



KANSAS CORPORATION COMMISSION 1072967
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 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 #: _____
01/17/2012 01/23/2012 01/24/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-065-23802-00-00
Spot Description: _____
NE NE SW SW Sec. 23 Twp. 9 S. R. 24 East West
1125 Feet from North / South Line of Section
1035 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: Nickelson Farms 'B' Well #: 1-23
Field Name: Glen Dale South
Producing Formation: LKC
Elevation: Ground: 2493 Kelly Bushing: 2501
Total Depth: 4113 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 221 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2120 Feet
If Alternate II completion, cement circulated from: 2120
feet depth to: 0 w/ 180 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 14000 ppm Fluid volume: 320 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 Gantner Date: 03/22/2012



1072967

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Nickelson Farms 'B' Well #: 1-23
 Sec. 23 Twp. 9 S. R. 24 East West County: Graham

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: Micro Dual Induction Compensated Density/Neutron	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th style="width:15%;">Top</th> <th style="width:15%;">Datum</th> </tr> </thead> <tbody> <tr> <td>Top Anhydrite</td> <td>2140'</td> <td>+361</td> </tr> <tr> <td>Base Anhydrite</td> <td>2175'</td> <td>+326</td> </tr> <tr> <td>Topeka</td> <td>3590'</td> <td>-1089</td> </tr> <tr> <td>Heebner</td> <td>3806'</td> <td>-1305</td> </tr> <tr> <td>Toronto</td> <td>3832'</td> <td>-1331</td> </tr> <tr> <td>LKC</td> <td>3846'</td> <td>-1345</td> </tr> <tr> <td>BKC</td> <td>4070'</td> <td>-1569</td> </tr> </tbody> </table>	Name	Top	Datum	Top Anhydrite	2140'	+361	Base Anhydrite	2175'	+326	Topeka	3590'	-1089	Heebner	3806'	-1305	Toronto	3832'	-1331	LKC	3846'	-1345	BKC	4070'	-1569
Name	Top	Datum																							
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LKC	3846'	-1345																							
BKC	4070'	-1569																							

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	221	Common	150	2% Gel & 3% CC
Production String	7.875	5.5	14	4112.84	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	3998' to 4002'	250 gallons 15% Mud Acid	3998' to 4002'
		1500 gallons 15% NE Acid	3998' to 4002'

TUBING RECORD: Size: <u>2.375</u> Set At: <u>4015.36</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>02/28/2012</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 Bbbs. <u>3</u>	Gas Mcf _____	Water Bbbs. <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: _____ _____
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ALLIED CEMENTING CO., LLC. 034545

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

SERVICE POINT:
Russell, KS

DATE <u>1-17-2012</u>	SEC <u>23</u>	TWP. <u>9</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 PM</u>	JOB FINISH <u>8:30 PM</u>
LEASE <u>McKELSON</u>	WELL # <u>0-123</u>	LOCATION <u>Wakeeney N. Redline Rd.</u>			COUNTY <u>Gr. Rattan</u>	STATE <u>KANSAS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>SW 1/4 W 3/4 N 1/4</u>			

CONTRACTOR Discovery Data Rig #1

TYPE OF JOB Cement / Surface

HOLE SIZE 12 1/4 T.D. 221

CASING SIZE 8 5/8 DEPTH 221

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 1 BBL

OWNER

CEMENT

AMOUNT ORDERED 150 sx Gorm

3% cc

2% Gel

COMMON	<u>150sx</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMIX		@		
GEL	<u>3 sx</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5 sx</u>	@	<u>58.20</u>	<u>291.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>158</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>50 x 158 x 11</u>			<u>869.00</u>
TOTAL				<u>4016.75</u>

EQUIPMENT

PUMP TRUCK CEMENTER GLENN

417 HELPER WOODY

BULK TRUCK

481 DRIVER TONY

BULK TRUCK

DRIVER

REMARKS:

Ran 5 JTS OF NEW 20 # 9% ccsg.

Set @ 221 Received CIRCULATION

of Cement w/ 150 sx Gorm 3% cc

2% Gel, Displace 13 BBL H₂O & Shut

IN @ 250 #,

Cement CIRCULATED TO SURFACE

THANKS

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>50 HUME?</u>	@	<u>7.00</u> <u>350.00</u>
MANIFOLD	@		
<u>50 LY MT</u>	@	<u>4.00</u>	<u>200.00</u>
	@		
TOTAL <u>1675.00</u>			

CHARGE TO: Downing & Nelson Oil

STREET

CITY STATE ZIP

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

	@		
	@		
	@		
	@		
	@		

JOB LOG

SWIFT Services, Inc.

DATE 7-24-12 PAGE NO. 1

CUSTOMER *Dawing & Nelson* WELL NO. *1-23* LEASE *Nickelson Farms 'B'* JOB TYPE *Cut Lossing* TICKET NO. *21244*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0230					14 #/ft	5 1/2	20-4113' On location w/ Float Equip.
	0300							Ris changing over to new 5 1/2 casing Start 5 1/2 - 14 #/ft casing to 4112' Insert Float shoe w/ Anti-Fill D.V. LD. Bottle - 55-20 1/2 @ 4092' Curt - 1-6-9-11-13-16-18-51 JTs out 2-3-7-14 - Cut Bsh. #4 & 52 D.V. #52 @ 2100' Drop R/L up ball 9-JTs out
	0425							Tag bottom - Fin casing
	0435							Start circ / 1st stage
		5	12				300	Fin circ - Temp 500 gal M Fluid
		6	20				300	Pump 20001 KCL Flush
		4 1/2					300	Start 150 SKS FA2
			36					Fin out - Wash out Pump Lines
		9	40					Drop D.V. LD. Plug - Start Displ.
		7	25				700	60 HD - 20 mud - 15 BBL KCL Flush
	0530	5 1/2	15				800	Plug Down - Hold - Release - Hold Plug RT/MH (30/15) SMD cut
	0600		8 1/2					Open D.V. - Cleanout Tank - Fin Flush 2nd stage - Start 190 SKS SMD Fin out - Rock in pump
								Drop closing Plug
		4					200	Start Displ
	0645		52				100	Plug Down - Hold - Release - Hold
	0700							Job Comp take
	0730							Washup & Breakup (40 SKS SMD circ to PCL)
								<i>Franklin, Brian & Steve</i>

