



KANSAS CORPORATION COMMISSION 1070979
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: _____

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 #: _____
12/05/2011 12/10/2011 12/11/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-195-22743-00-00
Spot Description: _____
NE NW SE NE Sec. 14 Twp. 13 S. R. 21 East West
1610 Feet from North / South Line of Section
730 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Trego
Lease Name: Schmeidler Well #: 9
Field Name: Homburg
Producing Formation: Arbuckle
Elevation: Ground: 2185 Kelly Bushing: 2193
Total Depth: 3899 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 222 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1517 Feet
If Alternate II completion, cement circulated from: 1511
feet depth to: 0 w/ 145 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 17000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated
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: Deanna Garrison Date: 02/08/2012



1070979

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Schmeidler Well #: 9
 Sec. 14 Twp. 13 S. R. 21 East West County: Trego

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 checked="" 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	222.44	Common	150	2% Gel & 3% CC
Production String	7.8750	5.5	14	3896	EA/2	150	

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	3816' to 3820'	500 gallons 15% Mud Acid	3816' to 3820
		3000 gallons 15% NE Acid	3816' to 3820
		Fracture 2200 water & 48500 sand	3816' to 3820

TUBING RECORD: Size: <u>2.372</u> Set At: <u>3794</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>02/03/2012</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>40</u>	Gas Mcf <u>0</u>	Water Bbls. <u>40</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	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	Top	Datum
Top Anhydrite	1552'	+642
Base anhydrite	1596'	+598
Topeka	3232'	-1038
Heebner	3463'	-1269
Toronto	3480'	-1286
LKC	3499'	-1305
BKC	3740'	-1546
Marmaton	3803'	-1609

ALLIED CEMENTING CO., LLC. 035179

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

SERVICE POINT:
RUSSELL

DATE <u>12-6-11</u>	SEC <u>14</u>	TWP. <u>13 S</u>	RANGE <u>21 W</u>	CALLED OUT <u>10:30</u>	ON LOCATION <u>11:30 PM</u>	JOB START <u>1:30 AM</u>	JOB FINISH <u>2:00</u>
CHM. DEALER LEASE	WELL# <u>9</u>	LOCATION <u>ELLISS - WEST TO RD 400</u>			COUNTY <u>TREGO</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1.5 SOUTH & WEST INTO</u>					

CONTRACTOR	OWNER
TYPE OF JOB <u>SURFACE</u>	CEMENT
HOLE SIZE <u>12.25</u> T.D. <u>223</u>	AMOUNT ORDERED <u>150</u>
CASING SIZE <u>8 3/8</u> DEPTH <u>222.44</u>	
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>150 @ 16.25 2437.50</u>
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. <u>20 FT</u>	GEL <u>3 @ 21.25 63.75</u>
PERFS.	CHLORIDE <u>5 @ 58.20 291.00</u>
DISPLACEMENT <u>12.87 bbl</u>	ASC @

EQUIPMENT	
PUMP TRUCK CEMENTER <u>Bob Smith</u>	
# <u>409</u> HELPER <u>Todd</u>	
BULK TRUCK	
# <u>378</u> DRIVER <u>ROBERT</u>	
BULK TRUCK	
# DRIVER	
	HANDLING <u>158 @ 2.25 355.50</u>
	MILEAGE <u>45 x 1.58 x 11 782.1</u>
	TOTAL 3929.85

REMARKS:
CEMENT TO SURFACE
SHUT IN WELL - NO PLUG RUN

SERVICE
DEPTH OF JOB <u>222.44</u>
PUMP TRUCK CHARGE <u>1125.00</u>
EXTRA FOOTAGE @
MILEAGE <u>45 @ 7.00 315.00</u>
MANIFOLD @
<u>Ldv mileage 45 @ 4.00 180.00</u>

CHARGE TO: downing - NELSON OIL CO INC. TOTAL 1620.00

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
TOTAL 0

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 done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____

TOTAL CHARGES 5549.85

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME CLIFF MAYFIELD

SIGNATURE Cliff Mayfield

ALLIED CEMENTING CO., LLC. 035181

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

SERVICE POINT:
RUSSELL

DATE <u>12-7-11</u>	SEC <u>12</u>	TWP <u>14S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START <u>7AM</u>	JOB FINISH <u>8PM</u>
FANNINGSTIEL LEASE		WELL # <u>1-12</u>	LOCATION <u>HAYS - 1 W. OF GOLF COURSE Rd</u>			COUNTY <u>ELLI'S</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)			<u>1/2 S. - 1 WEST THEN WEST & SOUTH INTO</u>				

