KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1066351

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:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☑ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Conv. to GSW
☐ Plug Back: Plug Back Total Depth
☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

09/29/2011 — Spud Date or Recompletion Date
10/04/2011 — Date Reached TD
10/05/2011 — Completion Date or Recompletion Date

API No. 15 - 15-051-26180-00-00
Spot Description:
NW - SE - SW - NW Sec. 13 Twp. 14 S. R. 19 ☐ East ☑ West
2005 Feet from ☑ North / ☐ South Line of Section
795 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
County: Ellis
Lease Name: Johnson Well #: 2-13
Field Name:
Producing Formation: None
Elevation: Ground: 2151 Kelly Bushing: 2159
Total Depth: 3830 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 223 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ 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: 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:
☑ Wireline Log Received
☑ Geologist Report Received
☐ UIC Distribution
ALT ☐ I ☑ II ☐ III Approved by: Deanna Garrisor Date: 11/01/2011

Side Two

1066351

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Johnson Well #: 2-13

Sec. 13 Twp. 14 S. R. 19 ☐ East ☑ West County: Ellis

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☑ 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
Top Anhydrite	1424'	+736
Base Anhydrite	1466'	+694
Topeka	3172'	-1012
Heebner	3419'	-1259
Toronto	3438'	-1278
LKC	3439'	-1304
BKC	3697'	-1537

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	8.0625	23	222.98	Common	150	2% Gel & 3% CC

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: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

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	Johnson 2-13
Doc ID	1066351

All Electric Logs Run

Compensated Neutron / Debsity
Dual Induction
Micro
Sonic

ALLIED CEMENTING CO., LLC. 037371

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Great Bend KS

DATE 9-29-11	SEC. 13	TWP. 14	RANGE 19	CALLED OUT	ON LOCATION	JOB START 6:30pm	JOB FINISH 7:00pm
LEASE Johnson	WELL # 2-13	LOCATION Hays KS 1½ miles south 4 west				COUNTY Ellis	STATE KS
OLD OR NEW (Circle one)		½ south East into					

CONTRACTOR Discovery Rig #4
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 223
CASING SIZE 8⅝ DEPTH 225
TUBING SIZE DEPTH
DRILL PIPE 4½ DEPTH 223
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15ft
PERFS.
DISPLACEMENT Freshwater

OWNER Downing Nelson

CEMENT
AMOUNT ORDERED 150 sx Com 3%cc 2%gel

EQUIPMENT

PUMP TRUCK # 398 CEMENTER Bob G.
HELPER Shane K.
BULK TRUCK # 341 DRIVER Doug
BULK TRUCK # DRIVER

COMMON	150	@ 16.25	2437.50
POZMIX		@	
GEL	3	@ 21.25	63.75
CHLORIDE	5	@ 58.20	291.00
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	158	@ 2.25	355.50
MILEAGE	158 x 5 x .11		86.90
		TOTAL	3234.90

REMARKS:

Pipe on bottom break circulation with Rig pmp. Mix 150 sx Com 3%cc 2%gel. Displace with 13.25 bbl fresh water and shut in. Cement did Circulate

SERVICE

DEPTH OF JOB 225
PUMP TRUCK CHARGE 1125.00
EXTRA FOOTAGE @
MILEAGE Hum 10 @ 7.00 70.00
MANIFOLD @
hum 10 @ 4.00 40.00
@
TOTAL 1235.00

CHARGE TO: Downing Nelson
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@
@
@
@
@
@
TOTAL

To Allied Cementing Co., 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)
TOTAL CHARGES 4469.65
DISCOUNT 20% 893.93 IF PAID IN 30 DAYS
3575.72

PRINTED NAME
SIGNATURE

Thank you!

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No. 5181**

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-5-11	13	14	19	Ellis	Ks		8:30AM

Lease Johnson Well No. 2-13 Location Hays, Ks - 1½S to Spring Hill Rd, 4W to 210th Rd, ½S, E/S

Contractor Discovery #4 Owner

Type Job Plug

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 7 7/8" T.D. 3830'

Csg. Depth

Charge To Downing - Nelson

Tbg. Size 4½" D.P. Depth 1450'

Street

Tool Depth

City State

Cement Left in Csg. Shoe Joint

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

Meas Line Displace H20

Cement Amount Ordered 220 sx 60/40 4% Gel ¼# Flo-seal

EQUIPMENT

Pumptrk 1 No. Cementer Helper Cisco

Bulktrk 3 No. Driver Driver Doug

~~Bulktrk~~ P.U. No. Driver Driver Rick

JOB SERVICES & REMARKS

Remarks: Cement did Circulate.

