KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1060054

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 #:

06/16/2011	06/22/2011	06/23/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21634-00-00
Spot Description:
NW - SW - SW - NW Sec. 17 Twp. 20 S. R. 20 [ ] East [x] West
2190 Feet from [x] North / [ ] South Line of Section
155 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [x] NW [ ] SE [ ] SW
County: Pawnee
Lease Name: Showalter-Vandenburg Unit Well #: 1-17
Field Name: Browns Grove
Producing Formation: Mississippi
Elevation: Ground: 2220 Kelly Bushing: 2228
Total Depth: 4365 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 474 Feet
Multiple Stage Cementing Collar Used? [x] Yes [ ] No
If yes, show depth set: 1400 Feet
If Alternate II completion, cement circulated from: 1400
feet depth to: 0 w/ 150 sx cmt.

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

Chloride content: 16000 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:** 08/11/2011

Side Two

1060054

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Showalter-Vandenburg Unit Well #: 1-17

Sec. 17 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:

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	474	Commen	250	2% Gel & 3% CC
Production String	7.8750	5.5	14	4355	EA/2	150	

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

TUBING RECORD: Size: 2.3750 Set At: 4312.87 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 07/20/2011

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	42	0	0		

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	Showalter-Vandenburg Unit 1-17
Doc ID	1060054

Tops

Name	Top	Datum
Top Anhydrite	1401	+827
Base	1428	+800
Heebner	3729	-1501
LKC	3778	-1550
BKC	4082	-1854
Fort Scott	4262	-2034
Cherokee Shale	4279	-2050
Cherokee Sand	4323	-2095
Mississippi	4337	-2109
Osage	NA	-2133

SWIFT Services, Inc.

DATE 22 JAN 11 | PAGE NO. 1

NG & NELSON | WELL NO. UNIT 1-17 | LEASE SHOWALTER-VANDERBURG | JOB TYPE 5½ LONGSTRING. | TICKET NO. 20927

PART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	2130							ON LOCATION
	2305							START PIPE 5½ · 14#
								RTD @ 4365 LTD @ 4365
								SHOE JT 20.95'
								CENTRALIZERS 1, 3, 5, 7, 9, 11, 73
								BASKET 73
								DV TOOL ON JT 73 @ 1400'
	0045						1400	SET PACKER SHOE CIRCULATE.
	0107	6	12		✓		500	Pump 500 gal MUD FLUSH
	0109	6	20		✓		500	Pump 20 BBL KCL FLUSH
	0118	4	36		✓		400	MIX 150 SX EA 2
	0132							WASH OUT PUMPING LINES
	0134	6			✓			RELEASE PLUG START DISPLACEMENT
	0151		106		✓		1500	PLUG DOWN PRESSURE UP LATCH PLUG IN.
	0153							RELEASE ~~PRESS~~ PRESSURE - DRY
	0154							DROP DV OPENING TOOL
	0203						1300	OPEN DV TOOL
	0203		20		✓		100	Pump 20 BBL KCL FLUSH
	0207		7.5					PLUG RH/MH (30 SX · 20 SX)
	0215		70		✓		100	MIX 125 SX SMD
	0238							WASH OUT PUMPING LINES.
	0240	6						RELEASE CLOSING PLUG START DISPLACEMENT
	0246		34		✓		1500	PLUG DOWN CLOSE DV TOOL
	0248							RELEASE PRESSURE DRY.
								CIRCULATE CEMENT TO SURFACE
	0251							WASH TRUCK
	0315							JOB COMPLETE.
								THANKS #110
								JASON JEFF JOE

SWIFT Services, Inc.

DATE 22 JAN 11 | PAGE NO. 1

N64 & NELSON	WELL NO. UNIT 1-17	LEASE SHOWALTER-VANDERBURG	JOB TYPE 5½ LONGSTRING.	TICKET NO. 20927

CART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	2130							ON LOCATION
	2305							START PIPE 5½ · 14#
								RTD @ 4365 LTD @ 4365
								SHOE JT 20.95'
								CENTRALIZERS 1, 3, 5, 7, 9, 11, 73
								BASKET 73
								DV TOOL ON JT 73 @ 1400'
	0045						1400	SET PACKER SHOE CIRCULATE.
	0107	6	12		✓		500	PUMP 500 GAL MUD FLUSH
	0109	6	20		✓		500	PUMP 20 BBL KCL FLUSH
	0118	4	36		✓		400	MIX 150 SX EA 2
	0132							WASH OUT PUMPING LINES
	0134	6			✓			RELEASE PLUG START DISPLACEMENT
	0151		106		✓		1500	PLUG DOWN PRESSURE UP LATCH PLUG IN.
	0153							RELEASE ~~PRESS~~ PRESSURE - DRY
	0154							DROP DV OPENING TOOL
	0203						1300	OPEN DV TOOL
	0203		20		✓		100	PUMP 20 BBL KCL FLUSH
	0207		7.5					PLUG RH/MH (30 SX - 20 SX)
	0215		70		✓		100	MIX 125 SX SMD
	0238							WASH OUT PUMPING LINES.
	0240	6						RELEASE CLOSING PLUG START DISPLACEMENT
	0246		34		✓		1500	PLUG DOWN CLOSE DV TOOL
	0248							RELEASE PRESSURE DRY.
								CIRCULATE CEMENT TO SURFACE
	0251							WASH TRUCK
	0315							JOB COMPLETE.
								THANKS #110
								JASON JEFF JOE

