KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1060053

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:

- [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 #:

06/23/2011	06/30/2011	07/01/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21643-00-00
Spot Description:
SW - SW - NE - SW Sec. 20 Twp. 20 S. R. 20 [ ] East [x] West
1635 Feet from [ ] North / [x] South Line of Section
1455 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [ ] SE [x] SW
County: Pawnee
Lease Name: Keller Trust Well #: 1-20
Field Name: Steffen
Producing Formation: Mississippi
Elevation: Ground: 2195 Kelly Bushing: 2203
Total Depth: 4360 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1160 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: 1600 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:**
- [x] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] **I** [ ] **II** [ ] **III** **Approved by:** Deanna Garrisor **Date:** 08/31/2011

Side Two

1060053

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Keller Trust Well #: 1-20

Sec. 20 Twp. 20 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:

Micro
Dual Induction
Compensated Porosity

☑ 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	8.6250	23	1160	Common	450	2% Gel & 3% CC
Production String	7.8750	5.5	14	4359	EA/2	125	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

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	4334' - 4346'	150 gal. 7.5% Mud Acid	4334' - 4346
		750 gal. 7.5% INS Acid	4334' - 4346

TUBING RECORD: Size: 2.375 Set At: 4319.86 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 08/06/2011

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	9	0	1		

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	Keller Trust 1-20
Doc ID	1060053

Tops

Name	Top	Datum
Top Anhydrite	1385	+818
Base	1412	+791
Heebner	3715	-1512
LKC	3765	-1562
BKC	4079	-1876
Fort Scott	4263	-2060
Cherokee Shale	4282	-2079
Mississippi	4334	-2131

JOB LOG

SWIFT Services, Inc.

DATE 7-1-11 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Downing - Nelson	1-20	KELLER TRUST	5½" LONGSTRING	20775

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1200							ON LOCATION
	0045							START 5½" CASING IN WELL
								TD - 4360 SET - 4359
								TP - 4364 5½ # 14
								SJ - 20'
								CENTRALIZERS - 1, 3, 5, 7, 9, 11
								~~BAFFLE BSKT -~~
	0240							DROP BALL - CIRCULATE ROTATE
	0335	6	12		✓		500	PUMP 500 GAL MUDFLUSH
	0337	6	20		✓		500	PUMP 20 BBL KCL-FLUSH
	0345		7-5					PLUG RH - MH (20 SKS MH - 30 SKS RH)
	0350	4½	30		✓		300	MIX CEMENT 125 SKS EA-2 @ 15.5 PPG
	0357							WASH OUT PUMP & LINES
	0358							RELEASE LATCH DOWN PLUG
	0400	7	0		✓			DISPLACE PLUG
		7	96				750	SHUT OFF ROTATING
	0415	6½	106				1500	PLUG DOWN - PSI UP LATCH IN PLUG
	0417						OK	RELEASE PSI - HELD
								WASH TRUCK
	0500							JOB COMPLETE
								THANK YOU
								WAYNE, JEFF, JOE

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 4886

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6/24/11	20	20	20	Pawnee	KS		2:45PM

Lease Keller Trust Well No. 1-20 Location Alexander, 11S, 1W, 1/2 S, E into

Contractor Discovery Drilling Rig #4 Owner

Type Job Surface To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 1160'

Csg. 8 5/8" 23# Depth 1160'

Charge To Downing+Nelson

Tbg. Size Depth Street

Tool Depth City State

Cement Left in Csg. 40' Shoe Joint 40'

The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace 7 1/2 Bbls. Cement Amount Ordered 450sx Com 3%cc 2%gel

EQUIPMENT

Pumptrk 9 No. Cementer Helper Paul

Bulktrk 13 No. Driver Driver Cisco

Bulktrk PV No. Driver Driver Cory

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Est. Circ
Mix 450sx
Displace
Cement Circulated

Thank You!

Common	450
Poz. Mix	
Gel.	8
Calcium	16
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	474
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	8 5/8"
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	Baffle Plate + Rubber Plug
	Head + Manifold
Pumptrk Charge	Long Surface
Mileage	31
Tax	
Discount	
Total Charge	

X Signature

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 Keller Trust # 1-20

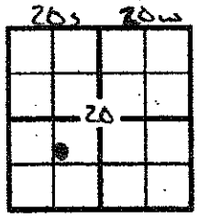
FIELD Wildcat

LOCATION 1635' FSL & 1455' FWL

SEC. 20 TWP. 20s RGE. 20w

COUNTY Pawnee

STATE Kansas



PRODUCTION Miss

ELEVATION KB 2203
DF
GL 2195

Drilling Measured From: KB

Samples Saved From 4100 To: TD
Drilling Time From 3600 To: TD
Samples Examined From: 4100 To: TD
Geological Supervision From 3600 To Total Depth
Wellsite Geologist Marc Downing
Electrical Surveys Log-Tech
CNL/CDL
DIL
MEL