Rat Hole 30 sx

Mouse Hole 15 sx

Centralizers

Baskets

D/V or Port Collar

1450' - 25 sx

720' - 100 sx

275' - 40 sx

40' - 10 sx w/ plug

Rathole - 30 sx

Mousehole - 15 sx

220 sx 60/40 4% Gel ¼# Flo-seal

Common	132
Poz. Mix	88
Gel.	8
Calcium	
Hulls	
Salt	
Flowseal	55 #
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	228
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1 - Dry hole plug
Pumptrk Charge	plug
Mileage	6
Tax	
Discount	
Total Charge	

X Signature

DRILL STEM TEST REPORT

DOWNING & NELSON OIL CO INC

PO BOX 1019
HAYS KS 67601

ATTN: MARC DOWNING

13-14S-19W ELLIS

JOHNSON # 2-13

Job Ticket: 44372 **DST#: 1**

Test Start: 2011.10.03 @ 07:30:00

GENERAL INFORMATION:

Formation: **LKC "C&D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:10:40
Time Test Ended: 13:35:20

Test Type: Conventional Bottom Hole (Initial)
Tester: RANDY WILLIAMS
Unit No: 37

Interval: 3477.00 ft (KB) To 3524.00 ft (KB) (TVD)
Total Depth: 3524.00 ft (KB) (TVD)
Hole Diameter: 6.78 inches Hole Condition: Fair

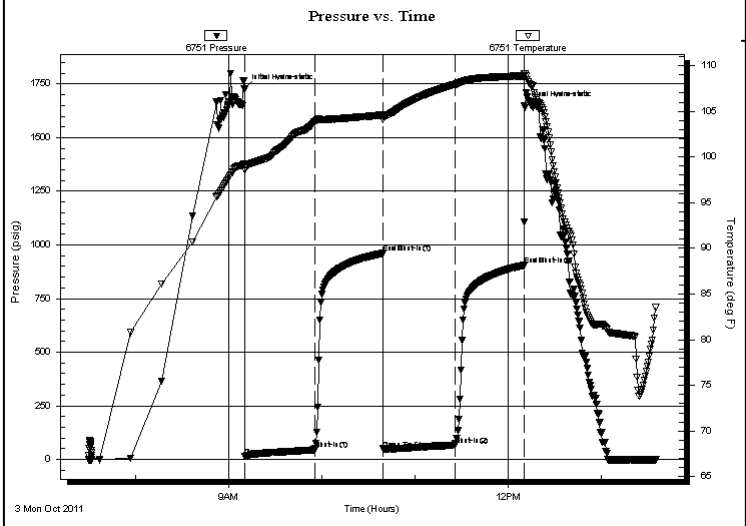
Reference Elevations: 2159.00 ft (KB)
2151.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6751 **Outside**

Press@RunDepth: 67.88 psig @ 3478.00 ft (KB)
Start Date: 2011.10.03 End Date: 2011.10.03
Start Time: 07:30:02 End Time: 13:35:20

Capacity: 8000.00 psig
Last Calib.: 2011.10.03
Time On Btm: 2011.10.03 @ 09:10:30
Time Off Btm: 2011.10.03 @ 12:10:20

TEST COMMENT: IF=45, WBB BUILT TO 6 INCH'S
ISI=45=, NBB
FF=45, WBB BUILT TO 5 INCH'S
FSI=45, NBB



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.18	99.27	Initial Hydro-static
1	13.27	98.59	Open To Flow (1)
45	45.31	103.84	Shut-In(1)
89	961.02	104.61	End Shut-In(1)
89	48.83	104.11	Open To Flow (2)
136	67.88	107.93	Shut-In(2)
180	905.22	108.87	End Shut-In(2)
180	1649.75	109.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MCW, 20% MUD, 80% WATER	1.82

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

13-14S-19W ELLIS

JOHNSON # 2-13

Job Ticket: 44372 **DST#: 1**

Test Start: 2011.10.03 @ 07:30:00

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:	39000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MCW, 20% MUD, 80% WATER	1.822