ALLIED CEMENTING CO., LLC. 039635

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell KS

DATE 6-17-201	SEC. 17	TWP. 20	RANGE 20	CALLED OUT	ON LOCATION	JOB START 5:00Am	JOB FINISH 5:30Am
LEASE Shoualter VANDENBURG	WELL # 1-17		LOCATION Alexander KS. 11s 1w 1/2 N 1/4E			COUNTY Pawnee	STATE Kansas
OLD OR NEW (Circle one)							

CONTRACTOR Discovery Drlg. Rig #4
TYPE OF JOB
HOLE SIZE 12 1/4 T.D. 475'
CASING SIZE 8 5/8 New DEPTH 474'
TUBING SIZE 23 # csg DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG 20'
PERFS.
DISPLACEMENT 29 /BBL

OWNER

CEMENT
AMOUNT ORDERED 250sx Com. 3%cc 2%Gel

EQUIPMENT

PUMP TRUCK CEMENTER Glenn
417 HELPER Woody
BULK TRUCK
481 DRIVER Ron
BULK TRUCK
DRIVER

COMMON	250	@ 16.25	4062.50
POZMIX		@	
GEL	5	@ 21.25	106.25
CHLORIDE	9	@ 58.20	523.80
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	264	@ 2.25	594.00
MILEAGE	44/sk/p.m.		813.12
		TOTAL	6099.67

REMARKS:

Ran 11 JTS New 23# CSG, Set @ 474'
Recieved Circulation. Cement w/250sx
Com 2+3. Displace 29BBL H2O, Shut
in @ 350#.
Cement Did Circulate
To Surface.

THANKS

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE 1125.00
EXTRA FOOTAGE @
MILEAGE 56 @ 7.00 392.00
MANIFOLD @
56 @ 4.00 224.00
@
TOTAL 1741.00

CHARGE TO: Downing & Nelson Oil
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@
@
@

To Allied Cementing Co., LLC.

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 Shawalter - Vandenberg #1-17

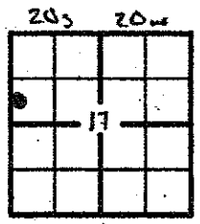
FIELD Browns Grove

LOCATION 2190' FNL & 155' FWL

SEC. 17 TWP. 20s RGE. 20w

COUNTY Pawnee

STATE Kansas



PRODUCTION Miss / Osage

ELEVATION KB 2228
DF
GL 2220

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

OPERATOR DNOC
CONTRACTOR Discovery Drilling, Rig #4
COMM: 6-16-11 COMP: 6-22-11

CASING RECORD

SURF: 8 5/8" @ 473' PROD: 5½" @ 4359'
TOTAL DEPTH DRILLERS: 4345
TOTAL DEPTH LOG 4345

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	1405	1401	+827	+4
Base Anhydrite	1431	1428	+800	+5
Heebner	3729	3729	-1501	FL
Lansing	3778	3778	-1550	+3
BKC	4083	4082	-1854	+5
Ft Scott	4263	4262	-2034	+18
Cherokee Sh.	4279	4279	-2050	+10
Cherokee Sd.	4325	4323	-2095	+18
Miss	4338	4337	-2109	+10
Osage	4361	NA	-2133	NA

