



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 # 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: Marc Downing
Purchaser: Coffeyville Resources

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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>04/29/2011</u>	<u>05/05/2011</u>	<u>05/06/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26134-00-00

Spot Description: _____

SW SE NE NE Sec. 13 Twp. 14 S. R. 19 East West

1040 Feet from North / South Line of Section

350 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Ellis

Lease Name: Sunley Well #: 1-13

Field Name: Exoeriment Southwest

Producing Formation: Arbuckle

Elevation: Ground: 2154 Kelly Bushing: 2157

Total Depth: 3850 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: 1370 Feet

If Alternate II completion, cement circulated from: 1370

feet depth to: 0 w/ 135 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 16000 ppm Fluid volume: 320 bbls

Dewatering method used: Haul Off Pit

Location of fluid disposal if hauled offsite:

Operator Name: Downing Nelson Oil Company Inc

Lease Name: Connie License #: 30717

Quarter E2 Sec. 29 Twp. 13 S. R. 21 East West

County: Trego Permit #: D30417

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 Garcia Date: 07/25/2011



1060008

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Sunley Well #: 1-13
 Sec. 13 Twp. 14 S. R. 19 East West County: Ellis

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
---	--

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	223	Common	150	2% Gel & 3%CC
Production String	7.875	5.5	14	3849	EA/2	150	

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 (Amount and Kind of Material Used)	Depth
4	3785' to 3788'		

TUBING RECORD: Size: <u>2.3750</u> Set At: <u>3787.63</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>06/03/2011</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>50</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 type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	--	--

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

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

ALLIED CEMENTING CO., LLC. 039604

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

SERVICE POINT:
Russell

DATE <u>4/28/11</u>	SEC. <u>13</u>	TWP. <u>14</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00p</u>	JOB FINISH <u>5:30p</u>
LEASE <u>Sunkey</u>	WELL # <u>1-13</u>	LOCATION <u>Hays & Hwy 40 1E 4 S</u>	COUNTY <u>Ellis</u>		STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)			<u>1E 1/2 S Winto</u>				

CONTRACTOR Discoury Drilling Rig #3

TYPE OF JOB Surface Sol

HOLE SIZE 12 1/4 T.D. 223

CASING SIZE 8 1/2 DEPTH 223.01

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15'

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13 661

EQUIPMENT

OWNER

CEMENT

AMOUNT ORDERED 150 G - 32cc 2861

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 1/2</u>	@		<u>521.44</u>
TOTAL				<u>3669.15</u>

PUMP TRUCK CEMENTER Shane, Heath

412 HELPER Tony

BULK TRUCK

328 DRIVER Nick

BULK TRUCK

DRIVER

REMARKS:

Ran 5 jts + Landing Jt.

Fast Circulation.

Mixed 150 sts.

Cement Circulated

CHARGE TO: Doanig Nelson

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 60 @ 7.00 420.00

MANIFOLD @

LVA 60 @ 4.00 240.00

TOTAL 1785.00

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

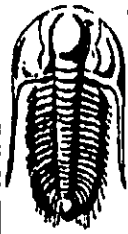
JOB LOG

SWIFT Services, Inc.

DATE 5-6-11 PAGE NO. 1

CUSTOMER Dunning & Nelson WELL NO. 1-13 LEASE Sunloy JOB TYPE Cement Logging 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 Reedy @ McLaughlin
	22:45							start 5 1/2" 14"/ft casing to 3850'
								Insert Foot Shoe w/Auto-Roll
								L.D DU, 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' <u>92 JTS</u>
								Drop Fillup Ball tests out
	0100							Fin run casing - Tag Bottom
	0110							Rig cir / Rotate casing
								Fin cir - 1st stage
		6					300	Pump 500 gal Head Flush
		6					300	Pump 20 BBL KCL Flush
		4 1/2					250	Mix / Pump 150 SKS EA-2 cent
			36				100	Fin cent - wash-out Pump & Lines
	0205							Drop L.D. DU - Plug - start Disp <u>93 1/2</u>
		9					300	First 60 BBL - HD - start 20 BBL Head
		9 1/2	70				300	Leakoff press - slow rate to 7 BPM
		7	80				500	Blght - 2nd stage KCL flush to head Plug
		5 1/2	90				1000	Slow Rate
	0220		93 1/2				800	Plug Down - Hold - Release & Hold
							1000	Drop D.U. opening device - Plug RT/ULK
		5	5				800	Open D.U. - Fin KCL Flush 30 SKS / 155 SKS
		5					800	start 135 SKS SUD @ 11.2
	0305		75				Ver	Fin out
								Drop D.U. Closing Plug
		5					800	Start Disp HD <u>93 BBL</u>
	0315		33				600	Plug Down - D.U. Closed - Hold & Release
							1900	<u>30 SKS out circulate to Pt.</u>
								Wash up & Backup
	0330							Job Complete
								<i>[Signature]</i>
								Wm. Andrew Nelson



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

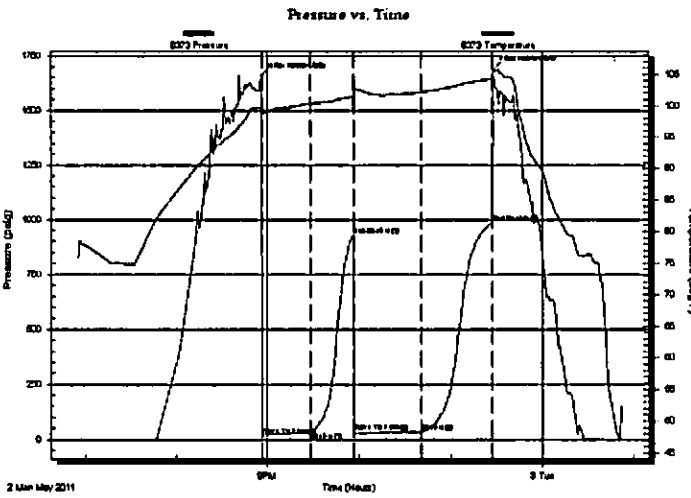
Sunley #1-13
13/14/19/Ellis-KS
Job Ticket: 041106 **DST#: 1**
Test Start: 2011.05.02 @ 18:55:00

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@RunDepth: **35.46 psig @ 3367.00 ft (KB)**
Start Date: **2011.05.02** End Date: **2011.05.03** Capacity: **8000.00 psig**
Start Time: **18:55:05** End Time: **00:51:59** Last Calib.: **2011.05.03**
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

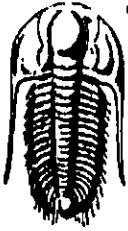
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.69	99.55	Initial Hydro-static
1	17.32	98.88	Open To Flow (1)
32	32.71	100.27	Shut-In(1)
60	929.10	101.43	End Shut-In(1)
60	33.17	101.29	Open To Flow (2)
105	35.46	102.14	Shut-In(2)
151	984.37	104.23	End Shut-In(2)
152	1687.96	105.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	10' GP	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

Downing-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 Downing

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:

bbl

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

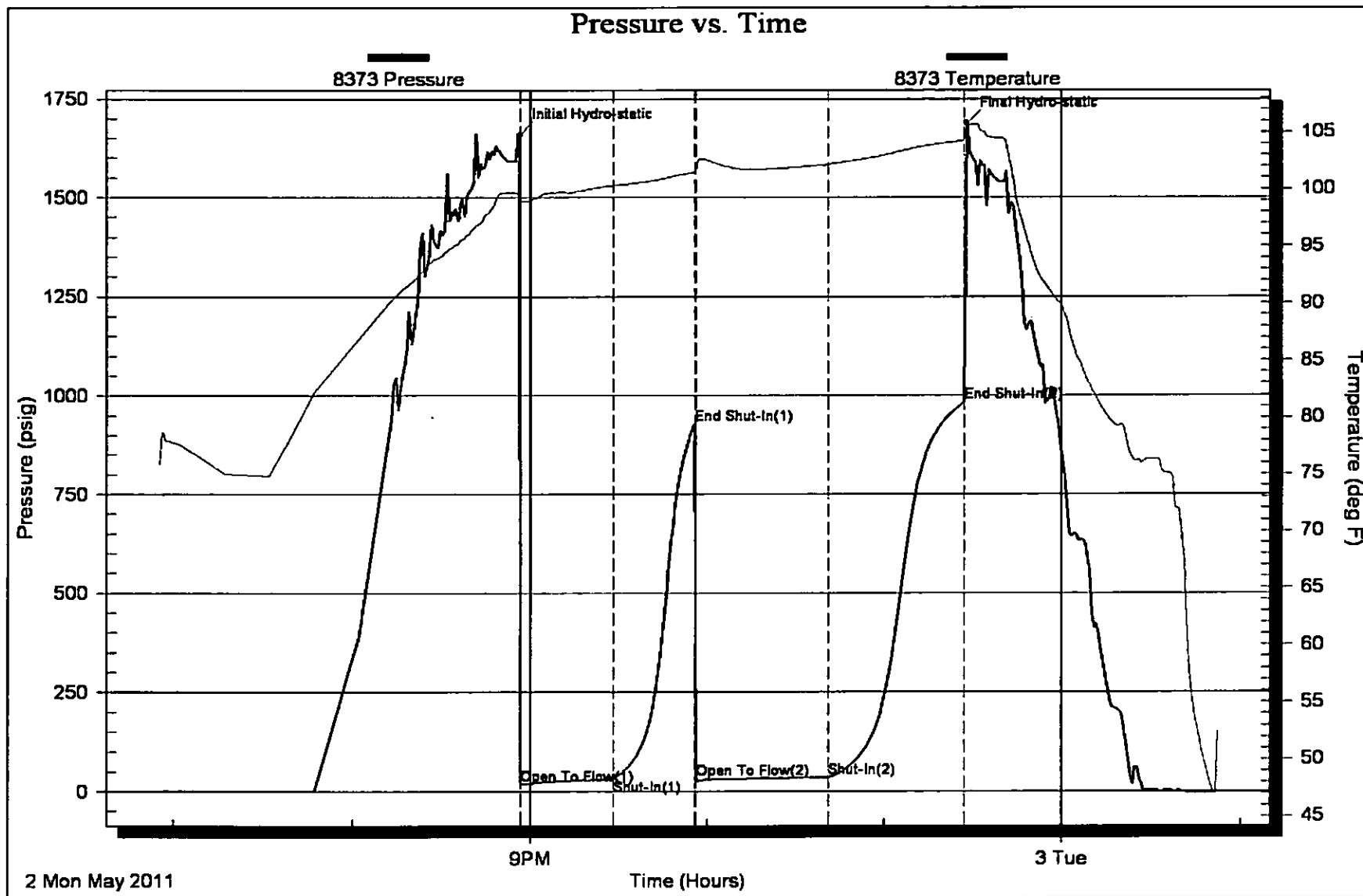
Num Gas Bombs: 0

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

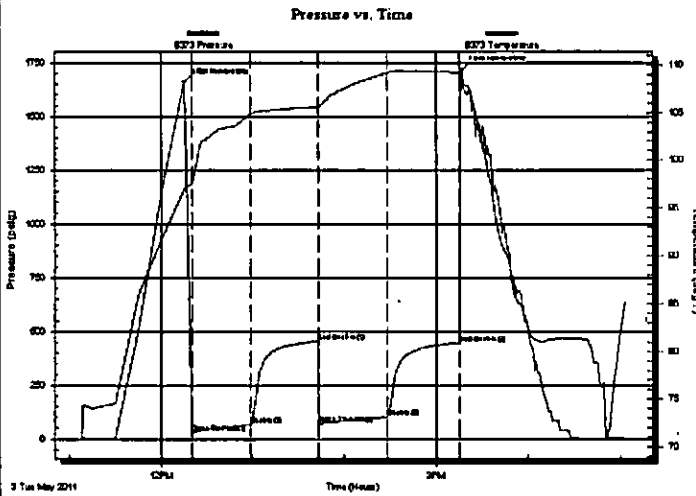
Sunley #1-13
13/14/19/Ellis-KS
Job Ticket: 041107 **DST#: 2**
Test Start: 2011.05.03 @ 11:08:00

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@RunDepth: **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

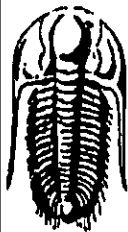
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.27	97.02	Initial Hydro-static
5	29.07	97.54	Open To Flow (1)
44	67.21	104.82	Shut-in(1)
88	456.06	105.58	End Shut-in(1)
89	71.56	105.37	Open To Flow (2)
134	101.13	109.15	Shut-in(2)
181	447.85	109.22	End Shut-in(2)
182	1719.26	108.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP	0.00
62.00	WM 70M 30W	0.60
62.00	OCMV 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:

bbl

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 bbl
0.00	GIP	0.000
62.00	WM 70M 30W	0.596
62.00	OCMV 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

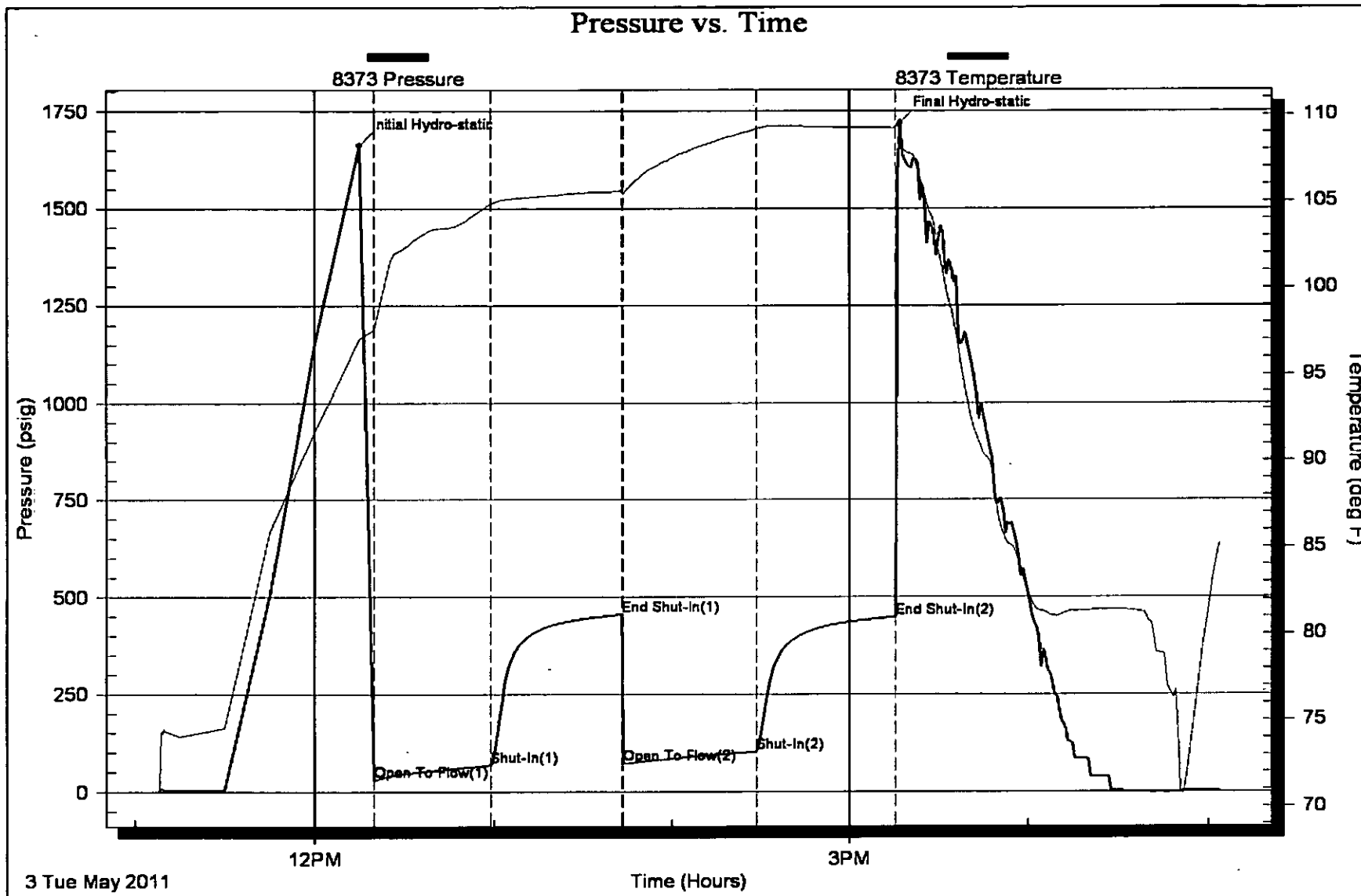
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 37@90 degrees = 34

RW .15 @ 79 degrees = 40000 ppm





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

ATTN: Al Dow ning

Job Ticket: 42560

DST#: 3

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)

Total Depth: 3533.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2160.00 ft (KB)

2154.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8734

Outside

Press@RunDepth: 84.18 psig @ 3510.00 ft (KB)

Start Date: 2011.05.03

End Date:

2011.05.04

Capacity: 8000.00 psig

Last Calib.: 2011.05.04

Start Time: 23:12:25

End Time:

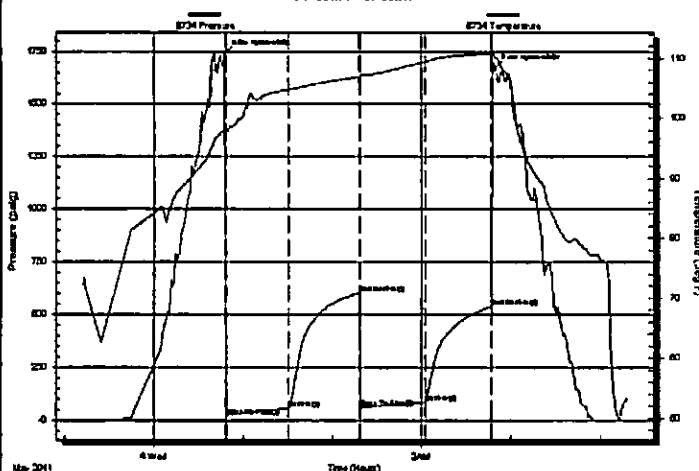
05:17:24

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 vs. Time



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

Downing-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 Downing

Test Start: 2011.05.03 @ 23:12:24

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 80.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 37 deg API
Water Salinity: 96000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
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

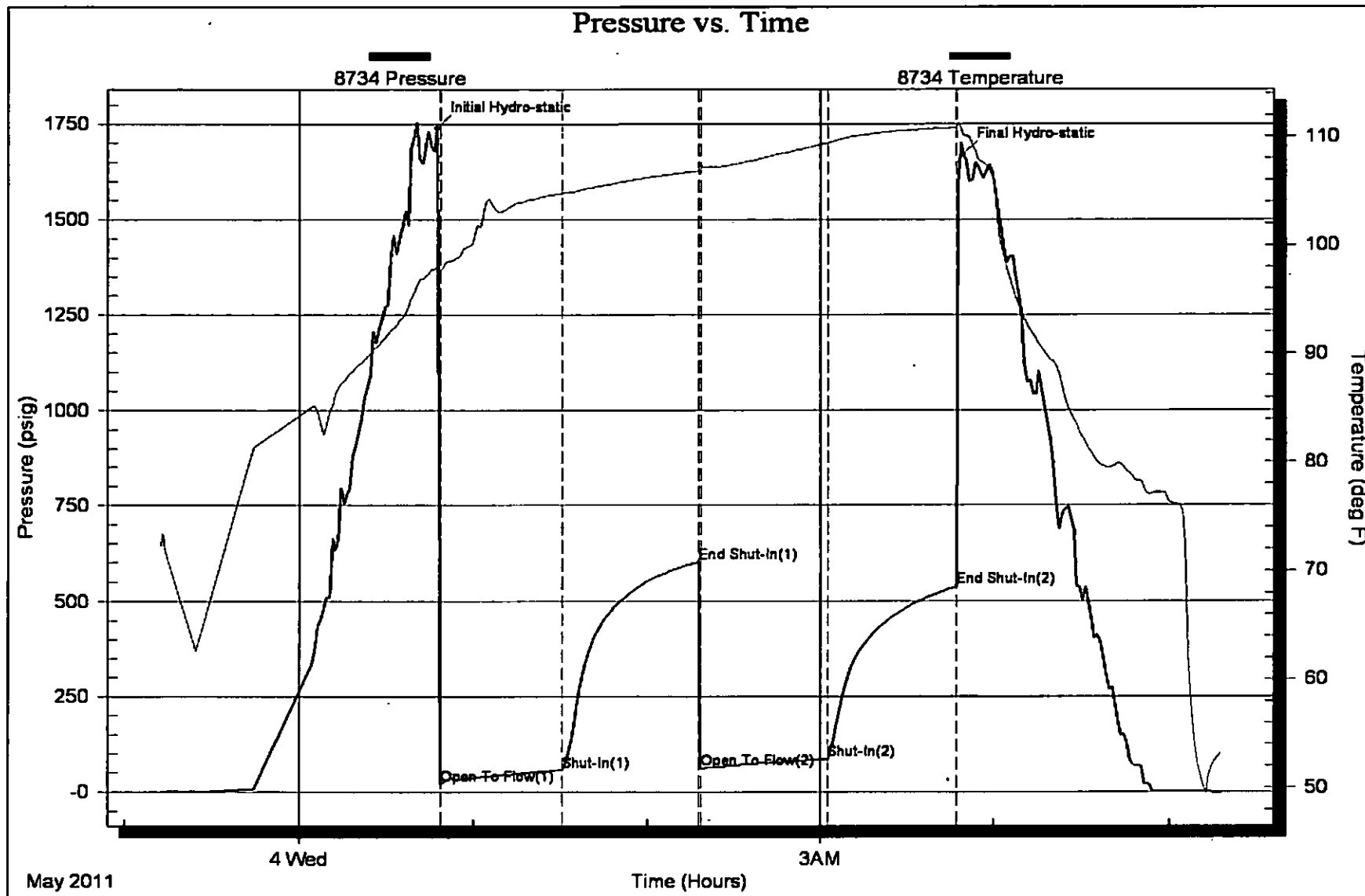
Num Gas Bombs: 0

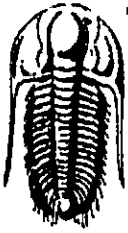
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

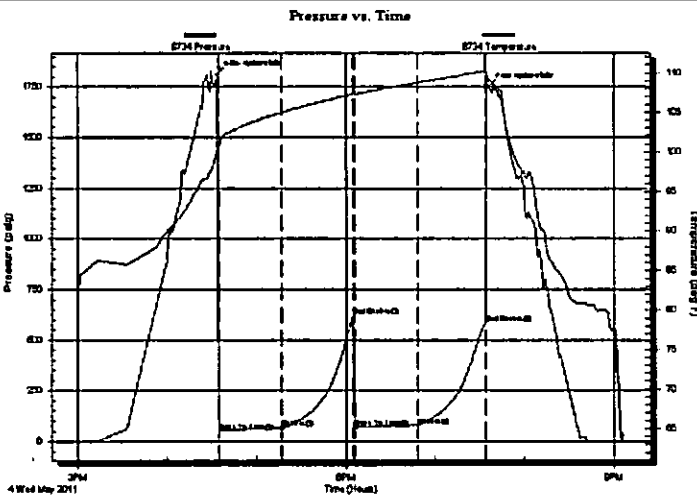
Sunley #1-13
13/14/19 Ellis KS
Job Ticket: 42561 **DST#: 4**
Test Start: 2011.05.04 @ 15:00:59

GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 16:34:59
 Time Test Ended: 21:06:29
 Interval: **3560.00 ft (KB) To 3630.00 ft (KB) (TVD)**
 Total Depth: **3630.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Brian Fairbank**
 Unit No: **41**
 Reference Elevations: **2160.00 ft (KB)**
2154.00 ft (CF)
 KB to GR/CF: **6.00 ft**

Serial #: 8734 **Outside**
 Press@RunDepth: **78.51 psig @ 3563.00 ft (KB)**
 Start Date: **2011.05.04** End Date: **2011.05.04** Capacity: **8000.00 psig**
 Start Time: **15:01:00** End Time: **21:06:29** Last Calib.: **2011.05.04**
 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

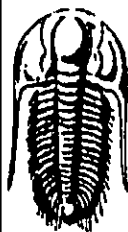
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1812.26	99.96	Initial Hydro-static
1	47.02	100.21	Open To Flow (1)
43	65.95	104.97	Shut-In(1)
91	621.32	107.35	End Shut-In(1)
92	65.25	107.24	Open To Flow (2)
135	78.51	108.78	Shut-In(2)
180	584.99	110.22	End Shut-In(2)
183	1749.89	109.08	Final Hydro-static

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:

bbf

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 bbf
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' GP	0.000

Total Length: 105.00 ft Total Volume: 1.200 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