OPERATOR DNOCI
CONTRACTOR Discovery Drilling, Rig #4
COMM: 6-23-11 COMP: 6-30-11

CASING RECORD

SURF: 8 5/8" @ 1160' PROD: 5½" @ 4358'
TOTAL DEPTH DRILLERS: 4360
TOTAL DEPTH LOG 4358'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	1387	1385	+818	-2
Base Anhydrite	1413	1412	+791	-2
Heebner	3718	3715	-1512	-1
Lansing	3771	3765	-1562	-2
BKC	4082	4079	-1876	-1
Ft. Scott	4266	4263	-2060	NA
Cherokee Sh.	4285	4282	-2079	-2
Miss	4337	4334	-2131	+1

REFERENCE WELL FOR STRUCTURE Miller-Keller Unit #1-20
DNOCI 2340' FSL & 1220' FWL Sec. 20-20s-20w

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

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS G	S W

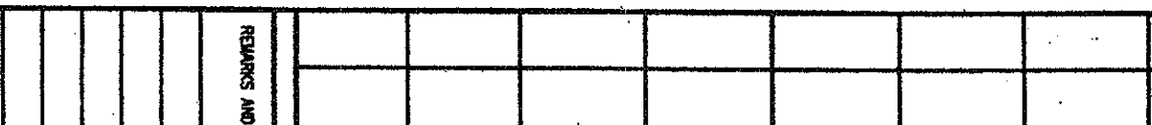
DRILL STEM TESTS

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

REMARKS AND RECOMMENDATIONS

7515

LEGEND



LOG 7710

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases
5" 10" 15" 20" 25"