REFERENCE WELL FOR STRUCTURE Parrish Oil Co
Dixon #3 NW-NW-SW Sec. 17-20s-20w

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

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS B	LOG ANALYSIS SW

DRILL STEM TESTS

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

REMARKS AND RECOMMENDATIONS

7515

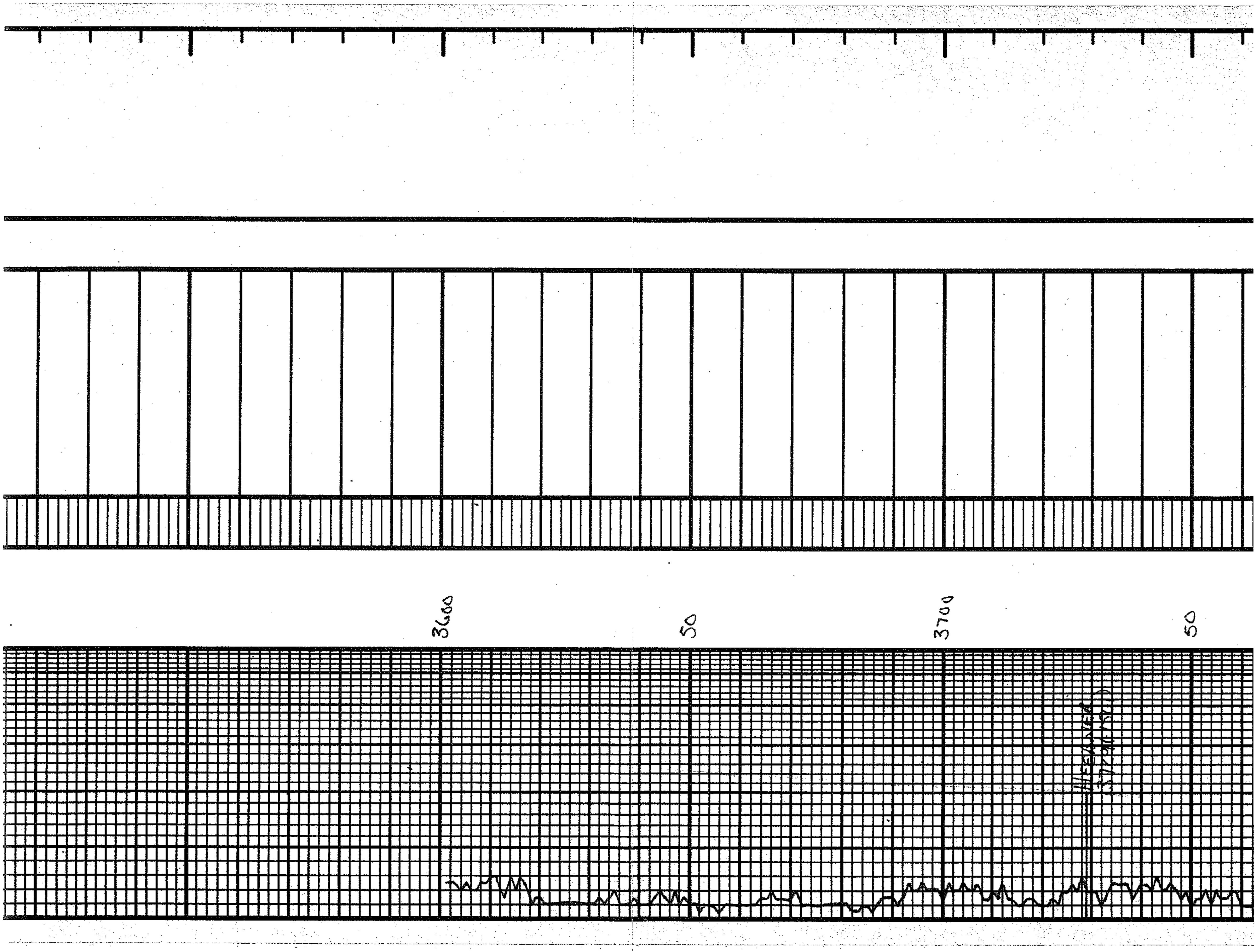
LEGEND

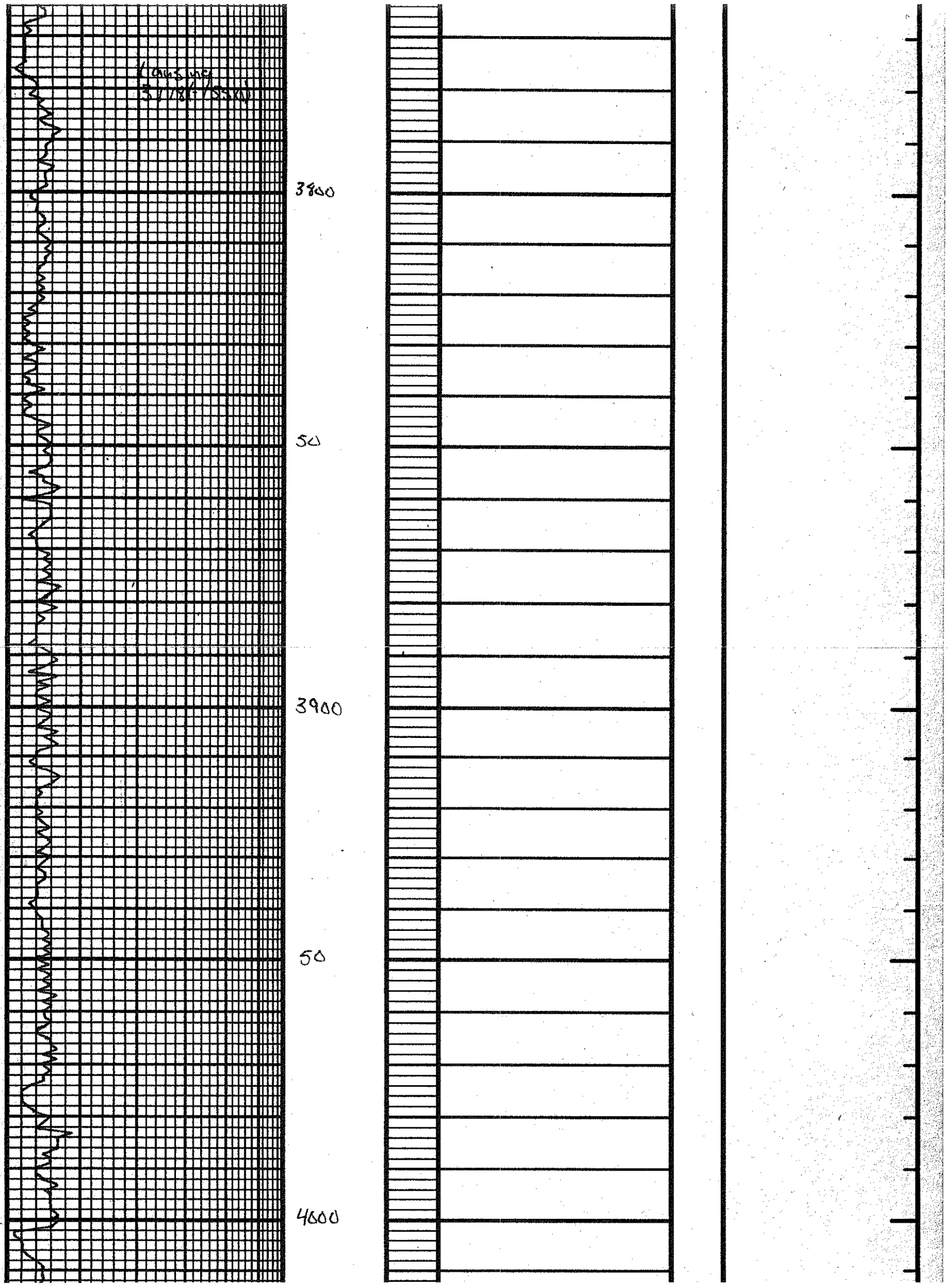
Dolomite
Chert
Ool.Lime
Limestone
Carb sh
Shale
Sandstone
Salt
Anhydrite

