



KANSAS CORPORATION COMMISSION 1073333
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 #: _____
01/20/2012 01/26/2012 02/27/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-051-26240-00-00

Spot Description: _____
NE NW SW NW Sec. 12 Twp. 14 S. R. 19 East West
1603 Feet from North / South Line of Section
438 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Ellis
Lease Name: Robert Pfeifer Trust Well #: 1-12

Field Name: Ridge Hill

Producing Formation: LKC

Elevation: Ground: 2204 Kelly Bushing: 2212

Total Depth: 3893 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: 1480 Feet

If Alternate II completion, cement circulated from: 0

feet depth to: 1480 w/ 130 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 17000 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 Garrist Date: 04/25/2012



1073333

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Robert Pfeifer Trust Well #: 1-12
 Sec. 12 Twp. 14 S. R. 19 East West County: Ellis

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 style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Name</td> <td style="width:33%;">Top</td> <td style="width:33%;">Datum</td> </tr> <tr> <td>Attached</td> <td>Attached</td> <td>Attached</td> </tr> </table>	Name	Top	Datum	Attached	Attached	Attached
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	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	3538' to 3542'	250 gallons 15% Mud Acid	3538' to 3542

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>3827.61</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>03/10/2012</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>10</u>	Gas Mcf <u>0</u>	Water Bbls. <u>13</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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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Robert Pfeifer Trust 1-12
Doc ID	1073333

Tops

Name	Top	Depth
Top Anhydrite	1483'	+729
Base Anhydrite	1525'	+687
Topeka	3218'	-1006
Heebner	3466'	-1254
Toronto	3485'	-1273
LKC	3513'	-1301
BKC	3749'	-1537
Arbuckle	3862'	-1650

JOB LOG

SWIFT Services, Inc.

DATE 1-27-12 PAGE NO. 1

CUSTOMER Drawing & Nelson WELL NO. 1-12 LEASE Pfeifer JOB TYPE Cement Longstring TICKET NO. 21247

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD-3893	DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING			
	0500							14" / 4"	5 1/2"	DN location w/ Float Equip - Re LDDC
	0525									Fin LD - Change over to run casing
	0630									Start casing - to 3892'
										Insert Float Shoe w/ Auto-Fill
										L.D. Baffle - SJ - 20' @ 3892' (94 1/2 BBL)
										Cont. 1-3-5-7-9-11-57
										Out Basket #58 (Basket #58 @ 1480')
										Drop Pull-up ball - left out
										JTs left out #93-94
	0800									Fin run casing - Tag Bottom
	0815									Start circ/rotate
										WTR tank plugged @ Valve.
										Call for WTR Trk.
	0940									Plug RH - 30 sks 14" H 25 sks cont
	0945	5	12				200			Pump 50 gal Mucal Flush
		6	20				550			Pump 20 BBL KCL Flush
	0950	4 1/2					250			Start 120 sks EA-2 cont
	1000		36				vac			Fin cont - wash out Pump & Lines
										Drop L.D. Plug
	1003	8					350			Start Displ
			70							Caught cont lift
		5 1/2	90							Slow rate
	1015		94 1/2				750 1400			Plug Down - Hold - Release & Hold
										Job Complete
	1030									Wash up & Break up
	1045									
										<i>Thanks</i> <i>Alan, Brian & Doug</i>

JOB LOG

SWIFT Services, Inc.

DATE 02-07-12 PAGE NO. 1










CUSTOMER Downing-Nelson WELL NO. 1-12 LEASE FEIGEL UNIT JOB TYPE CMT. Post Column TICKET NO. 21306

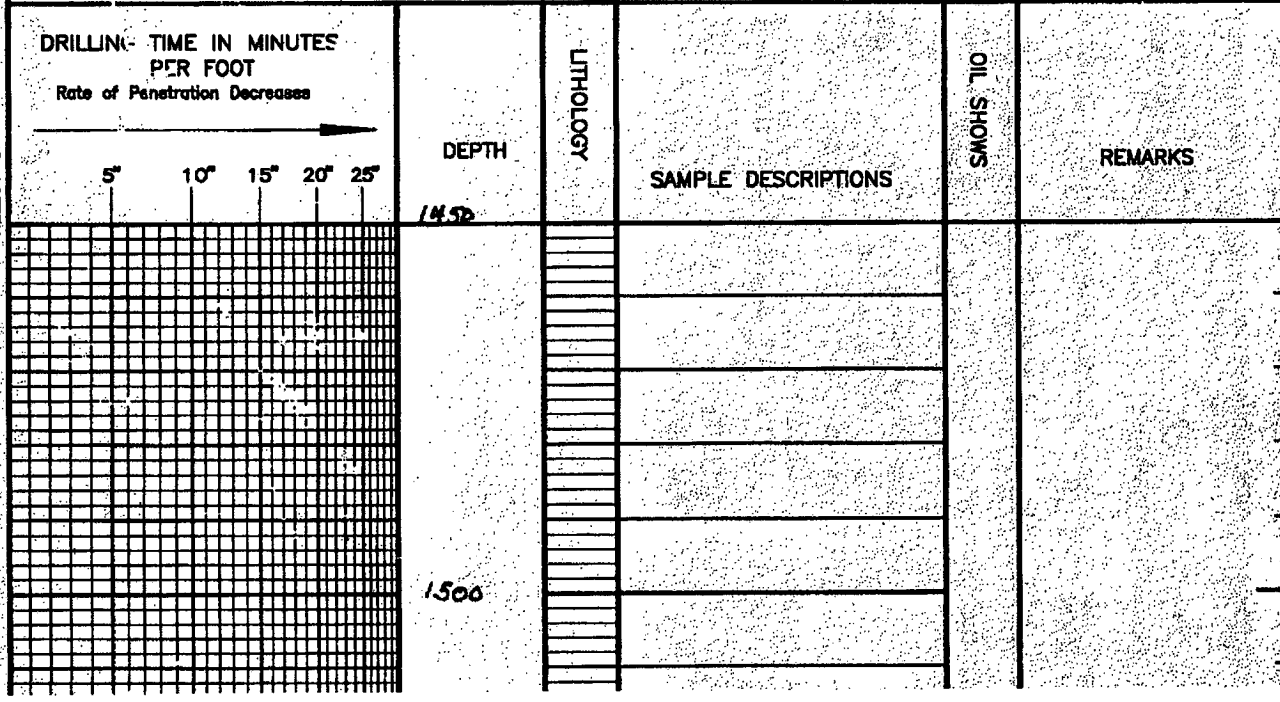
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								OP LOCATION
								CMT: 150 S/S SMD 2 1/4" RW
								2 1/8" x 5 1/2" RR-350
								Post Column 1470
	0845		6.5	-	-	1000	1000	PSZ TEST
								OPEN PC
	0850	3.0	3.0	-	-	300		START PC - Good flow
		3.5	0	-	-	350		START CMT @ 11" #
		}	6.0	-	-	500		CIRC-MUD
			60.0	-	-	600		CIRC CMT TO PIT!
			15.0	-	-	600		MIX 20 S/S @ 14"
			0	-	-	600		START DISP
			4.5	-	-	600		END
	0845							CLOSE PC
	0850			-	-	1100	1100	PSZ TEST - HLD
								RUN IN 5 JOINTS
	0905	2.5	0	-	-	300		REV. OUT
		}	5	-	-	250		1st FLOW
			9	-	-	150		2nd FLOW
	0920		20	-	-	150		ALL CLEAN
								TOTAL CMT 130 S/S
								20 S/S TO PIT!
	0945							JOB COMPLETE
								THANK YOU!
								DAVE JESCH, ROB

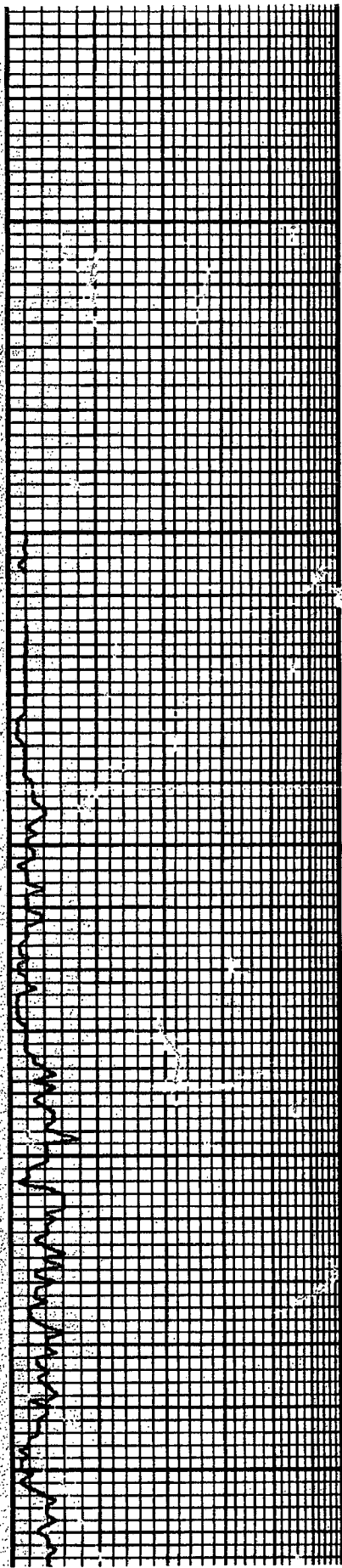
REMARKS AND RECOMMENDATIONS	No.	Interval	RP/Min	SP/Min	FP/Min	IP/Min	HH-MH	REMARKS

