



KANSAS CORPORATION COMMISSION 1060008
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: _____



1060008

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 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	Sunley 1-13
Doc ID	1060008

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density/Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Sunley 1-13
Doc ID	1060008

Tops

Name	Top	Datum
Anhydrite	1405	+752
Base	1450	+707
Topeka	3160	-1003
Heebner	3406	-1249
Toronto	3426	-1269
LKC	3454	-1297
BEK	3680	-1523
Arbuckle	3738	-1581

JOB LOG

SWIFT Services, Inc.

DATE 5-6-11 PAGE NO. 1

CUSTOMER Dawson & Nelson WELL NO. 1-13 LEASE Sunlay JOB TYPE Cement Longstring TICKET NO. 19489

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
5/5	22:30					14"	5 1/2"	On location w/FE Ready @ Midnight
	22:45							start 5 1/2" 14"/ft casing to 3850'
								Insert Foot Shoe w/Auto-Kill
								L.D D.U. Baffle - 55- 20' @ 3829'
								Cent collars 1-3-5-7-9-11-61
								Cement Baskets #62 #17 x 25 - out
								D.U. Tool #62 @ 1370' (92 JTS)
								Drop Fillup Ball 6 JTS out
	0100							Fin run casing - Tag Bottom
	0110							Rig cir / Rotate casing
								Fin cir - 1st stage
		6					300	Pump 50 gal Head Flush
		6					300	Pump 20 BBI KCL Flush
		4 1/2					250	Mix/Pump 150 SKS EA-2 cont
			36				Var	Fin cut - Wash out Pump & Lines
	0205							Drop L.D. DU - Plug - start Displ (93 1/2)
		9					300	First 60 BBI - H2O - start 20 BBI Head
		9/7	70				300	Lowest press - slow rate to 7 BPM
		7	80				500	Blow 2 1/2 stage KCL flush to lower Plug
		5 1/2	90				600	Slow Rate
	0220		93 1/2				800	Plug Down - Hold - Release & Hold
							1050	Drop D.U. opening device - Plug RTT/MT
		5	5				850	Open D.U. - Fin KCL Flush 30 SKS/15 SKS
		5					250	start 135 SKS Sued @ 11.2
	0205		75				Var	Fin cut
								Drop D.U. Closing Plug
		5					300	Start Displ H2O (93 BBI)
	0315		33				600	Plug Down - D.U. closed - Hold & Release
								(30 SKS cut circulate to Pet.)
								Wash up & Breakup
	0330							Job Complete
								AWB Nelson, Doug & John



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson
P.O. Box 1019 113 W. 13th
Hays, KS. 67601
ATTN: Al Dow ning

Sunley #1-13
13/14/19/Ellis-KS
Job Ticket: 041106 **DST#: 1**
Test Start: 2011.05.02 @ 18:55:00

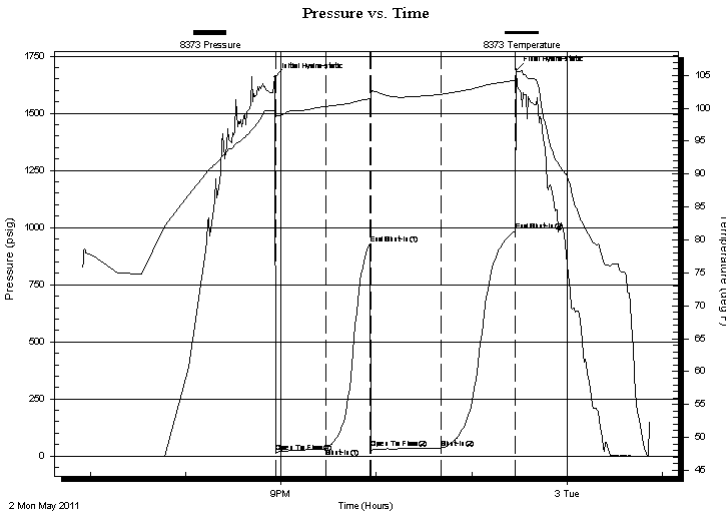
GENERAL INFORMATION:

Formation: **Plattsmouth**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:56:30
Time Test Ended: 00:52:00
Interval: **3366.00 ft (KB) To 3400.00 ft (KB) (TVD)**
Total Depth: 3400.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Kevin Mack
Unit No: 35
Reference Elevations: 2160.00 ft (KB)
2154.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8373 Inside
Press @ Run Depth: 35.46 psig @ 3367.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.05.02 End Date: 2011.05.03 Last Calib.: 2011.05.03
Start Time: 18:55:05 End Time: 00:51:59 Time On Btm: 2011.05.02 @ 20:56:15
Time Off Btm: 2011.05.02 @ 23:28:00

TEST COMMENT: IF: Surface blow built to 1 1/4"
IS: No Return
FF: 1/4" Blow built to 3 1/2"
FS: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.69	99.55	Initial Hydro-static
1	17.32	98.88	Open To Flow (1)
32	32.71	100.27	Shut-In(1)
60	929.10	101.43	End Shut-In(1)
60	33.17	101.29	Open To Flow (2)
105	35.46	102.14	Shut-In(2)
151	984.37	104.23	End Shut-In(2)
152	1687.96	105.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	10' GIP	0.00
50.00	OSM (oil spots) 100M	0.43

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson

Sunley #1-13

P.O. Box 1019 113 W. 13th
Hays, KS. 67601

13/14/19/Ellis-KS

Job Ticket: 041106

DST#: 1

ATTN: Al Dow ning

Test Start: 2011.05.02 @ 18:55:00

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: 77.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	10' GIP	0.000
50.00	OSM (oil spots) 100M	0.428

Total Length: 50.00 ft Total Volume: 0.428 bbl

Num Fluid Samples: 0

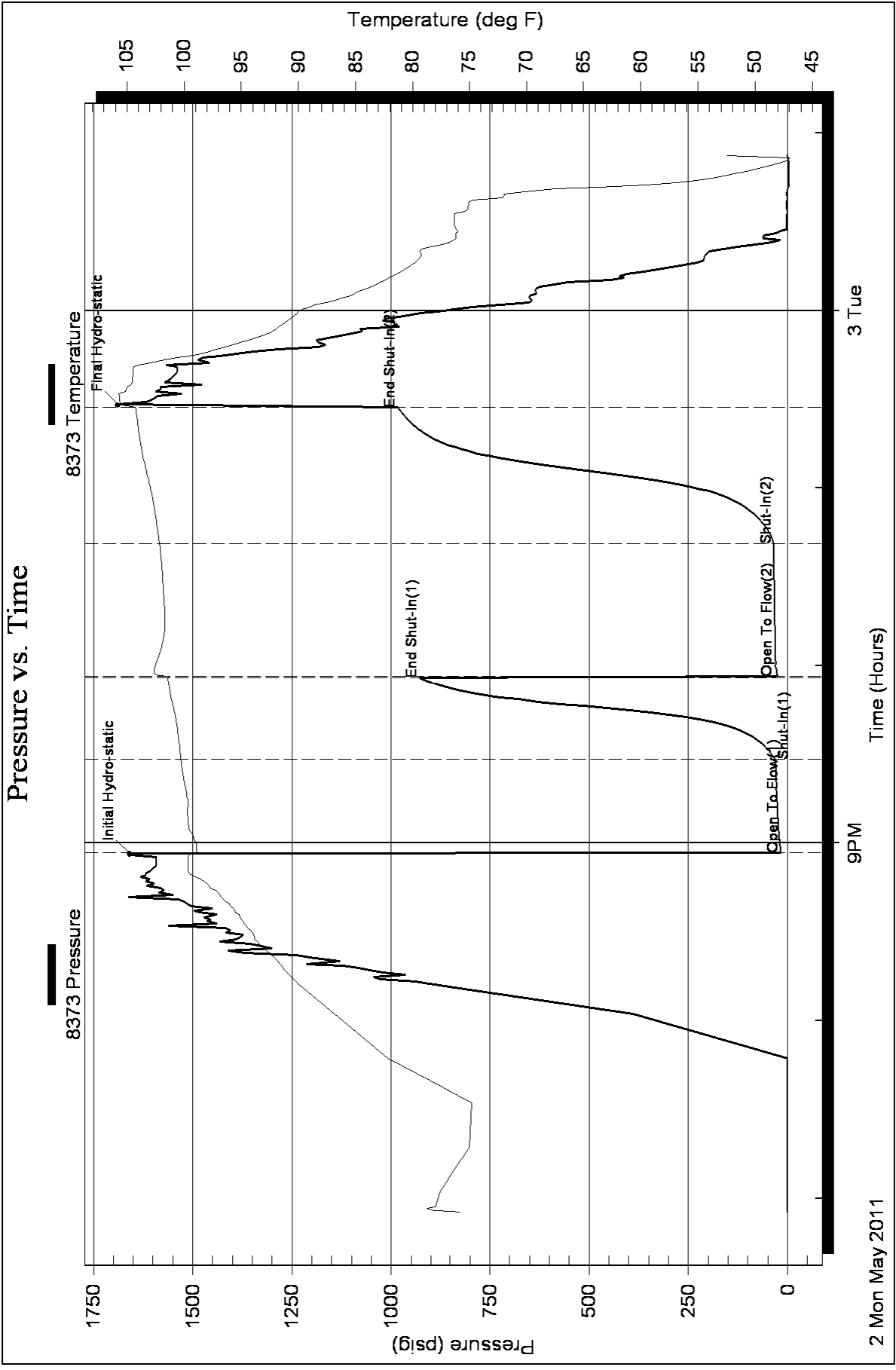
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson
P.O. Box 1019 113 W. 13th
Hays, KS. 67601
ATTN: Al Dow ning