REMARKS
OIL SHOWS
SAMPLE DESCRIPTIONS
LITHOLOGY
DEPTH

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

LOG 7710


3600
50
3700
50


3900
50
3900
50
4000

50

4100

50

4200

50

Sh: Black Carb

LS: wht, fn xln, dns

Sh: gry

LS: wht, fn xln, pr-fr oocps, NS

Sh: gry

LS: wht - tan, fn-md xln, v dns, No vis ϕ

Sh: dark gry

LS: wht, fn-md xln, v dns

Sh: dark gry blk

Sh: gry wl some lt gry

LS: tan, fn-md xln, dolom in part wl sml foss

Sh: gry

LS: Mostly AlA, scat sml foss, dns

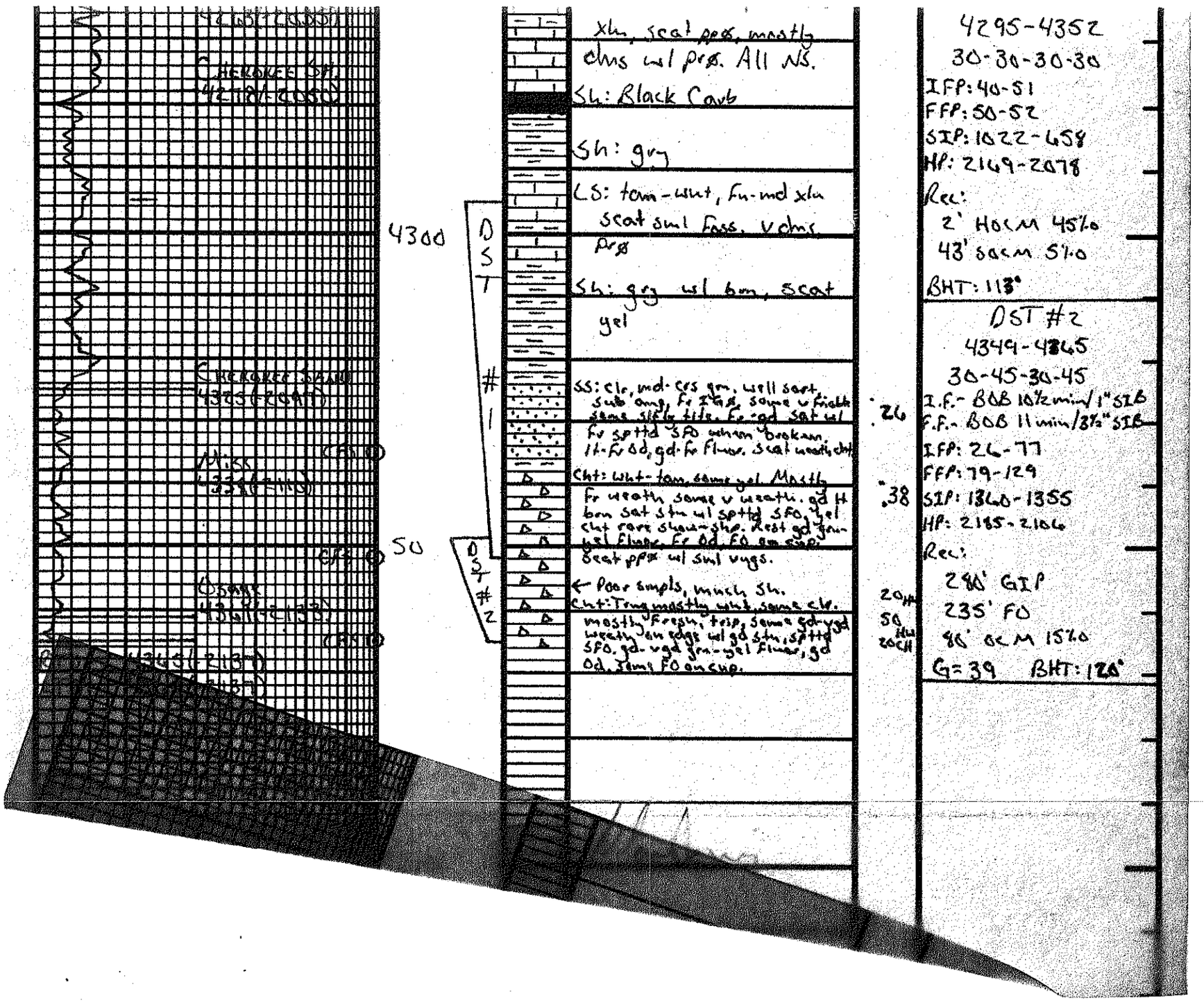
Sh: Black

Sh: mach blk wl dark gry

Sh: dark gry - blk

Sh: gry

DST #1


4300
DST #1
DST #2
50
xln, scat pp⊗, mostly
chns w/ pp⊗. All NS.
Sh: Black Carb
Sh: gry
LS: tan-wht, fn-md xln
scat sml foss. v chns,
pp⊗
Sh: gry w/ brn, scat
gel
SS: clr, md-crs grn, well sort,
sub ang, fr ⊗, some v friable
some slty, tite, fr-gd sat w/
fr spttd SFO when broken
lt-fr od, gd-fr fluor. Scat wxthy cht
Cht: wht-tan, some gel. Mostly
fr wxth some v wxthy. gd H
brn sat stn w/ spttd SFO, yel
cht rare sl⊗-shp. Rest gd tan
gel fluor, fr od, FO on cup.
Scat pp⊗ w/ sml vugs.
← Poor smpls, much Sh.
Cht: Tr⊗ mostly wht, some clr.
mostly fr⊗sh, trsp, some gd-vgd
wxthy tan edge w/ gd stn, spttg
SFO. gd-vgd grn-yel fluor, gd
od, Tr⊗ FO on cup.
.26
.38
20#
50
20CH
4295-4352
30-30-30-30
IFP: 40-51
FFP: 50-52
SIP: 1022-458
HP: 2169-2078
Rec:
2' HOCM 45%
43' SOCM 5%
BHT: 113°
DST #2
4349-4845
30-45-30-45
I.F.- BOB 10½ min/1" SIB
F.F.- BOB 11 min/3½" SIB
IFP: 26-77
FFP: 79-129
SIP: 1360-1355
HP: 2185-2106
Rec:
280' GIP
235' FO
80' OCM 15%
G=39 BHT: 120°

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

PO Box 1019
Hays, Ks
67601
ATTN: Marc Downing

Showalter-Vandenburg Unit 1-17

17-20-20 Pawnee, Ks

Job Ticket: 43411 **DST#: 1**

Test Start: 2011.06.21 @ 14:10:31

GENERAL INFORMATION:

Formation: **miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:30:31
Time Test Ended: 20:10:01

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: 4295.00 ft (KB) To 4352.00 ft (KB) (TVD)
Total Depth: 4352.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

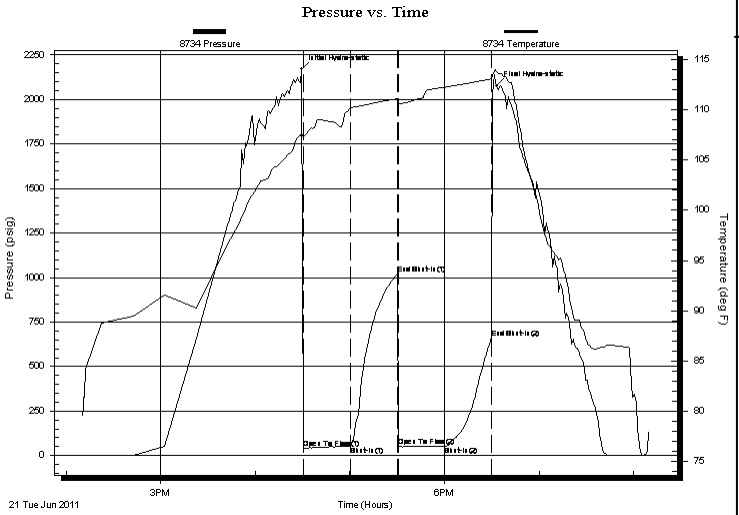
Reference Elevations: 2228.00 ft (KB)
2221.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 52.25 psig @ 4302.00 ft (KB)
Start Date: 2011.06.21 End Date: 2011.06.21
Start Time: 14:10:32 End Time: 20:10:01

Capacity: 8000.00 psig
Last Calib.: 2011.06.21
Time On Btm: 2011.06.21 @ 16:29:31
Time Off Btm: 2011.06.21 @ 18:33:01

TEST COMMENT: IFP - 1/2" dying blow throughout
ISI - no blow back
FFP - no blow 4 min - sur blow throughout
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.39	107.61	Initial Hydro-static
1	39.59	107.24	Open To Flow (1)
31	50.53	110.19	Shut-In(1)
61	1021.55	111.07	End Shut-In(1)
62	49.67	110.62	Open To Flow (2)
91	52.25	112.20	Shut-In(2)
121	657.83	113.05	End Shut-In(2)
124	2077.87	113.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
43.00	SOCM 5%O, 95%M	0.32
2.00	HOCM 45%O, 55%M	0.03

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

PO Box 1019
Hays, Ks
67601

ATTN: Marc Downing

Showalter-Vandenburg Unit 1-17

17-20-20 Pawnee, Ks

Job Ticket: 43411 **DST#: 1**

Test Start: 2011.06.21 @ 14:10:31

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:	61.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	inches				

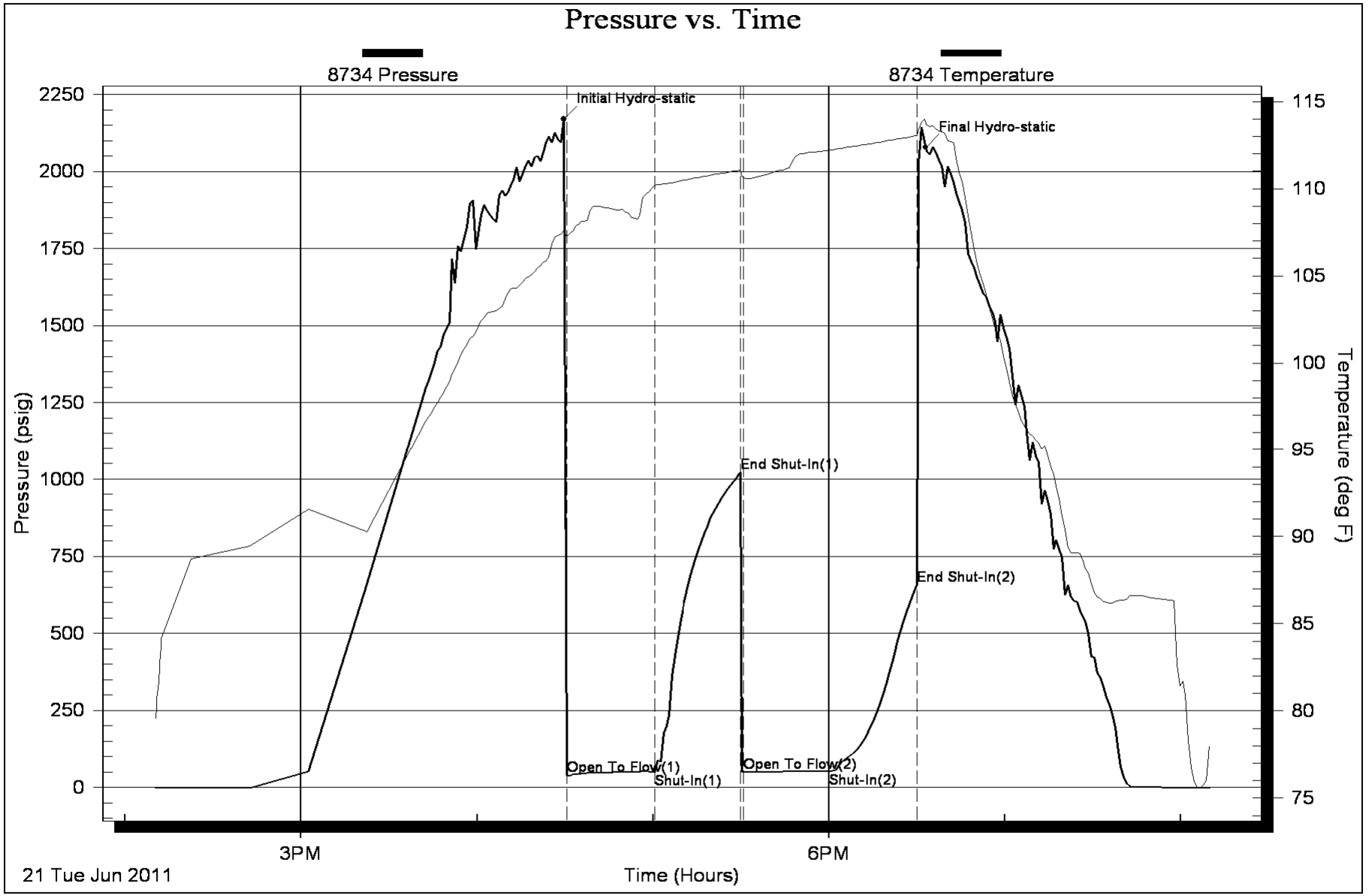
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
43.00	SOCM 5%O, 95%M	0.321
2.00	HOCM 45%O, 55%M	0.028

Total Length: 45.00 ft Total Volume: 0.349 bbl

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


Pressure vs. Time
8734 Pressure
8734 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)
Time (Hours)
3PM
6PM
21 Tue Jun 2011
2250
2000
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
75

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

PO Box 1019
Hays, Ks
67601
ATTN: Marc Downing

Showalter-Vandenburg Unit 1-17

17-20-20 Pawnee, Ks

Job Ticket: 43412 **DST#: 2**

Test Start: 2011.06.22 @ 02:26:03

GENERAL INFORMATION:

Formation: **Osage**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:18:33
Time Test Ended: 08:36:03

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: 4349.00 ft (KB) To 4365.00 ft (KB) (TVD)
Total Depth: 4365.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

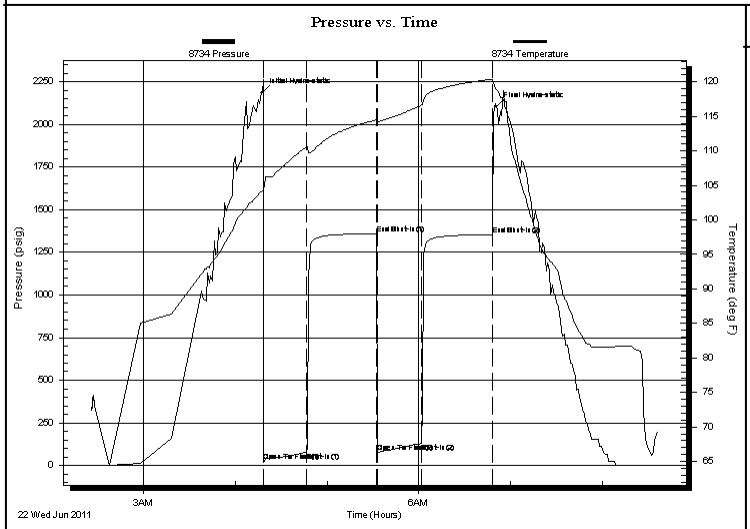
Reference Elevations: 2228.00 ft (KB)
2221.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 129.14 psig @ 4352.00 ft (KB)
Start Date: 2011.06.22 End Date: 2011.06.22
Start Time: 02:26:04 End Time: 08:36:03

Capacity: 8000.00 psig
Last Calib.: 2011.06.22
Time On Btm: 2011.06.22 @ 04:17:33
Time Off Btm: 2011.06.22 @ 06:50:33

TEST COMMENT: IFP - BOB 10 1/2 min
ISI - 1" blow back - died 12 min
FFP - BOB 11 min
FSI - 3 1/2" blow back- died 29 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.67	104.25	Initial Hydro-static
1	25.52	104.42	Open To Flow (1)
29	76.94	110.52	Shut-In(1)
75	1360.16	114.47	End Shut-In(1)
76	79.32	114.11	Open To Flow (2)
104	129.14	116.64	Shut-In(2)
151	1355.08	120.37	End Shut-In(2)
153	2105.50	118.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	OCM 15%O, 85%M	0.84
235.00	FREE OIL 95%O, 5%M	3.30
0.00	280' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

PO Box 1019
Hays, Ks
67601

ATTN: Marc Downing

Showalter-Vandenburg Unit 1-17

17-20-20 Pawnee, Ks

Job Ticket: 43412 **DST#: 2**

Test Start: 2011.06.22 @ 02:26:03

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	39 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	61.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	inches				

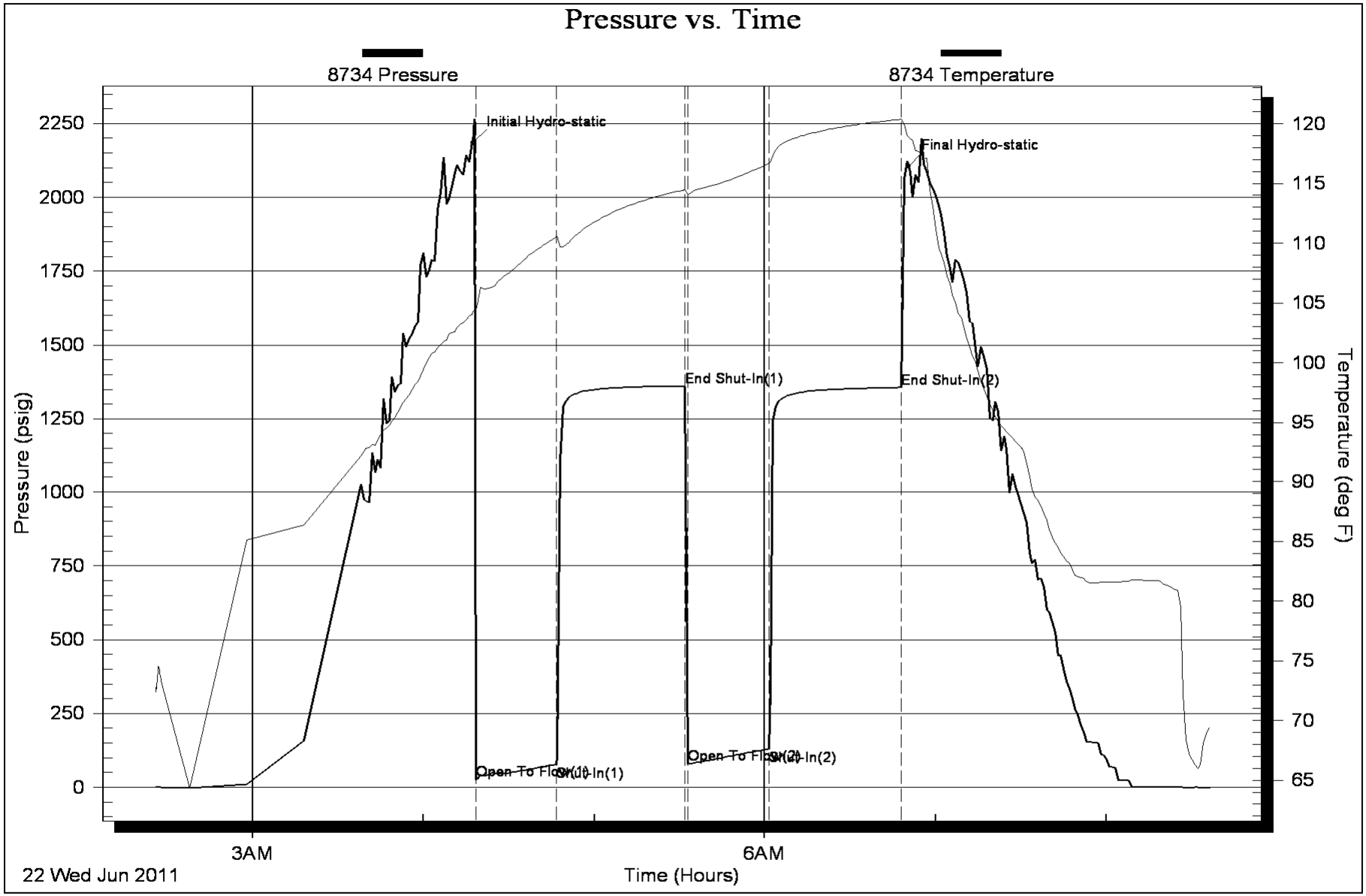
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	OCM 15%O, 85%M	0.840
235.00	FREE OIL 95%O, 5%M	3.296
0.00	280' GIP	0.000

Total Length: 315.00 ft Total Volume: 4.136 bbl

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


Pressure vs. Time
8734 Pressure
8734 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
80
75
70
65
3AM
6AM
22 Wed Jun 2011
Time (Hours)