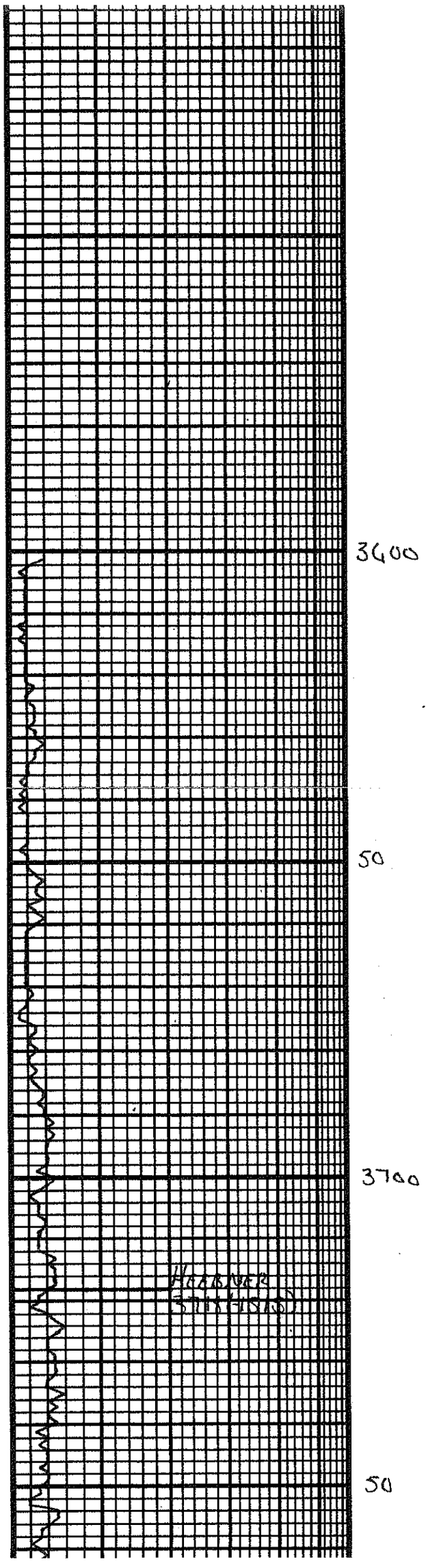
DEPTH

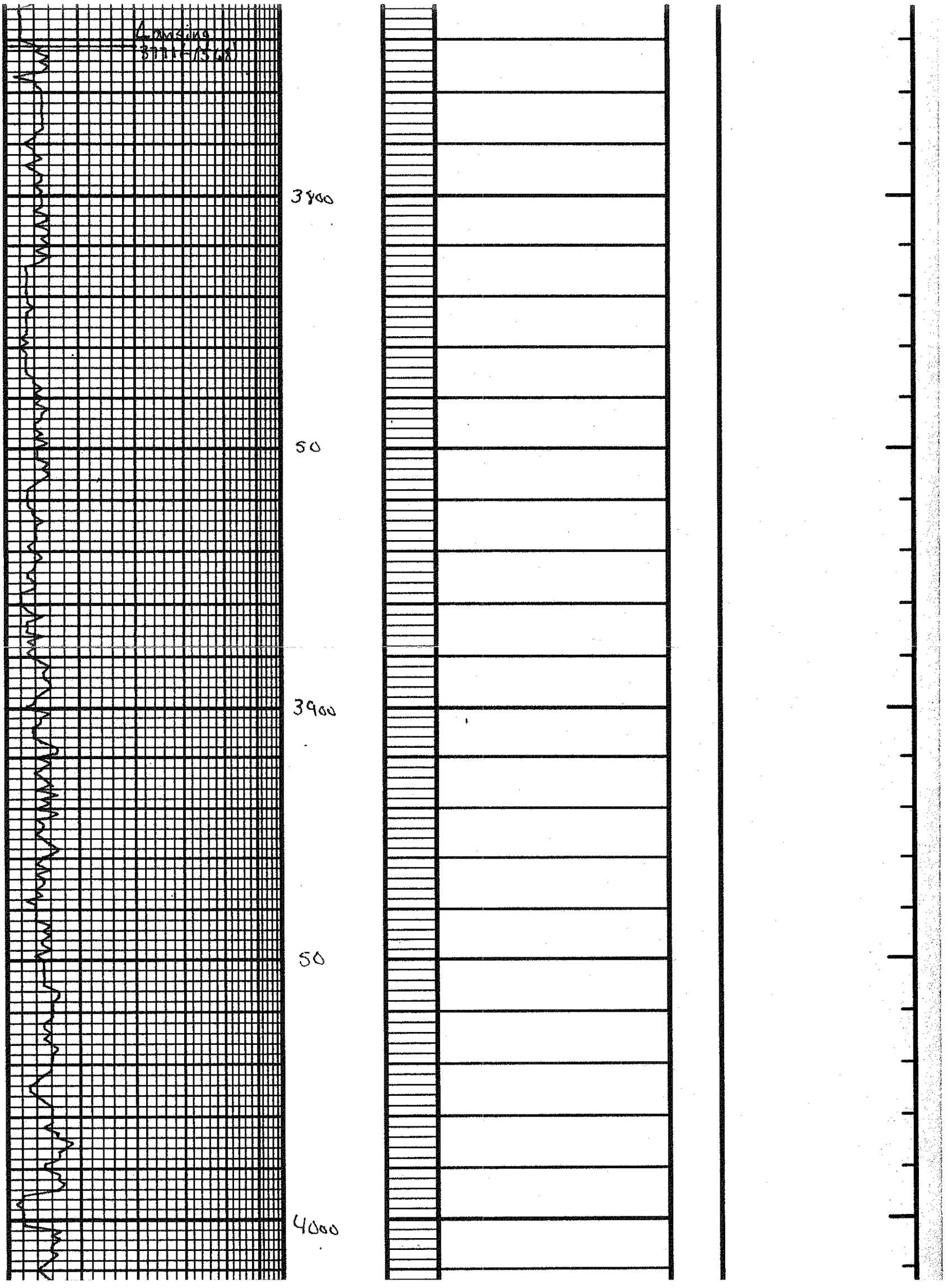
LITHOLOGY

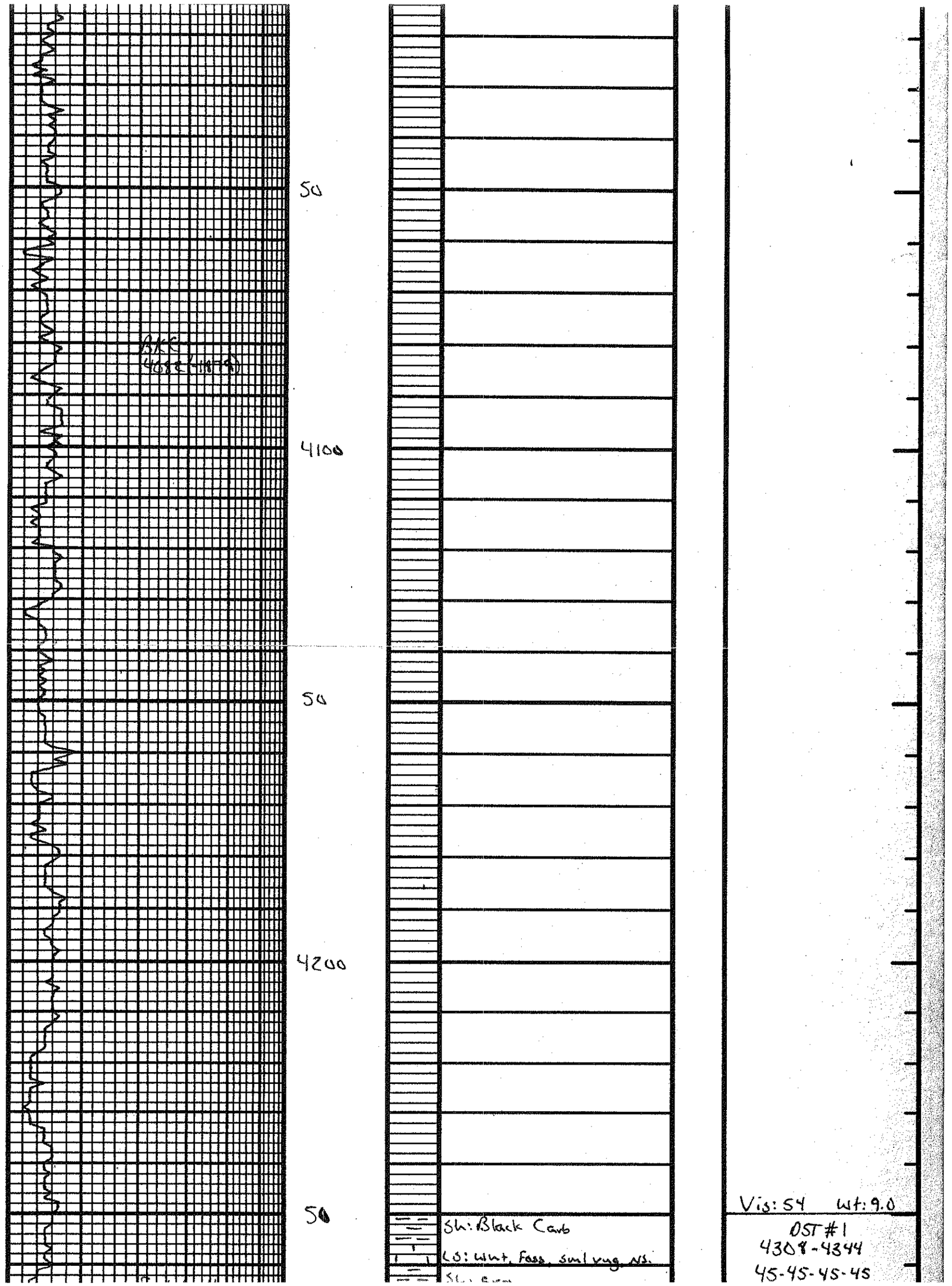
SAMPLE DESCRIPTIONS

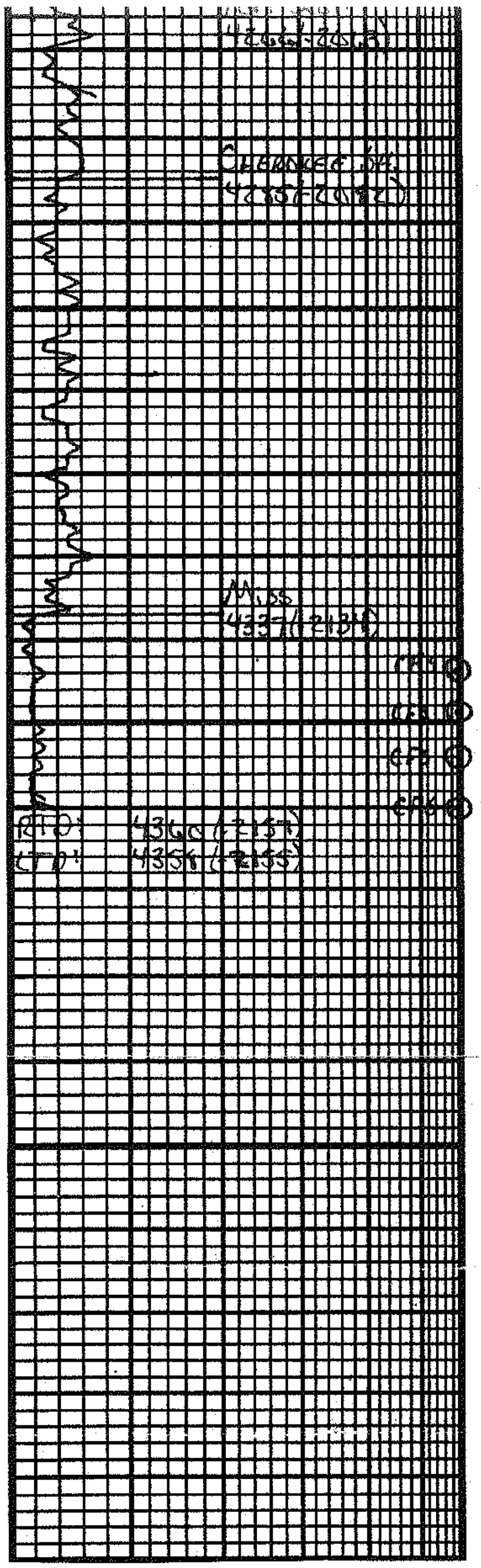
OIL SHOWS

REMARKS


3400
50
3700
HOOSIER
STRATIGRAPH
50


3900
50
3900
50
4000


50
4100
50
4200
50
Sh: Black Carb
LS: Lmst, Foss, sml vug, NS.
Vis: 54 wt: 9.0
DST #1
4308-4344
45-45-45-45



4300

50

Sh: gry
LS: tan-wht, Foss, pr Ø, tite. 1-2 pcs w/ brn stn, NSFO. No od.
Sh: Black Carb
Sh: dark gry
LS: wht-tan, vfn xln, dns, few bml Foss
LS: A/A w/ some tan-brn
Sh: gry-dark gry. Scat yel + org chts.
Cht: wht-lt tan, some fresh, mostly weath. Scat gd pp Ø w/ gd brn stn, some w/ sat spttd SFO. lt-fr od, gd grn-yel Fluor.
Cht: Tan mostly [illegible], fresh, trip. Scat gd weath, pp Ø, intxln, fr brn edge stn, lt od, Scat gd Fluor, Tan dns w/ depth.
Cht: Tan wht-Sk, Smoky in pt. v weath, gd intxln + pp Ø, gd sat stn, fr-gd SFO, lt od, gd Fluor.

