

Kansas Corporation Commission Oil & Gas Conservation Division

1070979

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	

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:

Side Two



INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stem time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach com line Logs surveyed. Attach final geological well site report. Drill Stem Tests Taken (Attach Additional Sheets) Samples Sent to Geological Survey Yes No Cores Taken Yes No Electric Log Run Electric Log Submitted Electronically Yes No Electric Log Submitted Electronically	
time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach combine Logs surveyed. Attach final geological well site report. Drill Stem Tests Taken (Attach Additional Sheets) Samples Sent to Geological Survey Yes No Cores Taken Yes No Yes No Yes No Electric Log Run	
(Attach Additional Sheets) Samples Sent to Geological Survey Cores Taken Yes No Electric Log Run Name Top	bottom hole temperature, fluid
Samples Sent to Geological Survey	um Sample
Cores Taken ☐ Yes ☐ No Electric Log Run ☐ Yes ☐ No	Datum
(If no, Submit Copy)	
List All E. Logs Run:	
CASING RECORD New Used Report all strings set-conductor, surface, intermediate, production, etc.	
Purpose of String	Sacks Type and Percent Used Additives
ADDITIONAL CEMENTING / SQUEEZE RECORD	
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone Depth Top Bottom Type of Cement # Sacks Used Type and Percent	Additives
Shots Per Foot PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squee Specify Footage of Each Interval Perforated (Amount and Kind of Material U	
TUBING RECORD: Size: Set At: Packer At: Liner Run:	
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: METHOD OF COMPLETION: PR	ODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Schmeidler 9
Doc ID	1070979

All Electric Logs Run

Sonic
Mirco
Dual Induction
Compensated Density / Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Schmeidler 9
Doc ID	1070979

Tops

Name	Тор	Datum		
Top Anhydrite	1552'	+642		
Base anhydrite	1596'	+598		
Topeka	3232'	-1038		
Heebner	3463'	-1269		
Toronto	3480'	-1286		
LKC	3499'	-1305		
ВКС	3740'	-1546		
Marmaton	3803'	-1609		

ALLIED CEMENTING CO., LLC. 035179

Federal Tax I.D.# 20-5975804

SERVICE POINT:

REMIT TO P.C. BOX 31 RUSSELL, KANSAS 67665 RUSSELL CALLED OUT ON LOCATION JOB START JOB FINISH RANGE 21 SEC. DATE 12-6-11 COUNTY CHMEIGLER LOCATION ELLI'SS - WEST TO REAL 400 TREGO OLD OR NEW (Circle one) 1.5 SOUTH & WEST INTO OWNER CONTRACTOR TYPE OF JOB SURFACE CEMENT 12.25 T.D. HOLE SIZE AMOUNT ORDERED <u>/S/</u> CASING SIZE 8 1/8 DEPTH 228,44 DEPTH TUBING SIZE DRILL PIPE DEPTH TOOL DEPTH 150 @ 16,25 2437.50 COMMON_ MINIMUM PRES. MAX SHOE JOINT POZMIX MEAS, LINE @ 21,25 CEMENT LEFT IN CSG. GEL @ 58,20 29/00 CHLORIDE PERFS. 12.87 566 DISPLACEMENT ASC. EQUIPMENT CEMENTER Bob SmitH PUMPTRUCK 409 HELPER TOOLS BULK TRUCK 0 378 DRIVER ROBERT @ BULK TRUCK **(a)** DRIVER 158 @ 2,25 HANDLING MILEAGE 45×158×1/ 782 · / TOTAL 3929.85 REMARKS: CEMENT TO SURPACE SERVICE ShuT IN WELL-NO PLUE RAN 222.44 DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE _ 45 @ MILEAGE MANIFOLD. 45 @ LOV MILEAGE CHARGE TO: downing-NELSON oil coinc STREET STATE __ ZIP CITY_ 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 contractor to do work as is listed. The above work was TOTAL ______ done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL SALES TAX (If Any)_ TERMS AND CONDITIONS" listed on the reverse side. TOTAL CHARGES 5549.85 PRINTED NAME CLIFF MAY FIELD ___ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 035181 Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
RUSSELL