DRILL STEM TESTS

No.	Interval	IP/Tim	SP/Tim	FP/Tim	RP/Tim	OR-TM	REMARKS

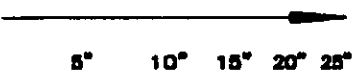
REMARKS AND RECOMMENDATIONS

7515

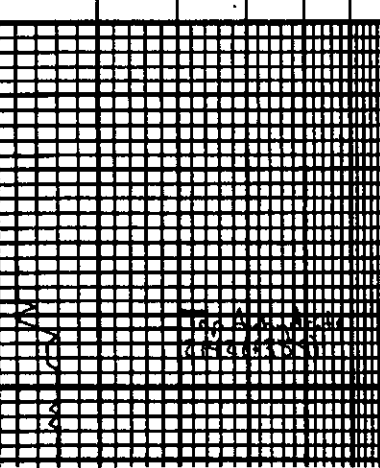
LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Co.L. Lime	Chert	Dolomite

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases



LOG 7710



DEPTH

2100

2150

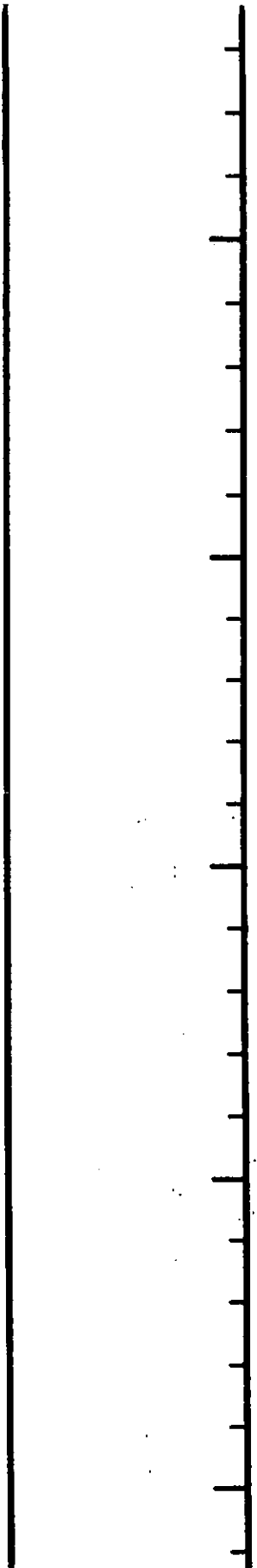
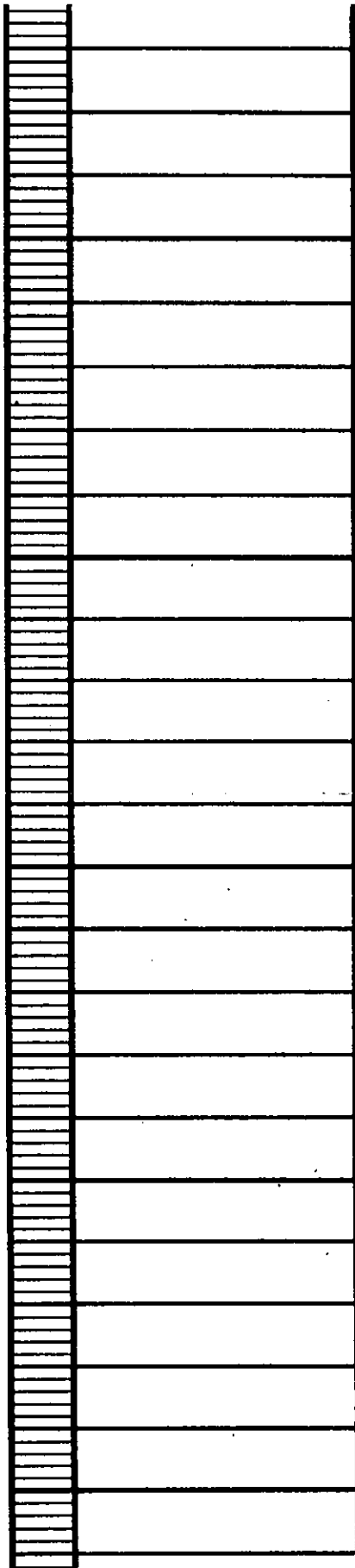
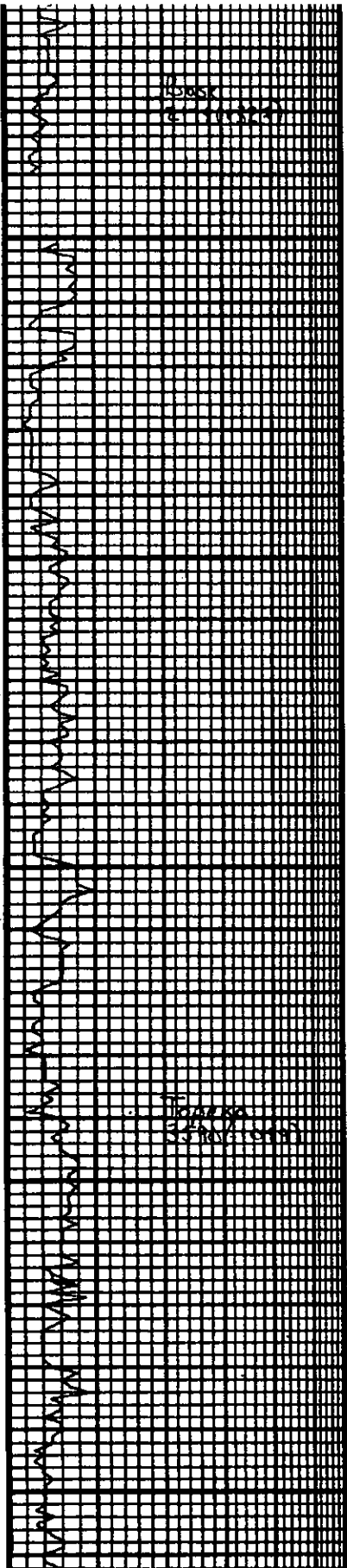
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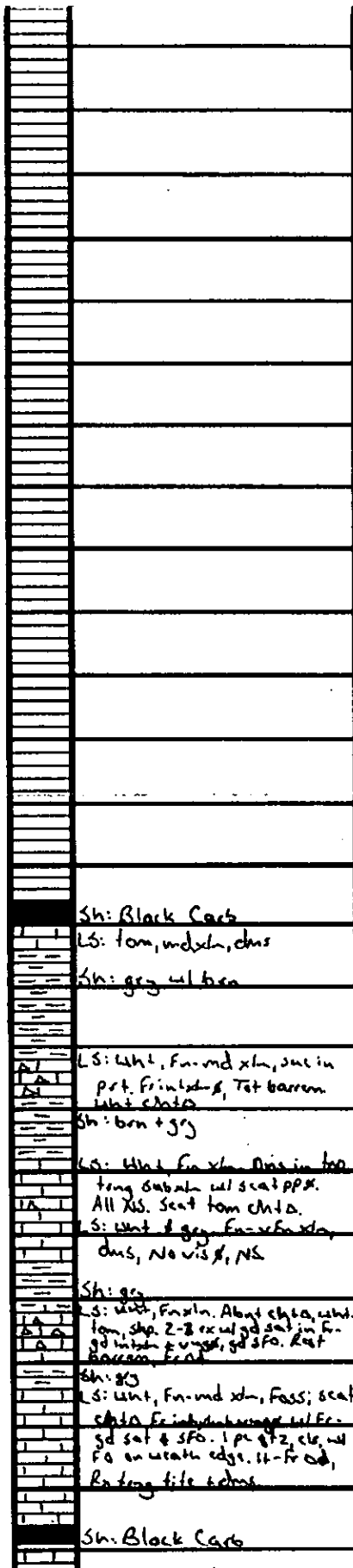
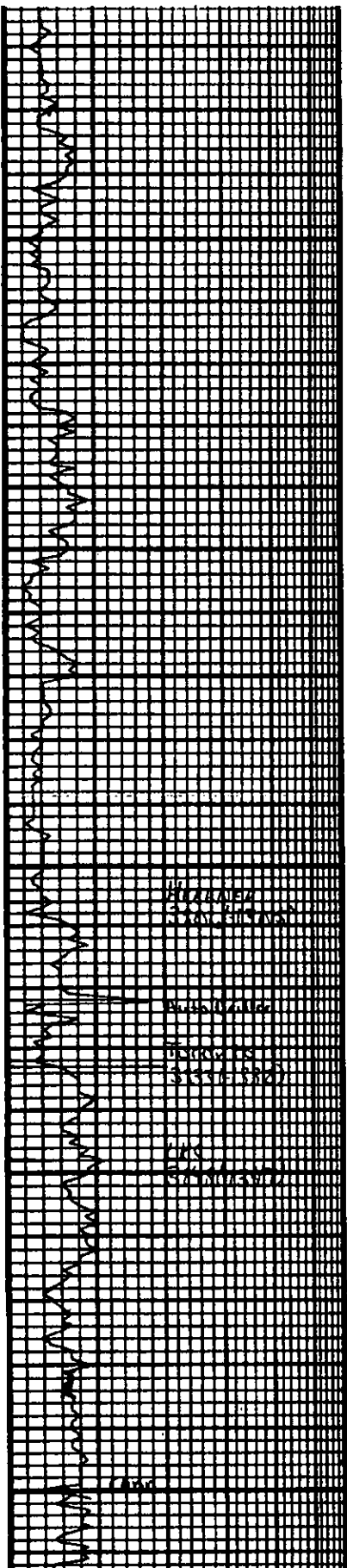
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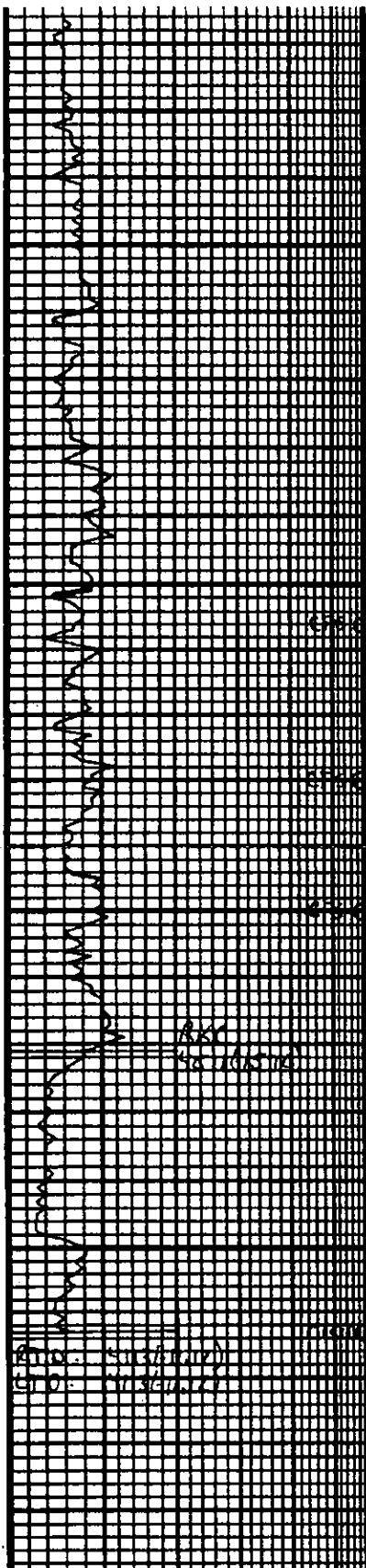
SLICKENS TO