·69

DST #1
DST #2
DST #3

I.F. - 6 ½" blow
F.F. - 6" blow
IFP: 20-45
FFP: 46-59
SIP: 1133-995
HP: 2192-2108
Rec:
135' GIP
10' FO
95' HMCO 75%o
BHT: 116°

DST #2
4344-4354
30-30-30-30
IFP: 22-34
FFP: 39-39
SIP: 1211-1186
HP: 2189-2024
Rec:
5' FO
20' OCM 15%o
BHT: 119°

DST #3
4350-4360
45-45-45-45
I.F. - BOB 22 min
F.F. - 4" blow
IFP: 43-65
FFP: 67-95
SIP: 661-759
HP: 2262-2032
Rec:
50' FO
120' MWO 50%o, 25%w
G=34 Chlor=20K
BHT: 120°

[signature]

DRILL STEM TEST REPORT

Downing & Nelson Oil Co.

PO Box 1019
Hays, KS. 67601

ATTN: Marc Downing

Keller Trust #1-20

22-22s-22w-Pawnee

Job Ticket: 43530 **DST#: 1**

Test Start: 2011.06.28 @ 22:00:58

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:54:13
Time Test Ended: 04:55:43

Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 54

Interval: 4308.00 ft (KB) To 4344.00 ft (KB) (TVD)
Total Depth: 4344.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

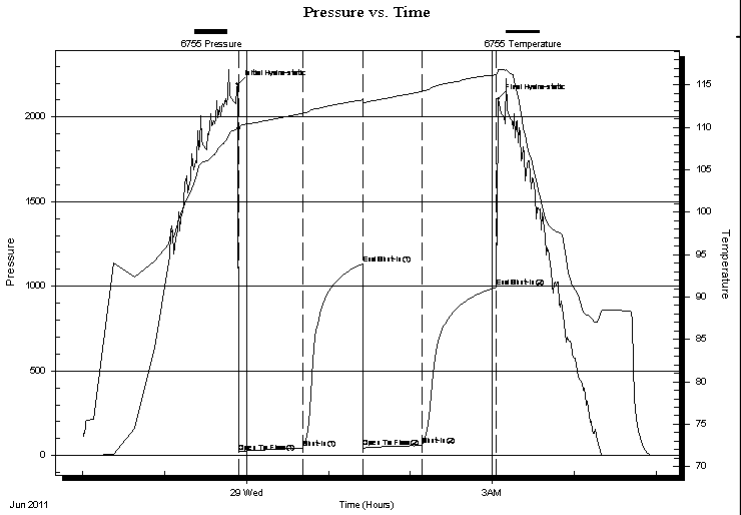
Reference Elevations: 2203.00 ft (KB)
2195.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6755 **Inside**

Press@RunDepth: 59.30 psig @ 4311.00 ft (KB)
Start Date: 2011.06.28 End Date: 2011.06.29
Start Time: 22:01:00 End Time: 04:55:43

Capacity: 8000.00 psig
Last Calib.: 2011.06.29
Time On Btm: 2011.06.28 @ 23:53:43
Time Off Btm: 2011.06.29 @ 03:04:13

TEST COMMENT: IFP-Good Blow , Built to 6-1/2"
ISI-Dead
FFP-Good Blow ,Built to 6"
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.18	110.21	Initial Hydro-static
1	19.74	109.50	Open To Flow (1)
48	45.02	111.67	Shut-In(1)
92	1133.05	113.24	End Shut-In(1)
92	46.46	112.83	Open To Flow (2)
135	59.30	114.26	Shut-In(2)
190	994.66	116.21	End Shut-In(2)
191	2107.62	116.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	HMCO-75%O-25%M	1.05
10.00	Free Oil	0.14

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing & Nelson Oil Co.

