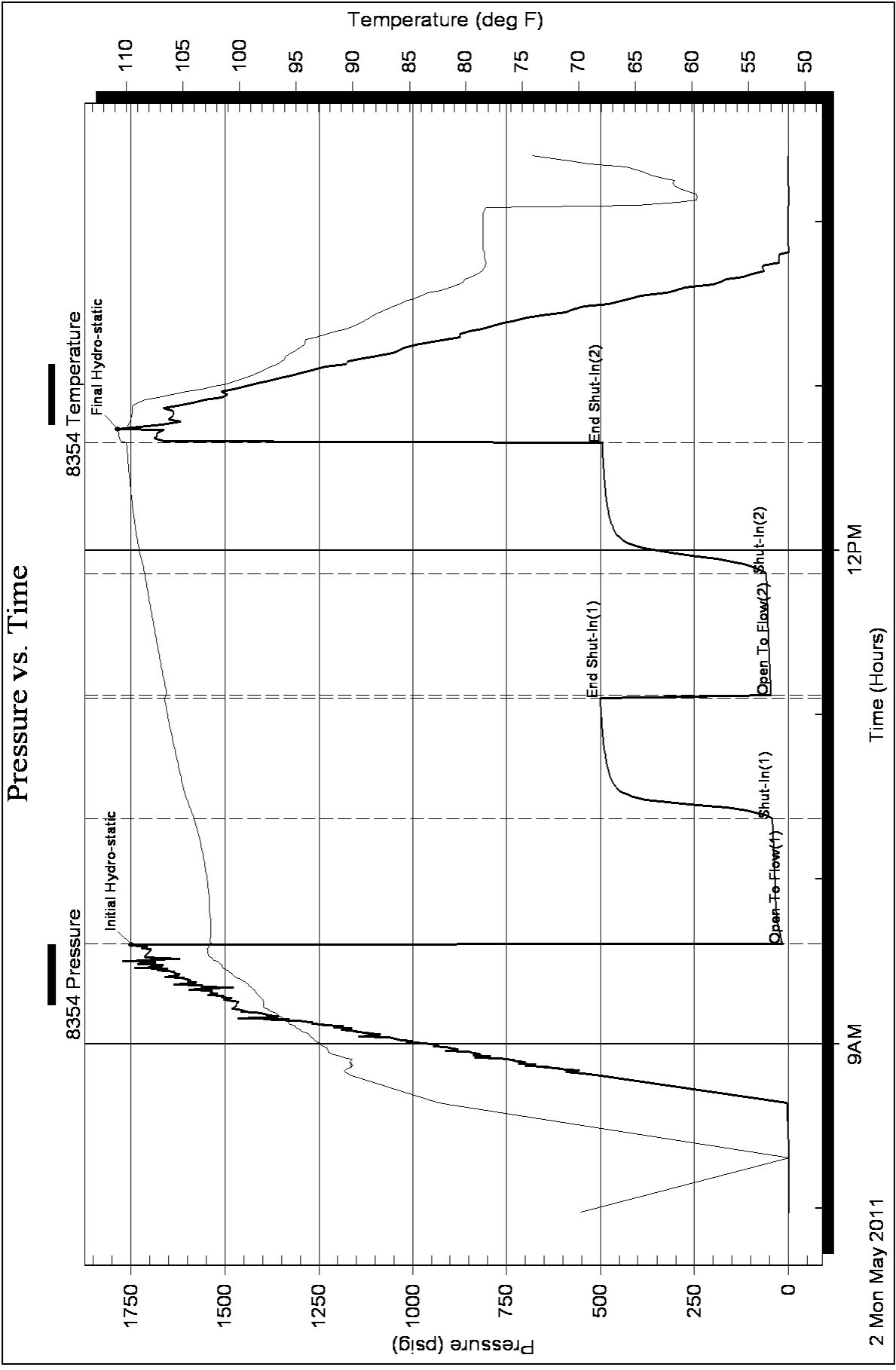
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

ATTN: Ron Nelson

Job Ticket: 42799

DST#: 2

Test Start: 2011.05.02 @ 20:05:08

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:46:28

Time Test Ended: 02:50:08

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3649.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 2311.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