REMARKS









50

4000

50

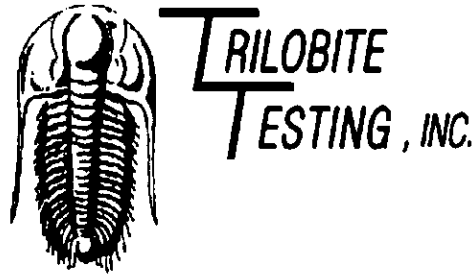
4100

NS.
LS: lt tan, Fu-mid xln, Tot Fass. Sml-mid Fass, gd int Fass & vngs, Fr-gd sat, softd-Fr SFO. 1-Fr Ad.
LS: wht, Fu-mid xln, lrg Fass mostly lite Seal sub xln-chlky ex, All Totally barren. No Ad.
Sh: Black Carb
Sh: gry
LS: wht, mid xln, seal mid lrg Fass. Fr int Fass w/lt xln softd SFO, 11 Ad. Fr Amt sub xln-chlky ex, teng dms.
Sh: brn
LS: tan-whit mid xln. Dalam w/ Fass & seal, Seal Fr-gd int xln w/ Fr vngs, Fr sat sub w/ Fr SFO. Many barren ex, 1-Fr Ad. v sll for sat cap.
Sh: brn-red. washes red.
LS: wht, lt tan, Fu-mid xln, dalam w/ seal Fass. Fr-gd int xln, seal gd vngs, Fr-gd 1-Fr sat sub, 1-2 pcs vng sat. Fr SFO, Fr-gd Ad.
Sh: drk gry-blk. Teng brn-red, washes red.
LS: tan-whit, Tot oal, 2-3 ex w/ gd oal, gd sat w/ gd SFO. Seal Fass excc w/ Fr str. Many sub xln-chlky ex w/ Fr Ad. sll for sat cap.
Sh: drk gry-blk
LS: whit-lt tan, Fu xln, pr-fr int xln, sub xln in prt. 2-3 ex w/ pr-Fr str, vlt SFO, No Ad. Teng dms w/ No vngs.
Sh: gry w/ brn
Teng red-brn
LS: tan, Fu-mid xln, dms
Sh: brn-red
M. W. ...