PO Box 1019
Hays, KS. 67601

ATTN: Marc Downing

Keller Trust #1-20

22-22s-22w-Pawnee

Job Ticket: 43530 **DST#: 1**

Test Start: 2011.06.28 @ 22:00:58

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	36 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5800.00 ppm				
Filter Cake:	inches				

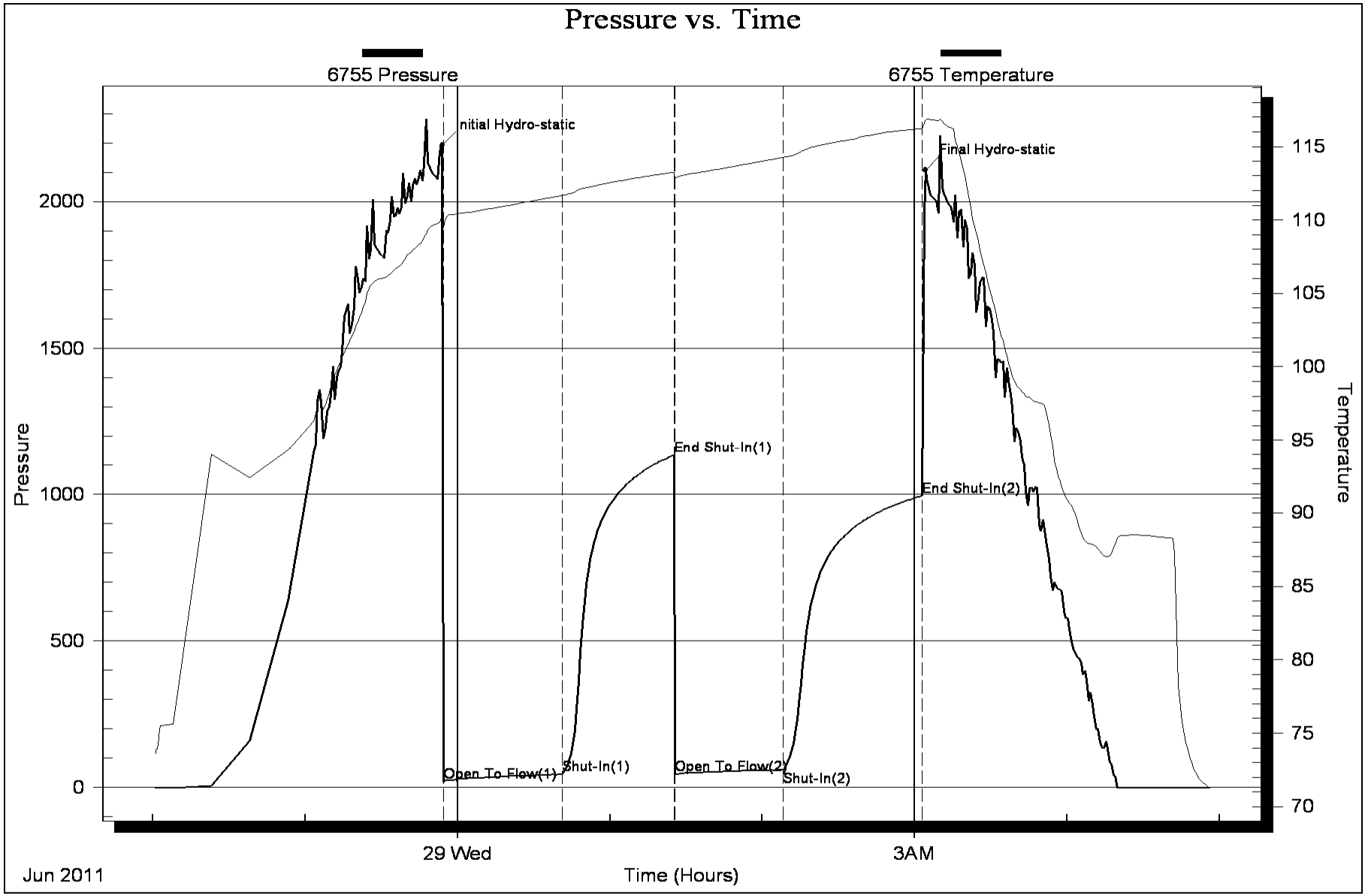
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	HMCO-75%O-25%M	1.050
10.00	Free Oil	0.140

Total Length: 105.00 ft Total Volume: 1.190 bbl

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


Pressure vs. Time
6755 Pressure
6755 Temperature
nitial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
2000
1500
1000
500
0
Pressure
115
110
105
100
95
90
85
80
75
70
Temperature
29 Wed
3AM
Jun 2011
Time (Hours)

DRILL STEM TEST REPORT

Downing & Nelson Oil Co.

PO Box 1019
Hays, KS. 67601

ATTN: Marc Downing

Keller Trust #1-20

22-22s-22w-Pawnee

Job Ticket: 43531 **DST#: 2**

Test Start: 2011.06.29 @ 11:55:40

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:01:10
Time Test Ended: 17:56:40

Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 54

Interval: 4344.00 ft (KB) To 4354.00 ft (KB) (TVD)
Total Depth: 4354.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