DRILL STEM TESTS

LEGEND

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





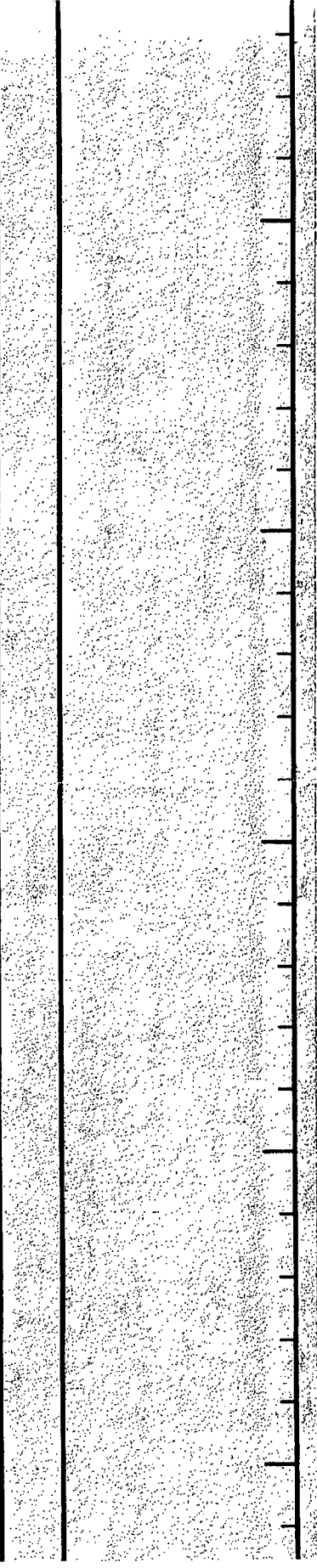
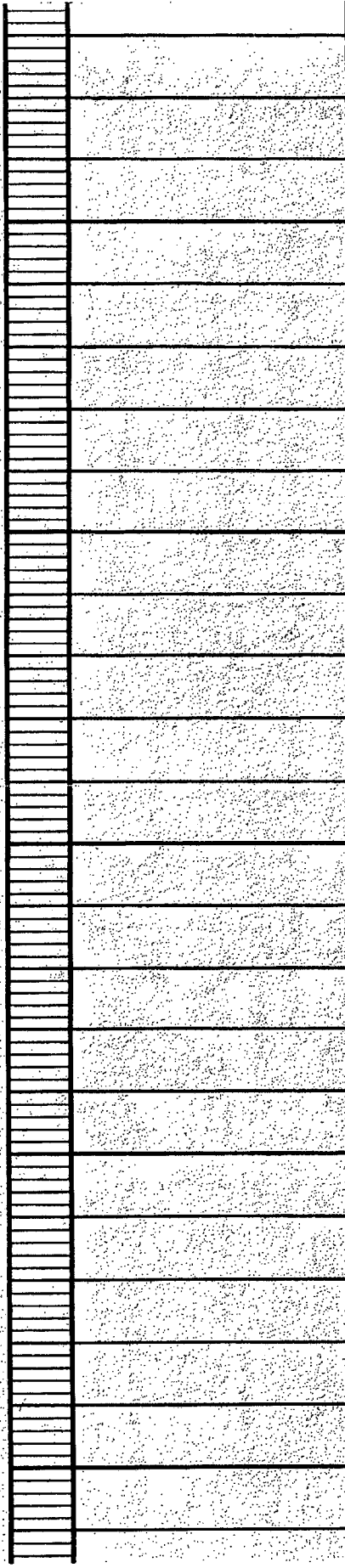
1550

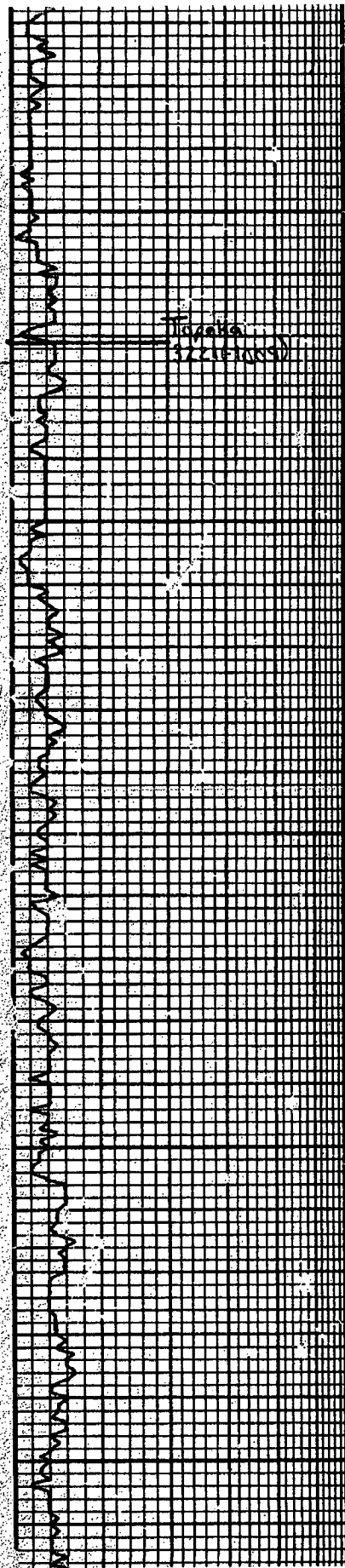
3000

50

3100

50





3200

50

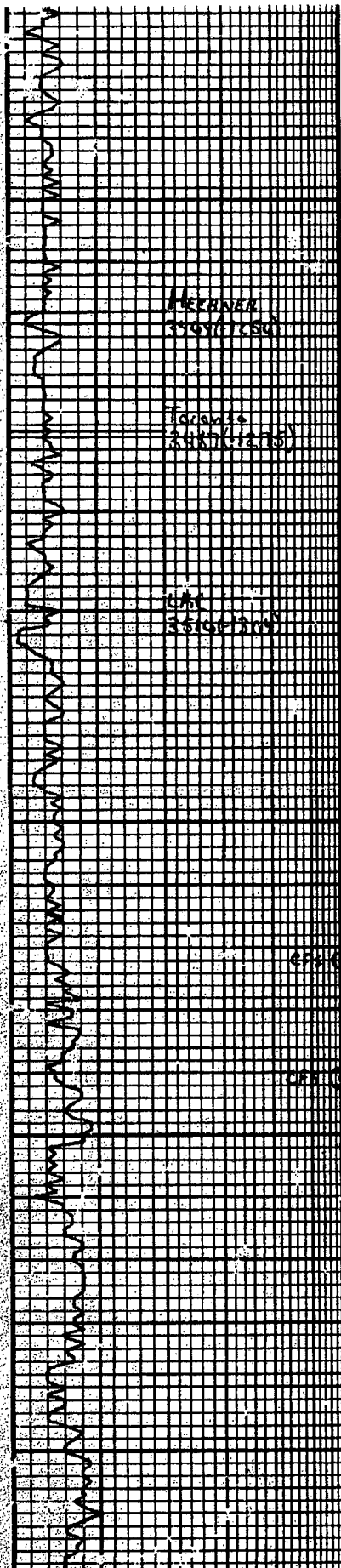
3300

50

3400

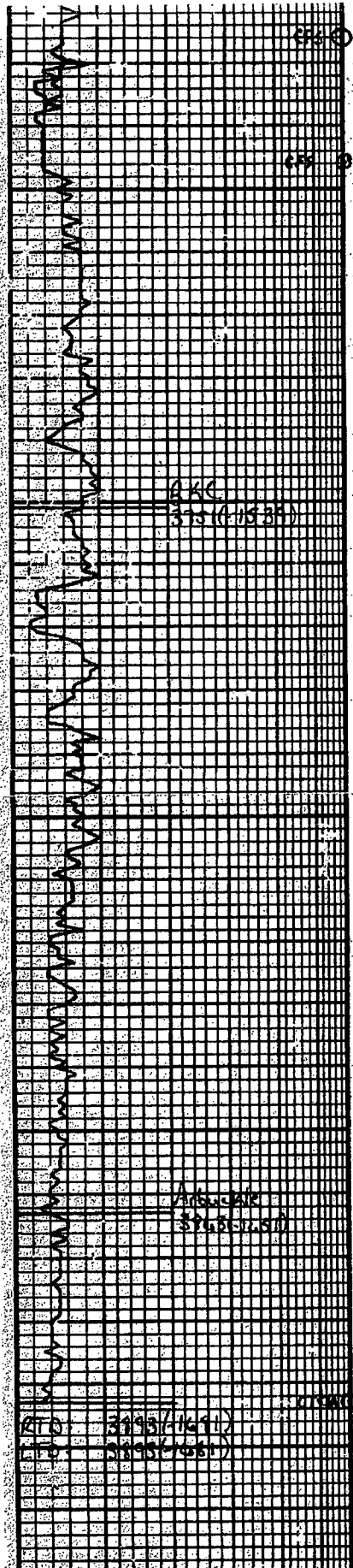
	LS: unit - tam, fr xl, prg, tile
	LS: unit, fr xl, sub xl, scat fr. sub xl, Tam prg & tile, NS.
	Sh: grg
	LS: unit - com, fr - mid xl, gd intrud of scat prg. Along chky
	OS All NS.
	Sh: dk grg
	Sh: grg
	LS: tam - unit, less fr ind xl, sub xl - chky, NS.
	LS: tam - unit scat less gd intrud, fr amt chky ex, cat scat grg chky.
	LS: unit - ll tam, less mild in prt. fr ind xl - ll many sub xl - chky or scat tam chky, NS.
	Sh: Black Carb
	Sh: dk grg
	LS: unit, fr - v fr xl, mostly dms
	Sh: grg
	LS: unit, fr xl, chky, Tam, v dms & prg, All NS.
	Sh: grg
	LS: AIA
	Sh: Black Carb
	Sh: grg
	LS: unit, fr - mid xl, many less, fr ind less, v chky. Fr amt grg less chky, All





	Sh:gy - drk gry
	Sh:gy
	LS: wht, f, sh, foss in prt. subxl - chiky, 2-3 pr ul pr resid sh, NSF, No Od.
50	LS: wht - 1/2 from sub xl in prt, frag dms. Fr p 4 mfd ul drk, All NS.
	Sh: Black Carb
	Sh:gy
	LS: wht, f, v, sh, subxl - chiky, 2-3 pr ul settl sfo in pr P, mostly barren, No Od.
3500	Sh:gy
	LS: wht, v, f, sh, v, chs, No p
	Sh: red-bn
	LS: tan, f, m, sh, pr, v, t, g NS
	Sh:gy ul br.
	LS: 1/2 tan, f, m, sh, v, chs in prt. few sh. re. f, gd vng, 2-3 pr ul pr. acc. f, gd sat ul gd sfo, ggy in prt. 1/2 - fr Od.
50	Sh:gy
	LS: 1/2 tan-bn, f, m, sh, v, chs, f, g gd subxl, ul settl sfo, f, g gd 1/2 tan sh, v, sat ul fr sfo, fr Od, Rx friable, Free oil on cup.
	LS: wht, f, m, sh, v, chs, 3-4 dms or ul fr. gd 1/2 tan sh, v, chs, f, g w, v, g. About v, chky or ul. No Od.
	Sh:gy
3600	LS: wht, f, sh, subxl - chiky, 2-3 foss or wgd vng, gd sfo, f, g fr sfo, 1/2 lit acc. or in base. No Od.
	LS: wht, f, v, sh, v, chs, No vng, ul. No. Seat ggy, f tan chls.
	Sh: drk gry - blk.
	Sh:gy
	LS: wht, f, m, sh, v, chs, few foss. subxl - 2-3 pr ul fr mfd pr. ul ul pr sfo, f, g, v, fr Od.
50	Sh:gy
	LS: wht, f, sh, v, chs, Seat fr acc.