CONTRACTOR Ad3

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 3850

CASING SIZE 8 5/8 DEPTH 212

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 3850

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 245

COMMON <u>245</u>	@ <u>16.25</u>	<u>3981.25</u>
POZMIX	@	
GEL <u>9</u>	@ <u>21.25</u>	<u>191.25</u>
CHLORIDE	@	
ASC	@	
<u>FLO-SEAL 65#</u>	@ <u>2.70</u>	<u>175.5</u>
	@	
	@	
	@	
	@	
	@	
HANDLING <u>256.5</u>	@ <u>2.25</u>	<u>577.13</u>
MILEAGE <u>35 x 256.5 x .11</u>		<u>987.35</u>
TOTAL		<u>5912.48</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bob Smith

409 HELPER Todd

BULK TRUCK

473 DRIVER BRAYLE COOY

BULK TRUCK

DRIVER

REMARKS:

P1 - 3850 Ft 25 SK

P2 - 1441 Ft 25 SK

P3 - 700 Ft 100 SK

P4 - 272 Ft 40 SK

P5 - 40 Ft 10 SK

RAT - 30 SK

mouse - 15 SK

SERVICE

DEPTH OF JOB 3850 Ft

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE @

MILEAGE 35 @ 7.00 245.00

MANIFOLD @

Ldv mileage 35 @ 4.00 140.00

WTTM 3 @ 300 900.00

TOTAL 2535.00

CHARGE TO: DOWNING NELSON

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

1 wooden plug @ 92.00 92.00

@

@

@

@

TOTAL 92.00

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 done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME GALIN GASCHLER

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 8539.648

DISCOUNT _____ IF PAID IN 30 DAYS

JOB LOG

SWIFT Services, Inc.

DATE 12-11-11 PAGE NO. 1

CUSTOMER DOWNING & NELSON WELL NO. 9 LEASE SCHMEIDLER JOB TYPE 2 STAGE TICKET NO. 21151

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0630							ON LOCATION CMT: BOTTOM 150 SIGS STD EA-2 Top 200 sigs SMD RD 3899, SET P.A. 3898, SJ 210, 21504 5 1/4" NEW D.I.V. ON TOP # 57, 156357 CMT 1, 3, 5, 7, 9, 11, 13, 56 BASKET 57 JOINTS OUT: 94, 95, 96, 97, 98, 99, 100 700T
	0800							START CSLB FLUOREN
	0735							TAG BOTTOM - DROP BALL
	0740							BREAK CIRC
	1010	6.0	12.0	-		200		500 CTR MUD FLUSH
			20.0	-				2000 WCL FLUSH
			36.5	-				150 SIGS EA-2 CMT
								DROP LD PLUG, WASHOUT R
		6.0	0	-		200		START DISP W/ 1100
			57.0	-		5		" " W/ MUD
			76.0	-		500		" " W/ WCL FLUSH
			90.0	-		700		
	1040		94.7	-		1400		LAND PLUG RELEASE - DRY DROP D.I.V. OPENING DALT PLUG RH 30, MH 15
	1053		7.5	-		900		OPEN D.I.V.
	1058		0	-		200		START CMT 155 SIGS
			86.0	-		5		END CMT DROP DR. CLOSING PLUG
			0	-		200		START DISP
			25	-		400		CIRC CMT TO PIT! 255 sigs
	1115		38.1	-		1300		LAND & CLOSE DV RELEASE - DRY
	1300							JOB COMPLETE THANK YOU! DAVE, JOSH, ROB


DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	ISIP-FTH	RECOVERY

REMARKS AND RECOMMENDATIONS _____

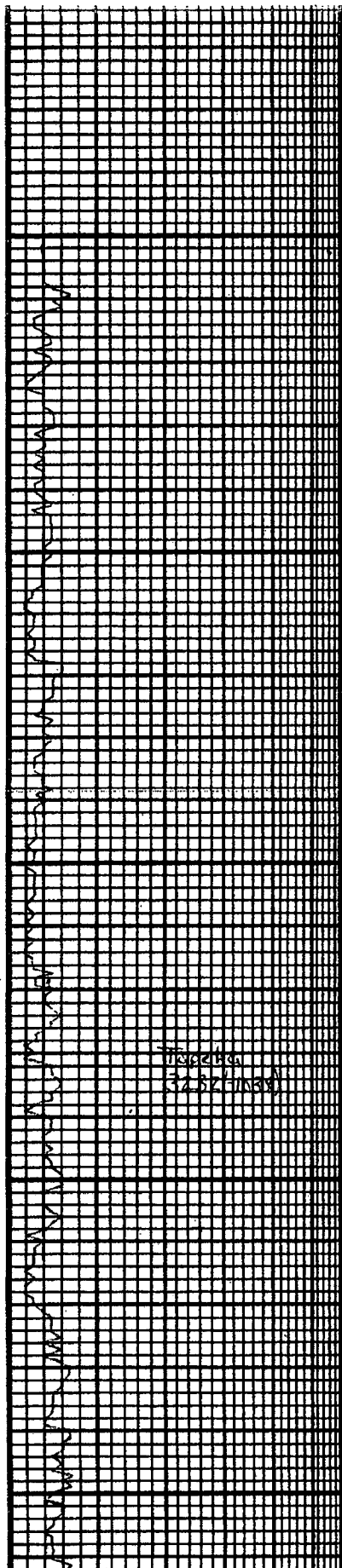
7515

LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb sh
-  Limestone
-  Oil.Lime
-  Chert
-  Dolomite

REMARKS				
	OIL SHOWS			
SAMPLE DESCRIPTIONS				
LITHOLOGY				
DEPTH				
DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases				

LOG 7710



3100

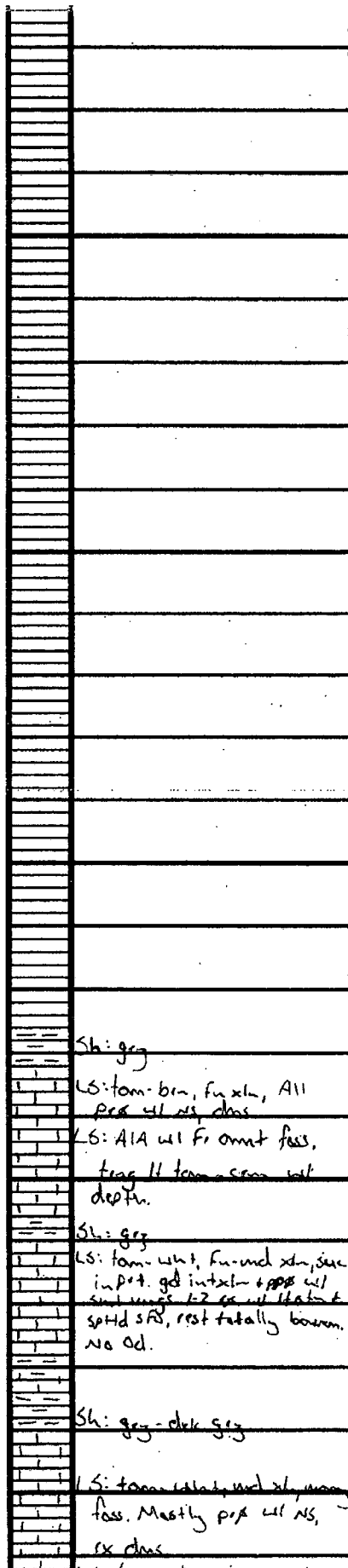
50

3200

50

3300

3250
(3252-1138)



Sh: grey

LS: tom-ben, fu xln, All
prx ul ns, chas

LS: AIA w/ fo omnt fess.
frag ll tom - some w/ depth.

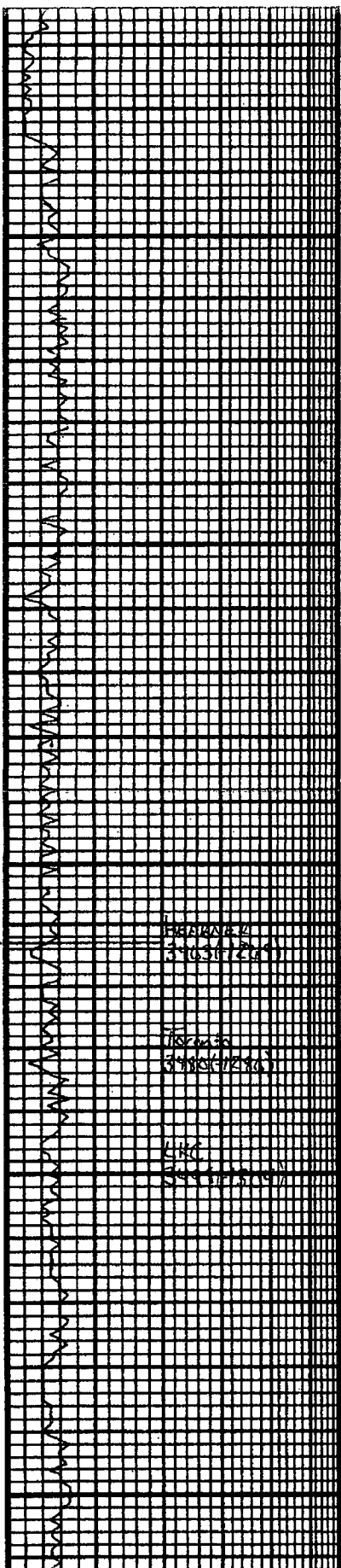
Sh: grey

LS: tom-wht, fu-mcd xln, sec
in prx. gd intxln - ~~prx~~ w/
solid srs, rest totally brown.
No ad.