2304.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 241.06 psig @ 3651.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.02

End Date:

2011.05.03

Last Calib.:

2011.05.03

Start Time:

20:15:08

End Time:

02:50:08

Time On Btm:

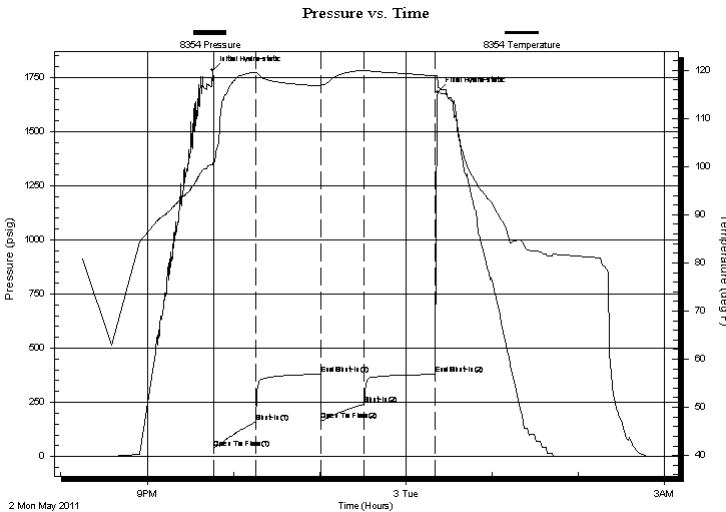
2011.05.02 @ 21:45:18

Time Off Btm:

2011.05.03 @ 00:22:08

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes 40 seconds.
ISI-Return @ 15 seconds. BOB in 16 minutes.
FF-Fair building blow . BOB in 8 minutes.
FSI-Return @ 15 seconds. BOB in 24 minutes.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.97	100.38	Initial Hydro-static
2	36.46	100.00	Open To Flow (1)
31	158.75	119.58	Shut-In(1)
76	379.87	116.86	End Shut-In(1)
76	164.87	116.77	Open To Flow (2)
106	241.06	119.96	Shut-In(2)
156	379.08	118.85	End Shut-In(2)
157	1683.58	116.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	90%/Water/10%Mud	2.24
120.00	65%Water/30%Mud/5%Oil	1.68
60.00	50%Mud/20%Water/20%Gas/10%Oil	0.84
150.00	60%Oil/40%Gas	2.10
0.00	930' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42799

DST#: 2

ATTN: Ron Nelson

Test Start: 2011.05.02 @ 20:05:08

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: 0.11 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	90%/Water/10%Mud	2.243
120.00	65%Water/30%Mud/5%Oil	1.683
60.00	50%Mud/20%Water/20%Gas/10%Oil	0.842
150.00	60%Oil/40%Gas	2.104
0.00	930' G.I.P.	0.000

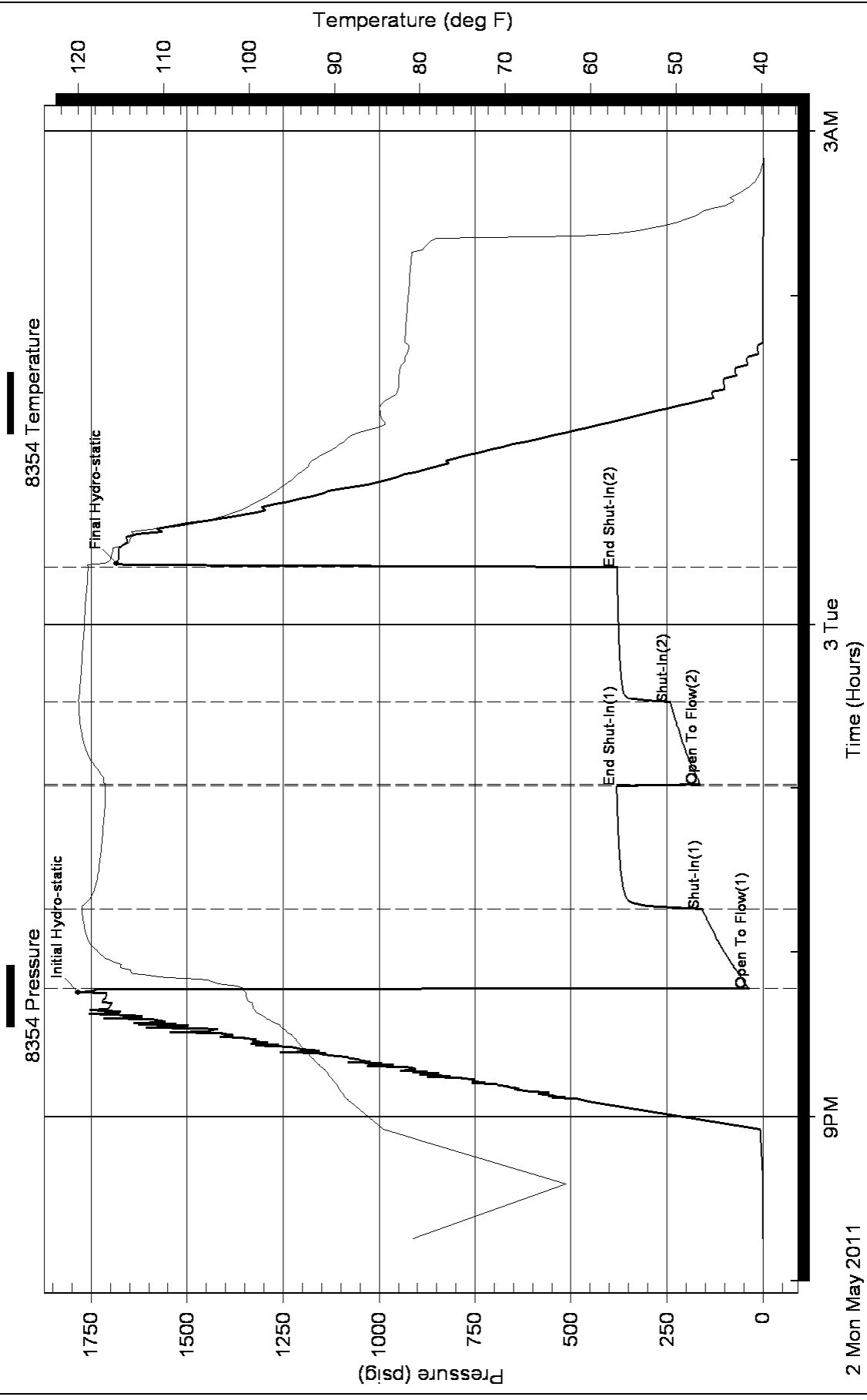
Total Length: 510.00 ft Total Volume: 6.872 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42800

DST#: 3

ATTN: Ron Nelson

Test Start: 2011.05.03 @ 13:42:06

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:24:36

Time Test Ended: 20:12:06

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3765.00 ft (KB) To 3792.00 ft (KB) (TVD)

Reference Elevations: 2311.00 ft (KB)

Total Depth: 3792.00 ft (KB) (TVD)

2304.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 61.80 psig @ 3767.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.03