Vis: 55 Lt: 9.0

OST #1
 3984-4004
 45-45-45-45
 I.F. - 3 1/2" blow
 F.F. - 5 1/2" blow
 I.F.P: 19-24
 F.F.P: 36-40
 S.I.P: 316-307
 H.P: 1965-1990
 Rec:
 30' GIP
 60' OCM 20% S
 BHT: 169°

OST #2
 3995-4030
 45-45-45-45
 I.F. - BOB 29 min/4k surf
 F.F. - 7 1/2" blow/4k surf 325
 I.F.P: 24-70
 F.F.P: 72-103
 S.I.P: 279-278
 H.P: 1984-1993
 Rec:
 5' FO
 55' OCM 20%, 30%
 119' OCM 70%
 6' mud
 BHT: 169° Chlor: 27.5K



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

23-9s-24w Graham,KS

Nickelson Farms 'B' #1-23

Start Date: 2012.01.22 @ 06:05:00

End Date: 2012.01.22 @ 13:01:30

Job Ticket #: 43089 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.01.27 @ 11:33:46

Downing-Nelson Oil Co. Inc.

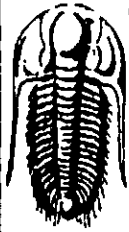
Nickelson Farms 'B' #1-23

23-9s-24w Graham,KS

DST # 1

LKC "T"

2012.01.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

Nickelson Farms 'B' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham,KS

Job Ticket: 43089

DST#: 1

ATTN: Marc Downing

Test Start: 2012.01.22 @ 06:05:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 08:20:00

Time Test Ended: 13:01:30

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Kevin Mack**

Unit No: **43**

Interval: **3984.00 ft (KB) To 4006.00 ft (KB) (TVD)**

Reference Elevations: **2500.00 ft (KB)**

Total Depth: **4006.00 ft (KB) (TVD)**

2493.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **7.00 ft**

Serial #: 6799

Inside

Press@RunDepth: **40.76 psig @ 3985.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.01.22**

End Date: **2012.01.22**

Last Calib.: **2012.01.22**

Start Time: **06:05:05**

End Time: **13:01:29**

Time On Btm: **2012.01.22 @ 08:19:30**

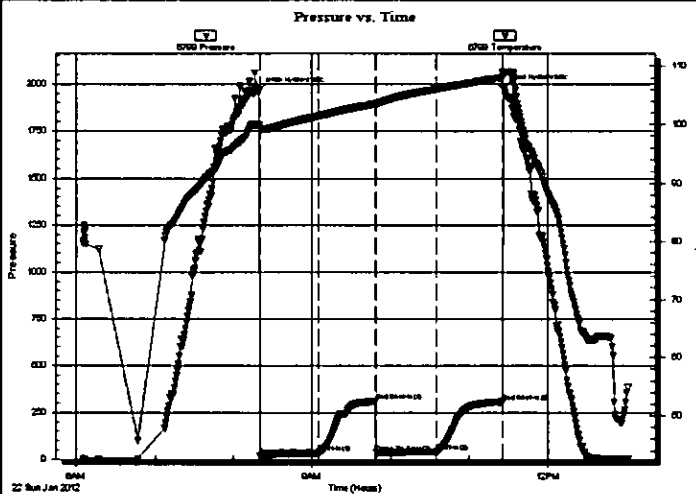
Time Off Btm: **2012.01.22 @ 11:26:00**

TEST COMMENT: IF- 1/4" Blow built to 3 1/4"

IS- No Return

FF- Surface blow started at 2 min. Did not build or die

FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1965.67	99.96	Initial Hydro-static
1	18.67	99.27	Open To Flow (1)
46	34.48	101.45	Shut-In(1)
90	310.60	103.56	End Shut-In(1)
90	36.96	103.54	Open To Flow (2)
136	40.76	106.09	Shut-In(2)
186	307.12	108.01	End Shut-In(2)
187	1980.48	108.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCVM 75M 20o 5W	0.57

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co. Inc.

Nickelson Farms 'B' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham,KS

Job Ticket: 43089

DST#: 1

ATTN: Marc Downing

Test Start: 2012.01.22 @ 06:05:00

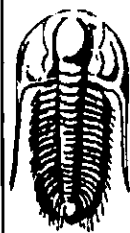
Tool Information

Drill Pipe:	Length: 3962.00 ft	Diameter: 3.80 inches	Volume: 55.58 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 55.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3984.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3964.00	
Shut In Tool	5.00			3969.00	
Hydraulic tool	5.00			3974.00	
Packer	5.00			3979.00	21.00 Bottom Of Top Packer
Packer	5.00			3984.00	
Stubb	1.00			3985.00	
Recorder	0.00	8648	Inside	3985.00	
Recorder	0.00	6799	Inside	3985.00	
Perforations	16.00			4001.00	
Bullnose	5.00			4006.00	22.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

Nickelson Farms 'B' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham, KS

Job Ticket: 43089

DST#: 1

ATTN: Marc Downing

Test Start: 2012.01.22 @ 06:05:00

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: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	OCWM 75M20o 5W	0.568