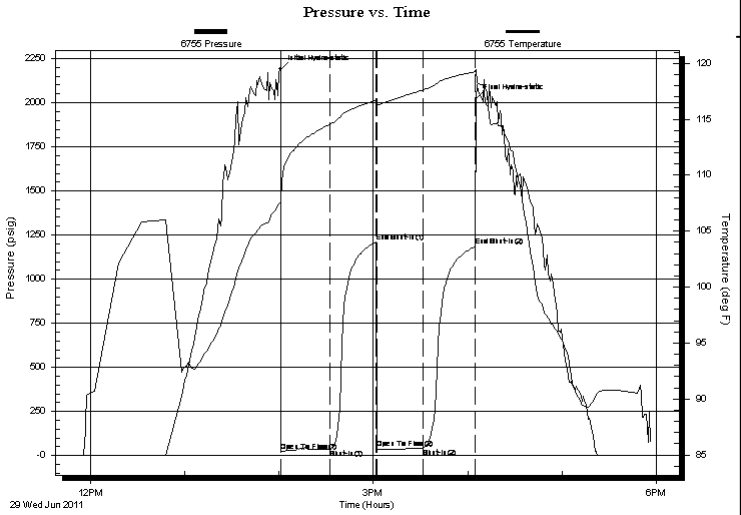
Reference Elevations: 2203.00 ft (KB)
2195.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6755 **Inside**

Press@RunDepth: 39.07 psig @ 4347.00 ft (KB)
Start Date: 2011.06.29 End Date: 2011.06.29
Start Time: 11:55:42 End Time: 17:56:40

Capacity: 8000.00 psig
Last Calib.: 2011.06.29
Time On Btm: 2011.06.29 @ 14:00:55
Time Off Btm: 2011.06.29 @ 16:05:25

TEST COMMENT: IFP-Weak,Built to1-3/4"
ISI-Dead
FFP-Weak,Builtto1-1/2"
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.95	107.60	Initial Hydro-static
1	22.28	107.93	Open To Flow (1)
32	33.80	114.59	Shut-In(1)
61	1211.11	116.70	End Shut-In(1)
62	38.64	116.26	Open To Flow (2)
91	39.07	117.61	Shut-In(2)
124	1186.19	119.26	End Shut-In(2)
125	2023.97	119.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM-15%O-85%M	0.10
5.00	Free Oil	0.02

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing & Nelson Oil Co.

PO Box 1019
Hays, KS. 67601

ATTN: Marc Downing

Keller Trust #1-20

22-22s-22w-Pawnee

Job Ticket: 43531 **DST#: 2**

Test Start: 2011.06.29 @ 11:55:40

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	36 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5800.00 ppm				
Filter Cake:	inches				

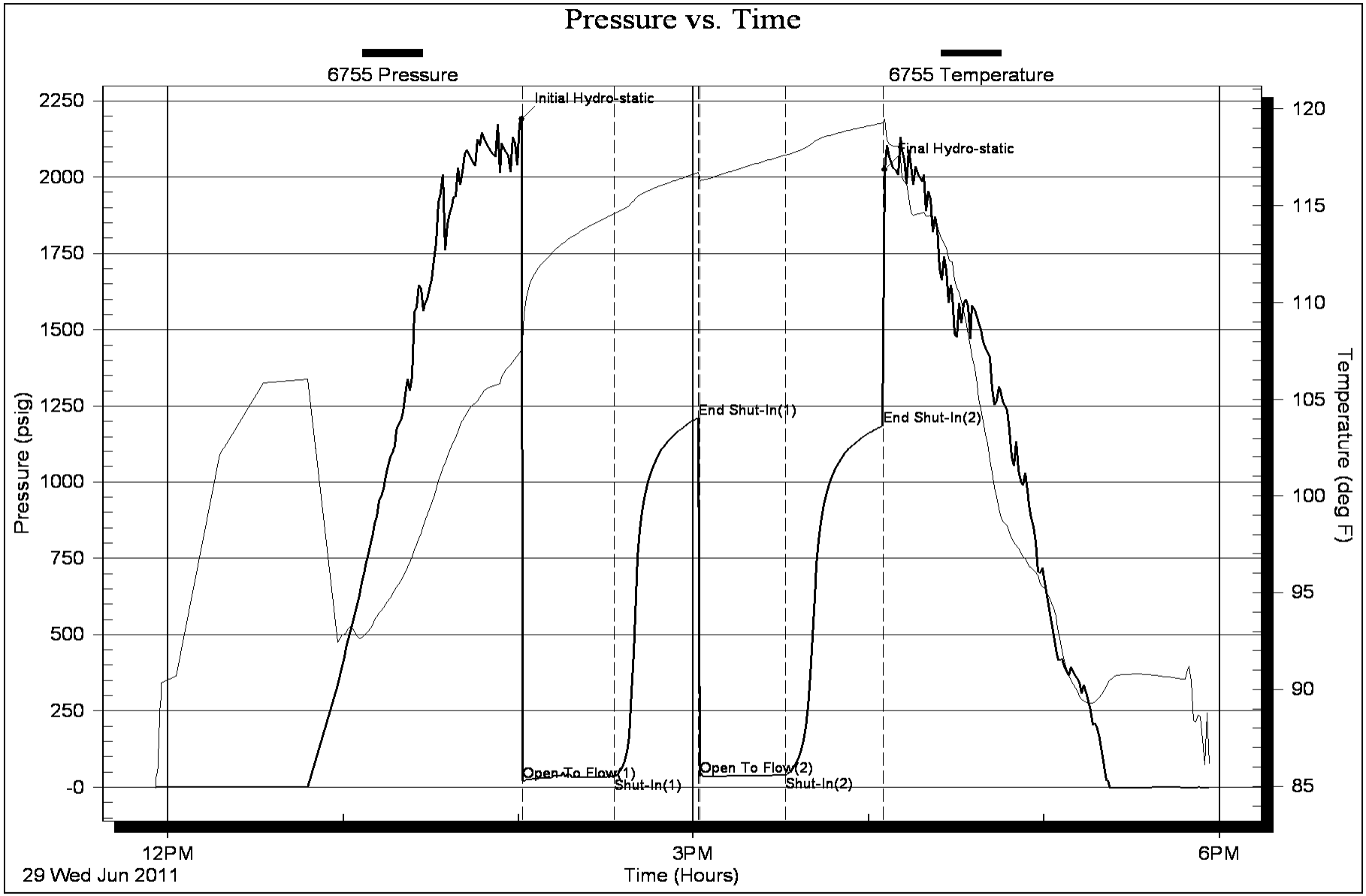
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM-15%O-85%M	0.098
5.00	Free Oil	0.025