End Date: 2011.05.03

Last Calib.: 2011.05.03

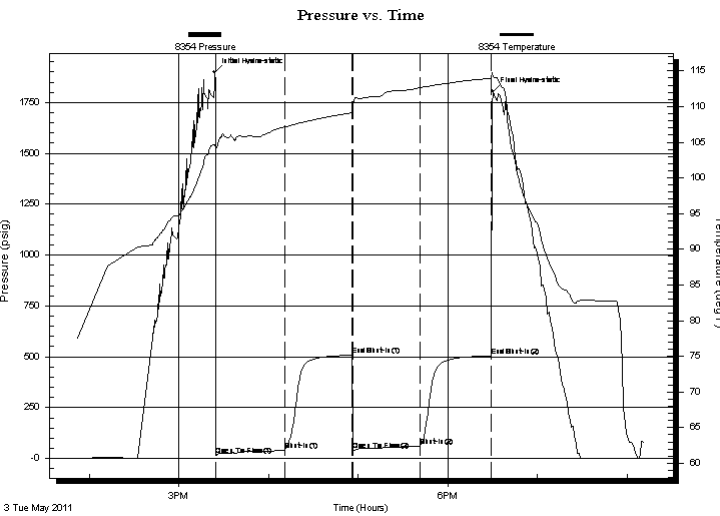
Start Time: 13:52:06

End Time: 20:12:06

Time On Btm: 2011.05.03 @ 15:23:46

Time Off Btm: 2011.05.03 @ 18:30:06

TEST COMMENT: IF-Weak building blow . BOB in 17 minutes.
 IS-No Return.
 FF-Weak building blow . BOB in 13 minutes 40 seconds.
 FS-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1897.77	104.60	Initial Hydro-static
1	16.40	103.78	Open To Flow (1)
47	40.35	107.14	Shut-In(1)
92	508.88	109.12	End Shut-In(1)
93	42.22	110.29	Open To Flow (2)
138	61.80	112.66	Shut-In(2)
186	505.60	113.95	End Shut-In(2)
187	1805.73	114.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	50% Gas/35% Oil/10% Mud/5% Water	1.40
0.00	434' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42800

DST#: 3

ATTN: Ron Nelson

Test Start: 2011.05.03 @ 13:42:06

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	50%Gas/35%Oil/10%Mud/5%Water	1.401
0.00	434' G.I.P.	0.000

Total Length: 120.00 ft

Total Volume: 1.401 bbl

Num Fluid Samples: 0

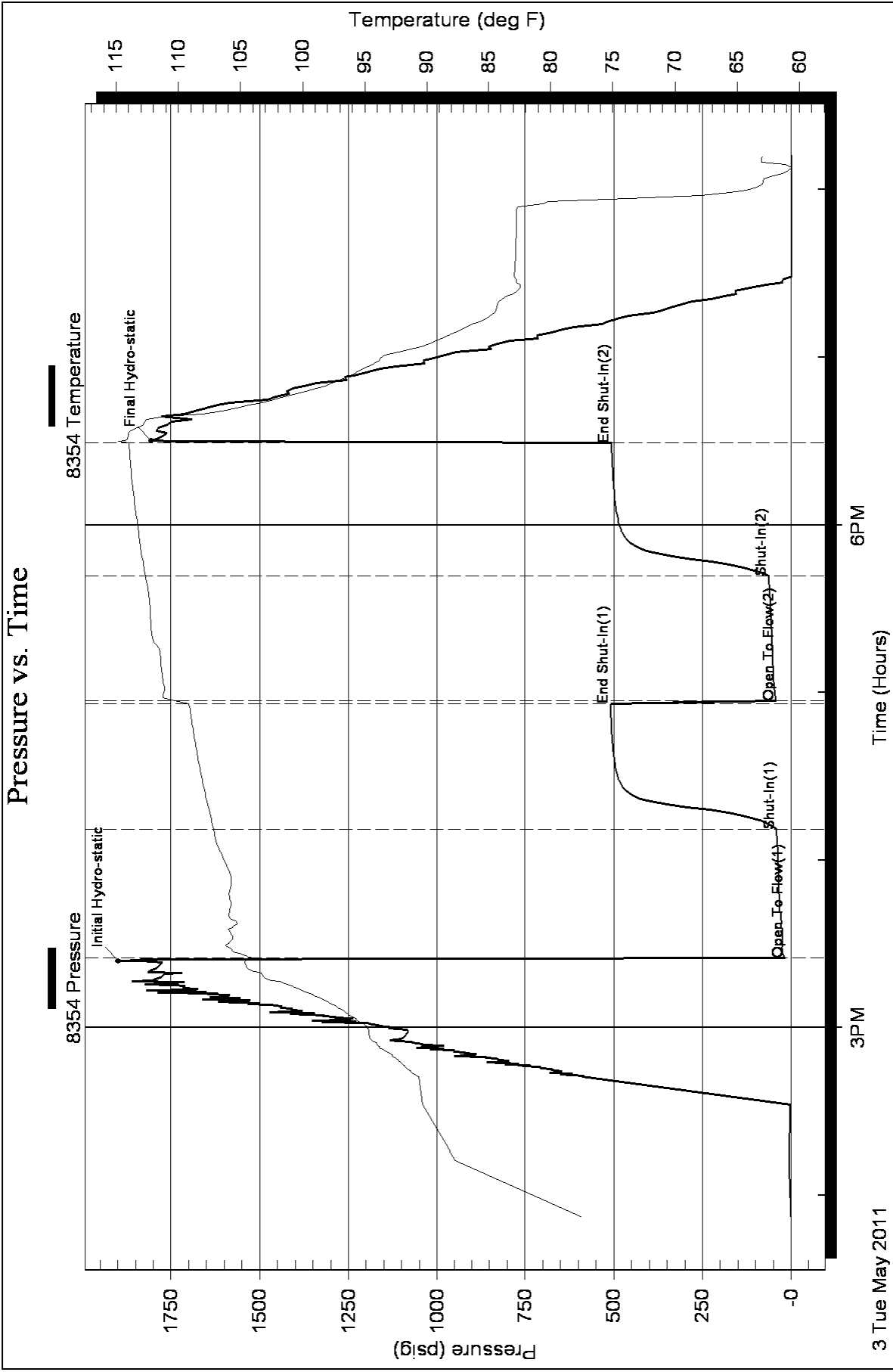
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42876