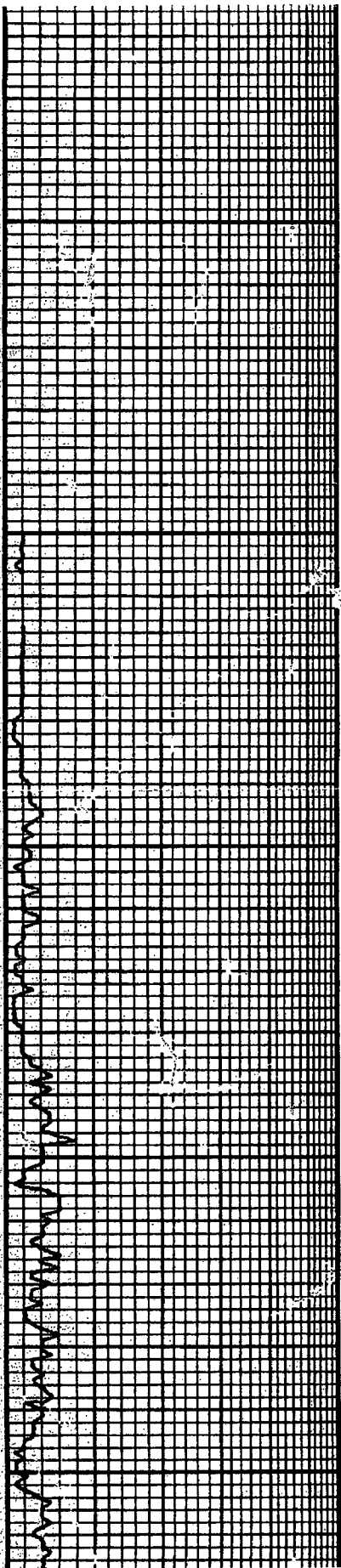
Vis: 64	Ut: 4.5
OST #1	
3517-3572	
30-30-30-30	
I.F. 808 27 min	
F.S. 808 4 min / surf 528	
FFP: 45-63	
FFP: 72-85	
SIP: 192-190	
MP: 1786-1696	
Rec:	
1958' GIP	
94' GOCM 10%, 20%	
81' UCOGM 35%, 20%, 15%	
BHT: 99' c/w: SLK	
Vis: 51	Ut: 2.9
OST #2	
3623-3676	
45-45-45-45	
I.F. 2" blow	
F.F. 1" blow	
FFP: 37-41	
FFP: 41-42	
SIP: 525-260	
MP: 1905-1725	
Rec:	
25' GOCM 5%	
BHT: 109'	
OST #3	
3690-3696	
45-45-45-45	
I.F. 2 1/4' blow	
F.F. 1" blow	



D 3 # 3	<p>gwy in prt. Some int fossils w/ fr. sh. sh. fur. 11' 0", free oil on cap.</p> <p>Sh: gy</p> <p>LS: tan- wht, v. fess, gd vngs, scat. in fess. gd east w/ gd SFO, gd. Od.</p> <p>LS: tan- wht, v. fess, fr. ind. oil & w/ fr. 11' 0", spotted SFO, 11' 0".</p> <p>Sh: gy</p> <p>LS: tan- wht, v. fess, scat. fess. oil. Foss. outside. ex, pr. NS.</p> <p>LS: wht, v. fess, sub. in prt. Totally barren.</p> <p>Sh: gy</p> <p>LS: wht, fr. wh. v. dms, few sub. ex, NS.</p> <p>Sh: gy</p> <p>LS: tan- wht, fr. ind. dms.</p> <p>Sh: gy w/ brown red.</p> <p>LS: tan, tot. oil, dms, pr.</p> <p>Sh: gy w/ brn</p> <p>Sh: AIA</p> <p>Sh: gy w/ same brn</p> <p>Sh: tan, red. brn w/ scat. tan + gal. chnt. washes red.</p> <p>Sh: AIA washes v. red. 1-2 pcs wht. sand. det.</p> <p>Dark wht, md. rham. wh. pe. in. tub. bit. Mostly barren w/ scat. gl.omite etc. All No. Od.</p>
	3700
	50
	3800
	50
	3900

FFP: 22-25
 SIP: 939-779
 HP: 1914-1933
 Rec.
 25' mud w/ oil & sand
 BHT: 108'

M. J. Jan



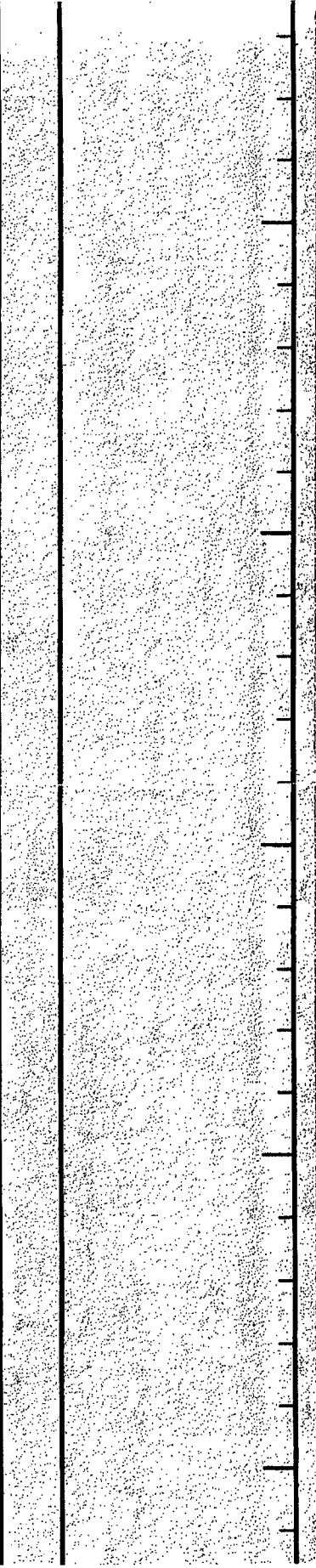
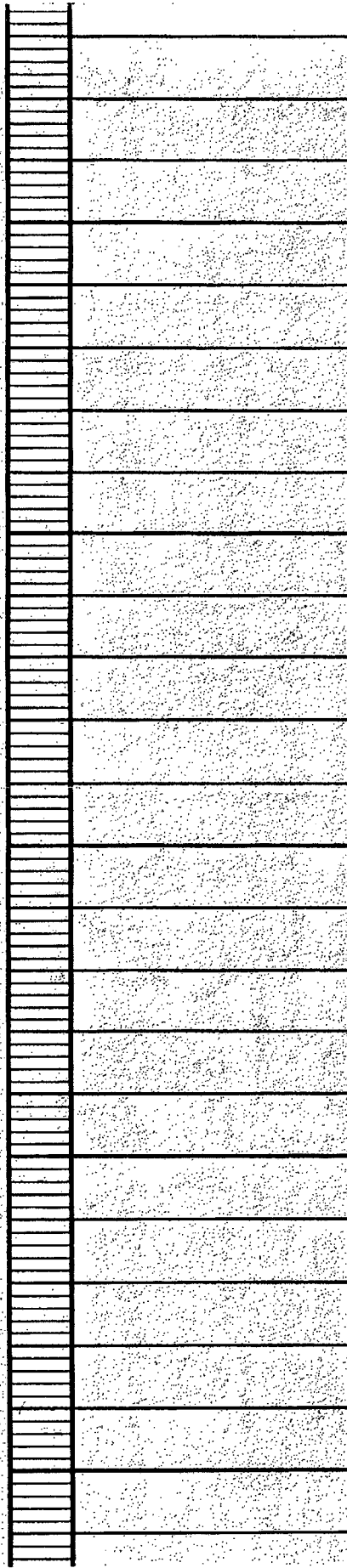
1550

3000

50

3100

50



3200

Thapsia
(222-1005)

LS: unit-tam, fin xln, prog,
tite.

LS: unit, fin xln, sub xln,
scat fr. sub xln, Ting
prog & tite, NS.

50

Sh: gy
LS: unit-com, fin mid xln, gd
intake w/ scat prog, many chky
or All NS.

Sh: dk gy

Sh: gy
LS: tan-unit, loss, fr int
xlns, sub xln-chky, NS.

LS: tan-unit scat loss
gd intake, fr amt chky
ex, w/ scat gy chka.

3300

LS: unit-ll tan, loss, mtd
in pot. fr int xlns w/
many sub xln-chky or
scat tan chka, NS

Sh: Black Carb

Sh: dk gy

LS: unit, fin vln xln, mostly
dms

50

Sh: gy

LS: unit, fin xln, chky, Ting
tam, v dms & prog, All
NS.