Sh: grey - dk grey

LS: tom-wht, w/ xln, w/ fess.
fess. Mostly prx ul ns,
ex chas





Subxlu-chlky 1-2 in
 wt pr stn, rare sfo in
 Fe-gd intxln, no ad. fr
 lng subxlu-chlky.
 Sh: Black Carb

Sh: red-brn w/ grg 1
 H gm
 LS: tom, md xln, mtd +
 dms
 Sh: grg
 LS: wht, vfn xln + dms,
 No visx w/ scat
 fass.

Sh: brn
 LS: tom, fn - md xln,
 dms
 Sh: Black Carb

Sh: grg
 LS: wht, fn xln, chlky
 lng dms, md xln w/ scat
 med fass, tom-grg chto
 LS: wht-tom, fn-md xln,
 fr intxln, scat resid stn,
 n.s.f., n.s. ad.
 LS: Scat ex AIA. Mostly
 fr md xln, fass w/
 scat tom shp chto.
 All n.s. w/ prx

Sh: Black Carb

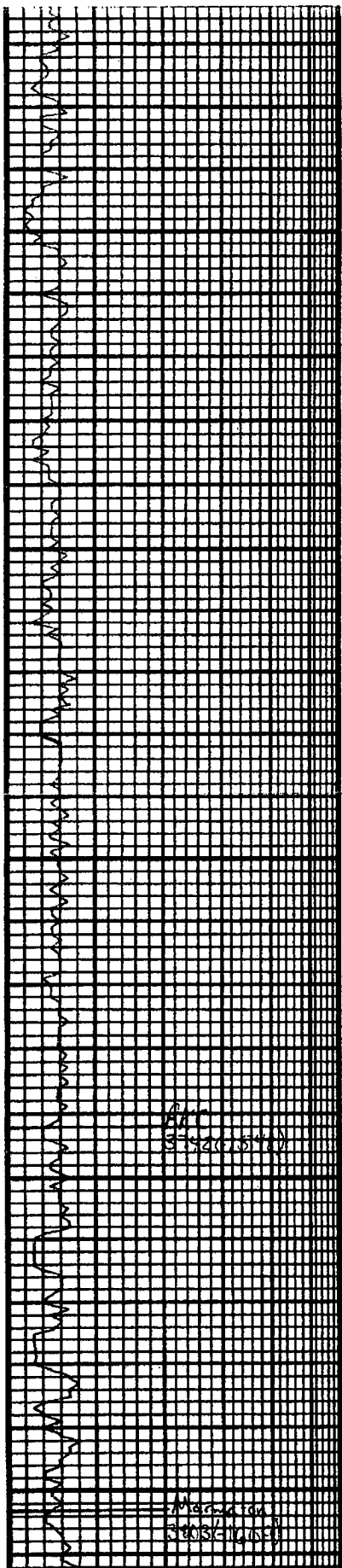
Sh: grg w/ brn
 LS: wht, fn-vfn xln, mostly
 vdrms w/ no visx. Scat
 subxlu-chlky, n.s.
 Sh: grg

LS: tom, md - crs xln, Tot fass
 w/ ocl. scat fr int fass, many
 tite or gd scat w/ ocl. sfo
 Fat Od.
 LS: wht, fn-vfn xln, dms
 w/ no visx. fr Amt
 wnt chto.

Sh: grg-dsk grg
 LS: wht, fn xln, scat gd intxln
 w/ prx. gd scat w/ fr sfo
 rest subxln lng tite +
 barren. Fat Od.

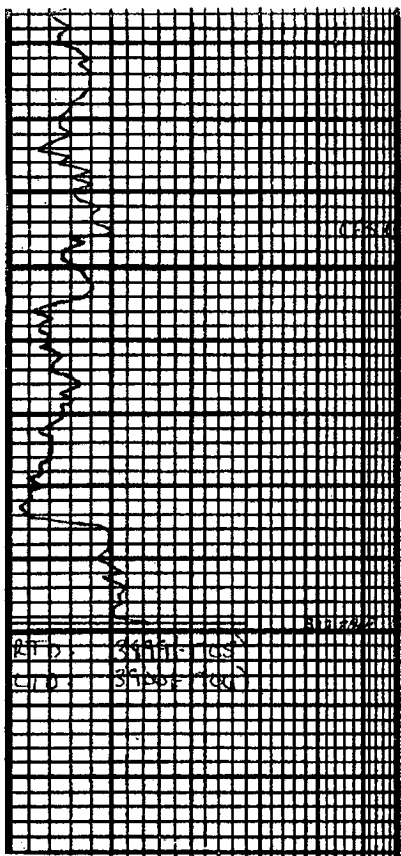
Sh: grg
 LS: wht - H tom, mostly fn
 v. rare sfo.