Total Length: 60.00 ft

Total Volume: 0.568 bbf

Num Fluid Samples: 0

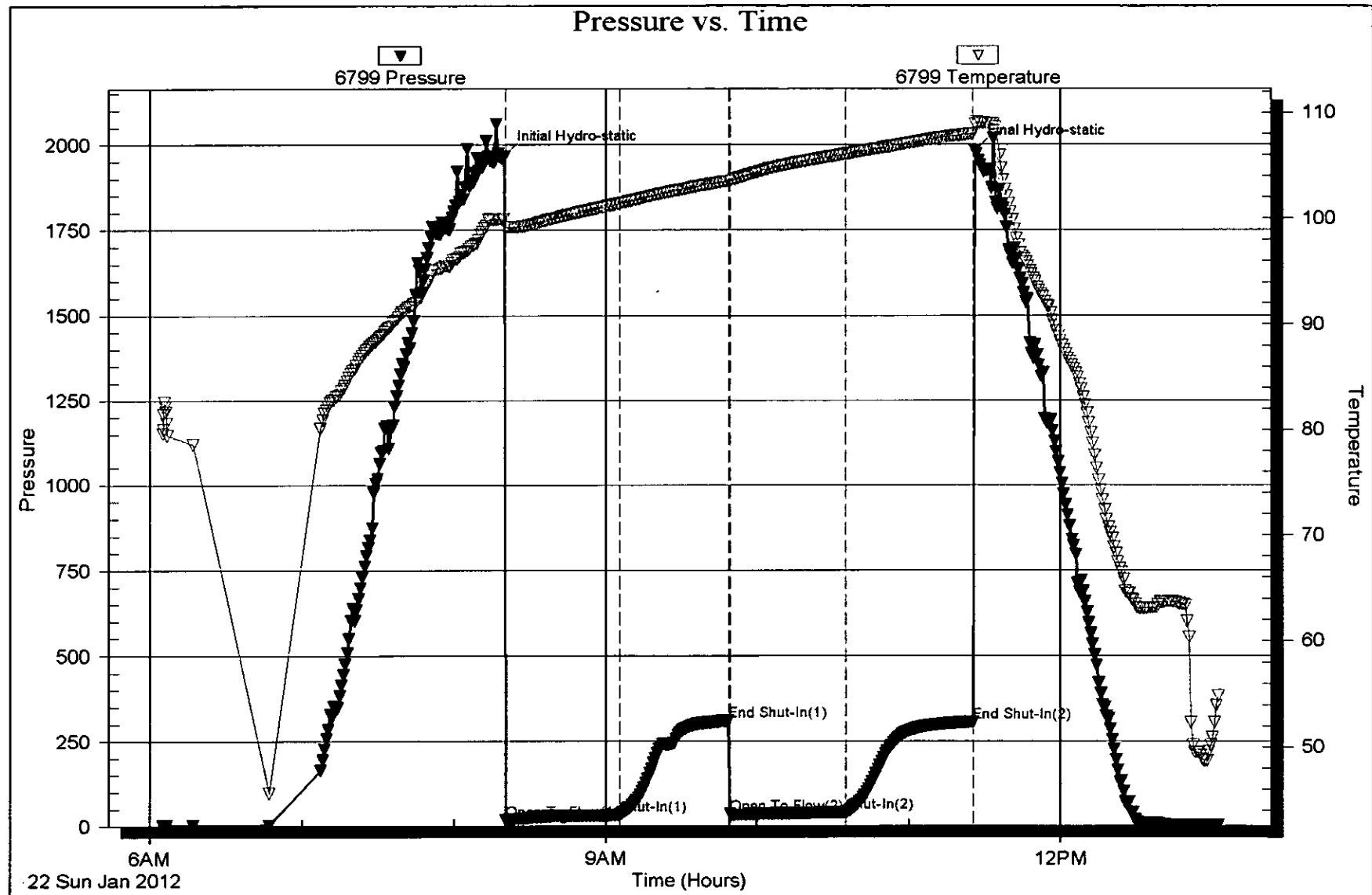
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

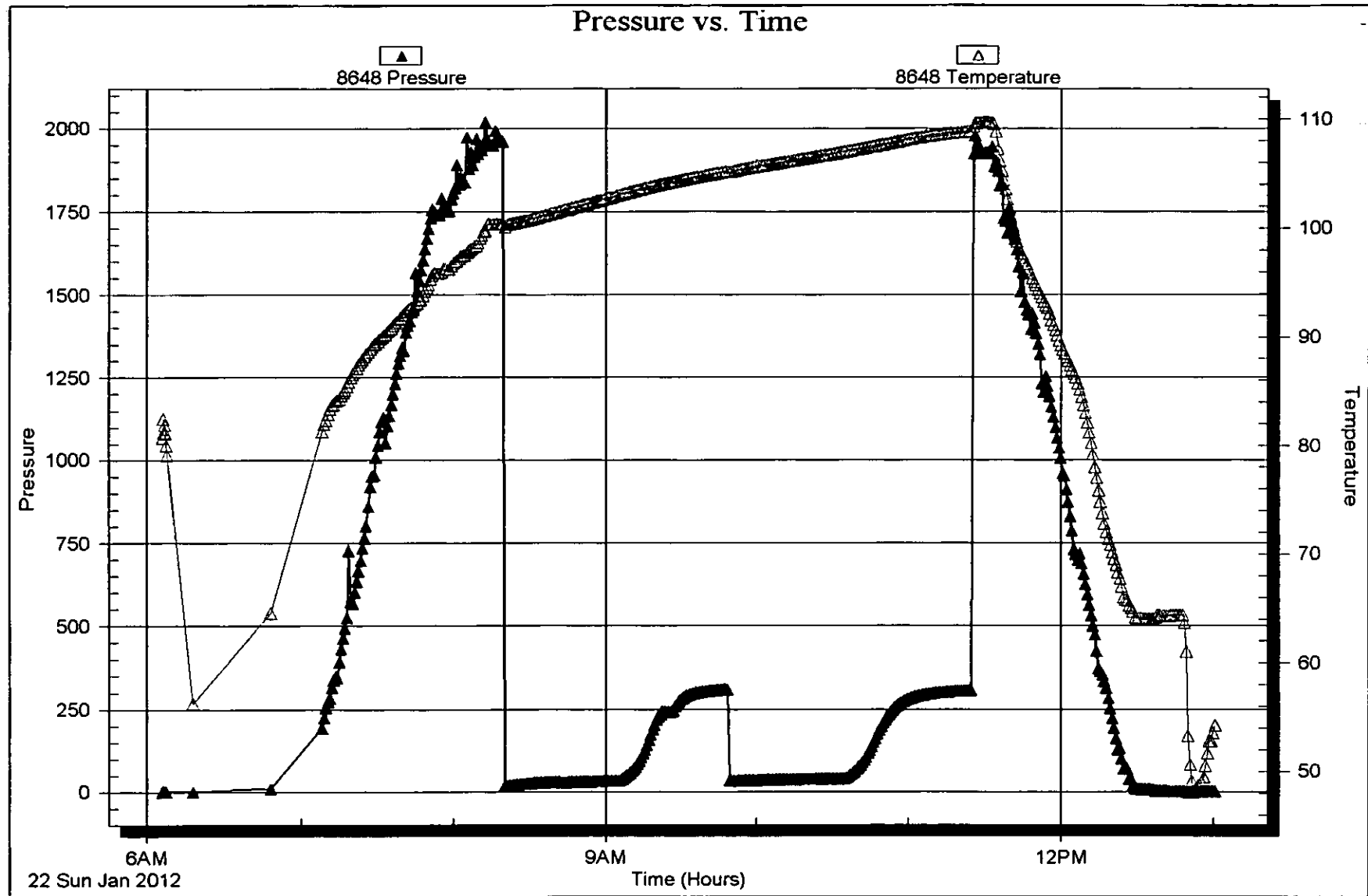


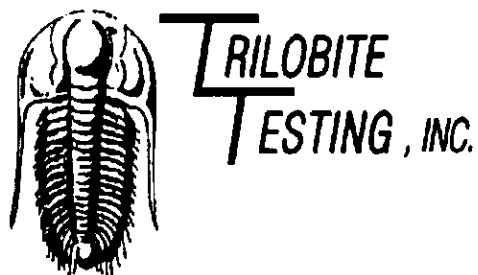
Serial #: 8648

Inside Downing-Nelson Oil Co. Inc.