DST#: 4

ATTN: Ron Nelson

Test Start: 2011.05.04 @ 10:54:15

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:33:55

Time Test Ended: 17:00:45

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3910.00 ft (KB) To 3935.00 ft (KB) (TVD)

Reference Elevations: 2311.00 ft (KB)

Total Depth: 3935.00 ft (KB) (TVD)

2304.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 87.69 psig @ 3912.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.04 End Date: 2011.05.04

Last Calib.: 2011.05.04

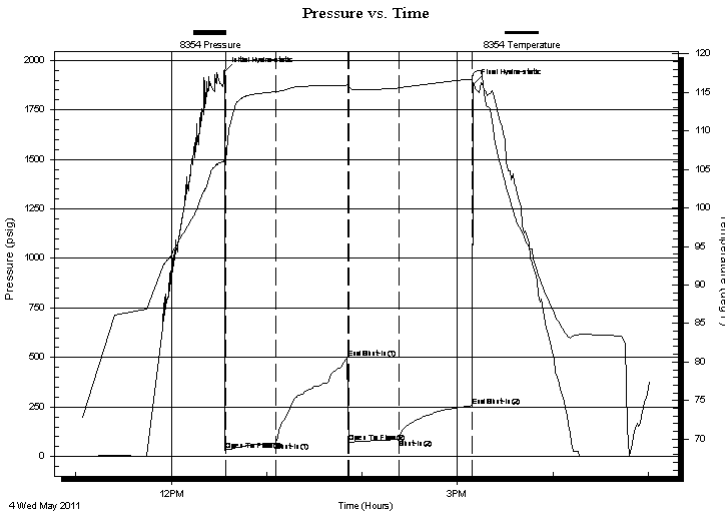
Start Time: 11:04:15 End Time: 17:00:45

Time On Btm: 2011.05.04 @ 12:33:45

Time Off Btm: 2011.05.04 @ 15:10:15

TEST COMMENT: IF-Strong building blow . BOB in 4 minutes 40 seconds.
IS- Surging surface return @ 45 seconds. Built to 1/4 inch.
FF-Weak building blow . Built to 10 inches.
FS-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.61	106.23	Initial Hydro-static
1	29.81	105.16	Open To Flow (1)
32	69.48	115.05	Shut-In(1)
77	497.37	115.93	End Shut-In(1)
78	72.05	115.60	Open To Flow (2)
110	87.69	115.57	Shut-In(2)
156	256.56	116.70	End Shut-In(2)
157	1880.38	117.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	40%Oil/40%Mud/20%Gas	0.15
185.00	50%Oil/50%Gas	2.59
0.00	275' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42876

DST#: 4

ATTN: Ron Nelson

Test Start: 2011.05.04 @ 10:54:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.58 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	40%Oil/40%Mud/20%Gas	0.148
185.00	50%Oil/50%Gas	2.586
0.00	275' G.I.P.	0.000

Total Length: 215.00 ft Total Volume: 2.734 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