Sunley #1-13
13/14/19/Ellis-KS
Job Ticket: 041107 **DST#: 2**
Test Start: 2011.05.03 @ 11:08:00

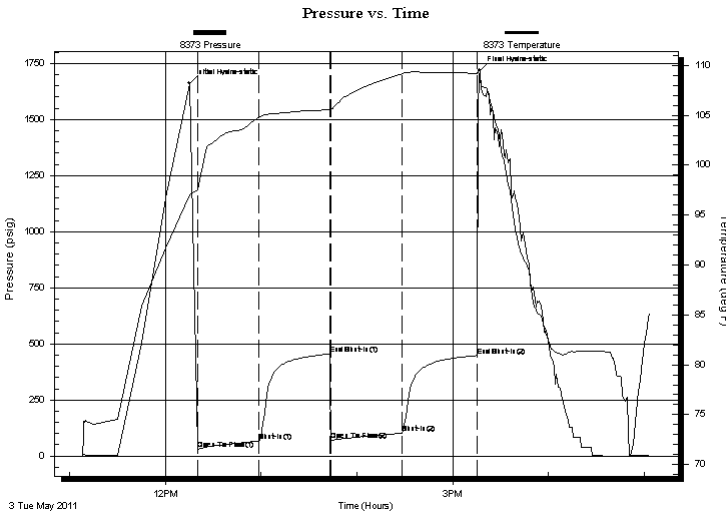
GENERAL INFORMATION:

Formation: **Lansing "C,D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:20:00
Time Test Ended: 17:03:45
Interval: **3456.00 ft (KB) To 3510.00 ft (KB) (TVD)**
Total Depth: 3510.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Kevin Mack
Unit No: 35
Reference Elevations: 2160.00 ft (KB)
2154.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8373 Inside
Press @ Run Depth: 101.13 psig @ 3457.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.05.03 End Date: 2011.05.03 Last Calib.: 2011.05.03
Start Time: 11:08:05 End Time: 17:03:44 Time On Btm: 2011.05.03 @ 12:15:00
Time Off Btm: 2011.05.03 @ 15:17:00