Sh: gy

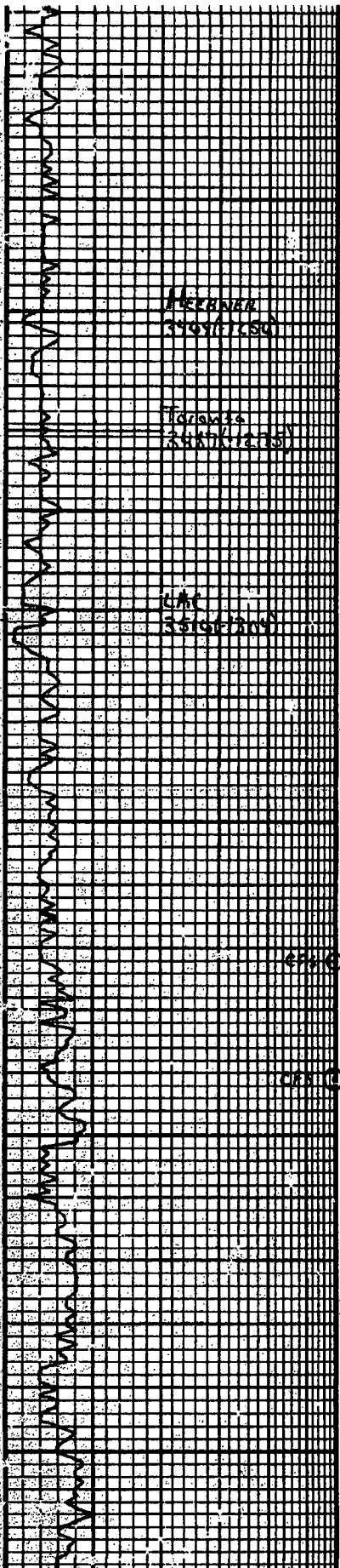
LS: AIA

Sh: Black Carb

Sh: gy

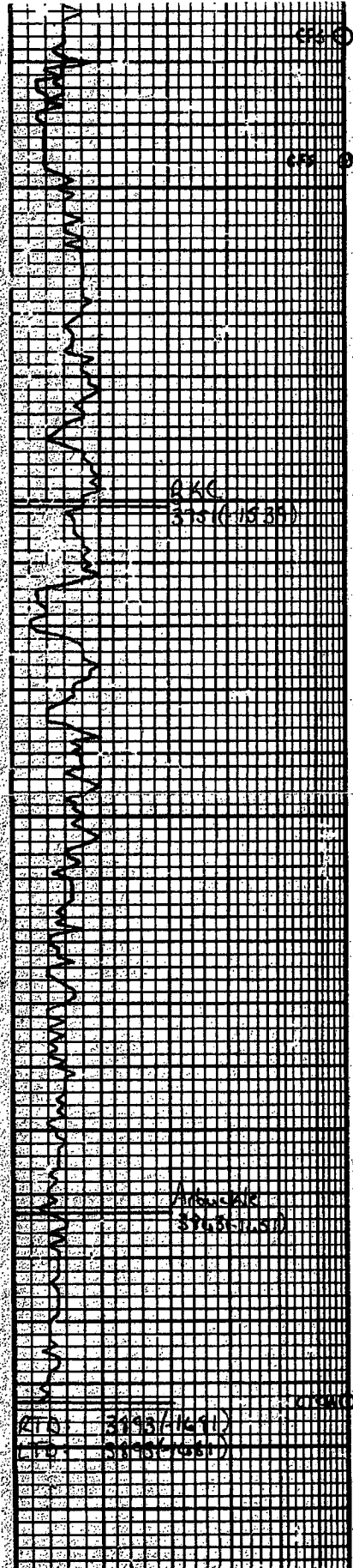
3400

LS: unit, fin mid xln, many
loss, fr int loss, v chky,
Fr amt gy loss chka, All



	Sh:gy - drk gy
	Sh:gy
	Ls: wht, fuxls, foss in prt. subxl - chky, 1-2 pct wt pr resid slt, NSF0, No Od.
50	Ls: wht - 11 lam, sub xl in prt, frag dns. Pr p f. mtd cal drcn, All NS.
	Sh: Black Carb
	Sh:gy
3500	Ls: wht, fux v fux xl, subxl - chky, 2-3 pct wt settl SFO in pr Pr, mostly barren, No Od.
	Sh:gy
	Ls: wht, v fux xl, v chs, No p
	Sh: red brn
	Ls: tan, fux xl, pr, v tite, NS
	Sh: gy w/ brn
	Ls: 10 lam, fux xl, cal in prt fux xl, pr, f. gd wdg, 1-2 pct wt pr, f. gd slt w/ gd drf, gy in prt, 11-12 pct Od.
50	Sh: gy
	Ls: 10 lam, brn, fux xl, f. gd subxl, w/ slt wdg, f. gd 10 lam slt, w/ 4 pct SFO, Fr Od, Rr Fricls, Free oil on cup.
	Ls: wht, fux xl, 3-4 dlam or w/ f. gd 10 lam, w/ 1-2 pct SFO, w/ brn fux xl, Abut, v chky or w/ NS, 16-18 pct Od.
	Sh:gy
3600	Ls: wht, fux xl, subxl - chky, 2-3 pct wt w/ gd wdg, gd settl fr SFO, 1-2 pct drf, or in base. No Od.
	Ls: wht, fux v fux xl, No vise w/ NS, Scot gy + lan chls.
	Sh: drk gy - blk.
	Sh:gy
	Ls: wht, fux md xl, fux foss subxl - 2-3 pct wt fr mtd Pr chl w/ pr SFO, wdg, v fux Od.
50	Sh:gy
	Ls: wht, fux xl, ool, Scot fr fux xl, w/ 1-2 pct SFO, wdg, v fux

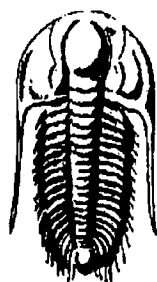
Vis: 64	Ut: 9.5
OST #1	
3517-3572	
30-30-30-30	
I.F. 808 2 1/2 min	
F.S. 808 4 min / surf 575	
IFF: 45-63	
FFP: 72-85	
SIP: 192-190	
HP: 1736-1696	
Rec:	
1958' GIP	
94' GOCM 10%, 20%	
31' WOCGM 35%, 20%, 15%	
BHT: 99' CWor: 5.6K	
Vis: 51	Ut: 8.9
OST #2	
3623-3674	
46-45-45-45	
I.F. 2" 61w	
F.F. 1" 61w	
IFF: 37-41	
FFP: 41-42	
SIP: 525-260	
HP: 1905-1120	
Rec:	
25' GOCM 5/0	
BHT: 109'	
OST #3	
3690-3696	
45-45-45-45	
I.F. 2 1/4" 61w	
F.F. 1" 61w	



0
 1
 2
 #
 3

3700
 LS: tan, med sh, v. cal, fr. int. cal. fr. int. Fr. 11. Od, free oil on exp. Sh: grey
 LS: tan, med sh, v. cal, fr. int. cal. fr. int. Fr. 11. Od, free oil on exp. Sh: grey
 LS: med, fr. v. fr. sh, scat. has. cal. Fr. sub. ex. pr. NS.
 LS: med, v. fr. sh, sub. in pr. Totally barren.
 Sh: grey
 LS: med, fr. sh. v. cal, few sub. ex. NS
 Sh: grey
 LS: tan, med sh, fr. med sh. dms.
 Sh: grey, oil bearing
 LS: tan, lot cal, dms, pr.
 Sh: grey, oil brn
 Sh: AIA
 3800
 Sh: grey, oil same brn
 Sh: tan, red, brn, oil, scat. tan + gal. chnta. washes red.
 Sh: AIA washes v. red. 1-2 pcs. whit. some dele.
 Dark, wht, med. sh. med. sh. pe. int. tub. like. Mostly barren, oil, scat. gl.omite str. All No. Od.
 3900
 Mar Jan

22-25
 SIP: 939-779
 HP: 1114-1933
 Rec.
 25 med oil oil scan
 BHT: 108



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Pfeifer #1-12

12-14s-19w Ellis,KS

Start Date: 2012.01.24 @ 09:56:16

End Date: 2012.01.24 @ 15:51:16

Job Ticket #: 46383 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.01 @ 11:39:01

Downing-Nelson Oil Co Inc
12-14s-19w Ellis,KS
Pfeifer #1-12
DST # 1
LKC-C & D
2012.01.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46383

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.01.24 @ 09:56:16

GENERAL INFORMATION:

Formation: **LKC-C & D**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 11:51:16

Time Test Ended: 15:51:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 150

Interval: **3517.00 ft (KB) To 3572.00 ft (KB) (TVD)**

Total Depth: 3572.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2211.00 ft (KB)

2203.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8321

Inside

Press@RunDepth: 85.14 psig @ 3554.00 ft (KB)

Start Date: 2012.01.24

End Date:

2012.01.24

Capacity: 8000.00 psig

Last Calib.: 2012.01.24

Start Time: 09:56:17

End Time:

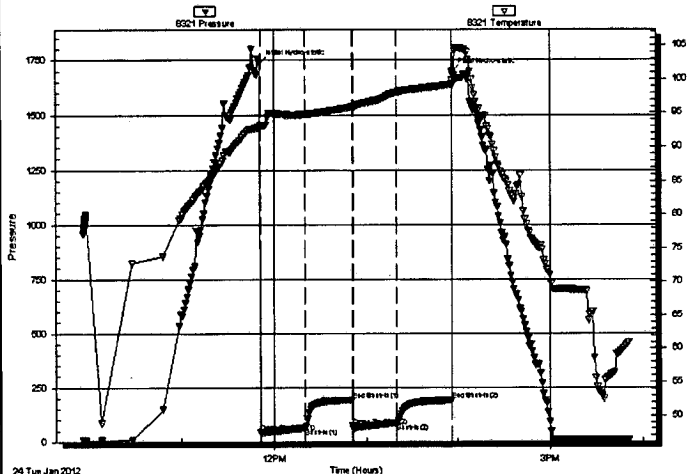
15:51:16

Time On Btm 2012.01.24 @ 11:50:46

Time Off Btm 2012.01.24 @ 13:56:16

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
IS-Dead no blow back
FFP-Strong blow BOB in 4 min
FSI-Weak surface blow back

Pressure vs. Time



PRESSURE SUMMARY

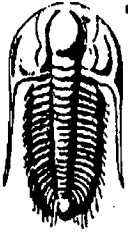
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.10	92.86	Initial Hydro-static
1	44.57	92.87	Open To Flow (1)
30	62.67	94.75	Shut-In(1)
60	192.28	95.85	End Shut-In(1)
61	71.95	95.81	Open To Flow (2)
89	85.14	97.97	Shut-In(2)
125	190.32	99.19	End Shut-In(2)
126	1696.05	99.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	GOCVM 35%G 20%O 15%W 30%M	0.43
94.00	GOCM 10%G 20%O 70%M	1.32
0.00	1858-GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

12-14s-19w Ellis, KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46383

DST#: 1

ATTN: Ron Nelson

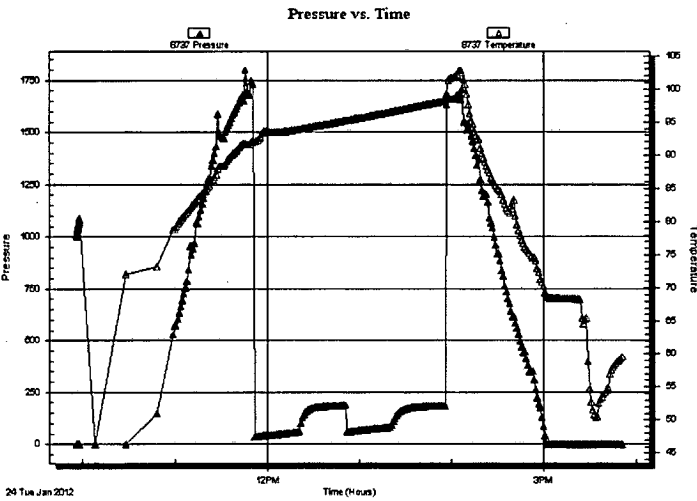
Test Start: 2012.01.24 @ 09:56:16

GENERAL INFORMATION:

Formation: **LKC-C & D**
 Deviated: No Whipstock ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:51:16 Tester: Jeff Brown
 Time Test Ended: 15:51:16 Unit No: 150
 Interval: **3517.00 ft (KB) To 3572.00 ft (KB) (TVD)** Reference Elevations: 2211.00 ft (KB)
 Total Depth: 3572.00 ft (KB) (TVD) 2203.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8737 Outside
 Press@RunDepth: psig @ 3554.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.01.24 End Date: 2012.01.24 Last Calib.: 2012.01.24
 Start Time: 09:56:24 End Time: 15:51:23 Time On Btm
 Time Off Btm

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
 ISI-Dead no blow back
 FFP-Strong blow BOB in 4 min
 FSI-Weak surface blow back



PRESSURE SUMMARY

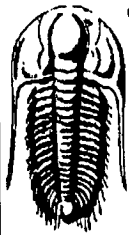
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
31.00	GOCWM 35%G 20%O 15%W 30%M	0.43
94.00	GOCM 10%G 20%O 70%M	1.32
0.00	1858-GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46383

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.01.24 @ 09:56:16

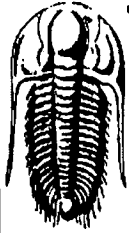
Tool Information

Drill Pipe:	Length: 3517.00 ft	Diameter: 3.80 inches	Volume: 49.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 49.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3517.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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			3498.00	
Shut In Tool	5.00			3503.00	
Hydraulic tool	5.00			3508.00	
Packer	4.00			3512.00	20.00 Bottom Of Top Packer
Packer	5.00			3517.00	
Stubb	1.00			3518.00	
Perforations	3.00			3521.00	
Change Over Sub	1.00			3522.00	
Drill Pipe	31.00			3553.00	
Change Over Sub	1.00			3554.00	
Recorder	0.00	8321	Inside	3554.00	
Recorder	0.00	8737	Outside	3554.00	
Perforations	15.00			3569.00	
Bullnose	3.00			3572.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46383

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.01.24 @ 09:56:16

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 8.00 lb/gal
Viscosity: 64.00 sec/qt
Water Loss: 7.58 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	GOCWM 35%G 20%O 15%W 30%M	0.435
94.00	GOCM 10%G 20%O 70%M	1.319
0.00	1858-GIP	0.000

Total Length: 125.00 ft Total Volume: 1.754 bbl

Num Fluid Samples: 0

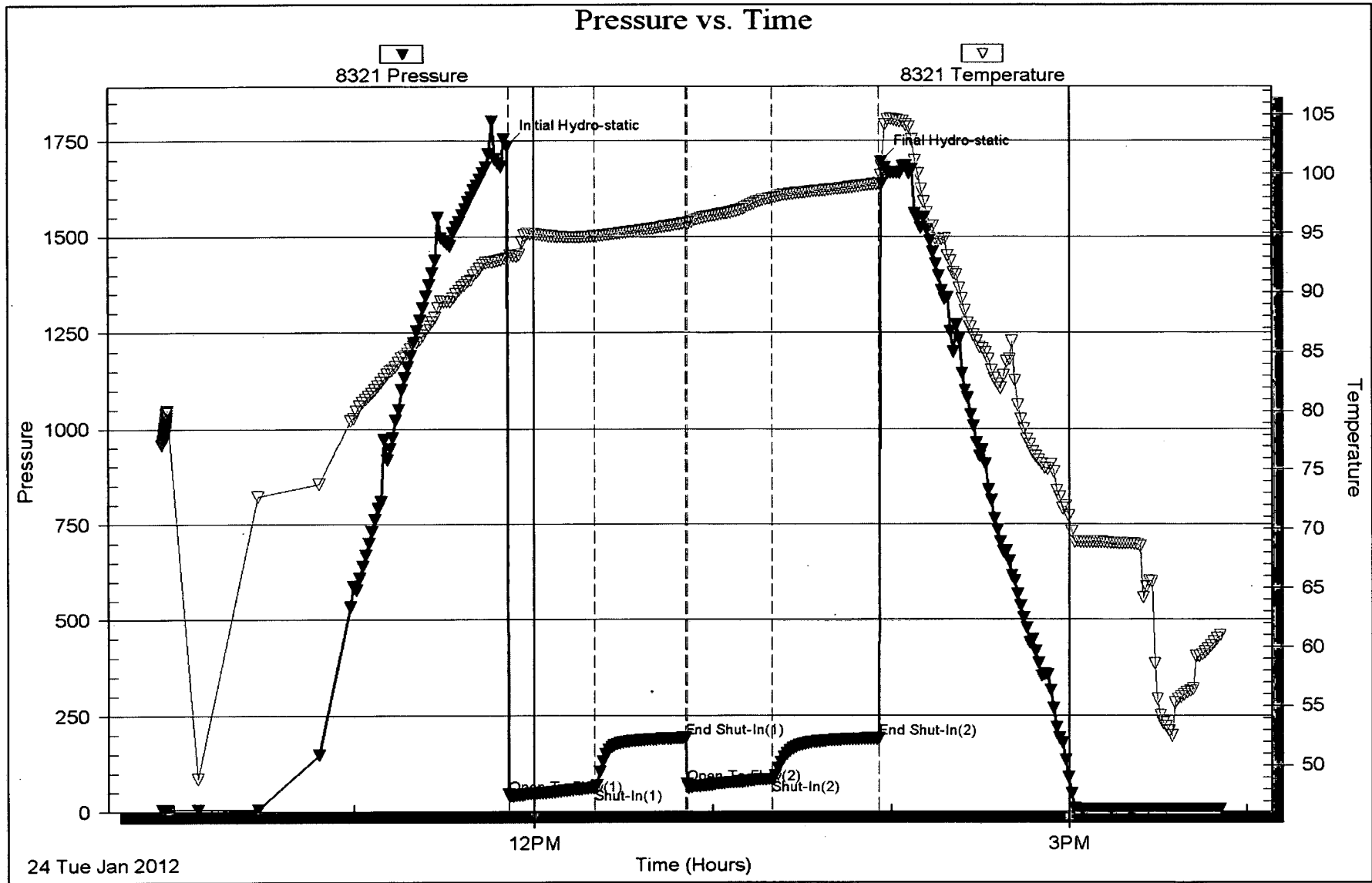
Num Gas Bombs: 0

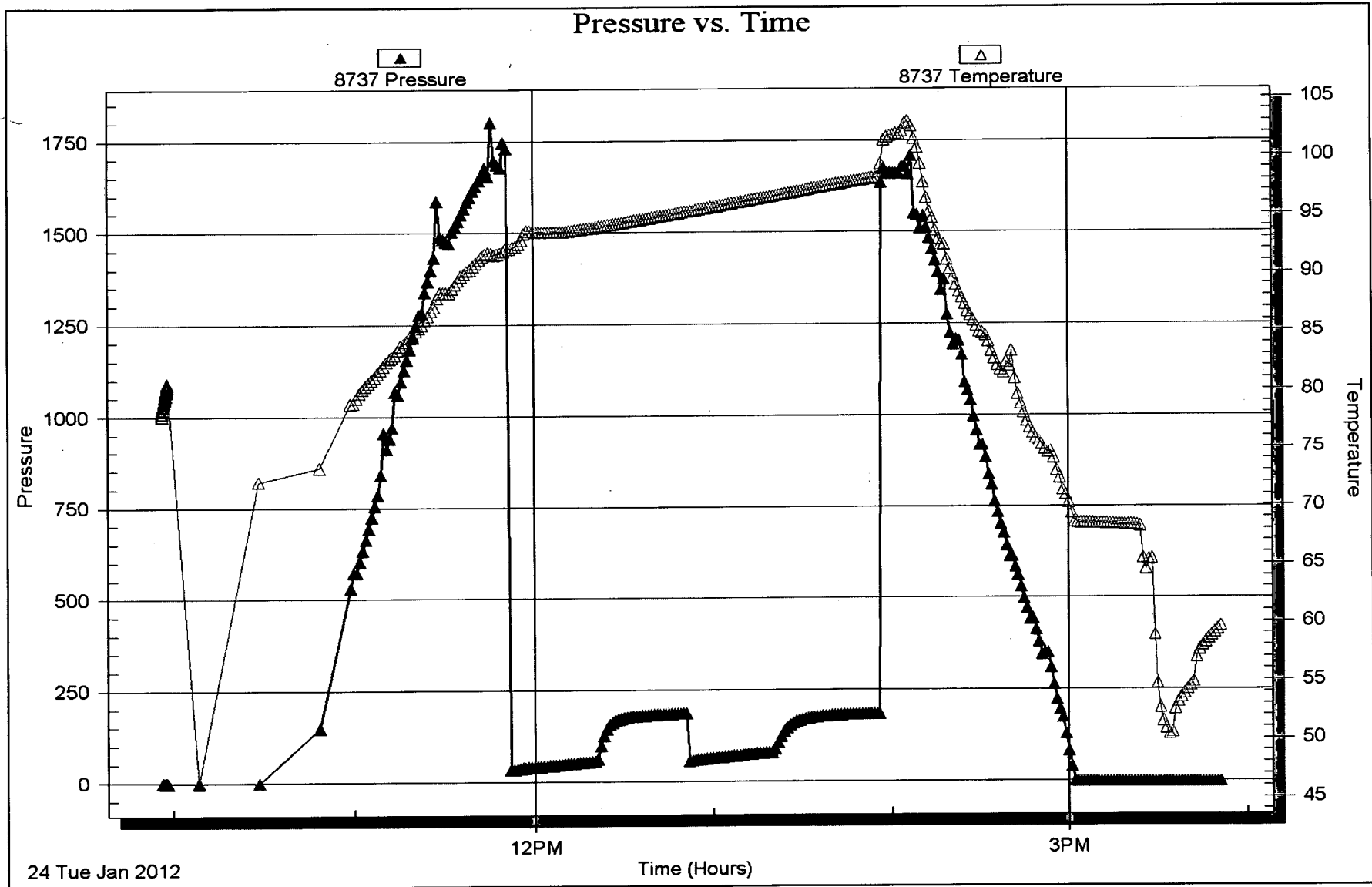
Serial #:

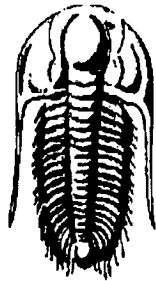
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Pfeifer #1-12

12-14s-19w Ellis,KS

Start Date: 2012.01.25 @ 05:03:14

End Date: 2012.01.25 @ 12:41:44

Job Ticket #: 46384 DST #: 2

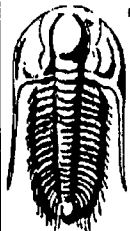
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.01 @ 11:38:14

Downing-Nelson Oil Co Inc
12-14s-19w Ellis,KS
Pfeifer #1-12
DST # 2
LKC-H & I
2012.01.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46384

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.01.25 @ 05:03:14

GENERAL INFORMATION:

Formation: **LKC- H & I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:38:14

Time Test Ended: 12:41:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 150

Interval: **3623.00 ft (KB) To 3676.00 ft (KB) (TVD)**

Total Depth: 3676.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2211.00 ft (KB)

2203.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8321**

Inside

Press@RunDepth: 42.22 psig @ 3659.00 ft (KB)

Start Date: 2012.01.25

End Date:

2012.01.25

Start Time: 05:03:15

End Time:

12:40:44

Capacity: 8000.00 psig

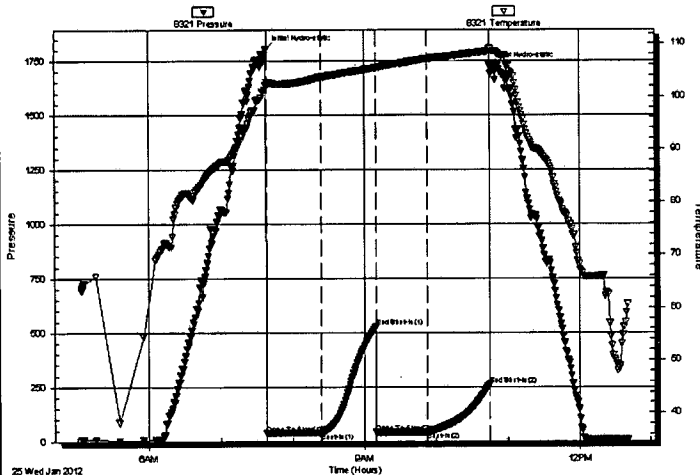
Last Calib.: 2012.01.25

Time On Btm: 2012.01.25 @ 07:37:44

Time Off Btm: 2012.01.25 @ 10:45:14

TEST COMMENT: IFP-Weak blow built to 2 in
ISI-Dead no blow back
FFP-Weak blow built to 1 in
FSI-Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1805.02	102.09	Initial Hydro-static
1	37.36	101.88	Open To Flow (1)
46	40.57	103.61	Shut-In(1)
92	525.19	105.40	End Shut-In(1)
92	41.42	105.32	Open To Flow (2)
135	42.22	107.16	Shut-In(2)
187	260.28	108.59	End Shut-In(2)
188	1725.40	109.20	Final Hydro-static

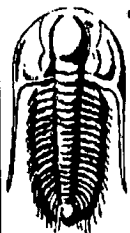
Recovery

Length (ft)	Description	Volume (bbl)
25.00	SOCM 5%O95%M	0.35

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46384

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.01.25 @ 05:03:14

GENERAL INFORMATION:

Formation: **LKC- H & I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:38:14

Time Test Ended: 12:41:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 150

Interval: **3623.00 ft (KB) To 3676.00 ft (KB) (TVD)**

Total Depth: 3676.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2211.00 ft (KB)

2203.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 3659.00 ft (KB)

Start Date: 2012.01.25

End Date:

2012.01.25

Capacity: 8000.00 psig

Last Calib.:

2012.01.25

Start Time: 05:03:15

End Time:

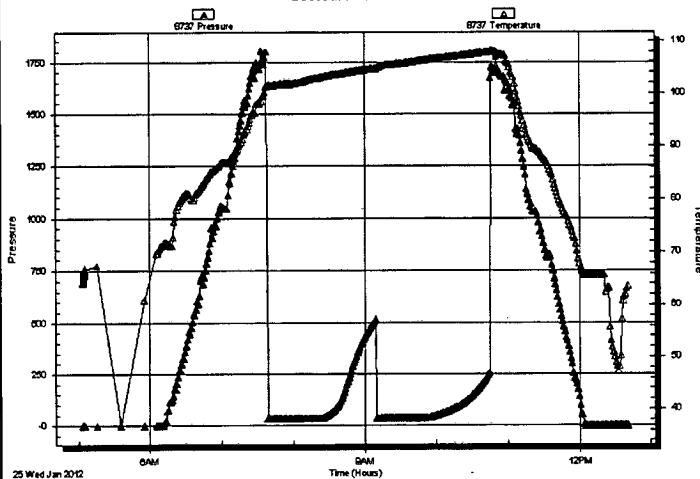
12:40:44

Time On Btm

Time Off Btm

TEST COMMENT: IFP-Weak blow built to 2 in
ISI-Dead no blow back
FFP-Weak blow built to 1 in
FSI-Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

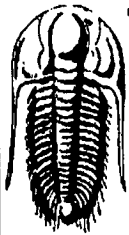
Recovery

Length (ft)	Description	Volume (bbl)
25.00	SOCM 5% O95%M	0.35

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46384

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.01.25 @ 05:03:14

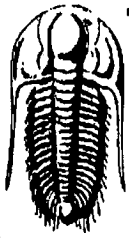
Tool Information

Drill Pipe:	Length: 3612.00 ft	Diameter: 3.80 inches	Volume: 50.67 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 50.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3623.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 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			3604.00	
Shut In Tool	5.00			3609.00	
Hydraulic tool	5.00			3614.00	
Packer	4.00			3618.00	20.00 Bottom Of Top Packer
Packer	5.00			3623.00	
Stubb	1.00			3624.00	
Perforations	2.00			3626.00	
Change Over Sub	1.00			3627.00	
Drill Pipe	31.00			3658.00	
Change Over Sub	1.00			3659.00	
Recorder	0.00	8321	Inside	3659.00	
Recorder	0.00	8737	Outside	3659.00	
Perforations	14.00			3673.00	
Bullnose	3.00			3676.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46384

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.01.25 @ 05:03:14

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 7.98 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: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	SOCM5%O95%M	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

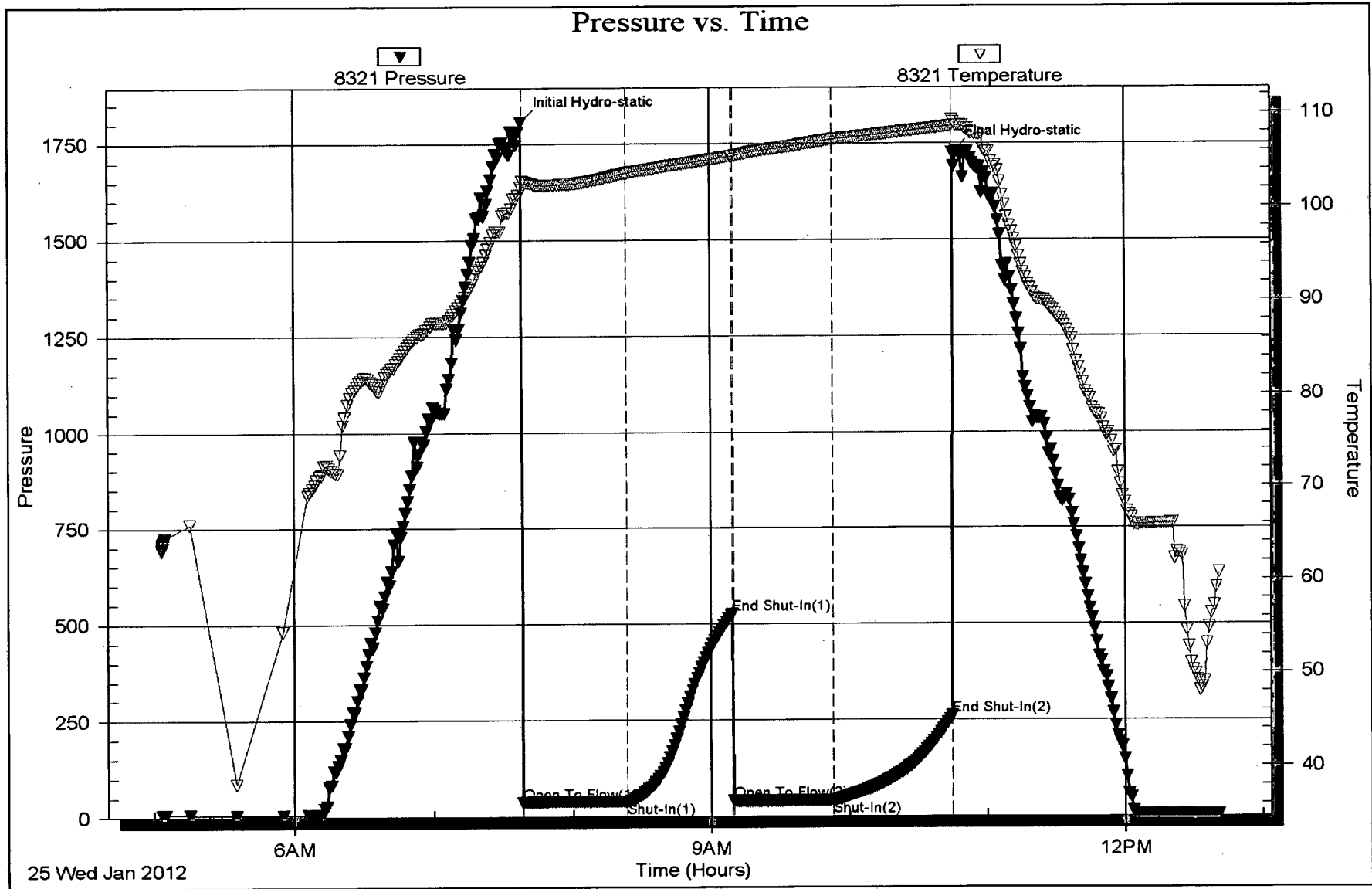
Num Gas Bombs: 0

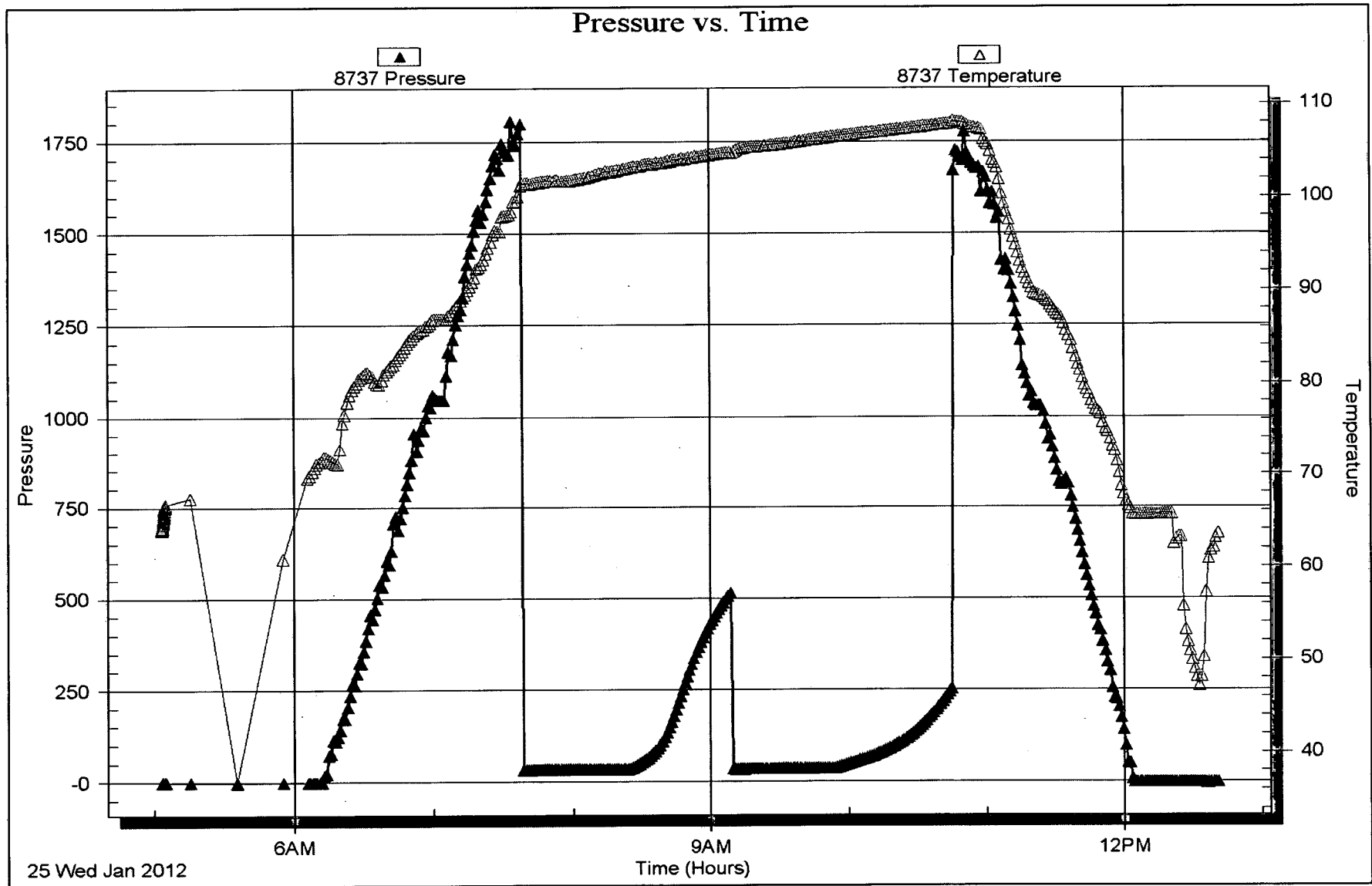
Serial #:

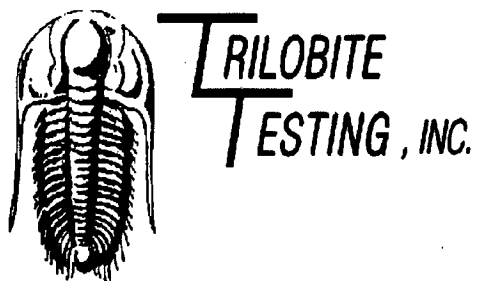
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Pfeifer #1-12

12-14s-19w Ellis,KS

Start Date: 2012.01.25 @ 18:48:01

End Date: 2012.01.26 @ 01:50:01

Job Ticket #: 46385 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.01 @ 11:36:59

Downing-Nelson Oil Co Inc
12-14s-19w Ellis,KS
Pfeifer #1-12
DST # 3
LKC-J
2012.01.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46385

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.01.25 @ 18:48:01

GENERAL INFORMATION:

Formation: **LKC-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:37:01

Time Test Ended: 01:50:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 150

Interval: **3680.00 ft (KB) To 3696.00 ft (KB) (TVD)**

Total Depth: 3696.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2211.00 ft (KB)

2203.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8321

Inside

Press@RunDepth: 24.72 psig @ 3683.00 ft (KB)

Start Date: 2012.01.25

End Date:

2012.01.26

Capacity: 8000.00 psig

Last Calib.: 2012.01.26

Start Time: 18:48:02

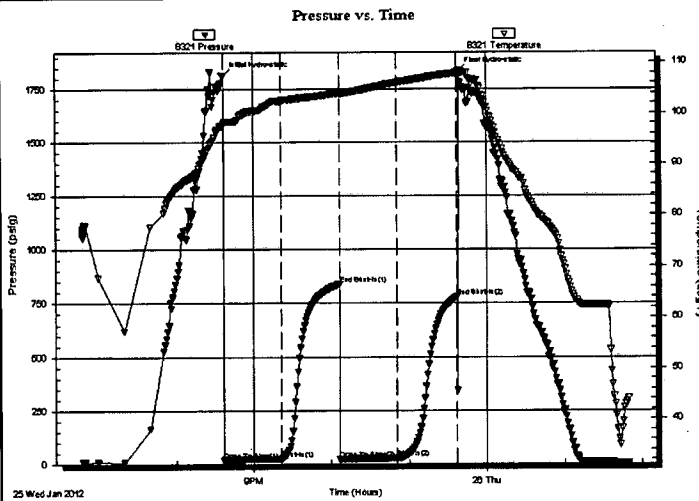
End Time:

01:50:01

Time On Btm: 2012.01.25 @ 20:36:31

Time Off Btm: 2012.01.25 @ 23:38:01

TEST COMMENT: IFP-Weak blow built to 2 3/4 in
IS-Dead no blow back
FFP-Weak blow built to 1 in
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1814.38	97.78	Initial Hydro-static
1	18.40	97.80	Open To Flow (1)
45	21.89	102.34	Shut-In(1)
90	838.65	103.92	End Shut-In(1)
91	22.29	103.76	Open To Flow (2)
135	24.72	105.94	Shut-In(2)
181	779.40	107.82	End Shut-In(2)
182	1833.10	108.08	Final Hydro-static

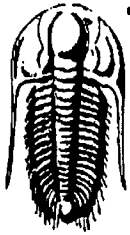
Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w with oil spots	0.28

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46385

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.01.25 @ 18:48:01

GENERAL INFORMATION:

Formation: **LKC-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:37:01

Time Test Ended: 01:50:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 150

Interval: **3680.00 ft (KB) To 3696.00 ft (KB) (TVD)**

Reference Elevations: 2211.00 ft (KB)

Total Depth: 3696.00 ft (KB) (TVD)

2203.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 3683.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.25

End Date:

2012.01.26

Last Calib.:

2012.01.26

Start Time: 18:48:01

End Time:

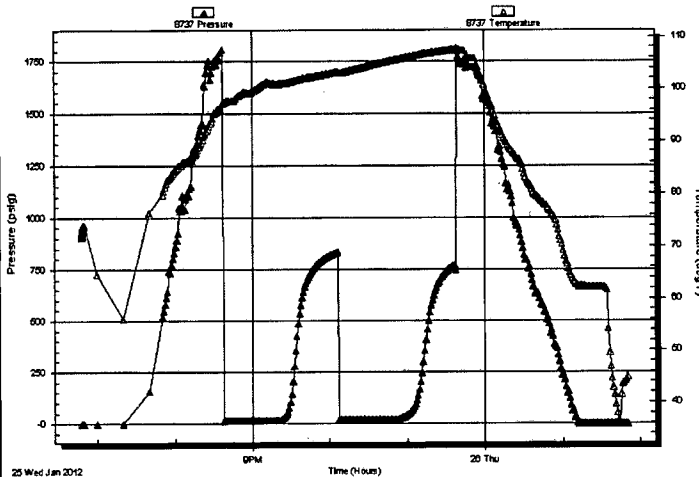
01:50:30

Time On Btm

Time Off Btm

TEST COMMENT: IFP-Weak blow built to 2 3/4 in
ISI-Dead no blow back
FFP-Weak blow built to 1 in
FSI-Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w with oil spots	0.28

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

12-14s-19w Ellis, KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46385

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.01.25 @ 18:48:01

Tool Information

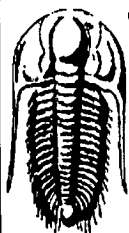
Drill Pipe:	Length: 3676.00 ft	Diameter: 3.80 inches	Volume: 51.56 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 51.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3680.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 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			3661.00	
Shut In Tool	5.00			3666.00	
Hydraulic tool	5.00			3671.00	
Packer	4.00			3675.00	20.00 Bottom Of Top Packer
Packer	5.00			3680.00	
Stubb	1.00			3681.00	
Perforations	2.00			3683.00	
Recorder	0.00	8321	Inside	3683.00	
Recorder	0.00	8737	Outside	3683.00	
Perforations	10.00			3693.00	
Bullnose	3.00			3696.00	16.00 Bottom Packers & Anchor

Total Tool Length: 36.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

12-14s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Pfeifer #1-12

Job Ticket: 46385

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.01.25 @ 18:48:01

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 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
20.00	Mud with oil spots	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

