



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1215602
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1215602

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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> <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	Sunley 2-13
Doc ID	1215602

Tops

Name	Top	Datum
Top Anhydrite	1412'	+752
Base Anhydrite	1454'	+710
Topeka	3167'	-1003
Heebner	3419'	-1255
Toronto	3438'	-1274
LKC	3466'	-1302
BKC	3690'	-1526
Arbuckle	3800'	-1636

3300

50

3400

50

3500

Sh. Mucroca

Sh. Dk grey

Ls tan chky w/pt sm
Eucaly, sm fr xyle, fr
xyle, sm v. l. w/pt
all NS.

greysh

Dns thin xyle barren

Ls grey mtd, md xyle, sm
fr xyle, sm v. l. w/pt
all NS.

greysh - mic xyle vidua

primary of NS.

Dns grey thin fr xyle
primary

Sh. Mucroca

Dns tan

Sh. Dk grey

Ls tan v. thin, sm xyle, ad-
fr pp fr xyle, soft, fr
spld solid str. No cd
fr xyle, sm v. l. w/pt
all NS.

grey sh grey sh

mic xyle barren

no appens

tan no grey

Dns tan, 12 pcs fr xyle
all NS. fr xyle, sm v. l. w/pt
all NS.

Ls tan mic xyle vidua
NS. fr xyle, sm v. l. w/pt
all NS.

sh grey brn

Ls tan, md xyle, sm fr xyle

DST #1
3376-3395
45' 45" - 45' 15"
1800 2 1/2" Blaw
2nd op 1 1/2" Blaw
ITP 10-21
FPP 24-32
SIP 1099-1066
HP 1606-1615
REC 50' m.c.w. of
SPTS 0121
BFT 1100
Chlorides 40K

DST #1

3376-3395
1099-1066

3376-3395
1099-1066

3376-3395
1099-1066

	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS	

DEPTH

DRILLING TIME Minutes/Foot

5" 10" 15" 20" 25"

Rate of Penetration Decreases

OPERATOR DUGG LOCATION 32.5' FAX # 6720' EE

LEASE Sealey #2-13 SEC 13 TWP 14S RNG 19W

ELEVATION 2164' KR COUNTY Edwards STATE Kansas

RTD 3876'



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company**

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Sunley #2-13

13-14s-19w Ellis,KS

Start Date: 2014.07.11 @ 07:39:30

End Date: 2014.07.11 @ 13:31:00

Job Ticket #: 58912 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.17 @ 10:01:59



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing Nelson Oil Company

13-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Sunley #2-13

Job Ticket: 58912

DST#: 1

ATTN: Ron Nelson

Test Start: 2014.07.11 @ 07:39:30

GENERAL INFORMATION:

Formation: **Lower Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:59:50

Time Test Ended: 13:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 77

Interval: 3376.00 ft (KB) To 3395.00 ft (KB) (TVD)

Reference Elevations: 2168.00 ft (KB)

Total Depth: 3395.00 ft (KB) (TVD)

2160.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 32.15 psig @ 3377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.11

End Date:

2014.07.11

Last Calib.:

2014.07.11

Start Time: 07:39:31

End Time:

13:31:00

Time On Btm:

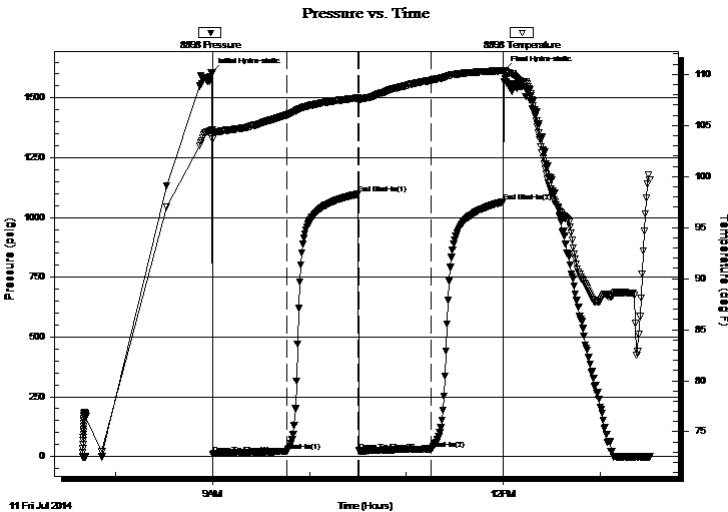
2014.07.11 @ 08:59:40

Time Off Btm:

2014.07.11 @ 12:00:39

TEST COMMENT: Weak surface blow built to 2 1/2"
Dead no blow back
Weak surface blow built to 1 1/2"
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1606.06	104.53	Initial Hydro-static
1	10.44	103.66	Open To Flow (1)
46	21.14	106.03	Shut-In(1)
91	1098.74	107.69	End Shut-In(1)
91	23.80	107.36	Open To Flow (2)
136	32.15	109.43	Shut-In(2)
181	1065.61	110.37	End Shut-In(2)
181	1615.24	110.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	MCW with skim of oil on top 70%W 30%N0.70	

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Company

13-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Sunley #2-13

Job Ticket: 58912

DST#: 1

ATTN: Ron Nelson

Test Start: 2014.07.11 @ 07:39:30

Tool Information

Drill Pipe:	Length: 3378.00 ft	Diameter: 3.80 inches	Volume: 47.38 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 47.38 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3376.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	39.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3361.00	
Hydraulic tool	5.00			3366.00	
Packer	5.00			3371.00	20.00 Bottom Of Top Packer
Packer	5.00			3376.00	
Stubb	1.00			3377.00	
Recorder	0.00	8897	Inside	3377.00	
Recorder	0.00	8898	Outside	3377.00	
Perforations	15.00			3392.00	
Bullnose	3.00			3395.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company

13-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Sunley #2-13

Job Ticket: 58912

DST#: 1

ATTN: Ron Nelson

Test Start: 2014.07.11 @ 07:39:30

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:

40000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	MCW w ith skim of oil on top 70%W 30%M	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

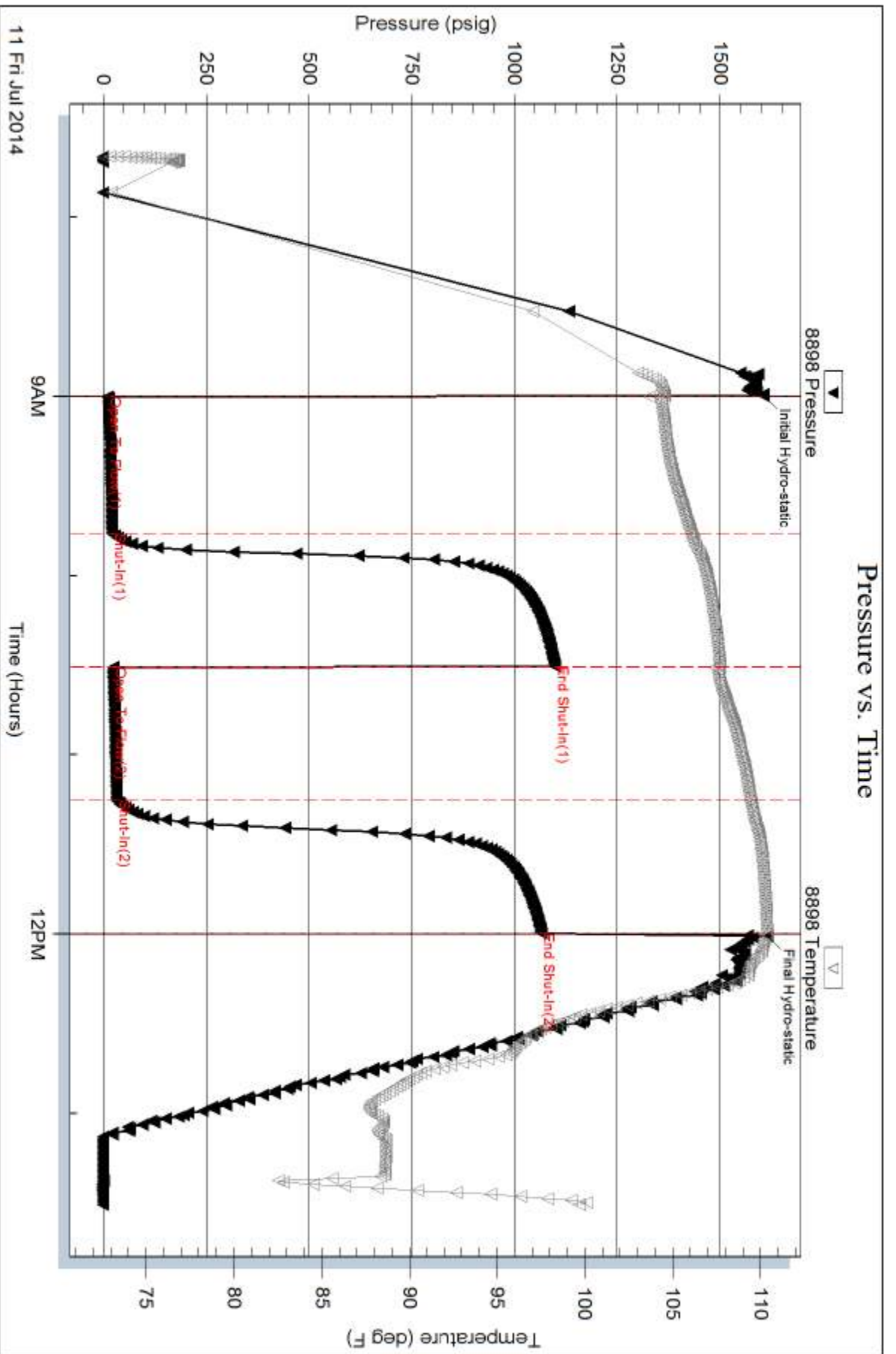
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



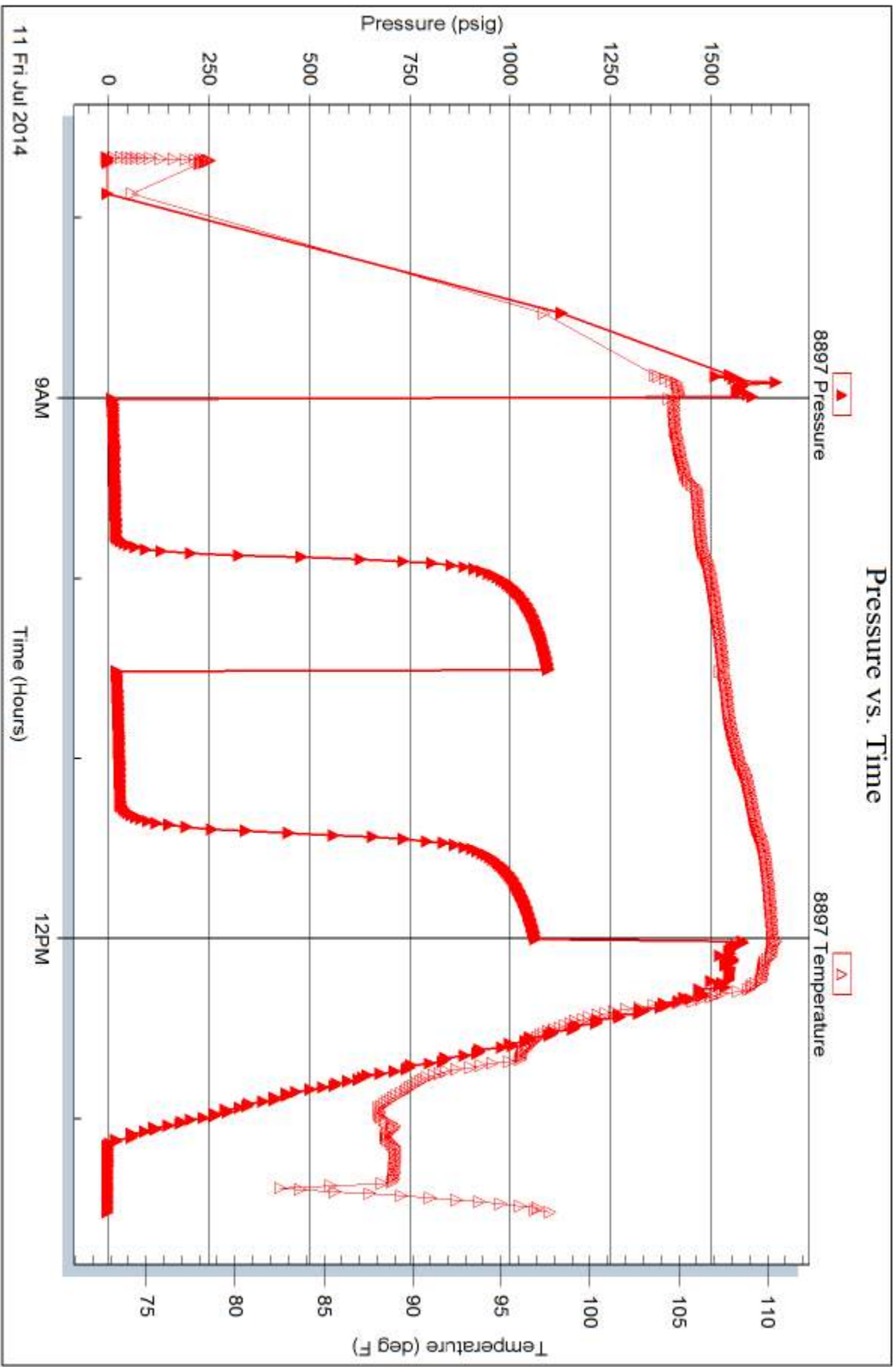
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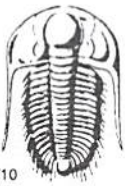
Inside

Downing Nelson Oil Company

Sunley #2-13

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58912

Well Name & No. Sunley # 2-13 Test No. 1 Date 7-11-14
 Company Downing Nelson Oil Company Elevation 2168 KB 2160 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Cantor Rig Discovery #2
 Location: Sec. 13 Twp. 14 Rge. 19 Co. Ellis State KS

Interval Tested 3375 3395 Zone Tested Lower Topeka
 Anchor Length 19 Drill Pipe Run 3378 Mud Wt. 8.7
 Top Packer Depth 3370 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3375 Wt. Pipe Run 0 WL 7.2
 Total Depth 3398 Chlorides 5200 ppm System LCM 2nd

Blow Description Weak surface blow built to 2 1/2 in
Dead No blow back
Weak surface blow built to 1 1/2 in
Dead No blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>50</u>	Feet of <u>mcw With skin of oil</u>			<u>70</u>	<u>30</u>

Rec Total 50 BHT 110 Gravity 1150 API RW 181 @ 90 ° F Chlorides 40000 ppm

(A) Initial Hydrostatic 1666 Test 1150 T-On Location 0545
 (B) First Initial Flow 10 Jars _____ T-Started 0739
 (C) First Final Flow 21 Safety Joint _____ T-Open 0900
 (D) Initial Shut-In 1099 Circ Sub _____ T-Pulled 1200
 (E) Second Initial Flow 24 Hourly Standby _____ T-Out 1331
 (F) Second Final Flow 32 Mileage 14 RT 43.40 Comments Load 7-13
 (G) Final Shut-In 1066 Sampler _____ @ 0450
 (H) Final Hydrostatic 1415 Straddle _____ Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 800
 Final Shut-In 45 Day Standby t20 1/2 Total 1993.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1193.40

Approved By _____ Our Representative [Signature]
 TriLOBITE TESTING INC. shall not be liable for damaged of 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.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 355

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-7-14	13	14	19	Ellis	KS		7:45 p.m.

Location Hays Golf Course Rd 1/2 W ~~to~~

Lease	Well No.	Owner	
<u>Sunley</u>	<u>2-13</u>	<u>25 1/2 W 1/2 S W. into</u>	
Contractor	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Type Job			
Hole Size	T.D.	Charge To	
<u>12 1/4</u>	<u>221</u>	<u>Downing/Nelson</u>	
Csg.	Depth	Street	
<u>8 5/8</u>	<u>220'</u>		
Tbg. Size	Depth	City	
		State	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered	
<u>15'</u>	<u>15'</u>	<u>150 com 3/4 2/CBL</u>	
Meas Line	Displace		
	<u>13 B L</u>		

EQUIPMENT

Pumptrk	No.	Cementer	Common
<u>20</u>		<u>Craig</u>	<u>150</u>
		Helper	Poz. Mix
		<u>Vick</u>	
Bulktrk	No.	Driver	Gel.
		<u>Clayton</u>	<u>3</u>
Bulktrk	No.	Driver	Calcium
<u>15</u>		<u>Clayton</u>	<u>5</u>

JOB SERVICES & REMARKS

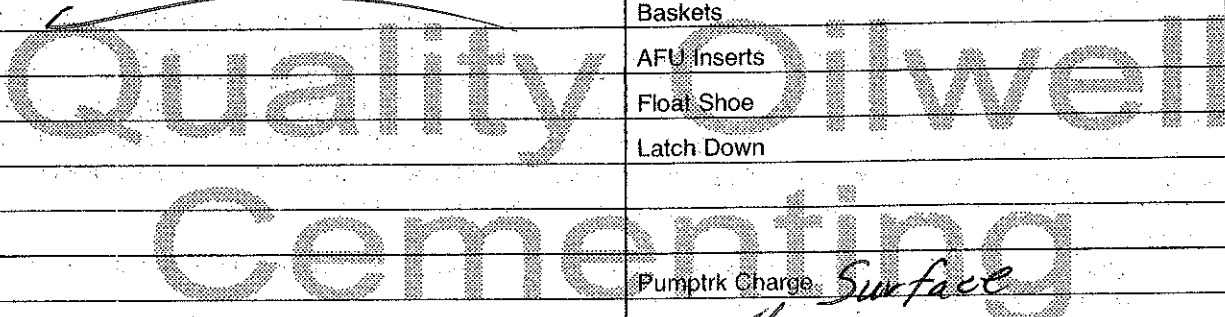
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

8 5/8 on bottom. Est. Circulation.
Mix 150 sk & Displace.

Cement Circulated!

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down



Pumptrk Charge Surface
Mileage 4

X Signature [Handwritten Signature]

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 558

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-13-2014	13	14	19	ELLIS	KANSAS		1:00 AM

Location HAY'S KS, GOLF COURSE RD, 2W TO 220"

Lease Sunley Well No. 2-13 Owner 25 TO SKY VIEW RD 1/4 W INTO

Contractor Discovey DeG. Rig #2 To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Rotary Plug 7 7/8 Hole Charge To Downing & Nelson Oil Co Inc

Hole Size 7 7/8 T.D. 3878 Street

Csg. 8 5/8 Surface Depth 221 City State

Tbg. Size 4 1/2 X-H Depth @ 3782' The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Amount Ordered 305 SX - 60 4 3/8 GEL

Cement Left in Csg. Shoe Joint Cement Amount Ordered 1/4 # Flt Seal Per SX

Meas Line Displace

EQUIPMENT Common 183

Pumptrk <u>18</u> No.	Cementer	<u>Allen G.</u>	Common
	Helper	<u>Cody B.</u>	Poz. Mix <u>122</u>
Bulktrk <u>13</u> No.	Driver	<u>Doug H.</u>	Gel. <u>11</u>
	Driver		Calcium

JOB SERVICES & REMARKS Hulls

Remarks: Salt

Rat Hole 30 SX Flowseal 76#

Mouse Hole 15 SX Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

50 SX @ 3782' Handling 316

50 SX @ 1430' Mileage

100 SX @ 740' **FLOAT EQUIPMENT**

50 SX @ 280' Guide Shoe

10 SX @ 40' + Plug Centralizer

30 SX @ Rat Hole Baskets

15 SX @ Mouse Hole AFU Inserts

8 5/8 wooden Wiper Plug Float Shoe

Plug Latch Down
Pumptrk Charge
Mileage 4
Tax
Discount
Total Charge

Signature J. Wil

THANKS