Total Length: 25.00 ft Total Volume: 0.123 bbl

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


Pressure vs. Time
6755 Pressure
6755 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
-0
120
115
110
105
100
95
90
85
12PM
3PM
6PM
29 Wed Jun 2011
Time (Hours)

DRILL STEM TEST REPORT

Downing & Nelson Oil Co.

PO Box 1019
Hays, KS. 67601

ATTN: Marc Downing

Keller Trust #1-20

22-22s-22w-Pawnee

Job Ticket: 43532 **DST#: 3**

Test Start: 2011.06.30 @ 00:46:55

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:35:55
Time Test Ended: 07:26:10

Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 54

Interval: 4350.00 ft (KB) To 4360.00 ft (KB) (TVD)
Total Depth: 4360.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

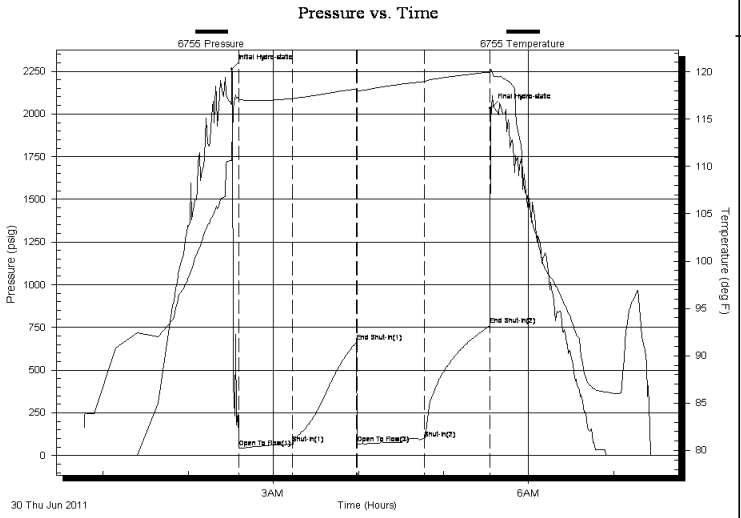
Reference Elevations: 2203.00 ft (KB)
2195.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6755 **Inside**

Press@RunDepth: 95.30 psig @ 4353.00 ft (KB)
Start Date: 2011.06.30 End Date: 2011.06.30
Start Time: 00:46:57 End Time: 07:26:10

Capacity: 8000.00 psig
Last Calib.: 2011.06.30
Time On Btm: 2011.06.30 @ 02:30:55
Time Off Btm: 2011.06.30 @ 05:33:10

TEST COMMENT: IFP-Good Blow,BOB in 22 Min.
ISI-Dead
FFP-Weak Blow, Built to 4"
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.52	112.15	Initial Hydro-static
5	42.99	117.10	Open To Flow(1)
43	65.28	117.17	Shut-In(1)
88	661.24	118.20	End Shut-In(1)
88	67.35	117.94	Open To Flow(2)
136	95.30	118.97	Shut-In(2)
182	758.15	119.97	End Shut-In(2)
183	2031.61	120.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
120.00	HOCMW-50%O-25%W-25%M	1.40
50.00	Free Oil	0.70

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing & Nelson Oil Co.

PO Box 1019
Hays, KS. 67601

ATTN: Marc Downing

Keller Trust #1-20

22-22s-22w-Pawnee

Job Ticket: 43532 **DST#: 3**

Test Start: 2011.06.30 @ 00:46:55

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	36 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	20000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	HOCMW-50%O-25%W-25%M	1.401
50.00	Free Oil	0.701

Total Length: 170.00 ft Total Volume: 2.102 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: