

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 30717
Name: DOWNING NELSON OIL CO., INC.
Address: P.O. Box 372
City/State/Zip: Hays, KS 67601
Purchaser: Coop Refining
Operator Contact Person: Ronald Nelson
Phone: (785) 628-3449
Contractor: Name: Discovery Drilling Co., Inc.
License: 31548
Wellsite Geologist: Ronald Nelson

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

12/1/01 12/9/01 12/10/01
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 193-20,681-0000
County: Thomas
180' S NW NW SW Sec. 14 Twp. 10 S. R. 31W East West
2130 feet from (S) N (circle one) Line of Section
330 feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: R.J. Shea Well #: 1-14
Field Name: Wildcat
Producing Formation: LKC
Elevation: Ground: 2979 Kelly Bushing: 2987
Total Depth: 4660 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 212.01 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2512 Feet
If Alternate II completion, cement circulated from 2512
feet depth to surface w/ 260 ex cmt.

Drilling Fluid Management Plan *see # 6/6/02*
(Data must be collected from the Reserve Pit)
Chloride content 1,000 ppm Fluid volume 320 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-11 form with all temporarily abandoned wells.

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.

Signature: Ron Nelson
Title: President Date: 3-29-02

Subscribed and sworn to before me this 30 day of March

19 2002
Notary Public: _____
Date Commission Expires: _____

NOTARY PUBLIC - State of Kansas
GERALYN A. WERTH
My Appt. Exp. 11-23-2002

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KCC Office Use ONLY
 Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: DOWNING-NELSON CO., INC. Lease Name: R.J. She Well #: 1-14
 Sec. 14 Twp. 10 S. R. 31W East West County: Thomas

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	2551	+436
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3772	-785
List All E. Logs Run: <u>Electra Log Inc.</u>		Heebner	3990	-1003
<u>Comp. Dens.--Neut.--Dual Ind.</u>		LKC	4032	-1045
<u>Sonic-Bond Log</u>		BKC	4331	-1344
		Pawnee	4422	-1435
		Ft. Scott	4493	-1506
		Cherokee Shale	4522	-1535
		Mississippi	4612	-1625

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 1/4	8 5/8	20	212.01	Common	150	2%Gel&3%CC
Production St.	7 7/8	4 1/2	10.5	4646.54	SMDC	150	
			Port Collar @ 2512'		SMDC	260	1/4# FC

ADDITIONAL CEMENTING / SQUEEZE RECORD per sack				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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	4290-4294	250g15% <i>m.a.</i> & 3000g20%NE	4290-94
4	4421-4425	250g15% <i>m.a.</i> & 3000g15%NE	4421-25
4	4564-4574	500g15% <i>m.a.</i> & 3000g15%NE	4564-74

TUBING RECORD		Size <u>2 3/8</u>	Set At <u>4586</u>	Packer At <u>none</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>1-3-02</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>35</u>	Gas Mcf <u>0</u>	Water Bbls. <u>13</u>	Gas-Oil Ratio	Gravity <u>38</u>

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

Production Interval Other (Specify)

ALLIED CEMENTING CO., INC. 4863

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

ORIGINAL
SERVICE POINT:
CABLE KS

DATE 2-1-01	SEC. 14	TWP. 10S	RANGE 31W	CALLED OUT 3:00pm	ON LOCATION 6:30pm	JOB START 8:15pm	JOB FINISH 8:45pm
LEASE R3 Shea	WELL# 1-14	LOCATION Campus 4 1/2 W			COUNTY Thomas	STATE KS	
OLD OR NEW (Circle one)			1 W - 1 1/2 W into				

CONTRACTOR Discovery Digs #1

TYPE OF JOB Surface ✓

HOLE SIZE 12 1/4 T.D. 212'

CASING SIZE 8 5/8 20' DEPTH 212'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 12 BBLs

OWNER _____

CEMENT AMOUNT ORDERED 150 com 39cc

290 gal

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COMMON	150 sha	@	7 ⁹⁵	1177 ⁵⁰
POZMIX		@		
GEL	3 sha	@	10 ⁰⁰	30 ⁰⁰
CHLORIDE	5 sha	@	30 ⁰⁰	150 ⁰⁰
		@		
		@		
		@		
		@		
		@		
HANDLING	150 sha	@	1 ¹⁰	173 ⁰⁰
MILEAGE	minimum			100 ⁰⁰

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzy

191 HELPER Andrew

BULK TRUCK

315 DRIVER Jarrod

BULK TRUCK

_____ DRIVER _____

TOTAL 1631³⁰

REMARKS:

Cement 8 5/8 casing to within 15' of bottom with 150 gal common 39cc 290 gal

Cement did circulate ✓

Plug down @ 8:45 pm

Thanks

Fuzzy

SERVICE

DEPTH OF JOB	212'		
PUMP TRUCK CHARGE			520 ⁰⁰
EXTRA FOOTAGE		@	
MILEAGE 15 @ 300		@	45 ⁰⁰
PLUG 8 5/8		@	45 ⁰⁰
		@	
		@	

TOTAL 610⁰⁰

CHARGE TO: Downing Nelson Oil Co. Inc

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE ~~610~~ 640³⁰

DISCOUNT ~~30~~ 13 IF PAID IN 30 DAYS

SIGNATURE Carl F. Gott

Carl F. Gott
PRINTED NAME

SWIFT Services, Inc. ORIGINAL

WELL NO. 1-14 LEASE SHEA JOB TYPE 4 1/2" LOGGING TICKET NO. 4039

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							ON LOCATION
	1445							START 4 1/2" CASING IN WELL
								TD - 4660 SETE 4647
								TP - 4647 4 1/2 #/FT 10.5
								SS - 14.20
								CENTRALIZERS - 1, 3, 5, 7, 9, 12, 50
								BASKETS - 2, 51
								PORT COLLAR @ 2512 TOP JT # 51
	1640							DROP BALL - CIRCULATE
	1710	6	12		✓		350	PUMP MUD FLUSH
		6	20		✓		350	PUMP KCL - FLUSH
	1718							PLUG RH - MH
	1725	5 1/2	53.6		✓		300	MIX CEMENT (150 SLS SMDC ¹ W/ADDITIONALS)
								WASH OUT PUMP - 120LS
								RELEASE TOP PLUG
	1744	7	0		✓		0	DISPLACE PLUG
		7	70		✓		800	
	1755		73.7				1300	PLUG DOWN - RELEASE HEAD
								PACK UP
	1830							JOB COMPLETE
								THANK YOU
								WAYNE, DUSTY JAY

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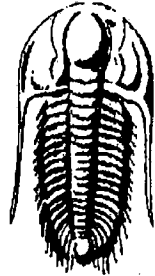
SWIFT Services, Inc. ORIGINAL

WELL NO. 1-14 LEASE R.J. SHEA JOB TYPE CEMENT PORT COLUMNS TICKET NO. 4045

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0745							ON LOCATION
								PORT COLUMN 2506' 2 3/8 x 4 1/2 RBP = 3680
								SAID SPOTTED - RBP TESTED 12-21-01
	0930							START TUBING WELL
	1110	3	20	✓		600		CIRCULATE OUT OF WELL
	1130			✓	✓	1000	1000	END PORT COLUMN - PRETEST - HOLD
	1135	3	4	✓		350		CLOSE PORT COLUMN - LIFT RATE
	1140	4	0	✓		600		MIX CEMENT
	1210		144	✓				CEMENT AT SURFACE (260 SKS)
	1210	3	0	✓		600		START DISPLACEMENT
	1213		9	✓		350		CEMENT DISPLACED - SHUT DOWN
								CIRCULATED 15 SKS CEMENT TO PRT <i>W/L</i>
	1215			✓		1000		CLOSE PORT COLUMN - TEST - HOLD
		3	20		✓		400	RUN TO SETS - CIRCULATE CLEAR
	1330	3	30		✓		400	RUN BELOW TUBING CIRCULATE SAID OFF RBP = 3680'
								SWAB WELL DOWN BEFORE PULLING TOOLS
	1430							JOB COMPLETE

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THANK YOU
WAZE, BUSTE, SHAW



TRILOBITE
TESTING, INC.

ORIGINAL

DRILL STEM TEST REPORT

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

PO Box 372
Hays, KS 67601

ATTN: Ron Nelson

14-10s-31w Thomas Ks

R.J.Shea #1-14

Start Date: 2001.12.06 @ 03:07:56

End Date: 2001.12.06 @ 08:39:55

Job Ticket #: 15661 DST #: 1

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing- Nelson Oil Co.,Inc.

R.J.Shea #1-14

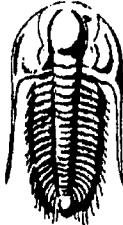
14-10s-31w Thomas Ks

DST # 1

LKC "E"

2001.12.06

ORIGINAL

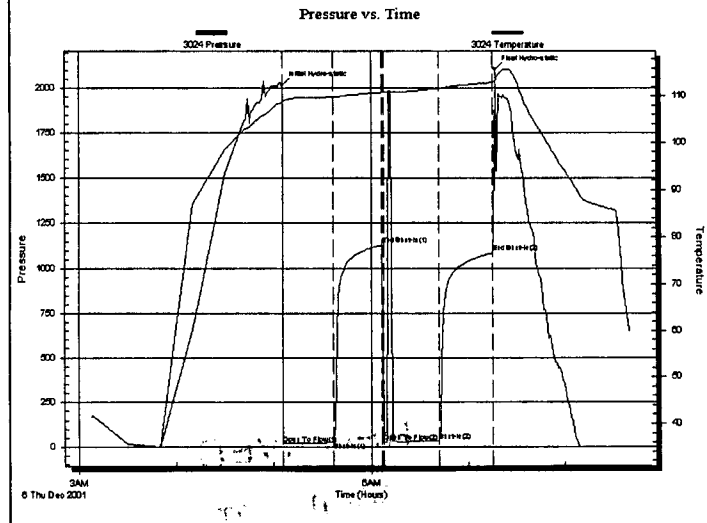
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Downing- Nelson Oil Co., Inc.	R.J.Shea #1-14
	PO Box 372 Hays, KS 67601	14-10s-31w Thomas Ks
ATTN: Ron Nelson	Job Ticket: 15661	DST#: 1
	Test Start: 2001.12.06 @ 03:07:56	

GENERAL INFORMATION:

Formation: LKC "E"	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	Tester: Ray Schwager
Time Tool Opened: 05:05:55	Unit No: 16
Time Test Ended: 08:39:55	Reference Elevations: 2987.00 ft (KB)
Interval: 4096.00 ft (KB) To 4120.00 ft (KB) (TVD)	2979.00 ft (CF)
Total Depth: 4120.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.85 inches Hole Condition: Fair	

Serial #: 3024	Inside				
Press@RunDepth: 33.61 psig @ 4097.01 ft (KB)	Capacity: 7000.00 psig				
Start Date: 2001.12.06	End Date: 2001.12.06	Last Calib.: 2001.12.06			
Start Time: 03:07:56	End Time: 08:39:55	Time On Btm: 2001.12.06 @ 05:05:25			
		Time Off Btm: 2001.12.06 @ 07:16:55			

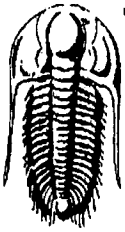
TEST COMMENT: IFP-weak blow throughout 1"to surface blow
 FFP-no blow Flushed tool
 times 30-30-30-30



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2016.97	108.70	Initial Hydro-static
1	19.31	108.83	Open To Flow (1)
32	25.74	109.83	Shut-In(1)
61	1129.82	110.81	End Shut-In(1)
63	27.44	110.86	Open To Flow (2)
97	33.61	111.66	Shut-In(2)
130	1086.12	112.94	End Shut-In(2)
132	2105.97	113.24	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
45.00	mud	0.63

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing- Nelson Oil Co., Inc.

R.J. Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

Job Ticket: 15661

DST#: 1

ATTN: Ron Nelson

Test Start: 2001.12.06 @ 03:07:56

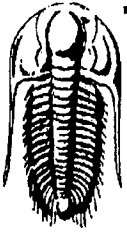
Tool Information

Drill Pipe: Length: 4097.00 ft	Diameter: 3.80 inches	Volume: 57.47 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
	Total Volume: 57.47 bbl		Tool Chased 4.00 ft
Drill Pipe Above KB: 22.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer: 4096.00 ft			Final 44000.00 lb
Depth to Bottom Packer: ft			
Interval between Packers: 24.02 ft			
Tool Length: 45.02 ft			
Number of Packers: 2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4076.00	
S.I. Tool	5.00			4081.00	
HMV	5.00			4086.00	
Packer	5.00			4091.00	21.00 Bottom Of Top Packer
Packer	5.00			4096.00	
Stubb	1.00			4097.00	
Recorder	0.01	3024	Inside	4097.01	
Perforations	20.00			4117.01	
Recorder	0.01	11085	Outside	4117.02	
Bullnose	3.00			4120.02	24.02 Bottom Packers & Anchor
Total Tool Length:	45.02				

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing- Nelson Oil Co., Inc.

R.J.Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

Job Ticket: 15661

DST#: 1

ATTN: Ron Nelson

Test Start: 2001.12.06 @ 03:07:56

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.92 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

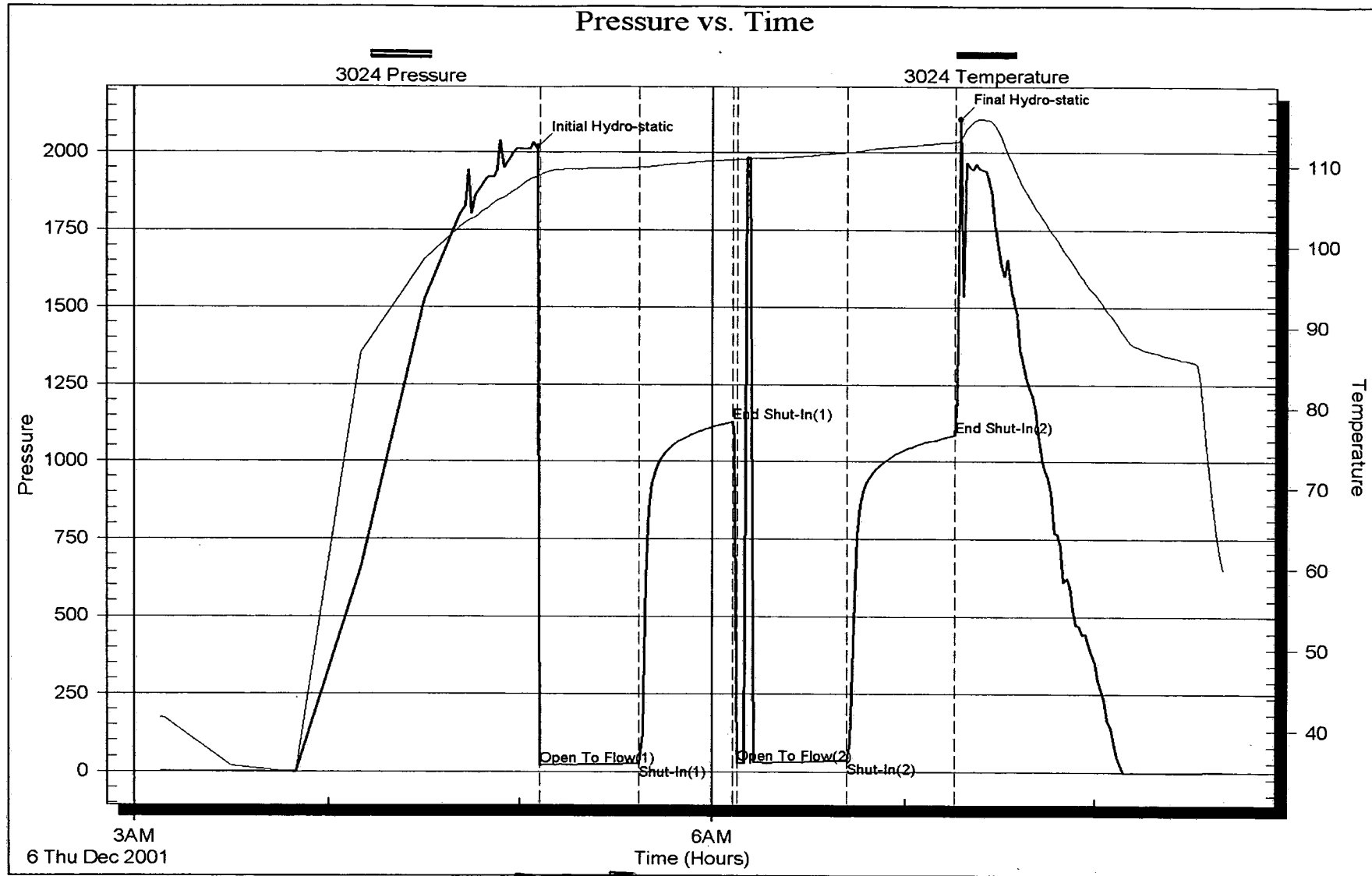
Length ft	Description	Volume bbl
45.00	mud	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

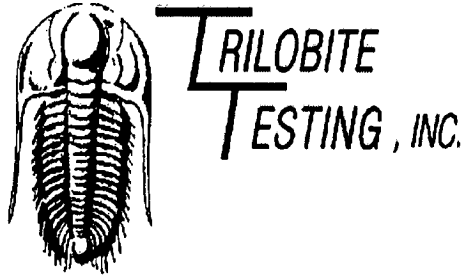
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

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

PO Box 372
Hays, KS 67601

ATTN: Ron Nelson

14-10s-31w Thomas Ks

R.J.Shea #1-14

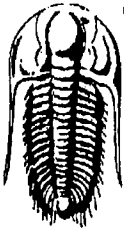
Start Date: 2001.12.07 @ 03:17:03

End Date: 2001.12.07 @ 08:40:02

Job Ticket #: 15662 DST #: 2

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning- Nelson Oil Co., Inc.

R.J.Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

Job Ticket: 15662

DST#: 2

ATTN: Ron Nelson

Test Start: 2001.12.07 @ 03:17:03

GENERAL INFORMATION:

Formation: **LKC I,J,K**

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

Time Tool Opened: 05:17:02

Time Test Ended: 08:40:02

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **16**

Interval: **4191.00 ft (KB) To 4280.00 ft (KB) (TVD)**

Reference Elevations: **2987.00 ft (KB)**

Total Depth: **4280.00 ft (KB) (TVD)**

2979.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

KB to GR/CF: 8.00 ft

Serial #: 3024

Inside

Press@RunDepth: **33.29 psig @ 4193.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2001.12.07**

End Date: **2001.12.07**

Last Calib.: **2001.12.07**

Start Time: **03:17:03**

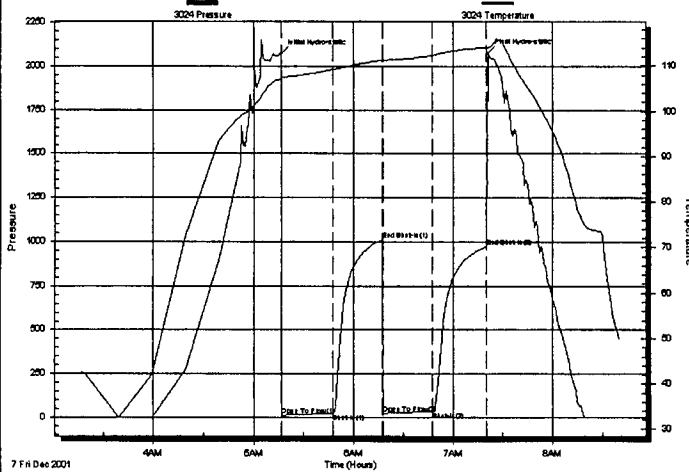
End Time: **08:40:02**

Time On Btm: **2001.12.07 @ 05:16:32**

Time Off Btm: **2001.12.07 @ 07:21:02**

TEST COMMENT: IFP-weak blow throughout 1/4"blow
FFP- no blow flushed tool
times 30-30-30-30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2071.96	107.12	Initial Hydro-static
1	13.14	107.27	Open To Flow (1)
31	23.16	109.13	Shut-In(1)
61	1011.68	111.15	End Shut-In(1)
62	24.06	111.24	Open To Flow (2)
91	33.29	112.26	Shut-In(2)
124	971.35	114.00	End Shut-In(2)
125	2076.19	114.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud w/show of oil	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing- Nelson Oil Co., Inc.

R.J. Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

Job Ticket: 15662

DST#: 2

ATTN: Ron Nelson

Test Start: 2001.12.07 @ 03:17:03

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:

bbbl

Water Loss: 8.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud w/show of oil	0.561

Total Length: 40.00 ft

Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

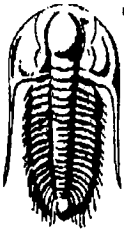
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

2112.07
15662
R.J. Shea #1-14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing- Nelson Oil Co., Inc.

R.J. Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

Job Ticket: 15662

DST#: 2

ATTN: Ron Nelson

Test Start: 2001.12.07 @ 03:17:03

Tool Information

Drill Pipe:	Length: 4188.00 ft	Diameter: 3.80 inches	Volume: 58.75 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4191.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.02 ft			
Tool Length:	110.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

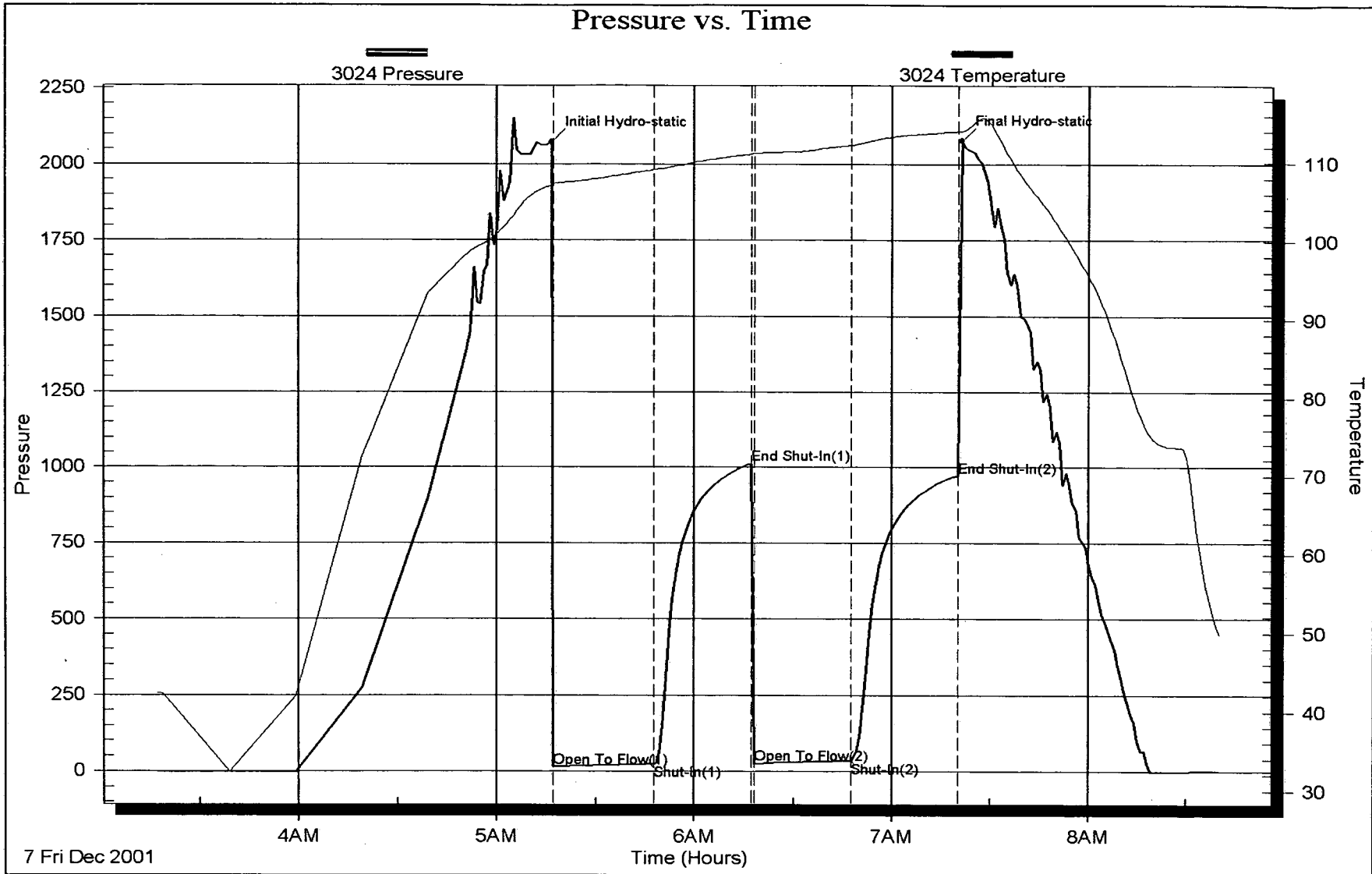
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4171.00	
S.I. Tool	5.00			4176.00	
HMV	5.00			4181.00	
Packer	5.00			4186.00	21.00 Bottom Of Top Packer
Packer	5.00			4191.00	
Stubb	1.00			4192.00	
Perforations	1.00			4193.00	
Recorder	0.01	3024	Inside	4193.01	
C.O. Sub	1.00			4194.01	
Blank Spacing	62.00			4256.01	
C.O. Sub	1.00			4257.01	
Perforations	20.00			4277.01	
Recorder	0.01	11085	Outside	4277.02	
Bullnose	3.00			4280.02	89.02 Bottom Packers & Anchor

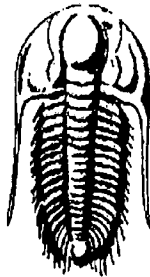
Total Tool Length: 110.02

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7 Fri Dec 2001

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 372
Hays, KS 67601

ATTN: Ron Nelson

14-10s-31w Thomas Ks

R.J.Shea #1-14

Start Date: 2001.12.07 @ 19:18:11

End Date: 2001.12.08 @ 02:25:40

Job Ticket #: 15663 DST #: 3

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning- Nelson Oil Co., Inc.

R.J.Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

ATTN: Ron Nelson

Job Ticket: 15663

DST#: 3

Test Start: 2001.12.07 @ 19:18:11

GENERAL INFORMATION:

Formation: **LKC "L"& Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:13:40

Time Test Ended: 02:25:40

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **4277.00 ft (KB) To 4351.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4351.00 ft (KB) (TVD)

2979.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 3024 Outside

Press@RunDepth: 85.48 psig @ 4286.02 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.12.07 End Date: 2001.12.08

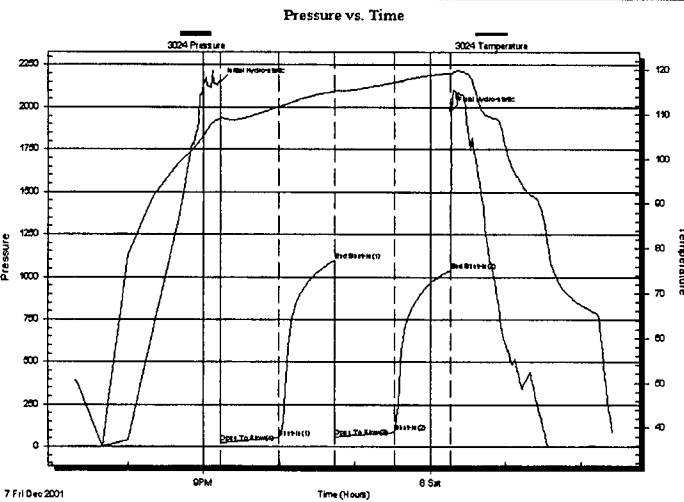
Last Calib.: 2001.12.08

Start Time: 19:18:11 End Time: 02:25:40

Time On Btm: 2001.12.07 @ 21:13:10

Time Off Btm: 2001.12.08 @ 00:16:40

TEST COMMENT: IFP-weak to strong in 12 min
FFP-weak to strong in 12 min
times 45-45-45 had blow back on shut-in



PRESSURE SUMMARY

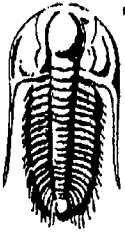
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.79	108.90	Initial Hydro-static
1	22.15	109.00	Open To Flow (1)
46	52.26	111.57	Shut-In(1)
91	1096.92	115.05	End Shut-In(1)
91	57.88	115.10	Open To Flow (2)
138	85.48	117.07	Shut-In(2)
183	1040.30	119.22	End Shut-In(2)
184	1982.28	119.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
800.00	GIP	11.22
60.00	MGO 5%gas 50 %oil 45%mud	0.84
120.00	GMO 45%gas 35%oil 20%mud	1.68

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.

R.J. Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

Job Ticket: 15663

DST#: 3

ATTN: Ron Nelson

Test Start: 2001.12.07 @ 19:18:11

Tool Information

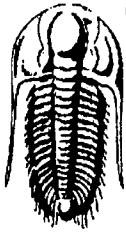
Drill Pipe:	Length: 4281.00 ft	Diameter: 3.80 inches	Volume: 60.05 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4277.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.02 ft			
Tool Length:	95.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4257.00	
S.I. Tool	5.00			4262.00	
HMV	5.00			4267.00	
Packer	5.00			4272.00	21.00 Bottom Of Top Packer
Packer	5.00			4277.00	
Stubb	1.00			4278.00	
Perforations	4.00			4282.00	
Recorder	0.01	11085	Outside	4282.01	
Perforations	3.00			4285.01	
Combination Sub	1.00			4286.01	
Recorder	0.01	3024	Outside	4286.02	
Blank Spacing	61.00			4347.02	
C.O. Sub	1.00			4348.02	
Bullnose	3.00			4351.02	74.02 Bottom Packers & Anchor

Total Tool Length: 95.02

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing- Nelson Oil Co., Inc.

R.J.Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

Job Ticket: 15663

DST#: 3

ATTN: Ron Nelson

Test Start: 2001.12.07 @ 19:18:11

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.74 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
800.00	GIP	11.222
60.00	MGO 5%gas 50 %oil 45%mud	0.842
120.00	GMO 45%gas 35%oil 20%mud	1.683

Total Length: 980.00 ft Total Volume: 13.747 bbl

Num Fluid Samples: 0

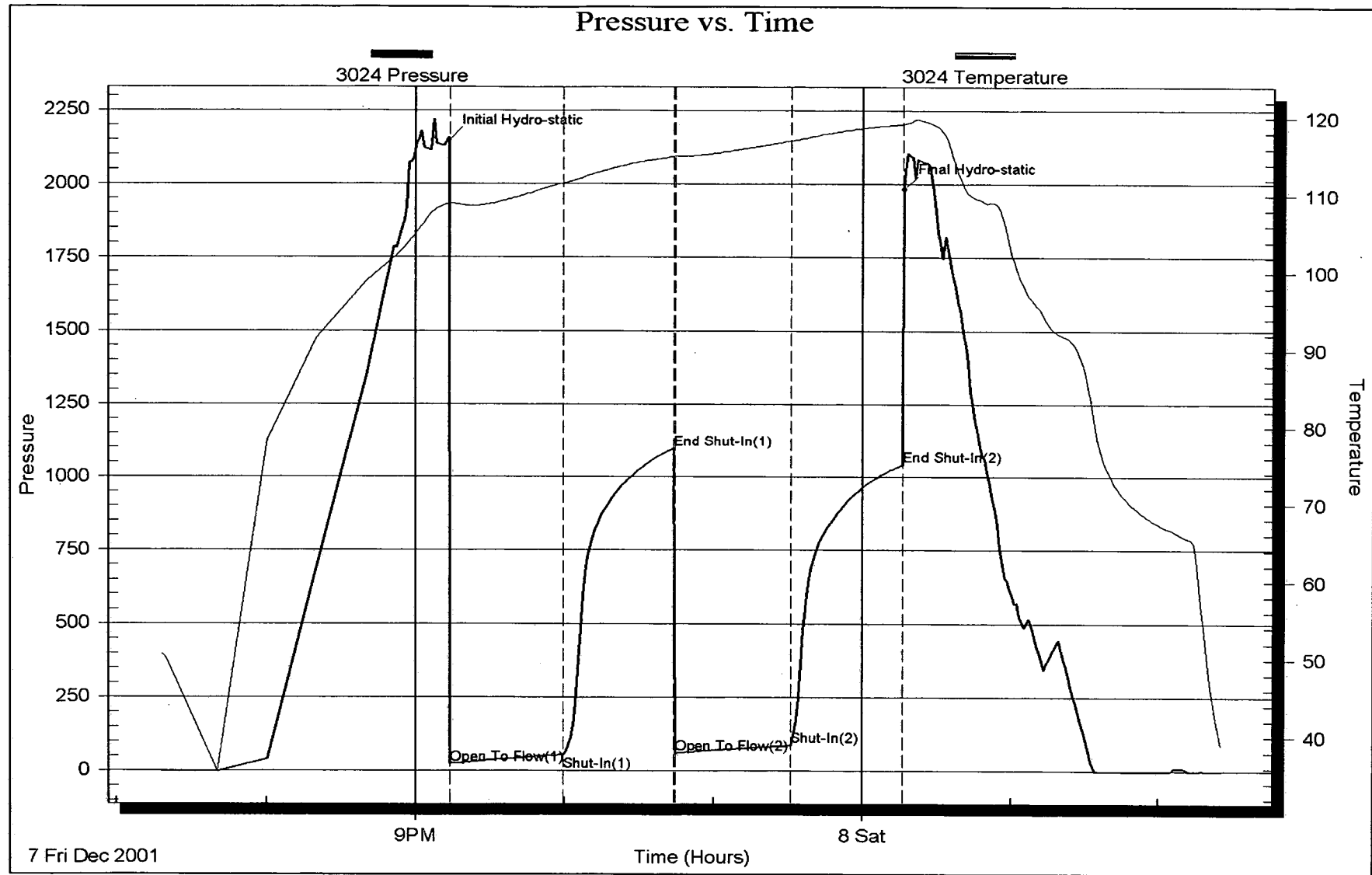
Num Gas Bombs: 0

Serial #:

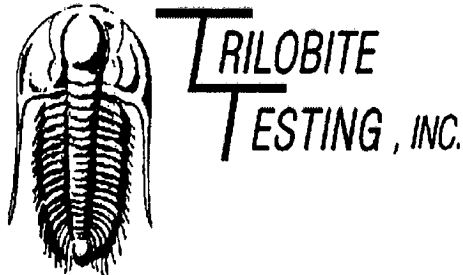
Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

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

PO Box 372
Hays, KS 67601

ATTN: Ron Nelson

14-10s-31w Thomas Ks

R.J.Shea #1-14

Start Date: 2001.12.08 @ 14:33:00

End Date: 2001.12.08 @ 20:41:29

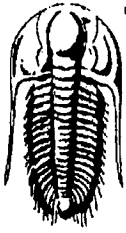
Job Ticket #: 15664 DST #: 4

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing- Nelson Oil Co., Inc.

R.J.Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

ATTN: Ron Nelson

Job Ticket: 15664

DST#: 4

Test Start: 2001.12.08 @ 14:33:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:19:59

Time Test Ended: 20:41:29

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **4402.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4460.00 ft (KB) (TVD)

2979.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 3024

Inside

Press@RunDepth: 32.03 psig @ 4405.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.12.08

End Date: 2001.12.08

Last Calib.: 2001.12.08

Start Time: 14:33:00

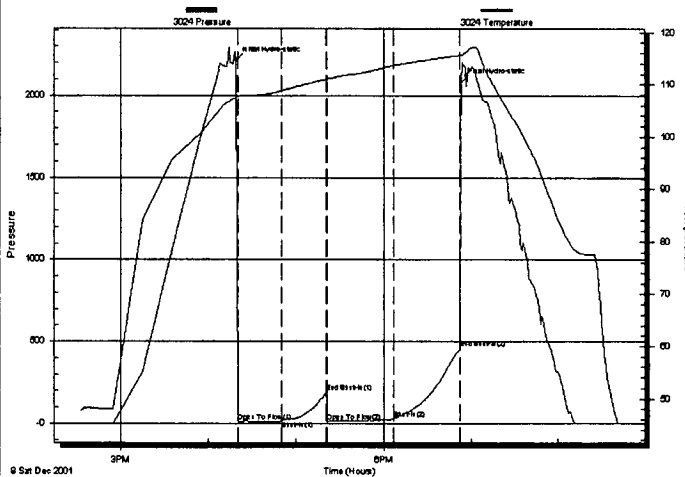
End Time: 20:41:29

Time On Btm: 2001.12.08 @ 16:18:59

Time Off Btm: 2001.12.08 @ 18:53:29

TEST COMMENT: IFP-weak blow throughout 1/4" blow
FFP-weak blow throughout 2" to 1/4"
times 30-30-45-45

Pressure vs. Time



PRESSURE SUMMARY

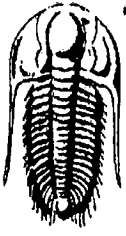
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.13	107.45	Initial Hydro-static
1	13.54	107.68	Open To Flow (1)
31	15.97	108.74	Shut-In(1)
62	191.30	110.98	End Shut-In(1)
63	14.20	111.05	Open To Flow (2)
108	32.03	113.63	Shut-In(2)
154	461.55	115.60	End Shut-In(2)
155	2084.06	115.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	GIP	2.10
30.00	OCM 2%gas 10%oil 88%mud	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing- Nelson Oil Co., Inc.

R.J. Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

Job Ticket: 15664

DST#: 4

ATTN: Ron Nelson

Test Start: 2001.12.08 @ 14:33:00

Tool Information

Drill Pipe:	Length: 4405.00 ft	Diameter: 3.80 inches	Volume: 61.79 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4402.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.02 ft			
Tool Length:	79.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

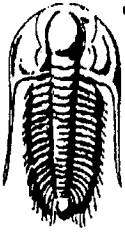
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4382.00	
S.I. Tool	5.00			4387.00	
HMV	5.00			4392.00	
Packer	5.00			4397.00	21.00 Bottom Of Top Packer
Packer	5.00			4402.00	
Stubb	1.00			4403.00	
Perforations	2.00			4405.00	
Recorder	0.01	3024	Inside	4405.01	
C.O. Sub	1.00			4406.01	
Blank Spacing	30.00			4436.01	
C.O. Sub	1.00			4437.01	
Perforations	20.00			4457.01	
Recorder	0.01	11085	Outside	4457.02	
Bullnose	3.00			4460.02	58.02 Bottom Packers & Anchor

Total Tool Length: 79.02

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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing- Nelson Oil Co., Inc.

R.J.Shea #1-14

PO Box 372
Hays, KS 67601

14-10s-31w Thomas Ks

Job Ticket: 15664

DST#: 4

ATTN: Ron Nelson

Test Start: 2001.12.08 @ 14:33:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	GIP	2.104
30.00	OCM 2%gas 10%oil 88%mud	0.421

Total Length: 180.00 ft Total Volume: 2.525 bbl

Num Fluid Samples: 0

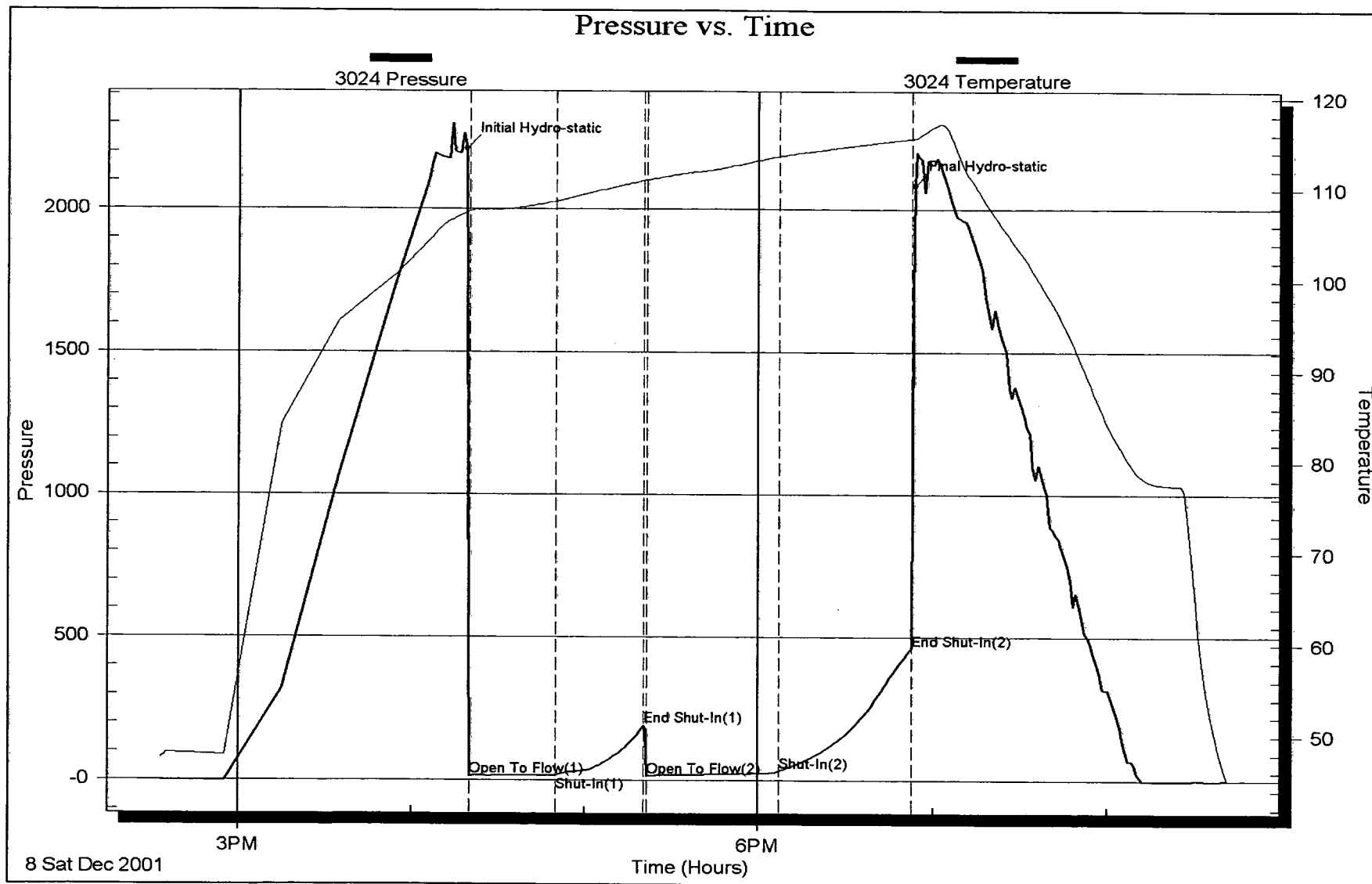
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

15-193-20681-00-00

ORIGINAL

DRILLER'S LOG

Operator: **Downing-Nelson Oil Co., Inc.**
PO Box 372
Hays, KS 67601

Contractor: **Discovery Drilling Co., Inc.**
PO Box 763
Hays, KS 67601

Lease: R.J. Shea #1-14

Location: 180' S of NW/NW/SW
Sec. 14/10S/31W
Thomas Co., KS

Loggers Total Depth: 4660'
Rotary Total Depth: 4660'
Commenced: 12/1/01
Casing: 8 5/8" @ 212' w/150sks
4 1/2" @ 4646' w/150sks
Port Collar @ 2512'

Elevation: 2979' Gr./2987' KB
Completed: 12/10/01
Status: Oil Well

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	0'	Shale	2584'
Dakota Sand	1324'	Shale & Lime	3013'
Shale	1505'	Shale	3398'
Cedar Hill Sand	1664'	Shale & Lime	3705'
Red Bed Shale	1963'	Lime & Shale	4049'
Anhydrite	2553'	RTD	4660'
Base Anhydrite	2584'		

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KCC WICHITA

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

Thomas H. Alm

Subscribed and sworn to before me on 12-11-01

My Commission expires: 8-9-03

(Place stamp or seal below)

Notary Public