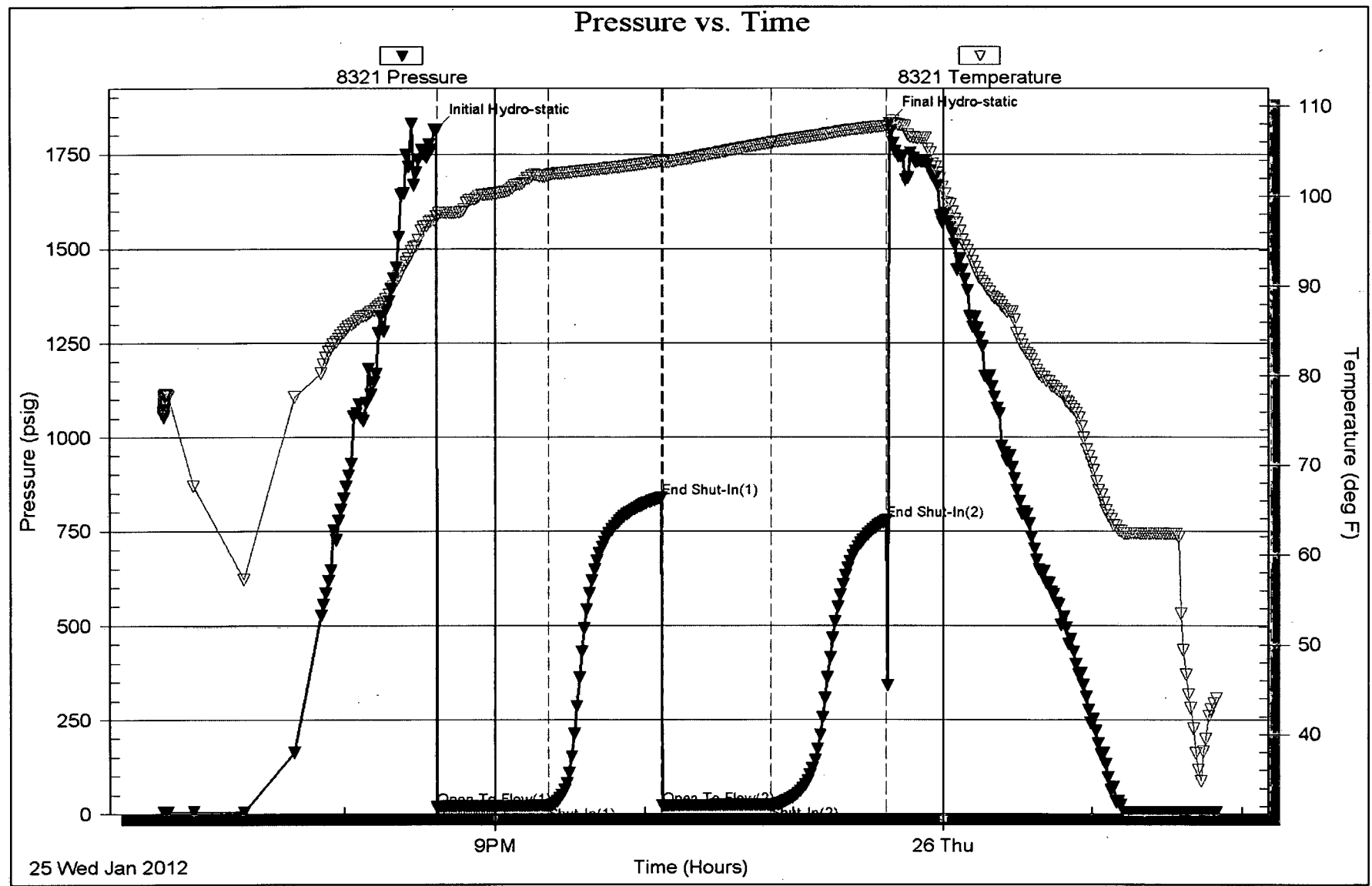
Num Gas Bombs: 0

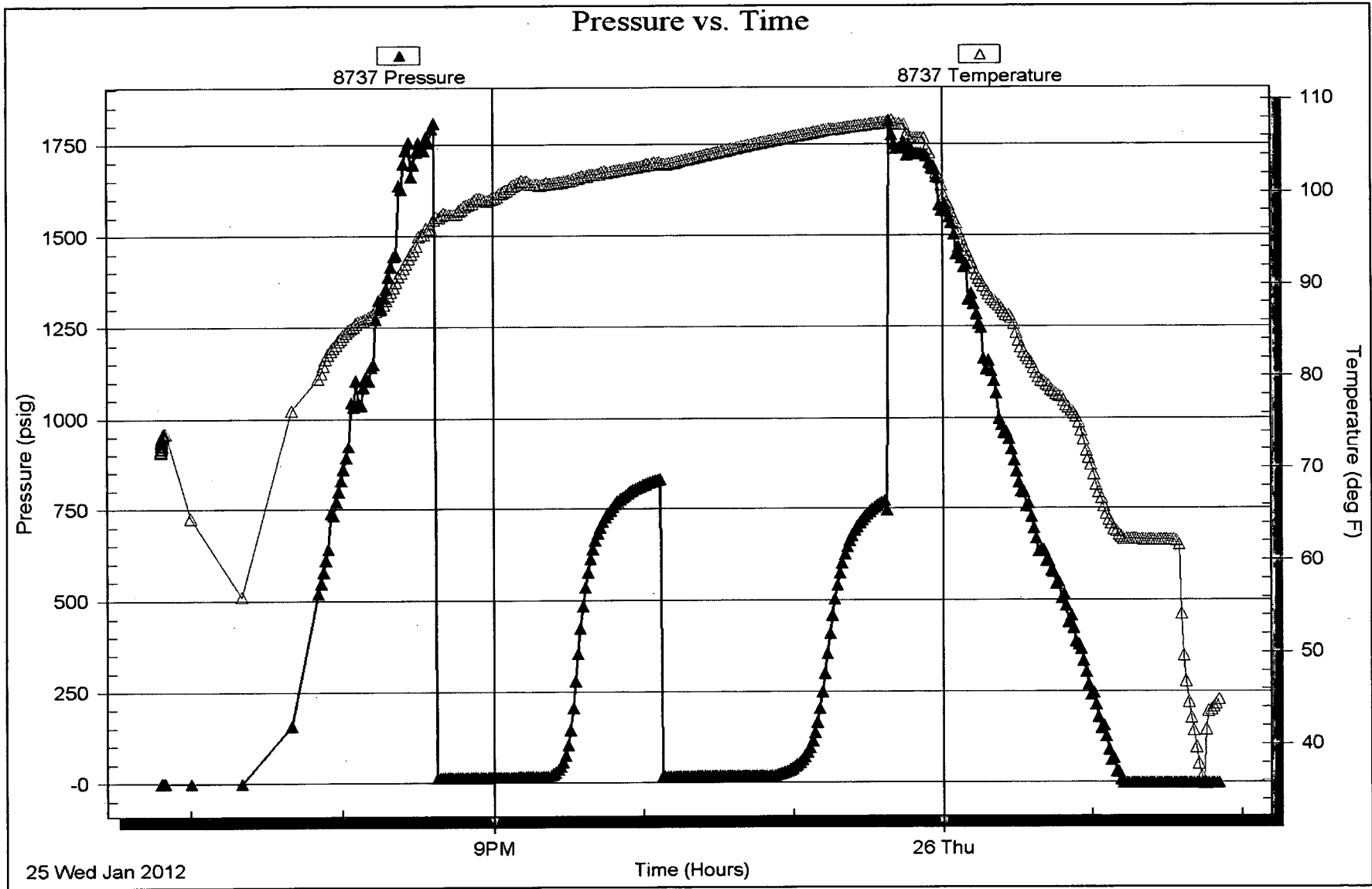
Serial #:

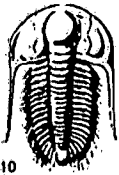
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket

JAN 30 2012

NO. 46383

4/10

BY: _____

Well Name & No. Pfeifer 1-12 Test No. 1 Date 1-24-12
 Company Downing-Nelson Oil Co INC Elevation 2211 KB 2203 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep/Geo. Marc Downing Rig Discovery #3
 Location: Sec. 12 Twp. 14 S Rge. 19 W Co. ELLIS State KS

Interval Tested 3517-3572 Zone Tested KLC-C+D
 Anchor Length 55 Drill Pipe Run 3517 Mud Wt. 8.5
 Top Packer Depth 3512 Drill Collars Run 0 Vis 2.4
 Bottom Packer Depth 3517 Wt. Pipe Run 0 WL 7.6
 Total Depth 3572 Chlorides 2000 ppm System LCM 2 1/2
 Blow Description FR-Strong Blow BOB IN 2 1/2 min
BT-Dead NO Blow Back
FR-Strong Blow BOB IN 4 min ?
FR-Weak Surface Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>31</u>	<u>Feet of GOCWM</u>	<u>35%</u>	<u>20%</u>	<u>15%</u>	<u>30%</u>
<u>94</u>	<u>Feet of GOCM</u>	<u>10%</u>	<u>20%</u>	<u>%</u>	<u>70%</u>
<u> </u>	<u>Feet of 1858-CoIP</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
<u> </u>	<u>Feet of</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
<u> </u>	<u>Feet of</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>

Rec Total 125 BHT _____ Gravity _____ API RW, 1169 @ 564 °F Chlorides 56,000 ppm

(A) Initial Hydrostatic <u>786</u> <u>1736</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>7:58</u>
(B) First Initial Flow <u>45</u>	<input type="checkbox"/> Jars _____	T-Started <u>9:56</u>
(C) First Final Flow <u>63</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>11:50</u>
(D) Initial Shut-In <u>192</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>13:50</u>
(E) Second Initial Flow <u>72</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:51</u>
(F) Second Final Flow <u>85</u>	<input checked="" type="checkbox"/> Mileage <u>12 RT 16.80</u>	Comments _____
(G) Final Shut-In <u>190</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1696</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1141.80</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1141.80</u>	

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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVE Test Ticket

JAN 30 2012

NO. 46384

BY:

Well Name & No. Pfeifer 1-12 Test No. 2 Date 1-25-12
 Company Downing-Nelson Oil Co INC Elevation 2211 KB 2203 GL
 Address Po Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 12 Twp. 14S Rge. 19W Co. ELLIS State KS

Interval Tested 32623-32673 Zone Tested LKC-H + E
 Anchor Length 53 Drill Pipe Run 32612 Mud Wt. 8.9
 Top Packer Depth 32618 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 32623 Wt. Pipe Run 0 WL 8.0
 Total Depth 32673 Chlorides 2500 ppm System LCM 2#

Blow Description FP-Weak Blow Built TO 2 IN
ISF-Dead NO Blow Back
FP-Weak Blow Built TO 1 IN
FSI-Dead NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>SOCM</u>		<u>5</u>		<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

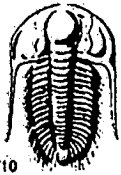
Rec Total 25 BHT 109 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1805 Test 1125 T-On Location 4:09
 (B) First Initial Flow 37 Jars _____ T-Started 5:03
 (C) First Final Flow 41 Safety Joint _____ T-Open 7:38
 (D) Initial Shut-In 525 Circ Sub _____ T-Pulled 10:38
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 12:41
 (F) Second Final Flow 42 Mileage 12 RT 110.80 Comments _____
 (G) Final Shut-In 260 Sampler _____
 (H) Final Hydrostatic 1725 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 45 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1141.80
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 1141.80

Approved By _____ Our Representative Jeff Brown

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 30 2012

Test Ticket

NO. 46385

Well Name & No. Peifer 1-12 Test No. 3 Date 1-25-12
 Company Downing-Nelson Oil Co INC Elevation 2211 KB 2203 GL
 Address Po Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 12 Twp. 14S Rge. 19W Co. ELLs State KS

Interval Tested 3680-3694 Zone Tested LAC-J
 Anchor Length 16 Drill Pipe Run 3676 Mud Wt. 8.9
 Top Packer Depth 3675 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 3680 Wt. Pipe Run 0 WL 8.0
 Total Depth 3694 Chlorides 3000 ppm System LCM 1 1/2
 Blow Description PP-Weak Blow Built TO 2 3/4
RS-Dead No Back
PP-Weak Blow Built TO 1 IN
FS-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud with a scum of oil</u>				

Rec Total 20 BHT 108 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1814 Test 1125- T-On Location 18:06
 (B) First Initial Flow 18 Jars _____ T-Started 18:48
 (C) First Final Flow 22 Safety Joint _____ T-Open 20:36
 (D) Initial Shut-In 839 Circ Sub _____ T-Pulled 23:36
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 1:50
 (F) Second Final Flow 25 Mileage 12 RT 16.80 Comments _____
 (G) Final Shut-In 779 Sampler _____
 (H) Final Hydrostatic 1833 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1141.80
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1141.80

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