TEST COMMENT: IF: BoB in 33 min.
IS: Surface return started at 10 min built to 1/2"
FF: BoB in 20 min
FS: Surface return started at 5 min built to 2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.27	97.02	Initial Hydro-static
5	29.07	97.54	Open To Flow (1)
44	67.21	104.82	Shut-In(1)
88	456.06	105.58	End Shut-In(1)
89	71.56	105.37	Open To Flow (2)
134	101.13	109.15	Shut-In(2)
181	447.85	109.22	End Shut-In(2)
182	1719.26	108.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP	0.00
62.00	WM 70M 30W	0.60
62.00	OCMW 30M 65W 5o	0.87
52.00	OCWM 40M 25W 35o	0.73
20.00	Oil 100o	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson

Sunley #1-13

P.O. Box 1019 113 W. 13th
Hays, KS. 67601

13/14/19/Ellis-KS

Job Ticket: 041107

DST#: 2

ATTN: Al Downing

Test Start: 2011.05.03 @ 11:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	GIP	0.000
62.00	WM 70M 30W	0.596
62.00	OCMW 30M 65W 5o	0.870
52.00	OCWM 40M 25W 35o	0.729
20.00	Oil 100o	0.281

Total Length: 196.00 ft Total Volume: 2.476 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

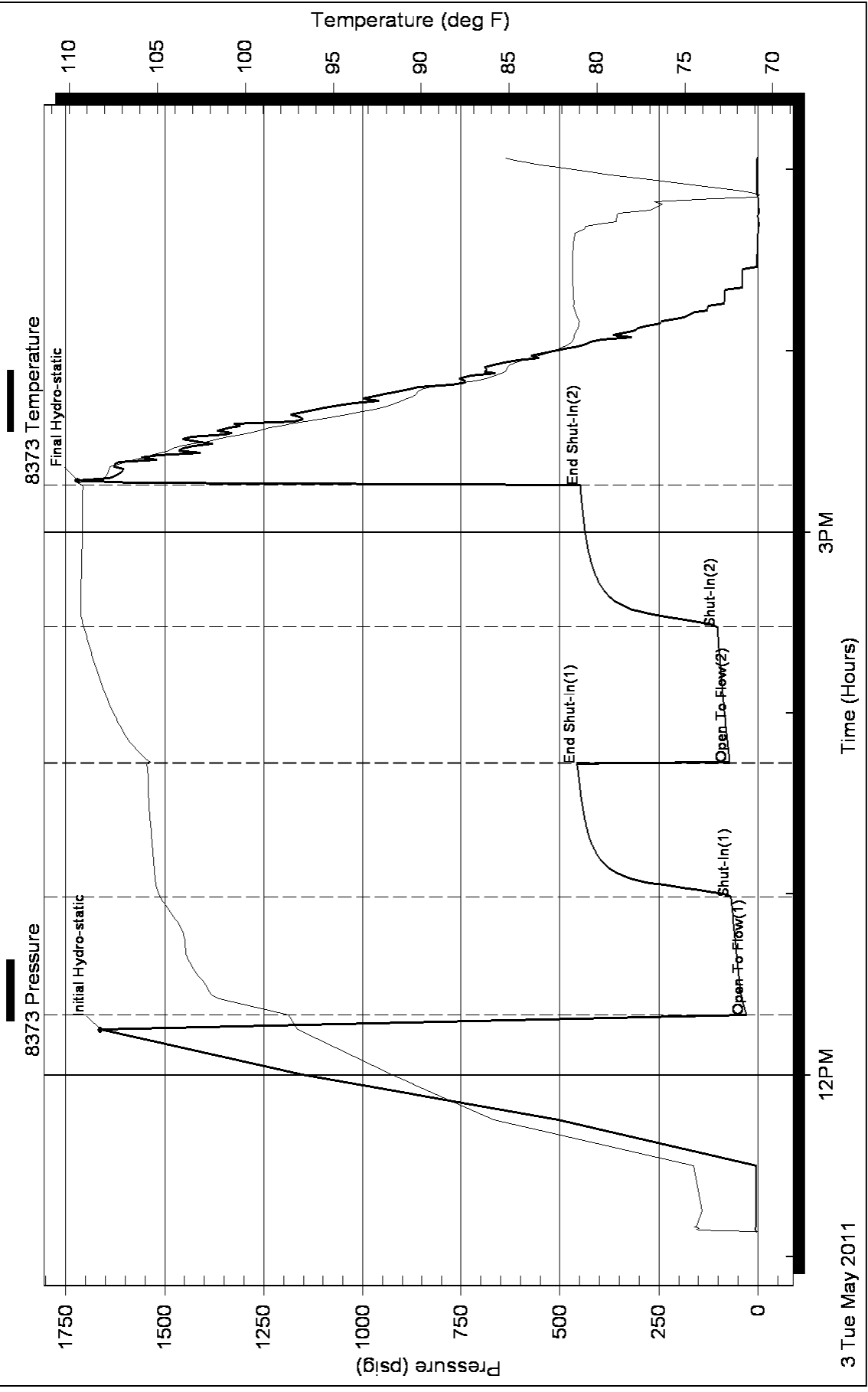
Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 37 @90 degrees = 34

