KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1085073

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: Jason Alm
Purchaser: Coffeyviller Resources

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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 #:

06/14/2012	06/20/2012	06/21/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-21982-00-00
Spot Description:
NW - NE - SW - SE Sec. 3 Twp. 18 S. R. 18 [ ] East [x] West
1240 Feet from [ ] North / [x] South Line of Section
1860 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [x] SE [ ] SW
County: Rush
Lease Name: Erbes Trust Well #: 1-3
Field Name: LaCrosse East
Producing Formation: Arbuckle
Elevation: Ground: 2067 Kelly Bushing: 2075
Total Depth: 3910 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1234 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 19000 ppm Fluid volume: 1200 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Blackhawk Production Company
Lease Name: Brull License #: 32504
Quarter NW Sec. 30 Twp. 14 S. R. 18 [ ] East [x] West
County: Ellis Permit #: D26232

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:
- [x] Wireline Log Received
- [x] Geologist Report Received
- [ ] UIC Distribution

ALT [x] I [ ] II [ ] III Approved by: Deanna Garrisor Date: 09/17/2012

Side Two

1085073

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Erbes Trust Well #: 1-3

Sec. 3 Twp. 18 S. R. 18 ☐ East ☑ West County: Rush

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

Micro
Dual Induction
Compensated Neutron Density

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Top Anhydrite	1224'	+852
Base Anhydrite	1256'	+820
Heebner	3406'	-1330
Toronto	3424'	-1348
LKC	3458'	-1382
BKC	3727'	-1651
Arbuckle	3822'	-1746

CASING RECORD ☑ New ☐ 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	1234	Common	450	2% Gel & 3% CC
Production String	7.875	5.5	14	3908.45	EA/2	125	

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 *(Amount and Kind of Material Used)*	Depth
4	3830' to 3832'		

TUBING RECORD: Size: 2.375 Set At: 3846.73 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 07/19/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

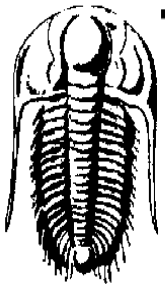
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	34	0	4		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Erbes Trust #1-3

3-18s-18w Rush,KS

Start Date: 2012.06.20 @ 01:31:05
End Date: 2012.06.20 @ 09:57:39
Job Ticket #: 47880 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.25 @ 16:13:31

DRILL STEM TEST REPORT

Downing-Nelson Oil Co

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

3-18s-18w Rush,KS

Erbes Trust #1-3

Job Ticket: 47880 **DST#: 1**

Test Start: 2012.06.20 @ 01:31:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:38:30
Time Test Ended: 09:57:39

Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 39

Interval: 3793.00 ft (KB) To 3840.00 ft (KB) (TVD)
Total Depth: 3840.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

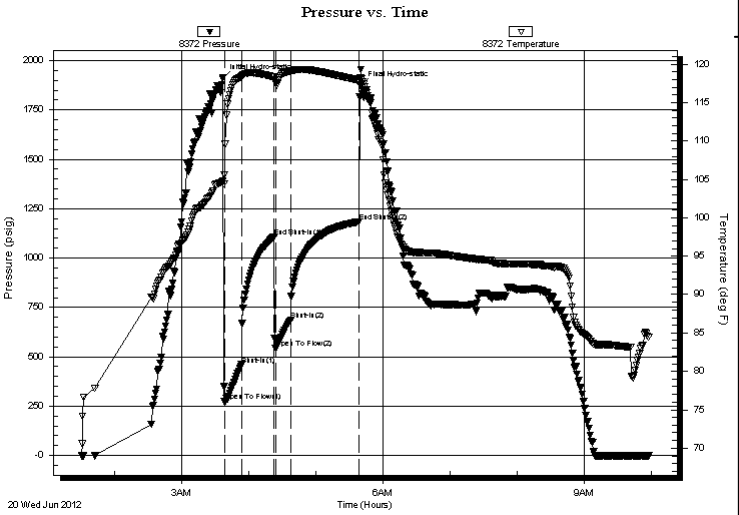
Reference Elevations: 2075.00 ft (KB)
2067.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8372 **Outside**

Press@RunDepth: 685.91 psig @ 3800.00 ft (KB)
Start Date: 2012.06.20 End Date: 2012.06.20
Start Time: 01:31:05 End Time: 09:57:40

Capacity: 8000.00 psig
Last Calib.: 2012.06.20
Time On Btm: 2012.06.20 @ 03:37:00
Time Off Btm: 2012.06.20 @ 05:40:00

TEST COMMENT: IF:(15min) BOB, 30 sec.
ISI:(30min) Return Blow , Built to 2". Died in 23 min.
FF:(15min) BOB, 30 sec.
FSI:(60min) Return Blow , Built to 2". Died in 19 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.14	104.76	Initial Hydro-static
2	274.97	105.59	Open To Flow (1)
17	460.07	118.34	Shut-In(1)
46	1107.86	118.30	End Shut-In(1)
47	544.85	117.60	Open To Flow (2)
61	685.91	119.06	Shut-In(2)
122	1184.03	117.90	End Shut-In(2)
123	1871.57	118.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO g=20% m=35% o=45%	1.41
1780.00	GO g=20% o=80%	24.97
0.00	GIP= 270ft	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Co

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

3-18s-18w Rush,KS

Erbes Trust #1-3

Job Ticket: 47880 **DST#: 1**

Test Start: 2012.06.20 @ 01:31:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:38:30
Time Test Ended: 09:57:39

Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 39

Interval: 3793.00 ft (KB) To 3840.00 ft (KB) (TVD)
Total Depth: 3840.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

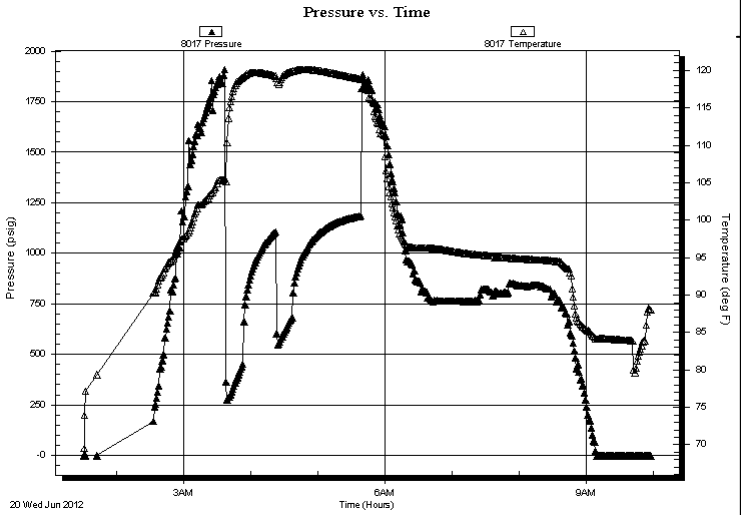
Reference Elevations: 2075.00 ft (KB)
2067.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8017 **Inside**

Press@RunDepth: psig @ 3800.00 ft (KB)
Start Date: 2012.06.20 End Date: 2012.06.20
Start Time: 01:31:05 End Time: 09:57:40

Capacity: 8000.00 psig
Last Calib.: 2012.06.20
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:(15min) BOB, 30 sec.
ISI:(30min) Return Blow , Built to 2". Died in 23 min.
FF:(15min) BOB, 30 sec.
FSI:(60min) Return Blow , Built to 2". Died in 19 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO g=20% m=35% o=45%	1.41
1780.00	GO g=20% o=80%	24.97
0.00	GIP= 270ft	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

3-18s-18w Rush,KS

Erbes Trust #1-3

Job Ticket: 47880 **DST#: 1**

Test Start: 2012.06.20 @ 01:31:05

Tool Information

Drill Pipe:	Length:	3763.00 ft	Diameter:	3.80 inches	Volume:	52.78 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		70000.00 lb
					Total Volume:	52.93 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	53000.00 lb
Depth to Top Packer:		3793.00 ft						Final	62000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		47.00 ft							
Tool Length:		67.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3774.00		
Shut In Tool	5.00			3779.00		
Hydraulic tool	5.00			3784.00		
Packer	5.00			3789.00	20.00	Bottom Of Top Packer
Packer	4.00			3793.00		
Stubb	1.00			3794.00		
Perforations	5.00			3799.00		
Change Over Sub	1.00			3800.00		
Recorder	0.00	8017	Inside	3800.00		
Recorder	0.00	8372	Outside	3800.00		
Drill Pipe	31.00			3831.00		
Change Over Sub	1.00			3832.00		
Perforations	5.00			3837.00		
Bullnose	3.00			3840.00	47.00	Bottom Packers & Anchor
Total Tool Length:	**67.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

3-18s-18w Rush,KS

Erbes Trust #1-3

Job Ticket: 47880 **DST#: 1**

Test Start: 2012.06.20 @ 01:31:05

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	8.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 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
120.00	GMCO g=20% m=35% o=45%	1.410
1780.00	GO g=20% o=80%	24.969
0.00	GIP= 270ft	0.000

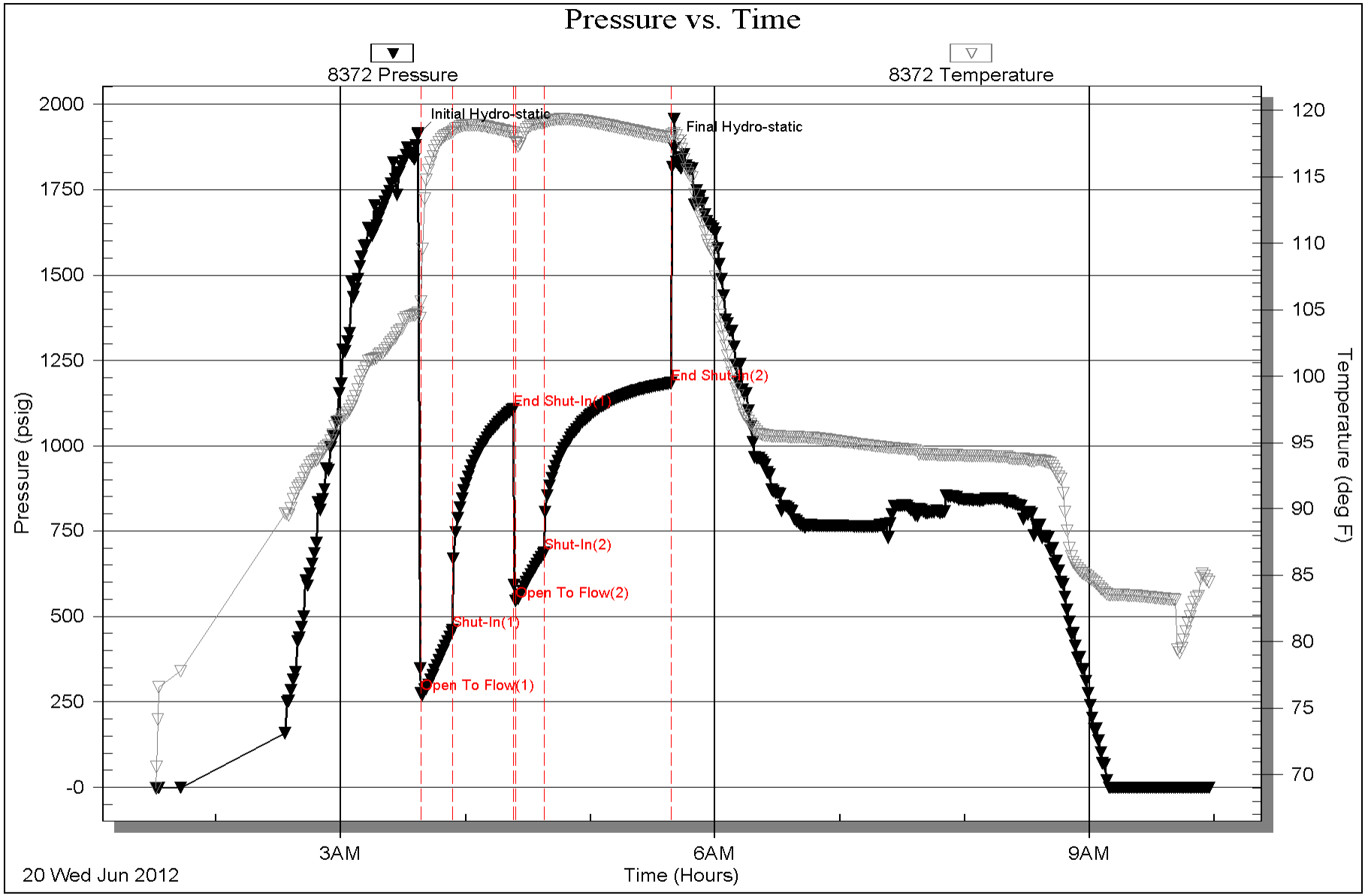
Total Length: 1900.00 ft Total Volume: 26.379 bbl

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

Laboratory Name: Laboratory Location:

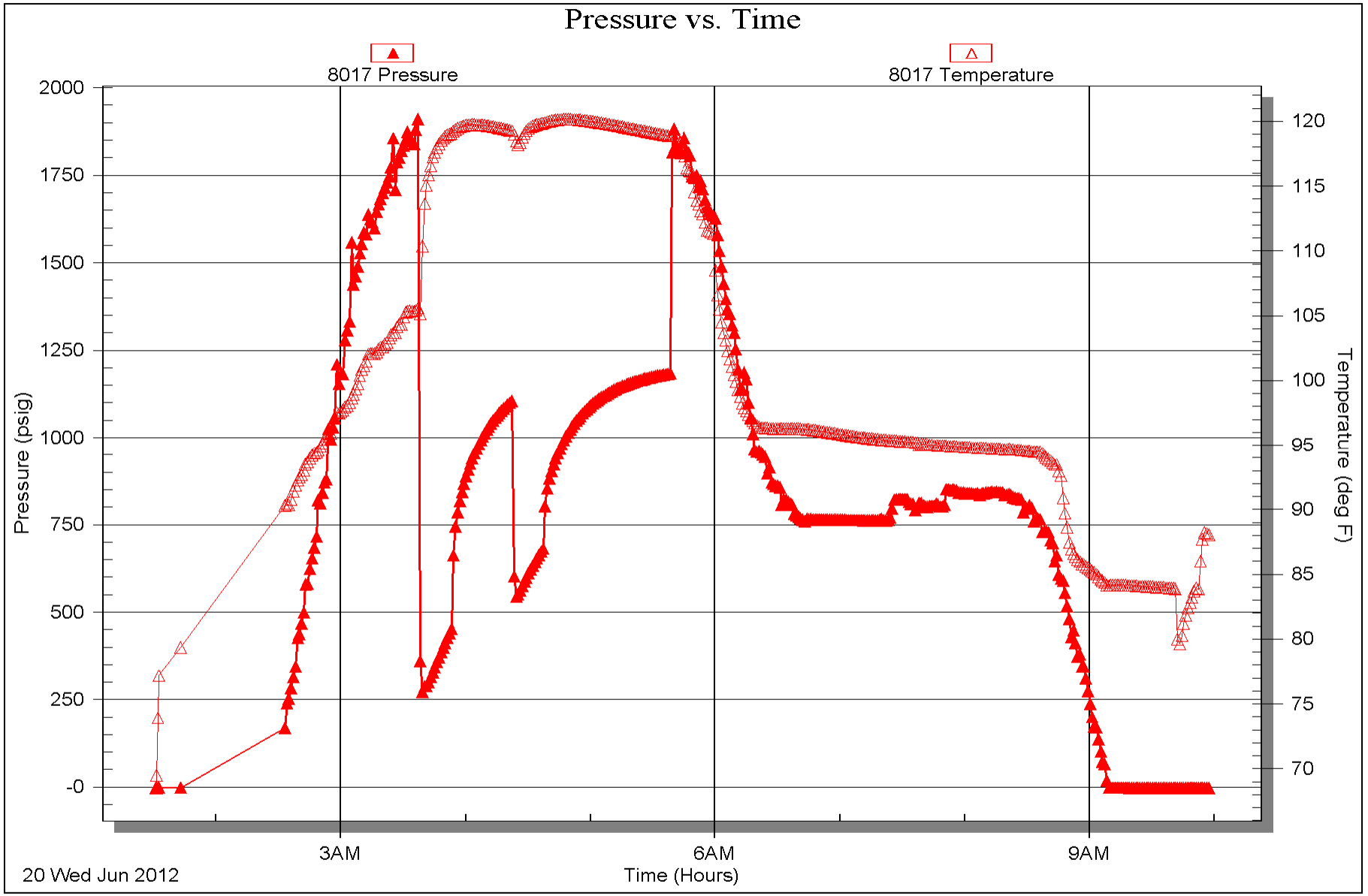
Recovery Comments:

Serial #: 8372 **Outside** Dow ning-Nelson Oil Co Erbes Trust #1-3 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 47880 Printed: 2012.06.25 @ 16:13:33

Serial #: 8017 **Inside** Dow ning-Nelson Oil Co Erbes Trust #1-3 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 47880 Printed: 2012.06.25 @ 16:13:34

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 47880

Well Name & No. Erbes Trust #1-3 Test No. 1 Date 6-20-12

Company DNOC Elevation 2075 KB 2067 GL

Address PO Box 1019 Hays Ks. 67601

Co. Rep / Geo. Marc Downing Rig Discovery #4

Location: Sec. 3 Twp. 18S Rge. 18W Co. Rush State Ks

Interval Tested 3793-3840 Zone Tested Arbuckle

Anchor Length 47' Drill Pipe Run 3763 Mud Wt. 8.5

Top Packer Depth 3788 Drill Collars Run 30 Vis 53

Bottom Packer Depth 3793 Wt. Pipe Run 0 WL 8.0

Total Depth 3840 Chlorides 3000 ppm System LCM 2#

Blow Description IF: BOB, 30 sec.
ISI: Return blow, Built to 2". Died in 23min
FF: BOB, 30 sec.
FSI: Return blow, Built to 2", Died in 19min

Rec 1780	Feet of GO	20 %gas	80 %oil	%water	%mud	
Rec 120	Feet of GMCO	20 %gas	45 %oil	%water	35 %mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec 270	Feet of GIP	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 1900' BHT 117° Gravity 39 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1909	☑ Test ← 1150	T-On Location 00:25	
(B) First Initial Flow 274	☐ Jars	T-Started 01:31	
(C) First Final Flow 460	☐ Safety Joint	T-Open 03:38	
(D) Initial Shut-In 1107	☑ Circ Sub ← 50	T-Pulled 05:38	
(E) Second Initial Flow 544	☑ Hourly Standby ← .5h 50	T-Out 09:58	
(F) Second Final Flow 685	☑ Mileage 56RT 86.80	Comments	
(G) Final Shut-In 1184	☐ Sampler		
(H) Final Hydrostatic 1871	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 15	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0	
Final Flow 15	☐ Day Standby	Total 1336.80	
Final Shut-In 60	☐ Accessibility	MP/DST Disc't	
	Sub Total 1336.80		

Approved By Our Representative

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. 4611

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-15-12	11	18	18	Rush	KS		945 pm

Lease | Well No. 1-3 ERBES trust | Location Lacrosse 1S 1E N into

Contractor | Owner Downing Nelson Oil Co Inc

Type Job Surface | 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.

Hole Size 12¼ | T.D. ~~1234~~ 1234 ft

Csg. 8 5/8 | Depth ~~1230~~ 1234

Tbg. Size | Depth 1234 ft

Tool | Depth

Cement Left in Csg. ~~35~~ 35 ft | Shoe Joint 35 ft

Meas Line | Displace ~~71 5/8~~ 76 BBL

Charge To Downing - Nelson Oil Co

Street PO Box 1019

City hays State KS

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 450 3%cc 2%gel

EQUIPMENT

Pumptrk 44	No.	Cementer	Matt
		Helper	
Bulktrk 44-12	No.	Driver	Doug
		Driver	
Bulktrk	No.	Driver	Rich
		Driver	

PU

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement did Circulate

Common	450
Poz. Mix	
Gel.	~~5~~ 9
Calcium	~~20~~ 16
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	475
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	1 Rubber plug
Latch Down	
	Baffle plate
Pumptrk Charge	Long Surface
Mileage	31
Tax	
Discount	
Total Charge	

X Signature Mike Loscher

JOB LOG — **SWIFT Services, Inc.** — DATE 21 Jun 12 — PAGE NO. 1

CUSTOMER Deering & Nelson | WELL NO. 1-3 | LEASE Erbes Trust | JOB TYPE cement long string | TICKET NO. 23124

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
								1805K EA-2 w/ ½#/sk flocele
								5½" x 14# casing 94 joints 3908'
								insert @ 3865 RTD
								Cent 1, 3, 5, 7, 9, 11 Basket 2
	0530							on loc TRK 114
	0620							start 5½" 14# casing in well
	0805							Drop ball - circulate - ROTATE
	0835	4¾	12				250	Pump 12 bbl mud flush
		4¾	20				250	Pump 20 bbl KCL flush
	0842		7					Plug RH - MH 30 sks - 20 sks
	0849	4¾	37				250	mix EA-2 cement 130 sks @ 15.3 ppg
								Drop latch down plug
								wash out pump & line
	0916	~~6¾~~ 6¾					200	Displace plug
		~~6¾~~ 6¾	80				750	
	0930	~~6¾~~	94				1500	land plug
								Release pressure to truck - dried up
								wash truck
								Rack up
	1000							job complete
								Thanks
								Isaac, Dave, & Edwino

Marc Downing

Consulting Petroleum Geologist
1411 Washington Circle
Hays, Ks 67601
Phone: 620-428-1356 (cell) 785-621-2286

GEOLOGIC REPORT LOG

COMPANY Downing-Nelson Oil Co, Inc.
WELL Erbes #1-3
FIELD Wildcat
LOCATION 1240 FSL & 1960 FEL
SEC. 3 TWP. 18s RGE. 19w
COUNTY Rush
STATE Kansas
OPERATOR DNOCI
CONTRACTOR Discovery Drilling, Rig #4
COMM: 6-14-12 COMP: 6-20-12

18s 19w — 3

PRODUCTION Arbuckle
ELEVATION KB 2076 DF GL 2068
Drilling Measured From: KB
Samples Saved From: 3400 To: TD
Drilling Time From: 3300 To: TD
Samples Examined From: 3400 To: TD
Geological Supervision From: 3330 To Total Depth
Wellsite Geologist: Marc Downing
Electrical Surveys: Superior
CNL/CDL
DIL
MEL

CASING RECORD

SURF: 8⅝" @ 1234' PROD: 5½" @ 3908'
TOTAL DEPTH DRILLERS: 3910'
TOTAL DEPTH LOG: 3908

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	1223	1224	+852	NA
Base Anhydrite	1266	1256	+820	-3
Heebner	3406	3406	-1330	-1
Toronto	3426	3424	-1348	FL
LKC	3460	3458	-1382	+3
BKC	3728	3727	-1651	NA
Arbuckle	3924	3922	-1796	+15

REFERENCE WELL FOR STRUCTURE Bergman Oil Co.
Erbes #3 SE-NE-SE Sec. 3-18s-19w

DAILY PENETRATION / BIT RECORD

DATE	DEPTH	NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS Ø S W

DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	HH-FHH	RECOVERY

REMARKS AND RECOMMENDATIONS: Perforate "I" zone (3640-42) & "C" zone (3478-85) before abandonment.

7515

LOG 7710

LEGEND

Anhydrite, Salt, Sandstone, Shale, Carb sh, Limestone, Ool.Lime, Chert, Dolomite

DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Decreases) 5" 10" 15" 20" 25"	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	3300				
	50				
	3400		Sh: Black Carb		
Heebner 3406(-1330)			Sh: gry		
Toronto 3426(-1350)			LS: Wht w/ tan, Fn xln, pr Ø. All vdms w/ NS, No Od.		
	50		Sh: gry - lt gy.		
LKC 3460(-1384)			LS: Wht, Fn-md xln. Scat pr oocØ, rx sub xln in prt. Trng vdms w/ No vis Ø, NS.		
			Sh: gry lt gry		
			LS: Wht, md xln, Fr-gd oocØ, scat Fr-gd sat w/ Fr SFO. Fr amt barren Ø, lt-Fr Od.	•	
	3500		LS: Wht, Fn-md xln, oocØ in prt, rx sltly suc w/ Fr intxlnØ. lt sat stn w/ spttd SFO, lt Od.	•	
			LS: Wht - lt tan, Fn-md xln, scat ool & Foss. All prØ & dns. Rx trng mtld w/ depth		
			Sh: Black Carb		
			LS: Wht, Fn-md xln, Foss, Fr int+FossØ, subxln. Few mtld rx, scat stn & sptld SFO, Fnt Od.	•	
	50		LS: Wht, Fn-md xln, scat oocØ, mostly subxln. All NS.		
			LS: Wht, ool. gd oocØ w/ chlky rx All NS.		
			LS: Wht, Fn xln, prØ, scat oocØ, 1-2 pcs w/ lt stn, F-t Od. Many sub xln rx.		
	3600		Sh: dk gry		
			LS: Wht, Fn-md xln scat ool, All prØ & dns, NS.		
			Sh: gry		
			Sh: gry		
			LS: Wht, md-Fn xln. Fr oocØ, sml ool. 1-2 pcs w/ pr stn, NSFO, No Odor.	•	
	50		Sh: gry		
			LS: Wht. lt tan, ool. prØ, mostly tite, Totally barren.		
			Sh: gry		
			LS: Wht, Fn xln, scat sub xln-chlky rx, NS.		
			LS: Wht, Fn xln, dns w/ prØ, scat ool.		
	3700		Sh: gry		
			LS: Wht, Fn xln, Fr amt subxln-chlky rx, mtld in prt, NS.		
BKC 3728(-1652)			Sh: brn w/ gry		
			Sh: gry w/ brn.		
	50		LS: tan-wht, md xln, mtld.		
			Sh: brn w/ red		Vis: 53 Wt: 8.9
			LS: AIA		DST #1
			Sh: gry w/ brn		3793-3840
			LS: Wht, Fn-md xln, prØ, Abut org chts.		15-30-15-60
	3800	DST #1	LS: Some AIA, trng less chts, dns, few sndy pcs.		I.F.-BOB 30sec/2" SIB; F.F.-BOB 30sec/2" SIB; IFP: 275-460; FFP: 645-686; SIP: 1109-1184; HP: 1909-1872
			Sh: gry w/ some brn		Rec: 270' GIP; 1780' GO 80%o; 120' GMCO 20%g, 45%o
Arbuckle 3924(-1748)			Dolo: Wht, Fn-md rhom xln, Fr-gd mtxlnØ w/ Few sml vugs. Fr-lt brn sat w/ lt SFO. Fnt-lt Od.	•	BHT: 118° G=39
			Dolo: Wht, trng md-crs rhom xln, Fr intxln & Frac Ø. Fr lt stn w/ lt SFO, Fnt-lt Od.		
CFS ⊙	50		Dolo: Wht, Fn-md rhom xln, gd int xlnØ, Friable. gd sat stn, gd SFO, gssy in prt. lt-Fr Od. Rx trng md-crs rhom xln, sltly tite, scat barren rx.	:	
			Dolo: Wht, md-crs rhom xln, gd int xlnØ. Friable. Fr-gd sat w/ gd SFO, lt-Fr Od.	:	
			Dolo: Wht, md-crs rhom xln, tite w/ prØ, scat Fr stn w/ Fr SFO when broken. No Od.	•	
			Dolo: Wht, md-crs rhom xln, Fr intxln & vugØ, sandy in prt. Trng mostly barren. 1-2 pcs w/ gilsonite, No Od.		
	3900		Dolo: Wht, md-crs rhom xln. prØ & tite. Scat sndy rx. Barren.		
RTD: 3910(-1834) LTD: 3908(-1832)					

Marc Downing [signature]