23-9s-24w Graham,KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

23-9s-24w Graham,KS

Nickelson Farms 'B' #1-23

Start Date: 2012.01.22 @ 20:22:00

End Date: 2012.01.23 @ 03:28:15

Job Ticket #: 43090 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.01.27 @ 11:32:11

Downing-Nelson Oil Co. Inc.

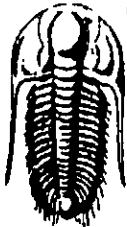
Nickelson Farms 'B' #1-23

23-9s-24w Graham,KS

DST # 2

LKC T,J

2012.01.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

Nickelson Farms 'B' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham,KS

Job Ticket: 43090

DST#: 2

ATTN: Marc Downing

Test Start: 2012.01.22 @ 20:22:00

GENERAL INFORMATION:

Formation: **LKC "I,J"**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 22:17:30

Time Test Ended: 03:28:15

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Kevin Mack**

Unit No: **43**

Interval: **3985.00 ft (KB) To 4030.00 ft (KB) (TVD)**

Total Depth: **4030.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2500.00 ft (KB)**

2493.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 6799

Inside

Press@RunDepth: **103.10 psig @ 3986.00 ft (KB)**

Start Date: **2012.01.22**

End Date: **2012.01.23**

Start Time: **20:22:05**

End Time: **03:28:14**

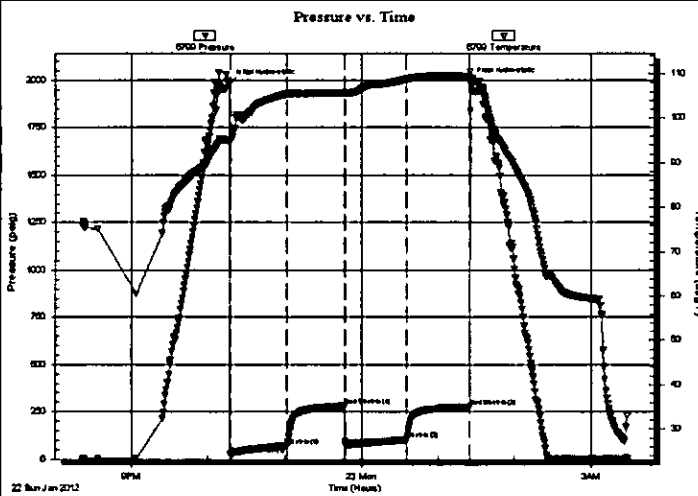
Capacity: **8000.00 psig**

Last Calib.: **2012.01.23**

Time On Btm: **2012.01.22 @ 22:17:00**

Time Off Btm: **2012.01.23 @ 01:26:15**

TEST COMMENT: IF- 1/2" Blow built to BoB in 29 min.
IS- Weak Surface return started at 5 min. Died at 30 min.
FF- Surface Blow built to 7 1/2"
FS- Weak Surface return started at 12 min. Did not build or die.



PRESSURE SUMMARY

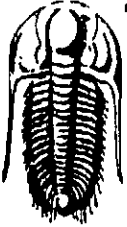
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1984.26	95.09	Initial Hydro-static
1	24.54	94.56	Open To Flow (1)
45	70.72	105.44	Shut-In(1)
90	279.97	105.72	End Shut-In(1)
91	72.18	105.69	Open To Flow (2)
139	103.10	108.73	Shut-In(2)
188	278.26	109.39	End Shut-In(2)
190	1993.25	108.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
119.00	OSMV 30M70W (oil spots)	1.44
55.00	OCVM 50M30W 20o	0.77
5.00	Free oil 100o	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co. Inc.

Nickelson Farms 'B' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham,KS

Job Ticket: 43090 **DST#: 2**

ATTN: Marc Downing

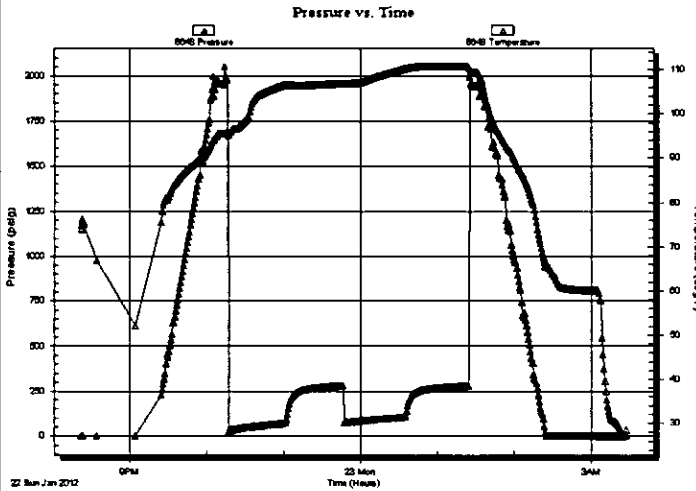
Test Start: 2012.01.22 @ 20:22:00

GENERAL INFORMATION:

Formation: LKC "I,J"		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock	ft (KB)	Tester: Kevin Mack
Time Tool Opened: 22:17:30		Unit No: 43
Time Test Ended: 03:28:15		Reference Elevations: 2500.00 ft (KB)
Interval: 3985.00 ft (KB) To 4030.00 ft (KB) (TVD)		2493.00 ft (CF)
Total Depth: 4030.00 ft (KB) (TVD)		KB to GR/CF: 7.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good	

Serial #: 8648	Inside				
Press@RunDepth:	psig @	3986.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.01.22	End Date:	2012.01.23	Last Calib.:	2012.01.23
Start Time:	20:22:35	End Time:	03:26:59	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF- 1/2" Blow built to BoB in 29 min.
IS- Weak Surface return started at 5 min. Died at 30 min.
FF- Surface Blow built to 7 1/2"
FS- Weak Surface return started at 12 min. Did not build or die.



PRESSURE SUMMARY

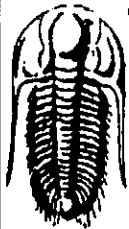
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
119.00	OSMW 30M 70W (oil spots)	1.44
55.00	OCWM 50M 30W 20o	0.77
5.00	Free oil 100o	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co. Inc.

Nickelson Farms 'B' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham, KS

Job Ticket: 43090

DST#: 2

ATTN: Marc Downing

Test Start: 2012.01.22 @ 20:22:00

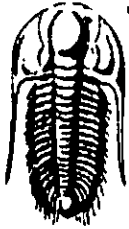
Tool Information

Drill Pipe:	Length: 3964.00 ft	Diameter: 3.80 inches	Volume: 55.60 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.75 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3985.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	66.00 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			3965.00	
Shut In Tool	5.00			3970.00	
Hydraulic tool	5.00			3975.00	
Packer	5.00			3980.00	21.00 Bottom Of Top Packer
Packer	5.00			3985.00	
Stubb	1.00			3986.00	
Recorder	0.00	8648	Inside	3986.00	
Recorder	0.00	6799	Inside	3986.00	
Perforations	6.00			3992.00	
Change Over Sub	1.00			3993.00	
Drill Pipe	31.00			4024.00	
Change Over Sub	1.00			4025.00	
Bullnose	5.00			4030.00	45.00 Bottom Packers & Anchor

Total Tool Length: 66.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co. Inc.

Nickelson Farms 'B' #1-23

PO Box 1019
Hays, KS 67601

23-9s-24w Graham, KS

Job Ticket: 43090

DST#: 2

ATTN: Marc Downing

Test Start: 2012.01.22 @ 20:22:00

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:

27500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (Heavy) 100M	0.025
119.00	OSMW 30M 70W (oil spots)	1.442
55.00	OCWM 50M 30W 20o	0.772
5.00	Free oil 100o	0.070

Total Length:

184.00 ft

Total Volume:

2.309 bbl

Num Fluid Samples: 0

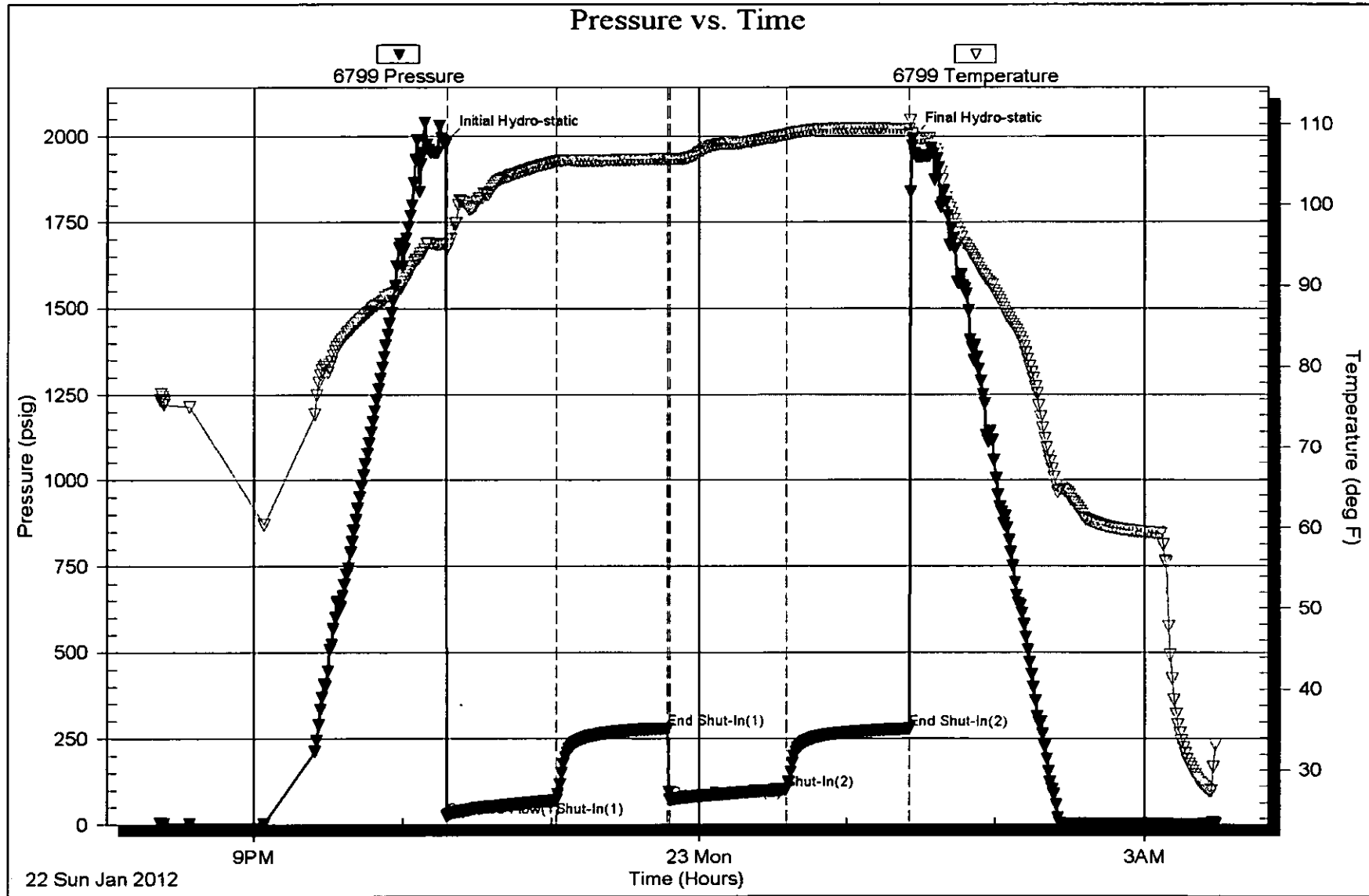
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .34@ 52 deg = 27500 ppm

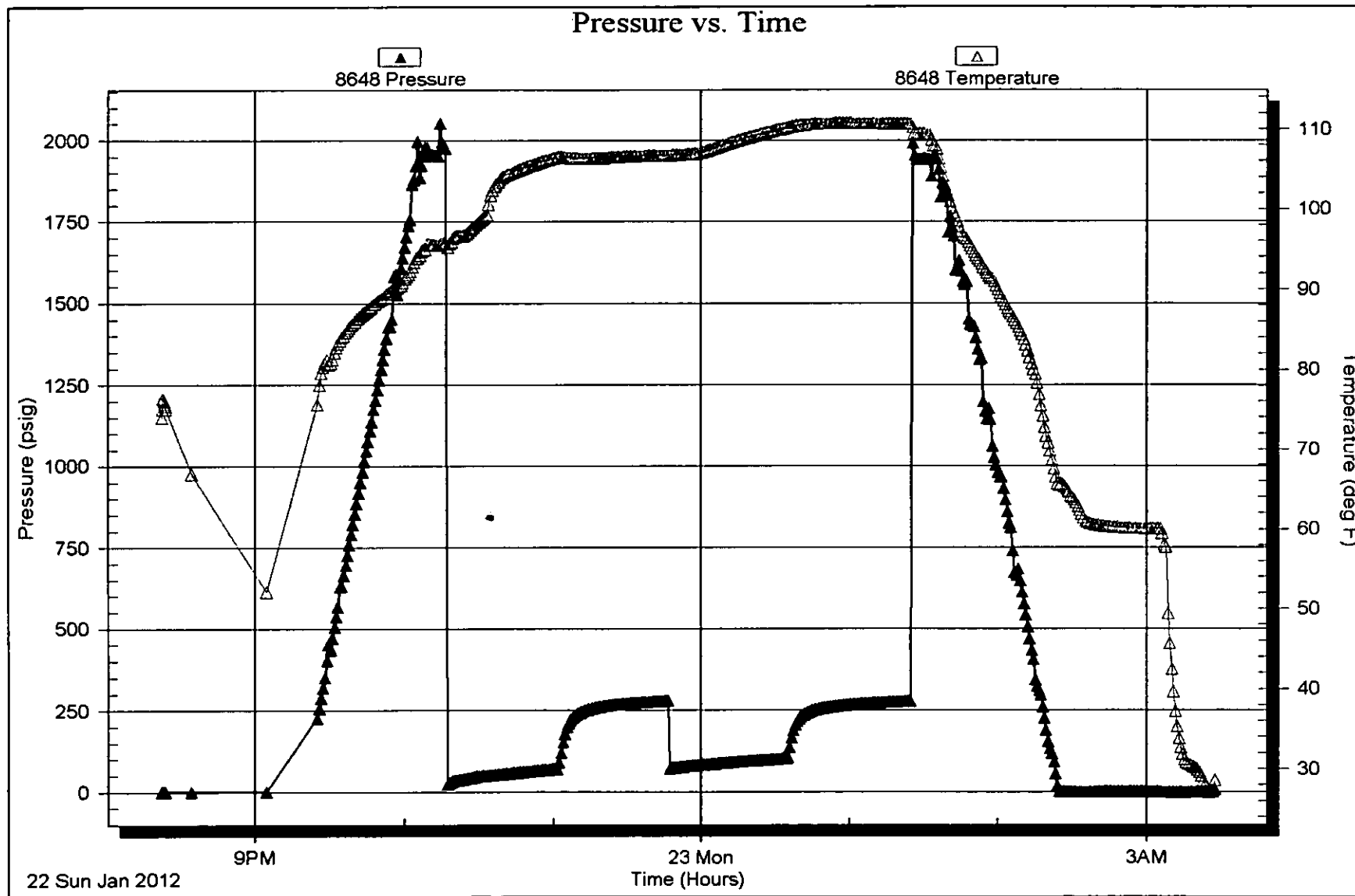


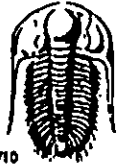
Serial #: 8648

Inside Downing-Nelson Oil Co. Inc.

23-9s-24w Graham,KS

DST Test Number: 2





TRIOBITE TESTING INC.

P.O. Box 1733 - Hays, Kansas 67601

RECEIVED
JAN 26 2012

Test Ticket

NO. 043089

BY:

Well Name & No. Nickelson Farms "B" # 1-23 Test No. 1 Date 1-22-12
 Company Downing-Nelson Oil Co. Inc. Elevation 2500 KB 2493 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 23 Twp. 9s Rge. 24w Co. Graham State KS

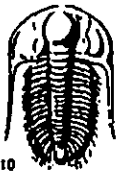
Interval Tested 3984-4006 Zone Tested LKC "I"
 Anchor Length 22' Drill Pipe Run 3962 Mud Wt. 9
 Top Packer Depth 3980 Drill Collars Run 30' Vis SS
 Bottom Packer Depth 3984 Wt. Pipe Run Ø WL 8.0
 Total Depth 4006 Chlorides 4000 ppm System LCM 2#
 Blow Description IF- 1/4" Blow built to 3 1/4"
IS- No Return
FF- Surface Blow started at 2 min. Built to did not build on bit
FS- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OCUM</u>	<u>20</u>	<u>5</u>	<u>75</u>	
		<u>20</u>	<u>5</u>	<u>75</u>	

Rec Total 60 BHT 108 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1965</u>	<input checked="" type="checkbox"/> Test <u>1225</u>	T-On Location <u>5:35 AM</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars	T-Started <u>6:05 AM</u>
(C) First Final Flow <u>34</u>	<input type="checkbox"/> Safety Joint	T-Open <u>8:20 AM</u>
(D) Initial Shut-In <u>310</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>11:20 AM</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1:01 PM</u>
(F) Second Final Flow <u>40</u>	<input checked="" type="checkbox"/> Mileage <u>148 RT 2070</u>	Comments <u>30' GIP</u>
(G) Final Shut-In <u>307</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1480</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>Ø</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1432.20</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1432.20</u>	

Approved By _____ Our Representative [Signature]
 Triobite Testing Inc. shall not be liable for damaged or 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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 26 2012

Test Ticket

NO. 043090

Well Name & No. Nickelson Farms "B" #1-23 Test No. 2 Date 1-22-12
 Company Downing-Nelson Oil Co. Inc. Elevation 2500 KB 2493 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 23 Twp. 9s Rge. 24w Co. Graham State KS

Interval Tested 3985-4030 Zone Tested LLK "I, J"
 Anchor Length 45' Drill Pipe Run 3964 Mud Wt. 9.1
 Top Packer Depth 3981 Drill Collars Run 30' Vis 51
 Bottom Packer Depth 3985 Wt. Pipe Run Ø WL 8.0
 Total Depth 4030 Chlorides 1,000 ppm System LCM 1.5**

Blow Description IF - 1/2" Blow built to BOB in 29 min.
IS - Weak Surface return started at 5 min. Died at 30 min.
FF - Surface Blow built to 7 1/2"
FS - Weak Surface return started at 12 min. ~~did not build~~ did not build order.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Free Oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>55</u>	<u>GCM</u>	<u>20</u>	<u>30</u>	<u>50</u>	<u>0</u>
<u>119</u>	<u>CSMW</u>	<u>spots</u>	<u>70</u>	<u>30</u>	<u>0</u>
<u>5</u>	<u>heavy mud</u>	<u>50</u>	<u>0</u>	<u>100</u>	<u>0</u>

Rec Total 184 BHT 109 Gravity - API RW 34 @ 52 °F Chlorides 27,500 ppm

(A) Initial Hydrostatic 1984 Test 1225 T-On Location 8:15 PM
 (B) First Initial Flow 24 Jars _____ T-Started 7:22 PM
 (C) First Final Flow 70 Safety Joint _____ T-Open 10:17 PM
 (D) Initial Shut-In 279 Circ Sub 505 T-Pulled 1:17 AM
 (E) Second Initial Flow 72 Hourly Standby _____ T-Out 3:28 AM
 (F) Second Final Flow 103 Mileage 148RT 207²⁰ Comments _____
 (G) Final Shut-In 278 Sampler _____
 (H) Final Hydrostatic 1993 Straddle _____

Initial Open 45 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Extra Copies _____
 Final Shut-In 45 Day Standby _____ Sub Total Ø
 Sub Total 1482.20 Total 1482.20 MP/DST Disc't _____

Approved By _____ Our Representative

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