RW .15 @ 79 degrees = 40000 ppm

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

Sunley #1-13

P.O. Box 1019 113 W. 13th
Hays, KS. 67601

13/14/19 Ellis KS

Job Ticket: 42560

DST#: 3

ATTN: Al Dow ning

Test Start: 2011.05.03 @ 23:12:24

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:48:24

Time Test Ended: 05:17:24

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3506.00 ft (KB) To 3533.00 ft (KB) (TVD)

Reference Elevations: 2160.00 ft (KB)

Total Depth: 3533.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 84.18 psig @ 3510.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.03

End Date:

2011.05.04

Last Calib.:

2011.05.04

Start Time: 23:12:25

End Time:

05:17:24

Time On Btm:

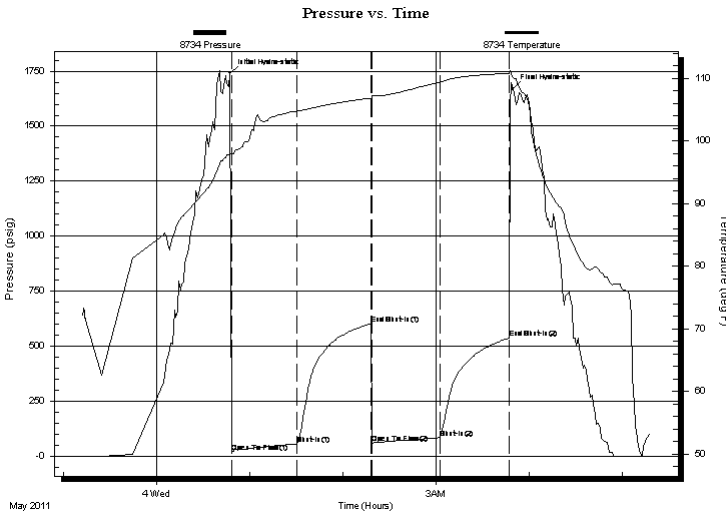
2011.05.04 @ 00:47:24

Time Off Btm:

2011.05.04 @ 03:49:24

TEST COMMENT: IFP - BOB 20 min
ISI - no blow back
FFP - BOB 32 min
FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.55	98.01	Initial Hydro-static
1	19.36	97.73	Open To Flow (1)
43	56.21	104.78	Shut-In(1)
91	601.61	106.82	End Shut-In(1)
92	60.62	107.26	Open To Flow (2)
135	84.18	109.40	Shut-In(2)
180	537.71	110.79	End Shut-In(2)
182	1670.06	110.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90%W, 10%M	1.41
15.00	SO & WCM 5%O, 5%W, 90%M	0.21
10.00	FREE OIL 95%O, 5%M	0.14
0.00	130' GIP	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 Inc.

