KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1089731

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: Alan Downing
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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 #:

07/11/2012	07/18/2012	07/19/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21679-00-00
Spot Description:
NE - SE - NW - NE Sec. 6 Twp. 21 S. R. 20 [ ] East [x] West
890 Feet from [x] North / [ ] South Line of Section
1350 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[x] NE [ ] NW [ ] SE [ ] SW
County: Pawnee
Lease Name: Vandenburg Well #: 1-6
Field Name: Steffen Southeast
Producing Formation: Mississippian
Elevation: Ground: 2190 Kelly Bushing: 2198
Total Depth: 4361 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1370 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 29000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. [ ] East [ ] West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- [ ] **Letter of Confidentiality Received**
  Date:
- [ ] **Confidential Release Date:**
- [x] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] **I** [ ] **II** [ ] **III** **Approved by:** Deanna Garrison **Date:** 09/07/2012

Side Two

1089731

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Vandenburg Well #: 1-6

Sec. 6 Twp. 21 S. R. 20 ☐ East ☑ West County: Pawnee

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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	1370	Common	525	2% Gel & 3% CC
Production string	7.875	5.5	14	4354	EA/2	125	

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

TUBING RECORD: Size: 2.375 Set At: 4360 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 08/01/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40	0	4		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Vandenburg 1-6
Doc ID	1089731

All Electric Logs Run

Micro
Sonic
Dual Indcution
Dual Porostiy

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Vandenburg 1-6
Doc ID	1089731

Tops

Name	Top	Datum
Anhydrite	1361'	+839
Base	1390'	+810
Heebner	3724'	-1524
LKC	3774'	-1574
BKC	4092'	-1892
Fort Scott	4272'	-2072
Cherokee Shale	4270'	-2090
Mississippi	4235'	-2135
Osage	4358'	-2135

ALLIED OIL & GAS SERVICES, LLC 053673

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Great Bend, KS

DATE 7-12-16	SEC. 6	TWP. 21	RANGE 20	CALLED OUT	ON LOCATION	JOB START 10:00pm	JOB FINISH 11:00pm
LEASE Vandenburg	WELL # 1-6	LOCATION Alexander, KS, 1/4 South 1 West, So. into				COUNTY Pawnee	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Discovery Rig #4
OWNER Downing - Nelson
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 1370
CASING SIZE 8 5/8 DEPTH
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 40.00 ft
PERFS.
DISPLACEMENT 84.90

CEMENT

AMOUNT ORDERED 525 sx Class A 3% CC 2% gel

		@	
COMMON	525	@ 16.25	8,531.25
POZMIX		@	
GEL	10	@ 21.25	212.50
CHLORIDE	18	@ 58.20	1047.60
ASC		@	
HANDLING	567	@ 2.10	1190.70
MILEAGE	25.915 x 42 x 2.35		2,557.81
		TOTAL	13,539.86

1088.42

EQUIPMENT

PUMP TRUCK # 366 CEMENTER Greg R.
HELPER Kevin E.
BULK TRUCK # 344-170 DRIVER Dylan Campbell
BULK TRUCK # DRIVER

REMARKS:

See Cement Log

Plug down @ 10:30pm

SERVICE

		@	
DEPTH OF JOB	1370		
PUMP TRUCK CHARGE			1125.00
EXTRA FOOTAGE	900	@ .95	855.00
MILEAGE	HVM 42	@ 7.00	294.00
MANIFOLD		@	
	LVM 42	@ 4.00	168.00
		TOTAL	2,442.00

CHARGE TO: Downing - Nelson
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
Baffle Plate	@ 112.00	112.00
Rubber Plug	@ 112.00	112.00
	TOTAL	224.00

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 831.27
TOTAL CHARGES 16,265.86
DISCOUNT 25% 4,051.46 IF PAID IN 30 DAYS
12,154.39

PRINTED NAME
SIGNATURE [signature]

JOB LOG

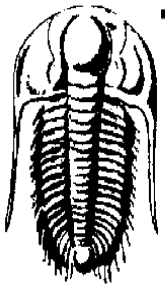
SWIFT Services, Inc.

DATE 9 Jul 12 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Downing & Nelson	1-6	VanDenberg	cement long string	22727

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
								175 sks EA-2 w/ ¼# Flocele
								105 jts 5½" 14# casing
								total pipe 4358.7' 42' shoe jt
								jts out 106, 107, 108, 109 Cent 1, 3, 5, 7, 9, 11
	1030							on loc TRK 114
	1120							start 5½" 14# casing in well
	1307							circulate
	1337						1000	Drop ball - set packer shoe
		4	12				200	Pump 500 gal mud flush
		4	20				200	Pump 20 bbl KCL flush
	1345		7					Plug RH - MH 30 sks - 20 sks
	1350	4	35				200	mix EA-2 cement 125 sks @ 15.3 ppg
	1400							Drop latchdown plug
								wash pump & line
	1405	6					200	Displace plug
		6	100				850	
	1430	6	105				1550	Land plug
								Release pressure to truck - dried up
	1435							wash truck
								Rack up
	1510							job complete

Thanks
Blaine Jason & Dave



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

Vandenburg #1-6

6-21s-20w Pawnee,KS

Start Date: 2012.07.17 @ 09:20:00
End Date: 2012.07.17 @ 16:15:00
Job Ticket #: 49272 DST #: 1

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

Printed: 2012.07.24 @ 09:50:58

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49272 **DST#: 1**

Test Start: 2012.07.17 @ 09:20:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: 2196.00 ft (KB)
Time Tool Opened: 11:52:30
Time Test Ended: 16:15:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 59

Interval: 4310.00 ft (KB) To 4349.00 ft (KB) (TVD)
Total Depth: 4349.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

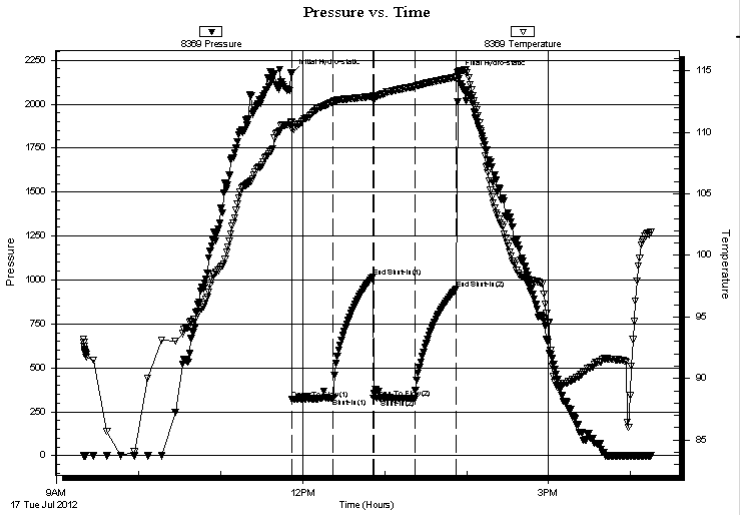
Reference Elevations: 2196.00 ft (KB)
2190.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 322.93 psig @ 4314.00 ft (KB)
Start Date: 2012.07.17 End Date: 2012.07.17
Start Time: 09:20:05 End Time: 16:14:59

Capacity: 8000.00 psig
Last Calib.: 2012.07.17
Time On Btm: 2012.07.17 @ 11:52:00
Time Off Btm: 2012.07.17 @ 13:54:00

TEST COMMENT: 30-IFP- Surface Blow Building to 1/4"
30-ISIP- No Blow
30-FFP- No Blow Flushed Good Surge No Blow
30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.72	110.82	Initial Hydro-static
1	320.03	110.30	Open To Flow (1)
31	326.18	112.46	Shut-In(1)
60	1017.40	112.92	End Shut-In(1)
60	326.92	112.54	Open To Flow (2)
90	322.93	113.70	Shut-In(2)
121	948.66	114.47	End Shut-In(2)
122	2166.96	114.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	CO 100%o	0.01
620.00	VS Oil Speck Mud	8.44

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49272 **DST#: 1**

Test Start: 2012.07.17 @ 09:20:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: 2196.00 ft (KB)
Time Tool Opened: 11:52:30
Time Test Ended: 16:15:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 59

Interval: 4310.00 ft (KB) To 4349.00 ft (KB) (TVD)
Total Depth: 4349.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

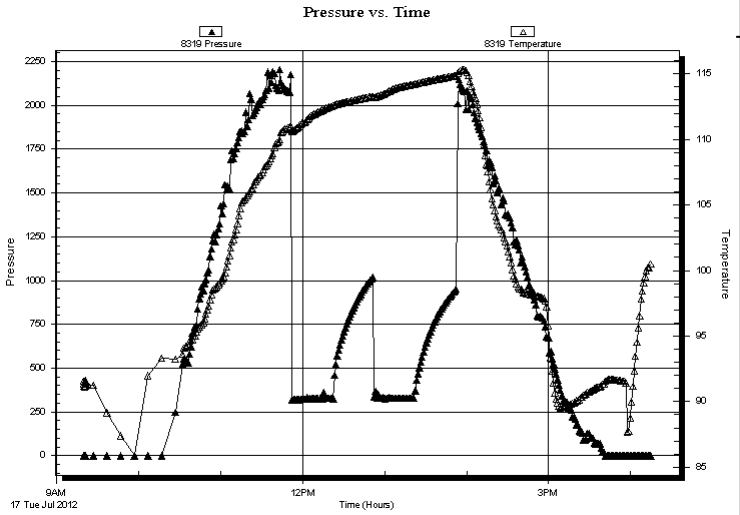
Reference Elevations: 2196.00 ft (KB)
2190.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8319 **Inside**

Press@RunDepth: psig @ 4314.00 ft (KB)
Start Date: 2012.07.17 End Date: 2012.07.17
Start Time: 09:20:05 End Time: 16:14:59

Capacity: 8000.00 psig
Last Calib.: 2012.07.17
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Building to 1/4"
30-ISIP- No Blow
30-FFP- No Blow Flushed Good Surge No Blow
30-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	CO 100%o	0.01
620.00	VS Oil Speck Mud	8.44

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49272 **DST#: 1**

Test Start: 2012.07.17 @ 09:20:00

Tool Information

Drill Pipe:	Length:	4289.00 ft	Diameter:	3.80 inches	Volume:	60.16 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	31.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		70000.00 lb
					Total Volume:	60.31 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	64000.00 lb
Depth to Top Packer:		4310.00 ft						Final	64000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		39.00 ft							
Tool Length:		59.00 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			4291.00		
Shut In Tool	5.00			4296.00		
Hydraulic tool	5.00			4301.00		
Packer	4.00			4305.00	20.00	Bottom Of Top Packer
Packer	5.00			4310.00		
Stubb	1.00			4311.00		
Perforations	2.00			4313.00		
Change Over Sub	1.00			4314.00		
Recorder	0.00	8319	Inside	4314.00		
Recorder	0.00	8369	Outside	4314.00		
Blank Spacing	31.00			4345.00		
Change Over Sub	1.00			4346.00		
Bullnose	3.00			4349.00	39.00	Bottom Packers & Anchor
Total Tool Length:	**59.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49272 **DST#: 1**

Test Start: 2012.07.17 @ 09:20:00

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.95 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	inches				

Recovery Information

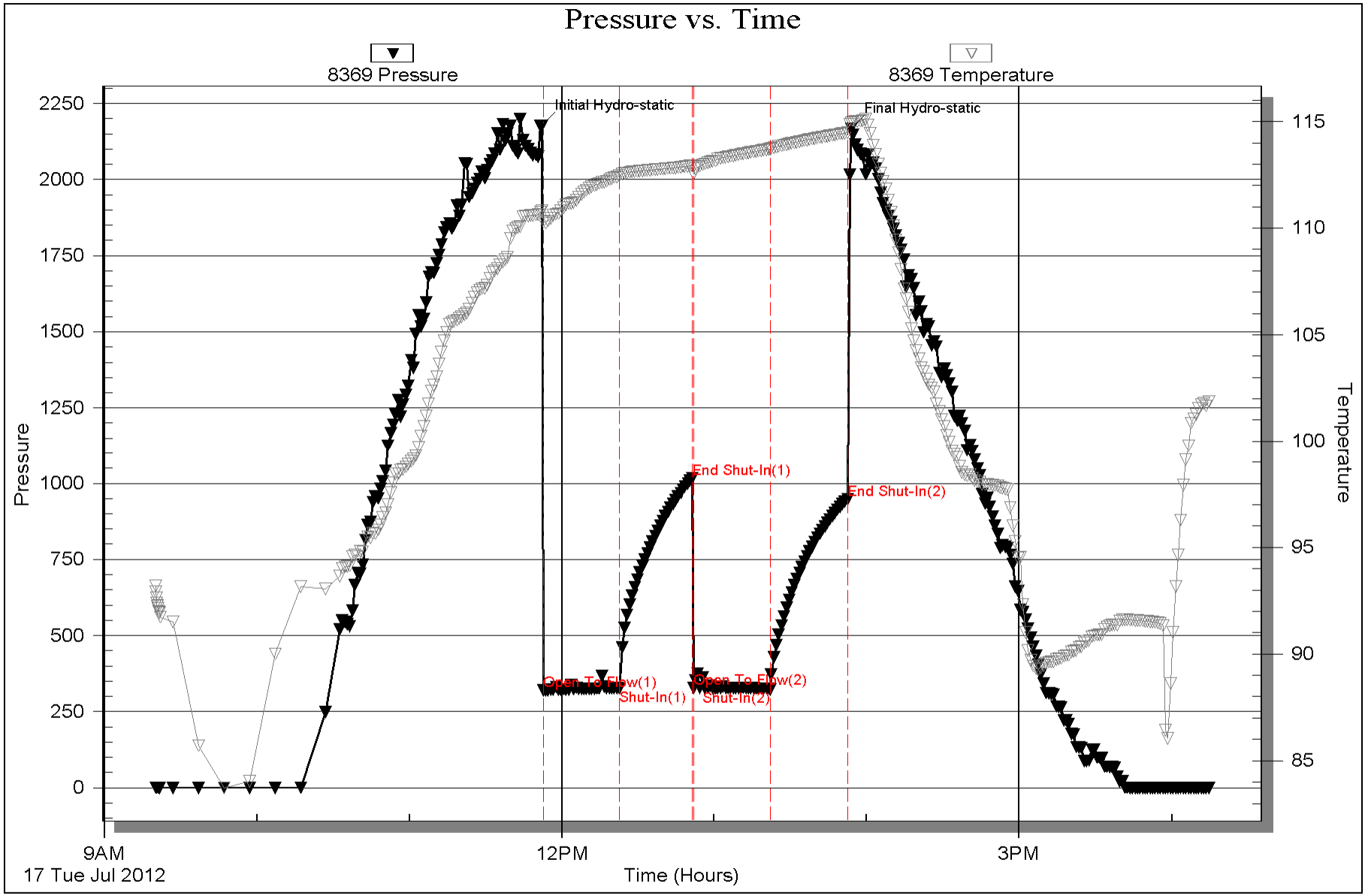
Recovery Table

Length ft	Description	Volume bbl
3.00	CO 100%o	0.015
620.00	VS Oil Speck Mud	8.442

Total Length: 623.00 ft Total Volume: 8.457 bbl

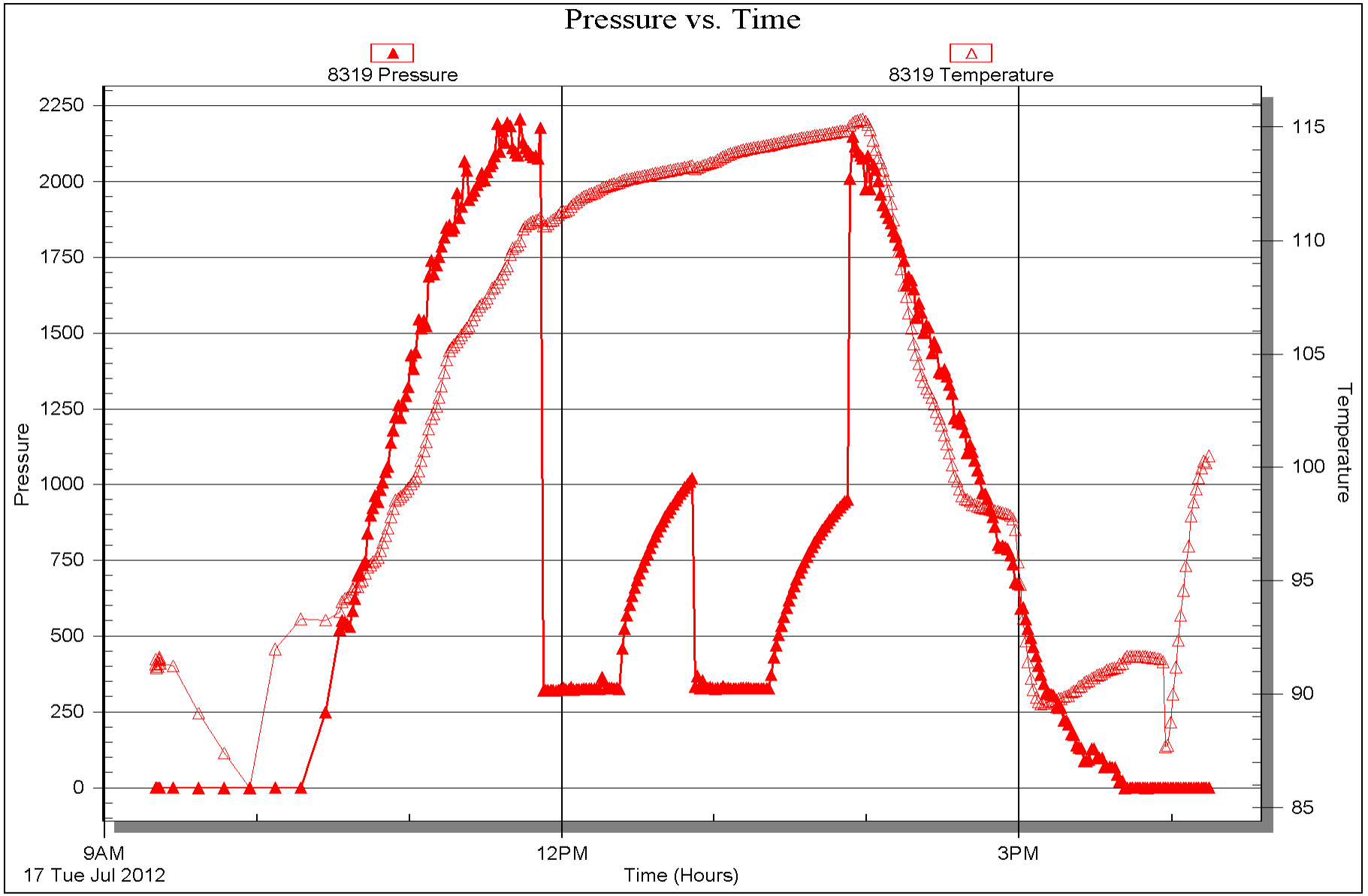
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8369 **Outside** Dow ning-Nelson Oil Co Inc Vandenburg #1-6 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 49272 Printed: 2012.07.24 @ 09:51:00

Serial #: 8319 **Inside** Dow ning-Nelson Oil Co Inc Vandenburg #1-6 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 49272 Printed: 2012.07.24 @ 09:51:01

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

Vandenburg #1-6

6-21s-20w Pawnee,KS

Start Date: 2012.07.18 @ 01:10:00
End Date: 2012.07.18 @ 06:46:00
Job Ticket #: 49273 DST #: 2

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

Printed: 2012.07.24 @ 09:50:07

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49273 **DST#: 2**

Test Start: 2012.07.18 @ 01:10:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: 2196.00 ft (KB)
Time Tool Opened: 03:01:00
Time Test Ended: 06:46:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 59

Interval: 4310.00 ft (KB) To 4353.00 ft (KB) (TVD)
Total Depth: 4353.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

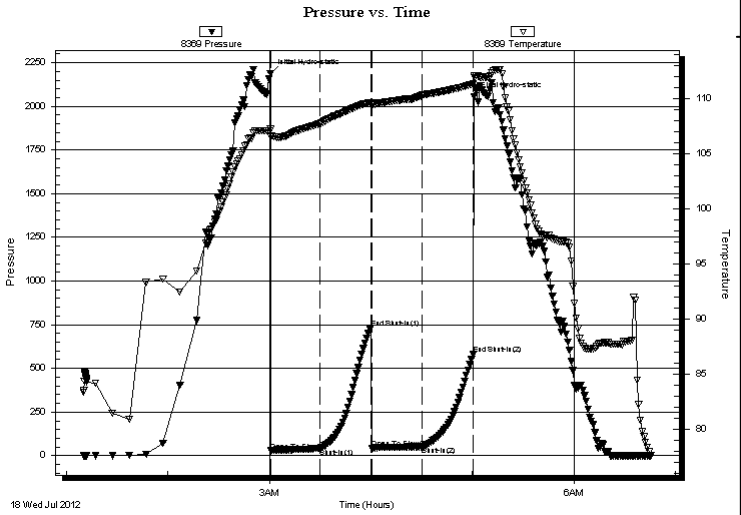
Reference Elevations: 2196.00 ft (KB)
2190.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 51.45 psig @ 4318.00 ft (KB)
Start Date: 2012.07.18 End Date: 2012.07.18
Start Time: 01:10:05 End Time: 06:45:59

Capacity: 8000.00 psig
Last Calib.: 2012.07.18
Time On Btm: 2012.07.18 @ 03:00:30
Time Off Btm: 2012.07.18 @ 05:01:00

TEST COMMENT: 30-IFP- Good Surge Surface Blow Died in 2 min
30-ISIP- No Blow
30-FFP- Surface Blow Died in 10 sec Flushed Blow Died in 30 sec
30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2187.35	107.22	Initial Hydro-static
1	27.69	106.56	Open To Flow (1)
30	41.68	107.73	Shut-In(1)
60	730.20	109.66	End Shut-In(1)
60	43.94	109.46	Open To Flow (2)
90	51.45	110.29	Shut-In(2)
120	579.30	111.32	End Shut-In(2)
121	2055.44	112.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	OCM 25%o 75%m	0.84

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49273 **DST#: 2**

Test Start: 2012.07.18 @ 01:10:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: 2196.00 ft (KB)
Time Tool Opened: 03:01:00
Time Test Ended: 06:46:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 59

Interval: 4310.00 ft (KB) To 4353.00 ft (KB) (TVD)
Total Depth: 4353.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

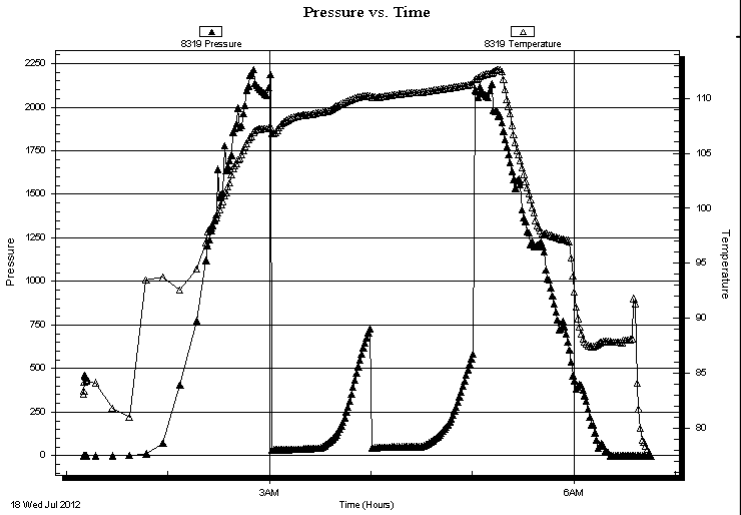
Reference Elevations: 2196.00 ft (KB)
2190.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8319 **Inside**

Press@RunDepth: psig @ 4318.00 ft (KB)
Start Date: 2012.07.18 End Date: 2012.07.18
Start Time: 01:10:05 End Time: 06:45:59

Capacity: 8000.00 psig
Last Calib.: 2012.07.18
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP- Good Surge Surface Blow Died in 2 min
30-ISIP- No Blow
30-FFP- Surface Blow Died in 10 sec Flushed Blow Died in 30 sec
30-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
80.00	OCM 25%o 75%m	0.84

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49273 **DST#: 2**

Test Start: 2012.07.18 @ 01:10:00

Tool Information

Drill Pipe:	Length:	4289.00 ft	Diameter:	3.80 inches	Volume:	60.16 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	31.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	60.31 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	59000.00 lb
Depth to Top Packer:		4310.00 ft						Final	59000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		43.00 ft							
Tool Length:		63.00 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			4291.00		
Shut In Tool	5.00			4296.00		
Hydraulic tool	5.00			4301.00		
Packer	4.00			4305.00	20.00	Bottom Of Top Packer
Packer	5.00			4310.00		
Stubb	1.00			4311.00		
Perforations	6.00			4317.00		
Change Over Sub	1.00			4318.00		
Recorder	0.00	8319	Inside	4318.00		
Recorder	0.00	8369	Outside	4318.00		
Blank Spacing	31.00			4349.00		
Change Over Sub	1.00			4350.00		
Bullnose	3.00			4353.00	43.00	Bottom Packers & Anchor
Total Tool Length:	**63.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49273 **DST#: 2**

Test Start: 2012.07.18 @ 01:10:00

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:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.96 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	inches				

Recovery Information

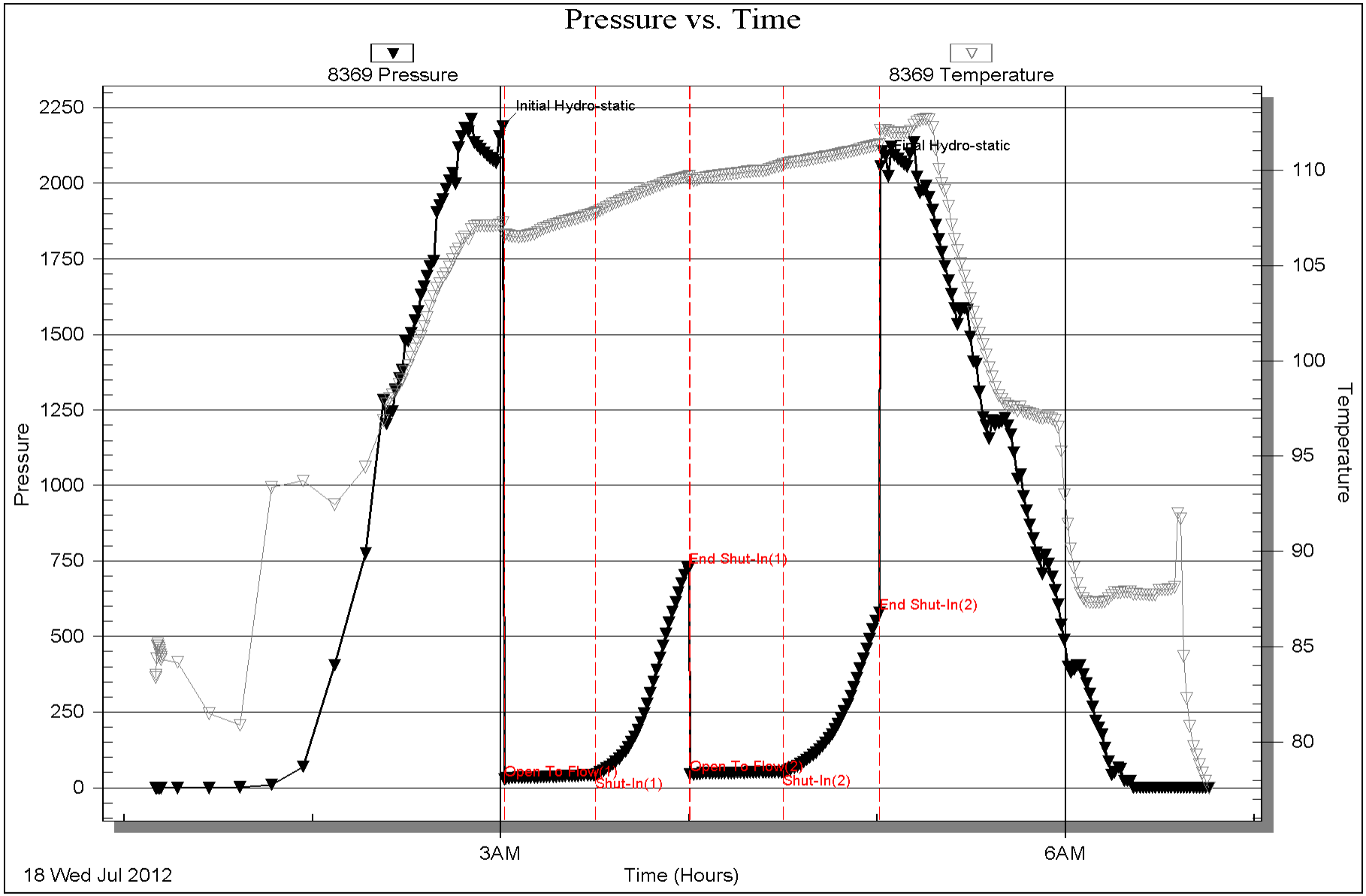
Recovery Table

Length ft	Description	Volume bbl
80.00	OCM 25%o 75%m	0.840

Total Length: 80.00 ft Total Volume: 0.840 bbl

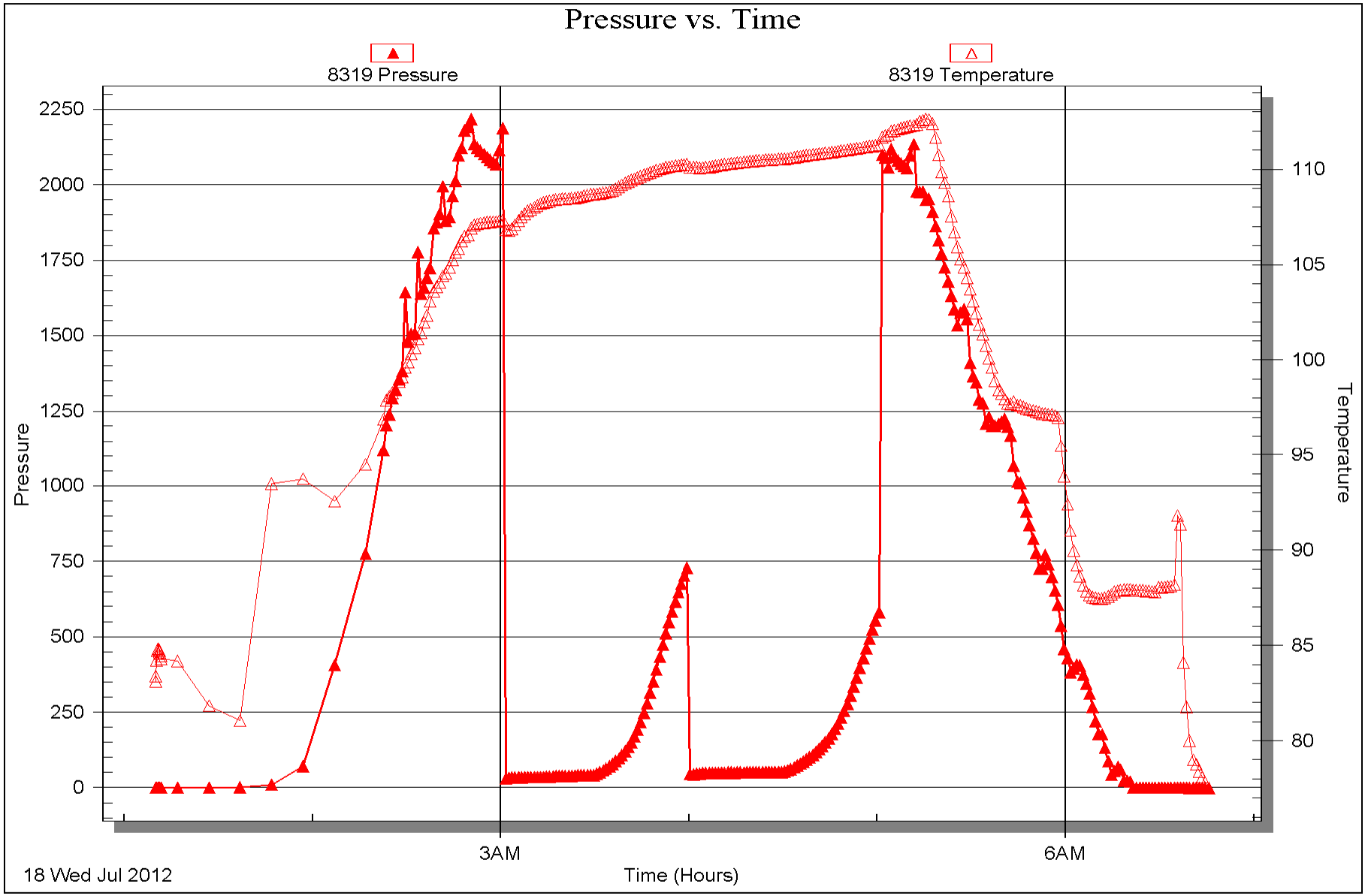
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8369 **Outside** Dow ning-Nelson Oil Co Inc Vandenburg #1-6 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 49273 Printed: 2012.07.24 @ 09:50:09

Serial #: 8319 **Inside** Dow ning-Nelson Oil Co Inc Vandenburg #1-6 DST Test Number: 2



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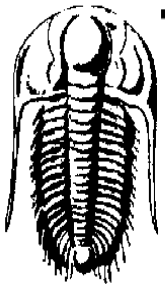


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

Vandenburg #1-6

6-21s-20w Pawnee,KS

Start Date: 2012.07.18 @ 14:00:00
End Date: 2012.07.18 @ 21:20:30
Job Ticket #: 49274 DST #: 3

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

Printed: 2012.07.24 @ 09:49:09

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Dow ning

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49274 **DST#: 3**

Test Start: 2012.07.18 @ 14:00:00

GENERAL INFORMATION:

Formation: **Miss-Osage**
Deviated: No Whipstock: 2196.00 ft (KB)
Time Tool Opened: 16:24:30
Time Test Ended: 21:20:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 59

Interval: 4345.00 ft (KB) To 4361.00 ft (KB) (TVD)
Total Depth: 4361.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

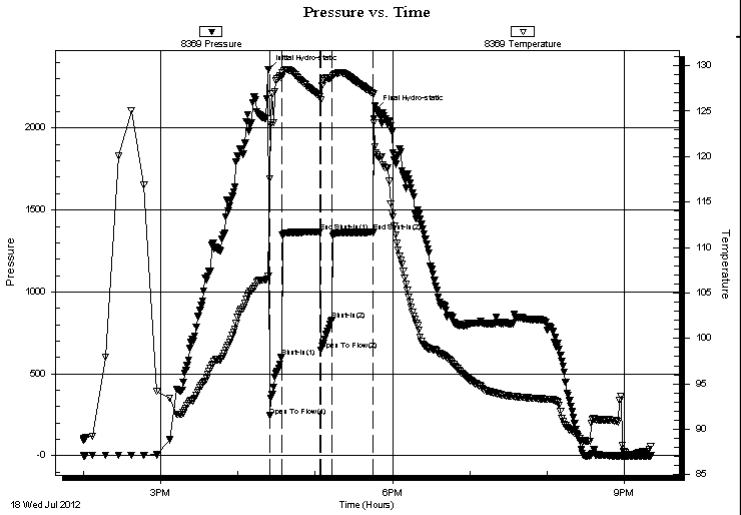
Reference Elevations: 2196.00 ft (KB)
2190.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 829.03 psig @ 4358.00 ft (KB)
Start Date: 2012.07.18 End Date: 2012.07.18
Start Time: 14:00:05 End Time: 21:20:29

Capacity: 8000.00 psig
Last Calib.: 2012.07.18
Time On Btm: 2012.07.18 @ 16:23:30
Time Off Btm: 2012.07.18 @ 17:47:00

TEST COMMENT: IF-BOB in 30 sec
ISI-BOB in 26 min
FF-BOB in 30 sec
FSI-8" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2358.73	106.83	Initial Hydro-static
1	244.04	117.59	Open To Flow (1)
11	603.43	128.80	Shut-In(1)
40	1365.76	126.62	End Shut-In(1)
41	647.03	126.23	Open To Flow (2)
50	829.03	128.71	Shut-In(2)
82	1364.63	126.90	End Shut-In(2)
84	2112.10	120.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1715.00	GO 15%G 85%O	23.77
0.00	675ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Dow ning

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49274 **DST#: 3**

Test Start: 2012.07.18 @ 14:00:00

GENERAL INFORMATION:

Formation: **Miss-Osage**
Deviated: No Whipstock: 2196.00 ft (KB)
Time Tool Opened: 16:24:30
Time Test Ended: 21:20:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 59

Interval: 4345.00 ft (KB) To 4361.00 ft (KB) (TVD)
Total Depth: 4361.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

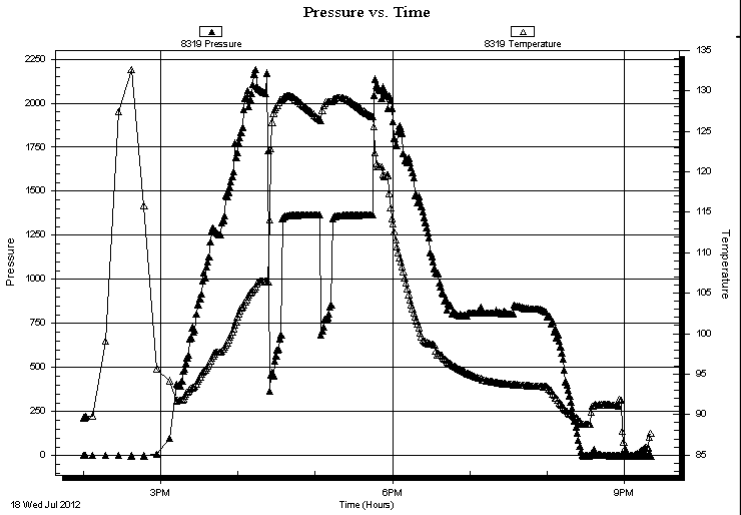
Reference Elevations: 2196.00 ft (KB)
2190.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8319 **Inside**

Press@RunDepth: psig @ 4358.00 ft (KB)
Start Date: 2012.07.18 End Date: 2012.07.18
Start Time: 14:00:05 End Time: 21:20:29

Capacity: 8000.00 psig
Last Calib.: 2012.07.18
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-BOB in 30 sec
ISI-BOB in 26 min
FF-BOB in 30 sec
FSI-8" blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1715.00	GO 15%G 85%O	23.77
0.00	675ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49274 **DST#: 3**

Test Start: 2012.07.18 @ 14:00:00

Tool Information

Drill Pipe:	Length:	4322.00 ft	Diameter:	3.80	inches	Volume:	60.63	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	31.00 ft	Diameter:	2.25	inches	Volume:	0.15	bbl	
						Total Volume:	60.78	bbl	

Drill Pipe Above KB:	28.00 ft
Depth to Top Packer:	4345.00 ft
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 Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		75000.00 lb
Tool Chased		5.00 ft
String Weight:	Initial	60000.00 lb
	Final	69000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4326.00		
Shut In Tool	5.00			4331.00		
Hydraulic tool	5.00			4336.00		
Packer	4.00			4340.00	20.00	Bottom Of Top Packer
Packer	5.00			4345.00		
Stubb	1.00			4346.00		
Perforations	12.00			4358.00		
Recorder	0.00	8319	Inside	4358.00		
Recorder	0.00	8369	Outside	4358.00		
Bullnose	3.00			4361.00	16.00	Bottom Packers & Anchor
Total Tool Length:	**36.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Alan Downing

6-21s-20w Pawnee,KS

Vandenburg #1-6

Job Ticket: 49274 **DST#: 3**

Test Start: 2012.07.18 @ 14:00:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	35 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.94 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1715.00	GO 15%G 85%O	23.775
0.00	675ft GIP	0.000

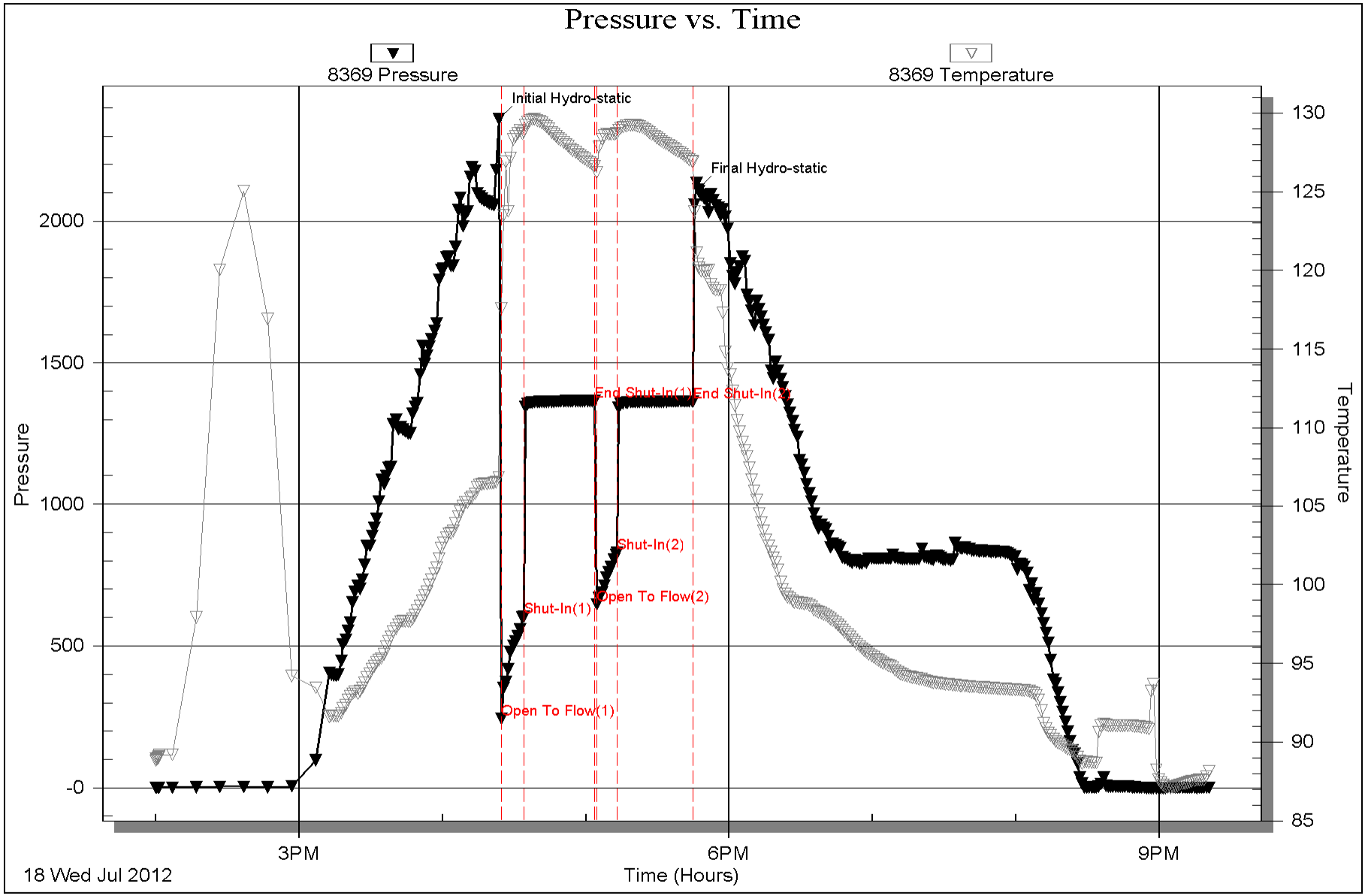
Total Length: 1715.00 ft Total Volume: 23.775 bbl

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

Laboratory Name: Laboratory Location:

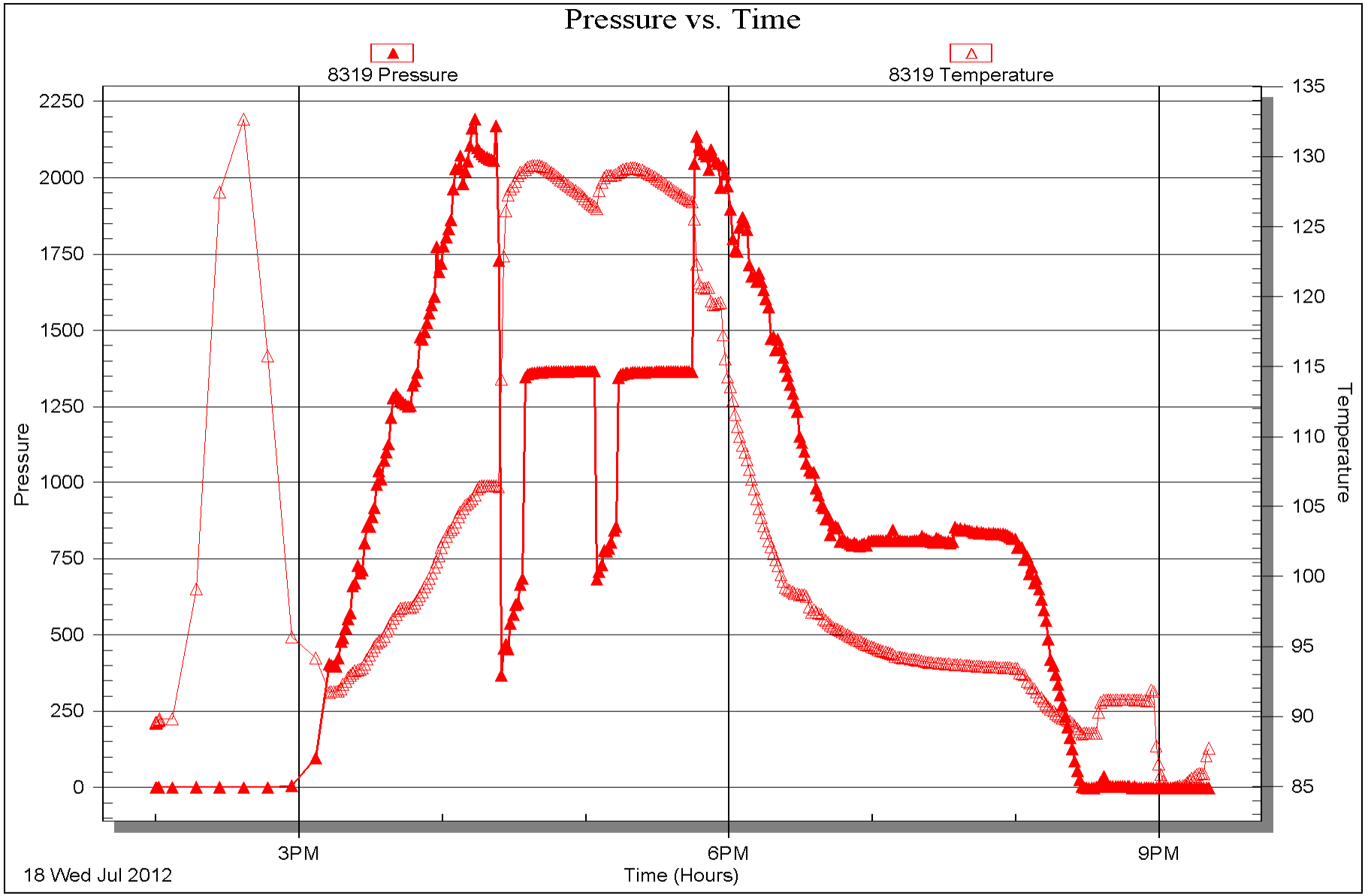
Recovery Comments:

Serial #: 8369 **Outside** Dow ning-Nelson Oil Co Inc Vandenburg #1-6 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 49274 Printed: 2012.07.24 @ 09:49:12

Serial #: 8319 **Inside** Dow ning-Nelson Oil Co Inc Vandenburg #1-6 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 49274 Printed: 2012.07.24 @ 09:49:12

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 49272

Well Name & No. Vardenburg #1-6 Test No. 1 Date 7-17-12

Company Downing-Nelson Oil Co, Inc, Elevation 2196 KB 2190 GL

Address P.O. Box 1019 Hays Ks. 67601

Co. Rep / Geo. Al Downing Rig Discovery Rig #4

Location: Sec. 6 Twp. 21 S Rge. 20 W Co. Pawnee State KS

Interval Tested 4310 - 4349 Zone Tested Miss

Anchor Length 39 Drill Pipe Run 4289 Mud Wt. 8.9

Top Packer Depth 4305 Drill Collars Run 31 Vis 49

Bottom Packer Depth 4310 Wt. Pipe Run ∞ WL 12

Total Depth 4349 Chlorides 9000 ppm System LCM 2

Blow Description IFP - Surface Blow Building to 1/4 in.
ISIP - No Blow
FFP - No Blow Flushed No Blow
FSIP - No Blow

Rec 3	Feet of CO	%gas	100 %oil	%water	%mud	
Rec 620	Feet of VSOSM	%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 623 BHT 114 Gravity 35 API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2176	☒ Test 1250	T-On Location 07:56	
(B) First Initial Flow 320	☐ Jars	T-Started 09:20	
(C) First Final Flow 326	☐ Safety Joint	T-Open 11:52	
(D) Initial Shut-In 1017	☐ Circ Sub	T-Pulled 13:52	
(E) Second Initial Flow 326	☐ Hourly Standby	T-Out 16:15	
(F) Second Final Flow 322	☒ Mileage 158 RT 244.90	Comments Found Dime size hole in Drill Pipe when going back in hole w/bit	
(G) Final Shut-In 948	☐ Sampler		
(H) Final Hydrostatic 2166	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 30	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0	
Final Flow 30	☐ Day Standby	Total 1494.90	
Final Shut-In 30	☐ Accessibility	MP/DST Disc't	
	Sub Total 1494.90		

Approved By ____ Our Representative ____

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 49273

Well Name & No. Vandepburg #1-6 Test No. 2 Date 7-17-12

Company Downing-Nelson Oil Co Inc. Elevation 2196 KB 2190 GL

Address P.O. Box 1019 Hays KS 67601

Co. Rep / Geo. Al Downing Rig Discovery #4

Location: Sec. 6 Twp. 29S Rge. 20W Co. Pawnee State KS

Interval Tested 4310 - 4353 Zone Tested Miss

Anchor Length 43 Drill Pipe Run 4289 Mud Wt. 8.8

Top Packer Depth 4305 Drill Collars Run 31 Vis 58

Bottom Packer Depth 4310 Wt. Pipe Run 0 WL 10

Total Depth 4353 Chlorides 5000 ppm System LCM 2

Blow Description IFP- Good Surge Surface Blow Died in 2min
ISIP- No Blow
FFP- Surface Blow Died in 10sec. Flushed S. B. Died in 30sec.
FSIP- No Blow

Rec 80	Feet of OCM	%gas 25	%oil	%water 75	%mud
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 80 BHT 111 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2187	☑ Test 1250	T-On Location 23:10
(B) First Initial Flow 27	☐ Jars	T-Started 01:10
(C) First Final Flow 41	☐ Safety Joint	T-Open 03:00
(D) Initial Shut-In 730	☐ Circ Sub	T-Pulled 05:00
(E) Second Initial Flow 43	☐ Hourly Standby	T-Out 06:46
(F) Second Final Flow 51	☒ Mileage 244.90	Comments
(G) Final Shut-In 579	☐ Sampler	
(H) Final Hydrostatic 2055	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 1494.90
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1494.90	

Approved By ____ Our Representative ____

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 49274

Well Name & No. Vanden burg #1-6 Test No. 3 Date 7/18/12

Company Downing-Nelson Oil Co. Inc, Elevation 2196 KB 2190 GL

Address P.O Box 1019 Hays KS 67601

Co. Rep / Geo. Al Downing Rig Discovery #4

Location: Sec. 6 Twp. 21S Rge. 20W Co. Pawnee State KS

Interval Tested 4345 - 4361 Zone Tested Miss - Osage

Anchor Length 16 Drill Pipe Run 4322 Mud Wt.

Top Packer Depth 4340 Drill Collars Run 31 Vis

Bottom Packer Depth 4345 Wt. Pipe Run — WL

Total Depth 4361 Chlorides ppm System LCM

Blow Description IF - BOB in ½ min
ISI - BOB in 26 min
FF - BOB in ½ min
FSI - 8 in blow

Rec 1715	Feet of GO	15 %gas	85 %oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of 675-G GIP	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 1715 BHT 120 Gravity 35 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2,359	☒ Test 1250	T-On Location 13:35	
(B) First Initial Flow 244	☐ Jars	T-Started 14:00	
(C) First Final Flow 603	☐ Safety Joint	T-Open 16:20	
(D) Initial Shut-In 1,366	☐ Circ Sub	T-Pulled 18:40	
(E) Second Initial Flow 647	☐ Hourly Standby	T-Out 21:23	
(F) Second Final Flow 929	☒ Mileage 158 rt 244.90	Comments	
(G) Final Shut-In 1,365	☐ Sampler		
(H) Final Hydrostatic 2,112	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 10	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0	
Final Flow 10	☐ Day Standby	Total 1494.90	
Final Shut-In 30	☐ Accessibility	MP/DST Disc't	
	Sub Total 1494.90		

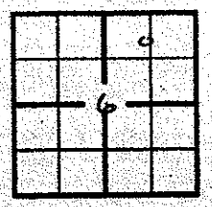
Approved By Our Representative Brett Downing

Marc Downing

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

GEOLOGIC REPORT LOG

COMPANY Downing-Nelson Oil Co., Inc.
WELL Vandenburg #1-6
FIELD Steffen Southeast
LOCATION 880' FNL - 1350' FEL
SEC. 6 TWP. 21s RGE. 20w
COUNTY Pawnee
STATE Kansas



PRODUCTION Osage
ELEVATION KB 2200
DF
GL 2192
Drilling Measured From: 2200 KB
Samples Saved From 4200 To: TD
Drilling Time From 3600 To: TD
Samples Examined From: 4200 To: TD
Geological Supervision From 4200 To Total Depth
Wellsite Geologist Alan Downing
Electrical Surveys Log Tech
CAN/GP — Sonic
Dual Indctn - Microlog

OPERATOR DNOCI
CONTRACTOR Discovery Drlg Rig #4
COMM: 7-11-12 COMP: 7-19-12

CASING RECORD
SURF: 8 5/8" 1350' PROD: 5 1/2 - 4358'
TOTAL DEPTH DRILLERS: 4361
TOTAL DEPTH LOG 4362

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Anhydrite	1360	1361	+839	NA
Base	1389	1390	+810	NA
Heebner	3722	3724	-1524	-1
Lansing	3772	3774	-1574	-1
BKC	4088	4092	-1892	+1
Fort Scott	4269	4272	-2072	+1
Cherokee Sh.	4289	4290	-2090	+2
Miss	4233	4235	-2135	Fl
Osage	4358	4358	-2135	+8

REFERENCE WELL FOR STRUCTURE Hummon Corp
Lora #1 C-NE-NE Sec 6-21s-20w
old Producer

DAILY PENETRATION		BIT RECORD						
DATE	DEPTH	NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS 0 S W

DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHH-FHH	RECOVERY

REMARKS AND RECOMMENDATIONS

LEGEND

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

REMARKS

OIL SHOWS

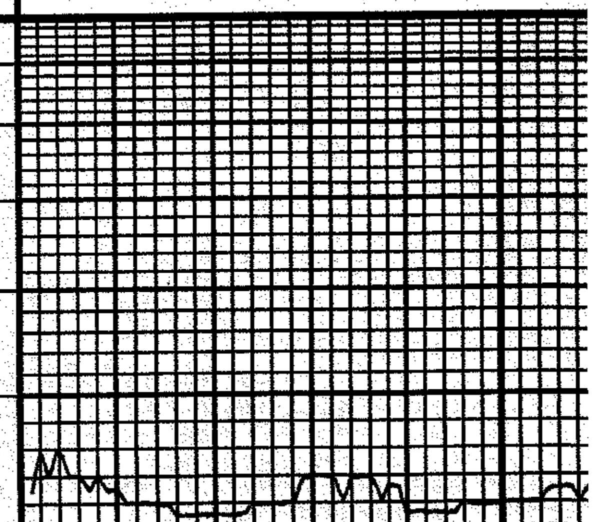
SAMPLE DESCRIPTIONS

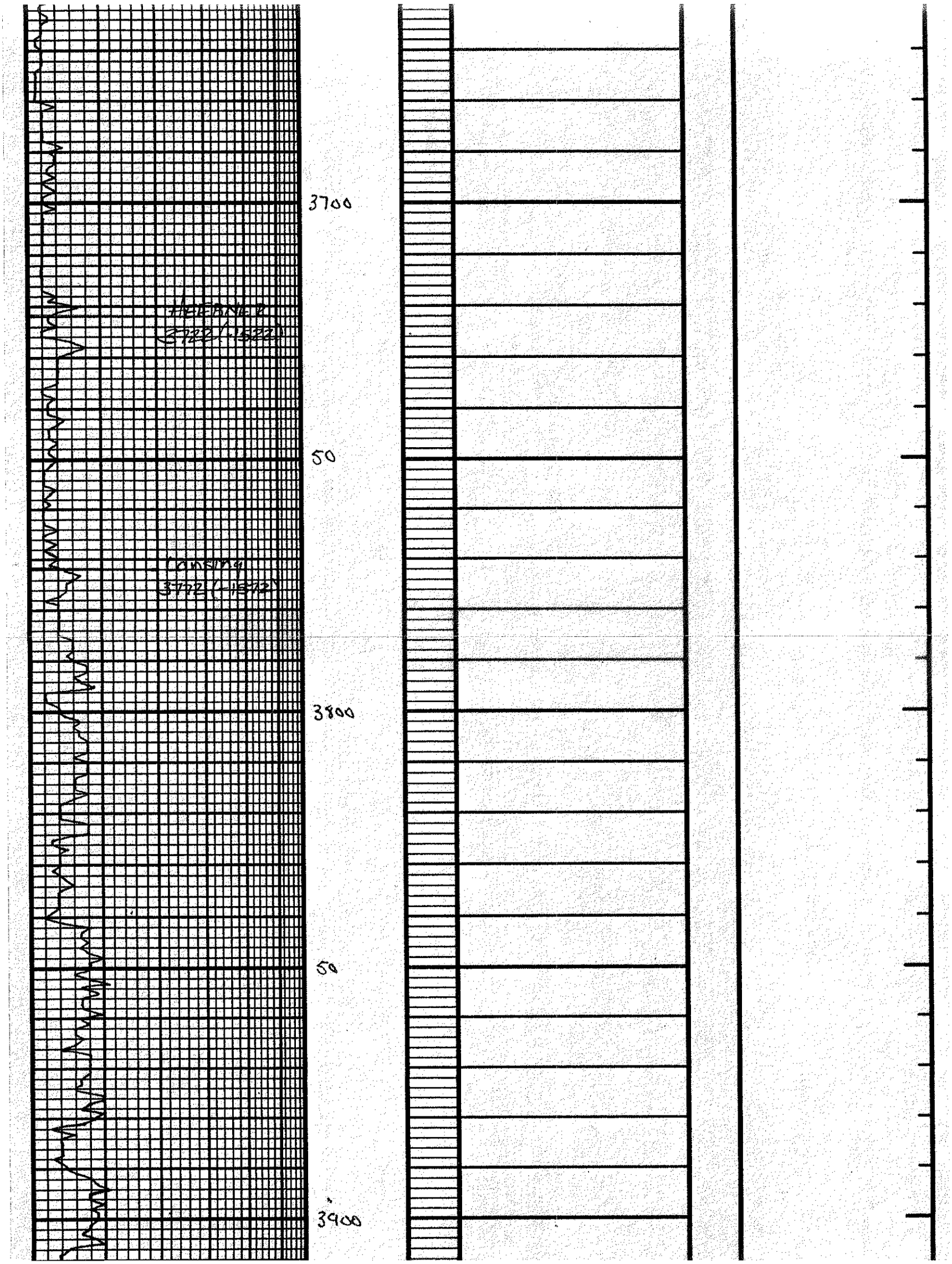
LITHOLOGY

DEPTH 3600 50

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration Decreases

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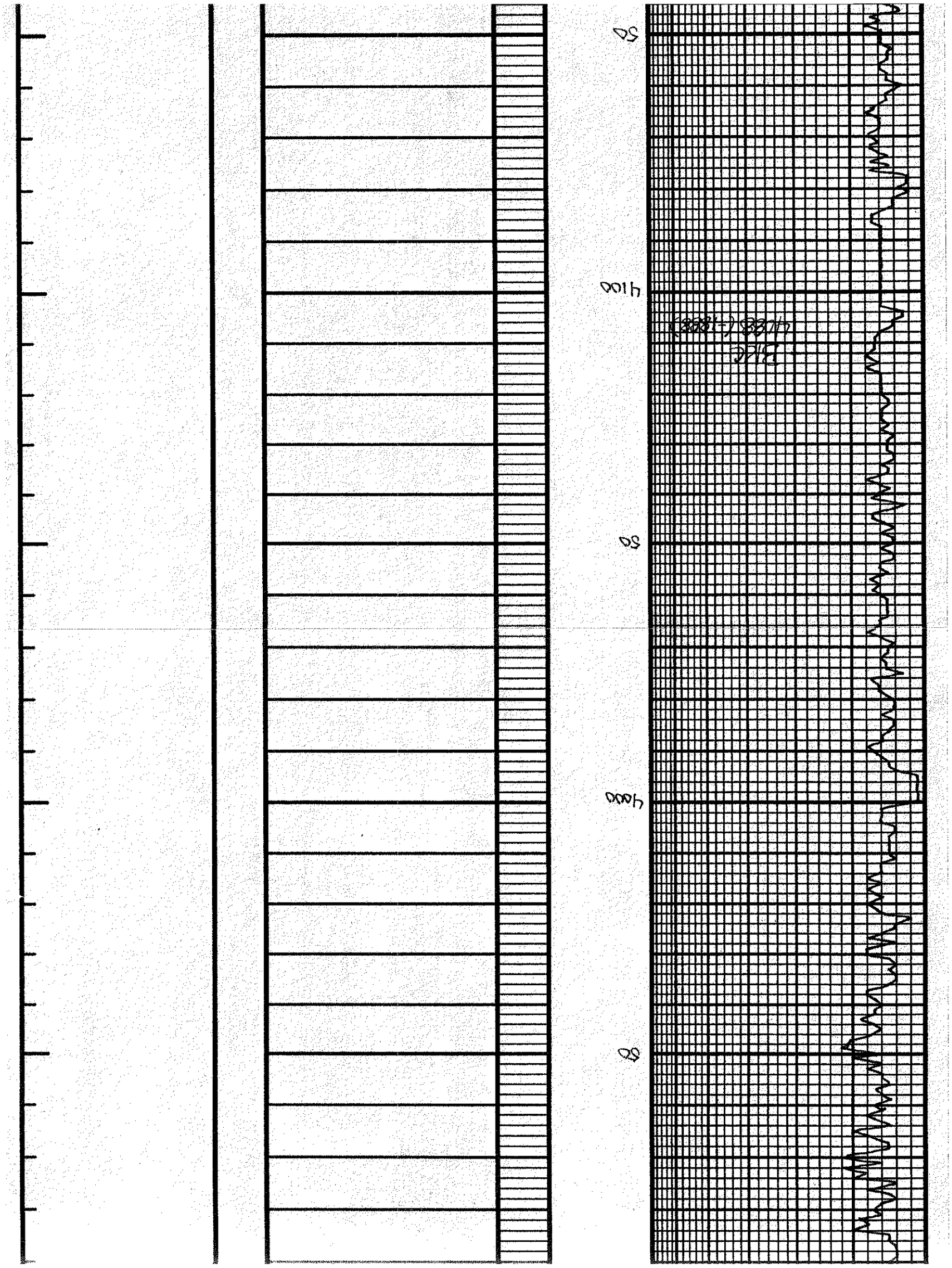
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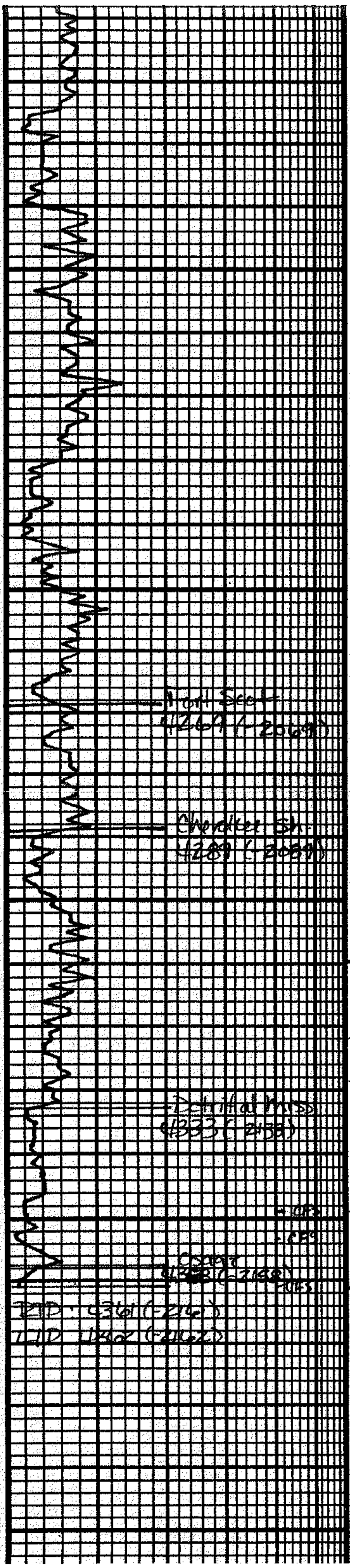
4000
50



4200

Sh: V. dark gry

Ls: Tan Lt. Brn f.-Vfxn w/ scatt shales + chky Ls Lenses.

Ls: Drk Brn, Vfxn, Vdse Ns-

Sh: Black - carb

Sh: gry - Brown

50

Ls: Tan, crm Vfxn Vdse - w/ few pcs Tan chert

Sh: Black - carb

Ls: Tan fxn, all dse w/ scatt chky Ls Lenses all No show

Sh: Black carb

4300

Ls: Tan fxn, dse Ns

DST #1

DST #2

Sh: gry - green - silty

Ls: Tan f-Vfxn w/ Tan chert, some w/ gd stn, V. spt SFO faint odor some weathered w/ fr edge stn. 26

Ls: Tan fxn w/ mostly wht weathered chert w/ lite SFO in 1-2 pcs mostly all edge + few frac plns stn faint odor 26

50

DST #3

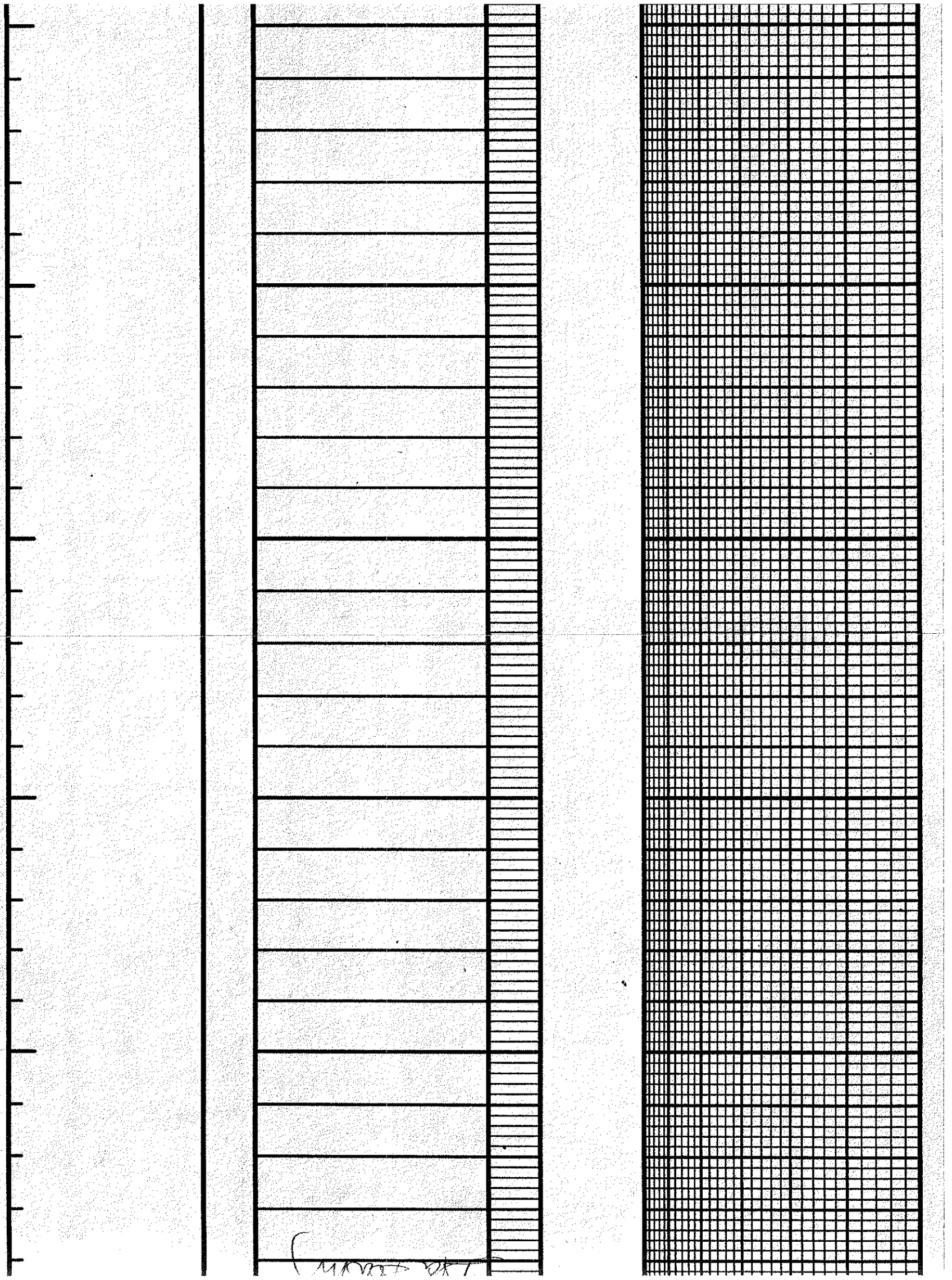
Sh: gry - Brown

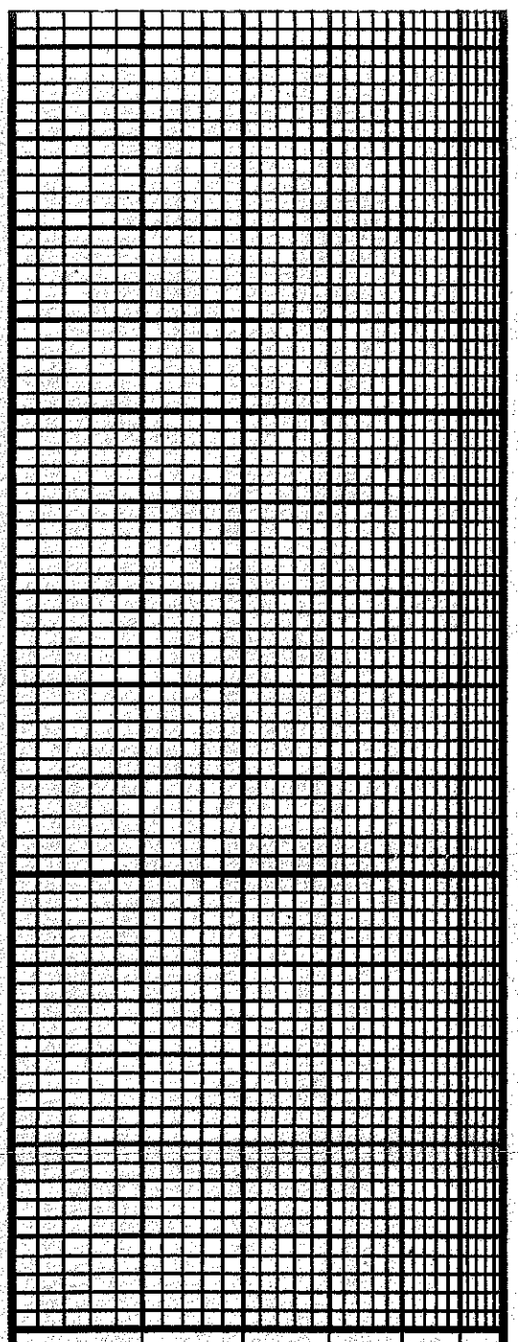
Ls: Brn wht w/ gd weathered ϕ, V. gd odor w/ brant Flo w/ lite SFO - V. High grav. 65

DST #1
4310-4349
30-30-30-30
Rec:
3' clean oil
620' VSOCM
Slid to Bottom 15'
IHP: 2176#
IFP: 320-326#
FFP: 326-322#
SIP: 1017-948#

DST #2
4310-4353
30-30-30-30
Rec:
80' ocm
IHP: 2187#
IFP: 27-41#
FFP: 43-51#
SIP: 730-579#
FHP: 2055#

DST #3
4342-4361
10-30-10-30
Rec:
675' gip
1715' cgo
IF BOB 30 sec
FF BOB 30 sec
IHP: 2358#
IFP: 244-603#
FFP: 647-829#
SIP: 1365-1364#
Temp: 128°F





5" 10" 15" 20" 25"

DRILLING TIME Minutes/Foot

Rate of Penetration Decreases

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

CONTRACTOR _____ LOCATION _____

LEASE _____ IP _____ SEC _____ TWP _____ RNG _____

ELEVATION _____ RTD _____ COUNTY _____ STATE _____