DATE 12-7-11 SEC. 2 TWP. 9	RANGE 19 w	CALLED OUT	ONLOCATION	JOB START	JOB FINISH
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CONTRACTOR Ad3		OWNER		<u>.</u>	
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# 409 HELPER TOdo					
BULK TRUCK					
# 473 DRIVER DWAY	VE COOLY			@	
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# DRIVER		HANDLING	356.5 X	<u>@3.25_</u>	987.35
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P3 - 700 PT 100 SK					
P4- 272 FT 40 SK		DEPTH OF JO		8SOFT	
PS- 4017 105K			K CHARGE		25000
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mouse- 15 sk		MILEAGE MANIFOLD.		@@	
		LOV mil		5 @ 400	14000
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To Allied Cementing Co., LLC. You are hereby requested to rent c	omenting equipment			@	
and furnish cementer and helper(s	to assist owner or		-	 _@	
contractor to do work as is listed.	The above work was	5			0200
done to satisfaction and supervision	n of owner agent or	-	•	TOTA	AL 92
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SWIFT Services, Inc.

DATE 12-11-11
TICKET NO. 21151

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

GEOLOGIC REPORT LOG

13, 21-

WELL Schmeidler #9 FIELD Hamburg LOCATION IGEO FAIL & T30 FEL SEC. 14 TWP. 13s RGE COUNTY Trego STATE Kansas PERATOR DAGCT CONTRACTOR DISCOVERS DENIES, RISCOMM: 12-5-11 COMP: 12-10 CASING RECORD CURF: 454 @ 222 PROD: 5/2 COTAL DEPTH DRILLERS: 3899 OTAL DEPTH LOG 3900 FORMATION TOPS	21 Ld	PRODUCTION _ ELEVATION Drilling Measured From _ Samples Saved From _ Drilling Time From _ Samples Examined From: Geological Supervision Wellsite Geologist _ Electrical Surveys	KB Z DF GL Z II KB ZAD To: 100 To: 3700 To: From 3100 CVC DOWN	TD TD TD TO TO To Total Depti	
FIELD Hamburg LOCATION 1616 FAC & 736 FEC SEC. 14 TWP. 135 RGE COUNTY Trego STATE Kansas PERATOR DAGCT CONTRACTOR DISCOVER DEVILOS RESOND CASING RECORD OURF: 45/4 @ 222 PROD: 5/2 COTAL DEPTH DRILLERS: 3899 OTAL DEPTH LOG 3900	21 Ld	ELEVATION Drilling Measured From 3 Drilling Time From 3 Samples Examined From: Geological Supervision Wellsite Geologist & Electrical Surveye 5 CM/COL	Mormed KB 2 DF GL 2 IN KB ZAD To: A TO: A TO: From 3100 CVC DOWN WESSIGN	TD TD TD TO TO To Total Depti	
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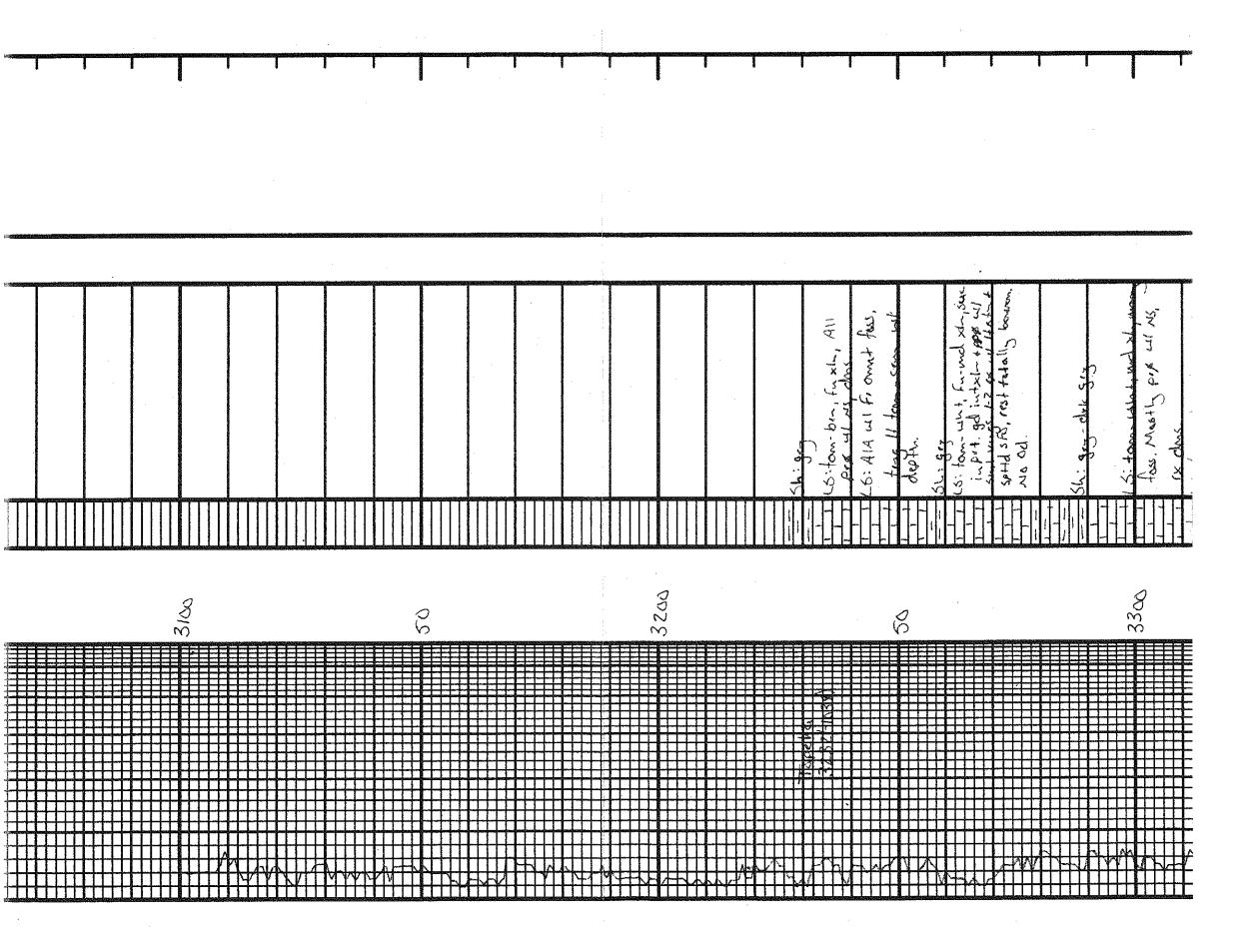
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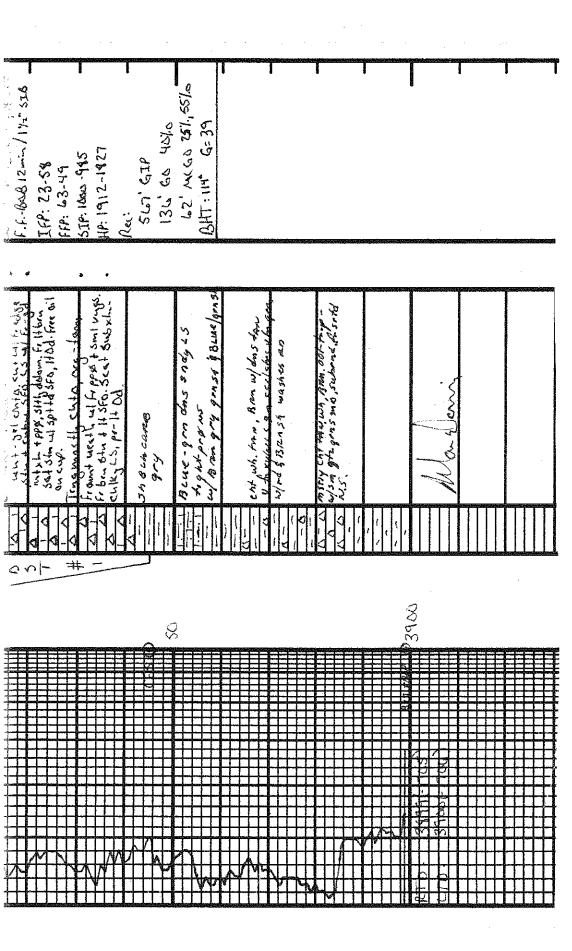
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EGEND	mestone Ool.Lime	SAMPLE DESCRIPTIONS	
ļ Ш	Shole	LITHOLOGY	
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Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019 Hays KS 67601

ATTN: Ron Nelson

Schmeidler #9

14-13s-21w-Trego,KS

Start Date: 2011.12.10 @ 04:35:17 End Date: 2011.12.10 @ 11:53:17 Job Ticket #: 46237 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



Downing-Nelson Oil Co Inc

14-13s-21w-Trego,KS

PO Box 1019 Hays KS 67601 Schmeidler #9

Job Ticket: 46237

DST#: 1

ATTN: Ron Nelson

Test Start: 2011.12.10 @ 04:35:17

GENERAL INFORMATION:

Formation: Marmaton

Interval:

Deviated: Whipstock: No ft (KB)

Time Tool Opened: 06:44:47 Time Test Ended: 11:53:17

3813.00 ft (KB) To 3845.00 ft (KB) (TVD)

Total Depth: 3845.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial)

Jeff Brown

44

Unit No:

2193.00 ft (KB)

Reference Elevations:

2185.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8321 Inside

Press@RunDepth: 3817.00 ft (KB) 94.27 psig @

Start Date: 2011.12.10 End Date: Start Time: 04:35:18 End Time:

2011.12.10 11:53:17

Capacity: Last Calib.:

Tester:

8000.00 psig

2011.12.10

Time On Btm:

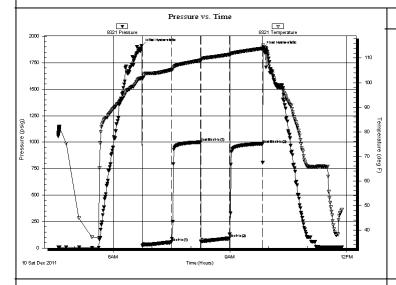
2011.12.10 @ 06:44:17

Time Off Btm: 2011.12.10 @ 09:51:17

TEST COMMENT: IFP-Good blow BOB in 13 1/2 min

ISI-Weak surface blow back built to 1/8 in

FFP-Good Blow BOB in 12 min FSI-Weak surface blow built to 1 1/2 in



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1911.98	101.98	Initial Hydro-static
1	23.19	101.67	Open To Flow (1)
46	58.12	105.23	Shut-In(1)
91	1000.41	109.11	End Shut-In(1)
91	63.01	108.95	Open To Flow (2)
135	94.27	111.44	Shut-In(2)
186	985.31	113.91	End Shut-In(2)
187	1887.27	115.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCGO 20%M25%G55%O	0.60
136.00	Gassy Oil 60%G40%O	1.91
0.00	567-GIP	0.00
-		

Gas Rates

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

Trilobite Testing, Inc Ref. No: 46237 Printed: 2011.12.12 @ 16:31:11



Downing-Nelson Oil Co Inc

14-13s-21w-Trego,KS

PO Box 1019 Hays KS 67601 Schmeidler #9 Job Ticket: 46237

DST#: 1

ATTN: Ron Nelson

Test Start: 2011.12.10 @ 04:35:17

Test Type: Conventional Bottom Hole (Initial)

GENERAL INFORMATION:

Formation: Marmaton

Deviated: Whipstock: No ft (KB)

Time Tool Opened: 06:44:47 Tester: Jeff Brown 44

Time Test Ended: 11:53:17 Unit No:

Interval: 3813.00 ft (KB) To 3845.00 ft (KB) (TVD) Reference Elevations: 2193.00 ft (KB)

Total Depth: 3845.00 ft (KB) (TVD) 2185.00 ft (CF)

7.88 inches Hole Condition: Fair KB to GR/CF: Hole Diameter: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: 3817.00 ft (KB) Capacity: 8000.00 psig psig @

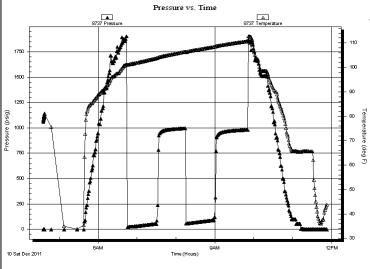
Start Date: 2011.12.10 End Date: 2011.12.10 Last Calib.: 2011.12.10

Start Time: 04:35:18 End Time: Time On Btm: 11:53:17 Time Off Btm:

TEST COMMENT: IFP-Good blow BOB in 13 1/2 min

ISI-Weak surface blow back built to 1/8 in

FFP-Good Blow BOB in 12 min FSI-Weak surface blow built to 1 1/2 in



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PRESSU	RE S	SUMMA	۱R۱

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	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
	(17111.)	(psig)	(acg i)	
Temperature (deg F)				
ture (dec				
9				

Recovery

Description	Volume (bbl)
MCGO 20%M25%G55%O	0.60
Gassy Oil 60%G40%O	1.91
567-GIP	0.00
	MCGO 20%M25%G55%O Gassy Oil 60%G40%O

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Printed: 2011.12.12 @ 16:31:11 Trilobite Testing, Inc Ref. No: 46237



TOOL DIAGRAM

Downing-Nelson Oil Co Inc

14-13s-21w-Trego,KS

PO Box 1019 Hays KS 67601 Schmeidler #9

Job Ticket: 46237

DST#: 1

ATTN: Ron Nelson

Test Start: 2011.12.10 @ 04:35:17

Tool Information

Drill Pipe: Length: 3774.00 ft Diameter: Heavy Wt. Pipe: Length: Drill Collar: Length:

0.00 ft Diameter: 30.00 ft Diameter: 3.80 inches Volume: 52.94 bbl 2.70 inches Volume: 0.00 bbl 2.25 inches Volume:

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 64000.00 lb

0.15 bbl Total Volume: 53.09 bbl

Tool Chased 0.00 ft String Weight: Initial 52000.00 lb

Final 54000.00 lb

Drill Pipe Above KB: 11.00 ft Depth to Top Packer: 3813.00 ft

Depth to Bottom Packer: ft Interval between Packers: 32.00 ft Tool Length: 52.00 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			3794.00		
Shut In Tool	5.00			3799.00		
Hydraulic tool	5.00			3804.00		
Packer	4.00			3808.00	20.00	Bottom Of Top Packer
Packer	5.00			3813.00		
Stubb	1.00			3814.00		
Perforations	3.00			3817.00		
Recorder	0.00	8321	Inside	3817.00		
Recorder	0.00	8737	Outside	3817.00		
Perforations	25.00			3842.00		
Bullnose	3.00			3845.00	32.00	Bottom Packers & Anchor

Total Tool Length: 52.00

Printed: 2011.12.12 @ 16:31:11 Trilobite Testing, Inc Ref. No: 46237



FLUID SUMMARY

Downing-Nelson Oil Co Inc

14-13s-21w-Trego,KS

PO Box 1019 Hays KS 67601 Schmeidler #9

Job Ticket: 46237

DST#:1

ATTN: Ron Nelson

Test Start: 2011.12.10 @ 04:35:17

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:39 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 58.00 sec/qt Cushion Volume: bbl

8.78 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2500.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
62.00	MCGO 20%M25%G55%O	0.596
136.00	Gassy Oil 60%G40%O	1.908
0.00	567-GIP	0.000

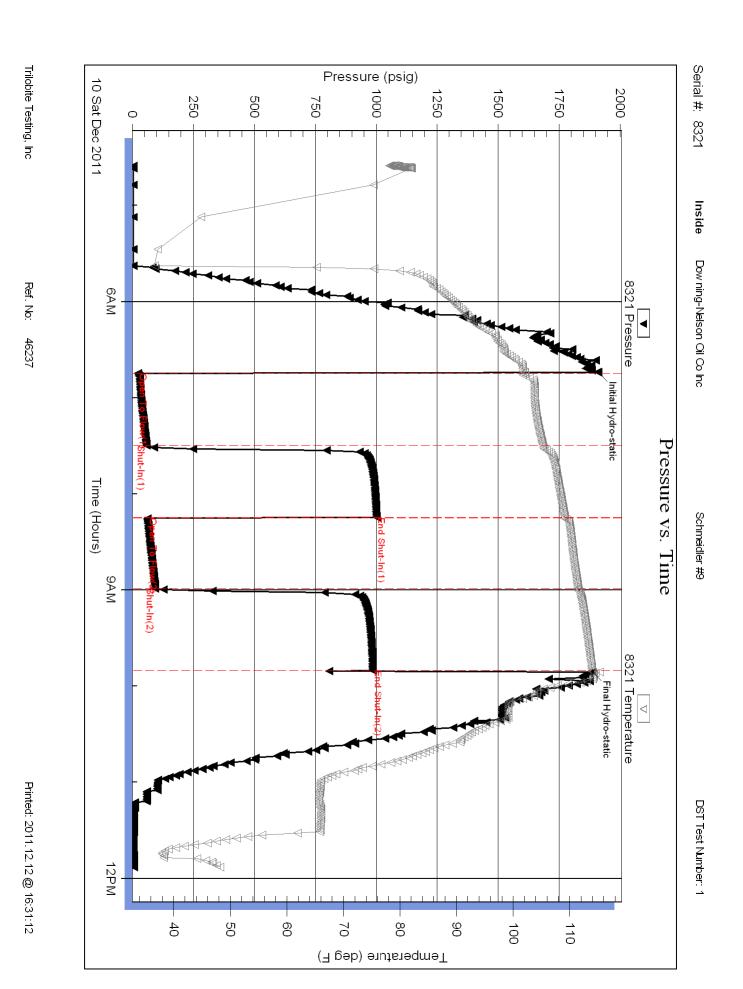
Total Length: 198.00 ft Total Volume: 2.504 bbl

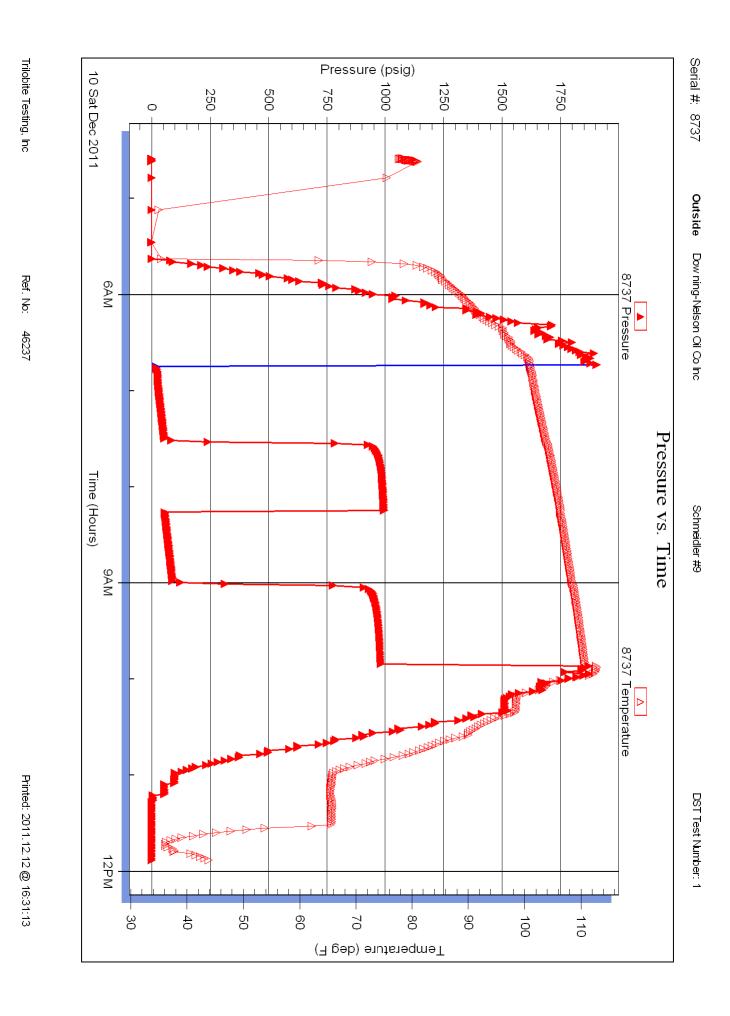
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 46237 Printed: 2011.12.12 @ 16:31:12







Approved By

RILOBITE ESTING INC.

DEC 1 2 2011

Test Ticket

No. 46237

P.O. Box 1733 · Hays, Kansas 67601 Date 12~10~11 Well Name & No. Schmeid/er Test No. Company Downing Nelson Oil Co INC Elevation_2193 GL Hays Ks 67601 Downing Co. Rep / Geo. Marc 135 Twp. Rge. Co. Trego Location: Sec. State Interval Tested 3813 - 3845 Zone Tested Marma Ton 32 Drill Pipe Run 37 Anchor Length Mud Wt. Top Packer Depth 3808 Drill Collars Run 30 Bottom Packer Depth 3813 Wt. Pipe Run O 3845 Chlorides 2500 Total Depth ppm System LCM Blow BOB Blow Description IP- Cool Ist. Weak Blow Back YB IN BOB IN Blow Book FSI-Negh Blow BOCK 20 %mud Feet of MC GO %water Rec Feet of 40 %oil %water %mud Rec Feet of 5207 %oil %mud %water Rec %oil %water %mud Rec Feet of %gas %oil %water %gas %mud Rec Feet of внт 114 °F Chlorides Gravity API RW Rec Total ppm Test (A) Initial Hydrostatic T-On Location T-Started (B) First Initial Flow Jars T-Open (C) First Final Flow ☐ Safety Joint T-Pulled (D) Initial Shut-In ☐ Circ Sub T-Out (E) Second Initial Flow ☐ Hourly Standby Comments 75.60 (F) Second Final Flow Mileage 194RT (G) Final Shut-In ☐ Sampler (H) Final Hydrostatic ☐ Straddle ☐ Ruined Shale Packer Shale Packer ☐ Ruined Packer Initial Open Extra Packer ☐ Extra Copies Initial Shut-In Sub Total ☐ Extra Recorder Final Flow 1300.60 □ Day Standby Total Final Shut-In □ Accessibility MP/DST Disc't 1200.60 Sub Total

Our Representative