Sunley #1-13

P.O. Box 1019 113 W. 13th
Hays, KS. 67601

13/14/19 Ellis KS

Job Ticket: 42560

DST#: 3

ATTN: Al Dow ning

Test Start: 2011.05.03 @ 23:12:24

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:

96000 ppm

Viscosity: 80.00 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 bbbl
120.00	MW 90%W, 10%M	1.410
15.00	SO & WCM 5%O, 5%W, 90%M	0.210
10.00	FREE OIL 95%O, 5%M	0.140
0.00	130' GIP	0.000

Total Length: 145.00 ft

Total Volume: 1.760 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

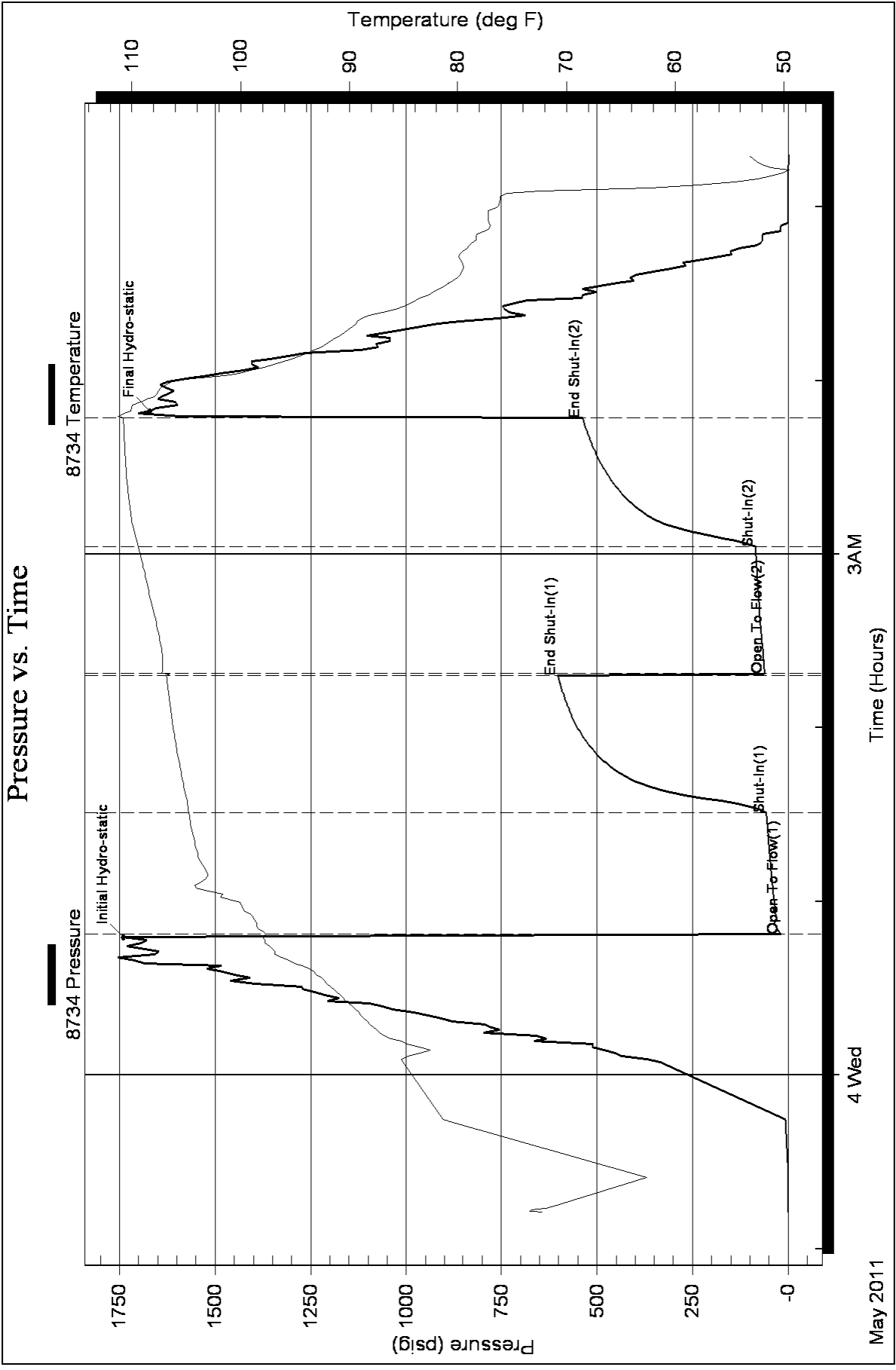
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

Sunley #1-13

P.O. Box 1019 113 W. 13th
Hays, KS. 67601

13/14/19 Ellis KS

Job Ticket: 42561

DST#: 4

ATTN: Al Dow ning

Test Start: 2011.05.04 @ 15:00:59

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:34:59

Time Test Ended: 21:06:29

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3560.00 ft (KB) To 3630.00 ft (KB) (TVD)

Reference Elevations: 2160.00 ft (KB)

Total Depth: 3630.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 78.51 psig @ 3563.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.04

End Date:

2011.05.04

Last Calib.:

2011.05.04

Start Time: 15:01:00

End Time:

21:06:29

Time On Btm:

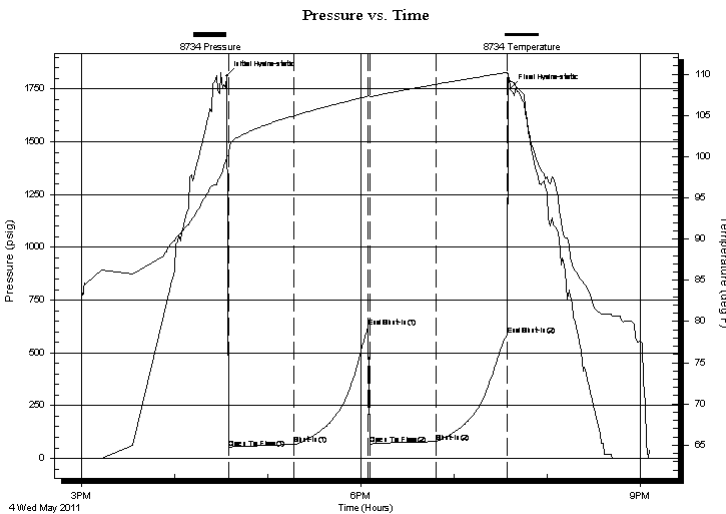
2011.05.04 @ 16:33:59

Time Off Btm:

2011.05.04 @ 19:36:29

TEST COMMENT: IFP - BOB 21 min
ISI - no blow back
FFP - BOB 1 min
FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1812.26	99.96	Initial Hydro-static
1	47.02	100.21	Open To Flow (1)
43	65.95	104.97	Shut-In(1)
91	621.32	107.35	End Shut-In(1)
92	65.25	107.24	Open To Flow (2)
135	78.51	108.78	Shut-In(2)
180	584.99	110.22	End Shut-In(2)
183	1749.89	109.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GMCO 60%G, 30%O, 10%M	0.15
30.00	GOCM 35%G, 15%O, 50%M	0.42
45.00	GOCM 15%G, 15%O, 705M	0.63
0.00	540' GIP	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 Inc.

Sunley #1-13

P.O. Box 1019 113 W. 13th
Hays, KS. 67601

13/14/19 Ellis KS

Job Ticket: 42561

DST#: 4

ATTN: Al Dow ning

Test Start: 2011.05.04 @ 15:00:59

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

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 bbbl
30.00	GMCO 60%G, 30%O, 10%M	0.148
30.00	GOCM 35%G, 15%O, 50%M	0.421
45.00	GOCM 15%G, 15%O, 705M	0.631
0.00	540' GIP	0.000

Total Length: 105.00 ft

Total Volume: 1.200 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