Sh: dk grg
LS: wht, med xln, smt-med foss. fr-gd int fossor, sub xln in pr. fr-gd 11 ot, 11 spotted SFO, 11. fr ad.
LS: wht, fm v fm xln, sltly suc mostly sub xln-chky foss. fr-gd 11 ot, 11. fr ad.
Fr Amt wht chta.
LS: wht, fm xln, scat fr
Mostly All chns w/ prs & NS.
Sh: Black Carb
Sh: grg
LS: wht-tan, fm med xln, mostly pr-fr int xln, scat 11 br 8th, NSFO, 11. fr ad.
Sh: dk grg
Sh: grg
LS: tan-whit, fm xln, many sub xln ex. Scat prs w/ fr str, rare SFO, fr-11 ad.
LS: tan-whit, med xln, mostly chms w/ tan, wht, fgy- blk chta.
Sh: grg- dk grg
LS: tan-brn, med xln, sltly dilom, fr int xln + prs, fr-gd scat brn w/ int fr SFO, 11. fr ad. Tang wht, v. xln, no vis.
Sh: dk grg
LS: wht, fm xln, mostly chms. Scat prs w/ spotted ot, NSFO, NO AD. Rx tang Tat brown.
NO vis
Sh: Black Carb
LS: wht, fm med xln, foss. fr int xln, sub xln-chky Scat 11 roid ot, NSFO, No Ad. Scat chta.
Sh: grg w/ brn
LS: tan-whit, fm xln, chms
Sh: brn
LS: tan-whit, fm med xln, sltly med chms
Sh: brn
LS: AIA w/ fr ad.
Sh: brn
LS: tan, med xln, mtld, chms
Sh: brn
LS: wht-tan, fm xln, mostly chms w/ prs, scat tan chta.

Vis: 59 Lt: 99
DST #1
3813-3945
45-45-45-45



50

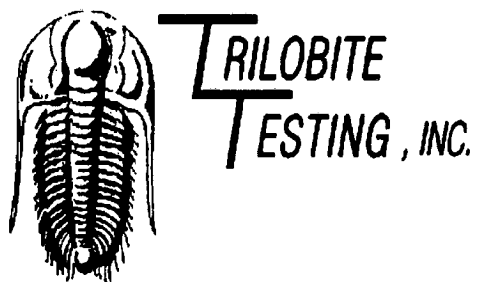
3900

RTD 3775-100
 LTD 3700-100

D S T # 1	<p>cont. gel chng. cur. w/ fr. edge set. sub. SFO. 55% w/ Fr. 0-1</p> <p>mt. L + PPP, SHL, detam. Fr. 11 brn set. str. w/ split SFO, 110d. free oil on cup.</p> <p>Trag. mostly ch. a. org. - foam</p> <p>Front weath. w/ fr. ppd. + smt. vugs. fr. brn. bit. + 11 SFO. Scot. Subxl. ch. k. L.S. pr-14 Od.</p>
	<p>Sh. blue carb gry</p>
	<p>Blue-grn das. andy. L.S. light pp. ms w/ Brn gry. grns. + Blue/grns.</p>
	<p>cont. wh. tan, Brn w/ das. tan w/ fr. vugs. + ex. calc. wh. gran. w/ rd. + Bl. L.S. washes on</p>
	<p>mostly cont. wh. tan, Brn. dot. tan - w/ sm. gr. grns. mo. sub. and. Bl. SFO N.S.</p>

M. L. J. J.

F.F. - 1008 12 min / 172" 528
 IFF: 23-58
 FFP: 63-49
 SJP: 1000-985
 HP: 1912-1927
 Rec:
 567' GIP
 136' GO 40%
 62' MCGO 251, 55%
 BHT: 114" G=39



DRILL STEM TEST REPORT

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

Printed: 2011.12.12 @ 16:31:10

Downing-Nelson Oil Co Inc

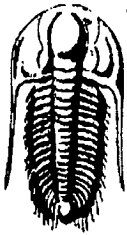
14-13s-21w-Trego,KS

Schmeidler #9

DST # 1

Marmaton

2011.12.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:44:47

Time Test Ended: 11:53:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

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)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8321

Inside

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

Capacity: 8000.00 psig

Start Date: 2011.12.10

End Date:

2011.12.10

Last Calib.: 2011.12.10

Start Time: 04:35:18

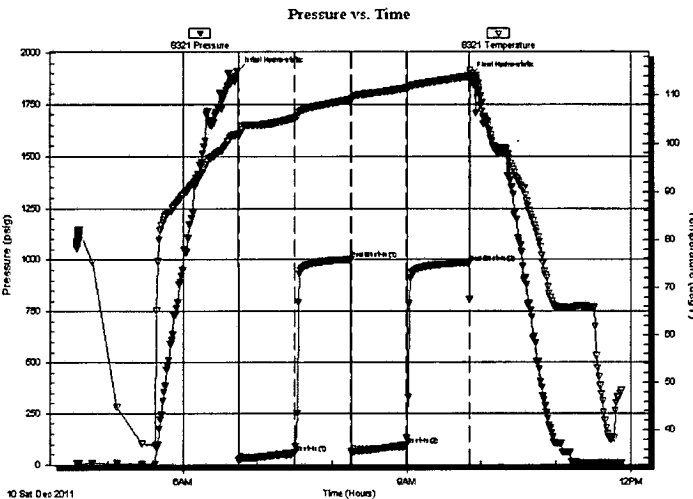
End Time:

11:53:17

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
IS-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

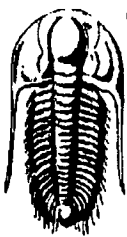
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1911.98	101.98	Initial Hydro-static
1	23.19	101.67	Open To Flow (1)
46	58.12	105.23	Shut-In(1)
91	1000.41	109.11	End Shut-In(1)
91	63.01	108.95	Open To Flow (2)
135	94.27	111.44	Shut-In(2)
186	985.31	113.91	End Shut-In(2)
187	1887.27	115.23	Final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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCOG 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**

DRILL STEM TEST REPORT

Dow ning-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**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:44:47

Time Test Ended: 11:53:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

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)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 3817.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.10

End Date:

2011.12.10

Last Calib.:

2011.12.10

Start Time: 04:35:18

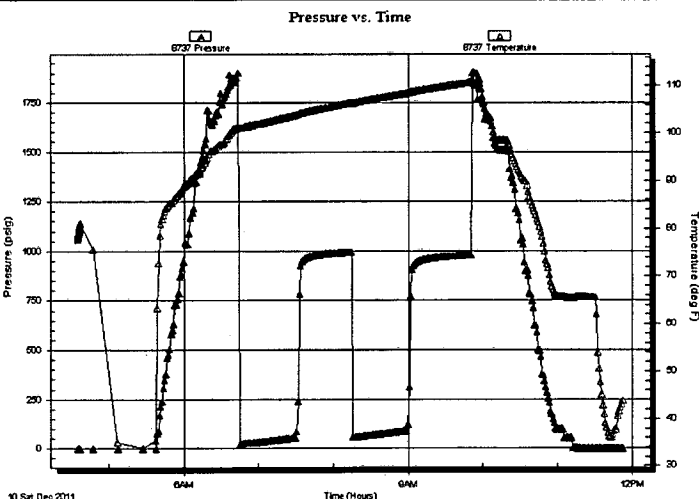
End Time:

11:53:17

Time On Btm:

Time Off Btm:

TEST COMMENT: IFF-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

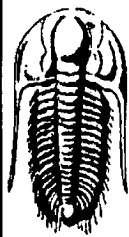
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCOG 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**

DRILL STEM TEST REPORT

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

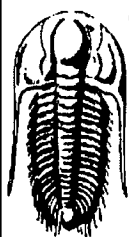
Test Start: 2011.12.10 @ 04:35:17

Tool Information

Drill Pipe:	Length: 3774.00 ft	Diameter: 3.80 inches	Volume: 52.94 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: 64000.00 lb
		Total Volume:	53.09 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3813.00 ft			Final 54000.00 lb
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			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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 Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 2500.00 ppm
Filter Cake: inches

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

Oil API: 39 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

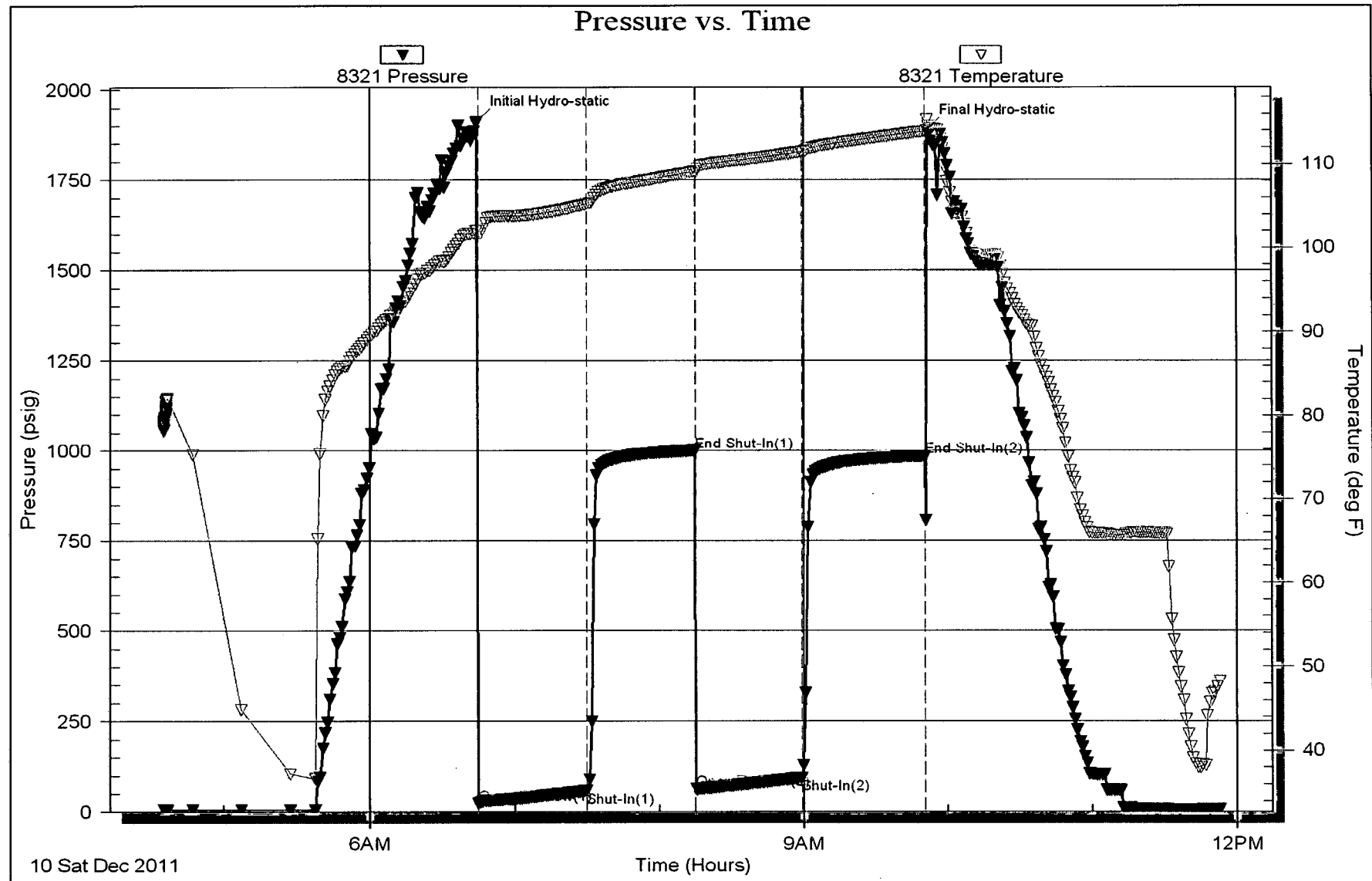
Length ft	Description	Volume bbl
62.00	MCO 20%M25%G55%O	0.596
136.00	Gassy Oil 60%G40%O	1.908
0.00	567-GIP	0.000

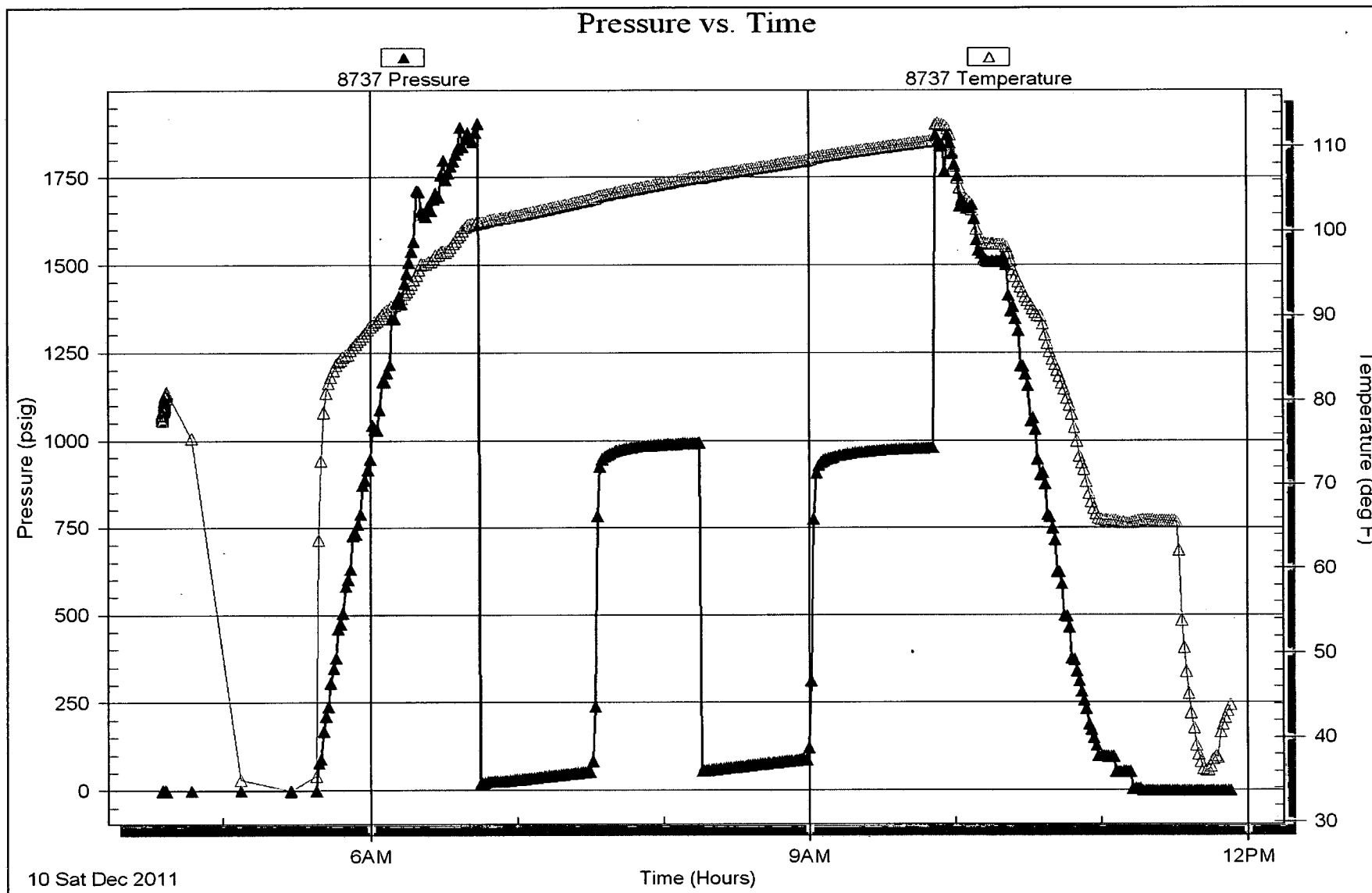
Total Length: 198.00 ft Total Volume: 2.504 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 12 2011

Test Ticket

NO. 46237

Well Name & No. Schmeidler #19 BY: _____ Test No. 1 Date 12-10-11
 Company Downing-Nelson Oil Co INC Elevation 2193 KB 2185 GL
 Address Po Box 1019 Hays, Ks 67601
 Co. Rep / Geo. Mark Downing Rig Discovery Rig #1
 Location: Sec. 14 Twp. 13 S Rge. 21 W Co. Trego State KS

Interval Tested 3813-3845 Zone Tested Marmaton
 Anchor Length 32 Drill Pipe Run 3774 Mud Wt. 8.9
 Top Packer Depth 3808 Drill Collars Run 30 Vis 58
 Bottom Packer Depth 3813 Wt. Pipe Run 0 WL 8.8
 Total Depth 3845 Chlorides 2500 ppm System LCM 2#

Blow Description HP-Good Blow Bob IN 13 1/2 min
IS-Weak Blow Back Built TO 1/8 IN
~~HP-Good Blow Back Built TO BOB IN 12 min~~
FSI-Weak Blow Back Built TO 1/8 IN

Rec	Feet of	%gas	%oil	%water	%mud
<u>402</u>	<u>MCCO</u>	<u>25</u>	<u>55</u>	<u>20</u>	
<u>1360</u>	<u>GASSY OIL</u>	<u>40</u>	<u>40</u>		
	<u>5207-GIP</u>				

Rec Total 198 BHT 114 Gravity 39 API RW _____ @ _____ ° F Chlorides _____ ppm

- (A) Initial Hydrostatic 1912
- (B) First Initial Flow 23
- (C) First Final Flow 58
- (D) Initial Shut-In 1000
- (E) Second Initial Flow 203
- (F) Second Final Flow 94
- (G) Final Shut-In 985
- (H) Final Hydrostatic 1827

- Test 1125'
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 54 RT 75-60
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1200.60

T-On Location 8:08
 T-Started 4:35
 T-Open 6:44
 T-Pulled 9:44
 T-Out 11:53

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1200.60
 MP/DST Disc't _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Approved By _____ Our Representative Jeff Brown

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.