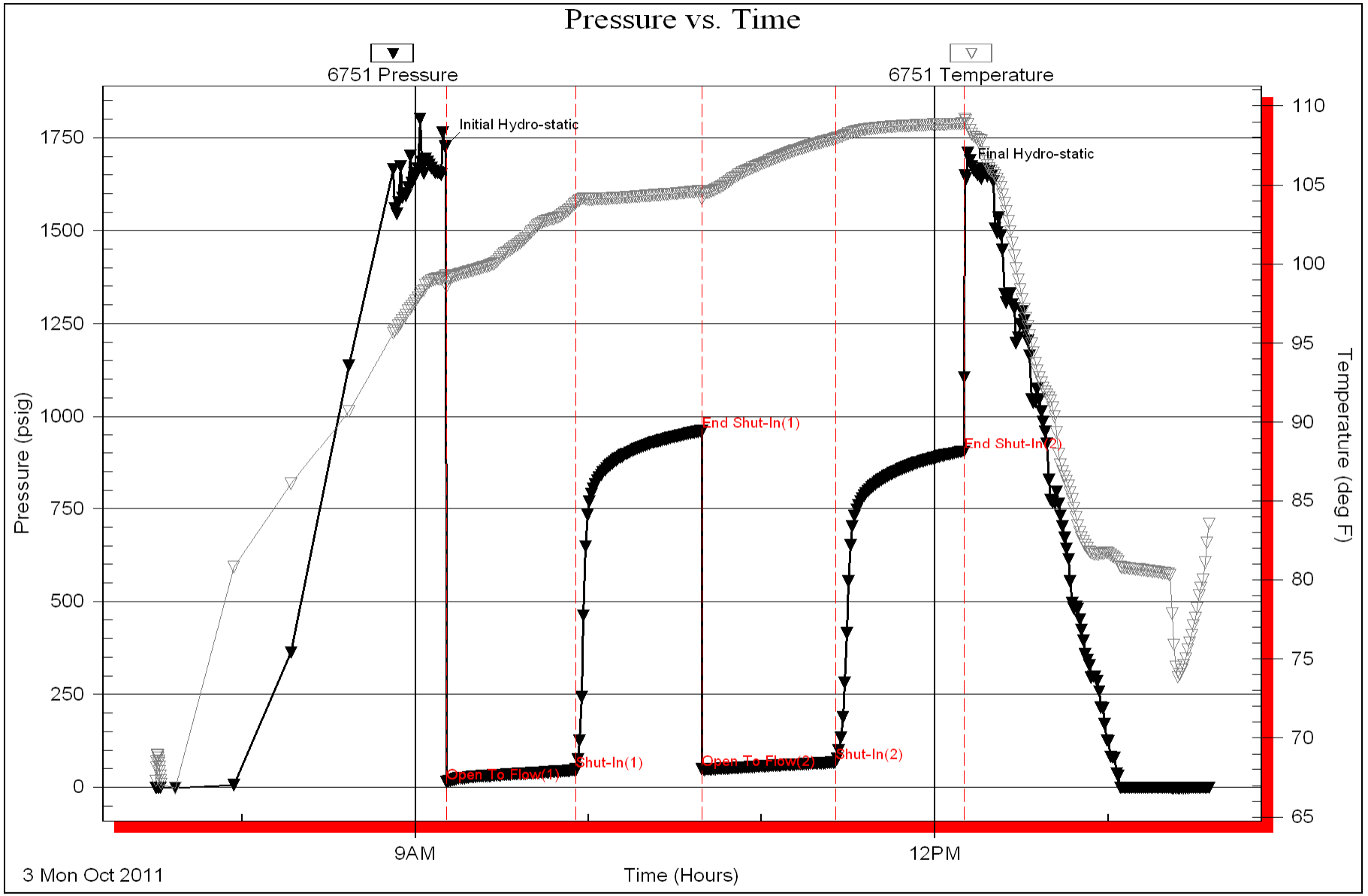
Total Length: 150.00 ft Total Volume: 1.822 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: CHLORIDES= .077 @ 87F= 39,000

Serial #: 6751 **Outside** DOWNING & NELSON OIL CO INC JOHNSON # 2-13 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 44372 Printed: 2011.10.03 @ 17:03:51

DRILL STEM TEST REPORT

DOWNING & NELSON OIL CO INC

PO BOX 1019
HAYS KS 67601

ATTN: MARC DOWNING

13-14S-19W ELLIS

JOHNSON # 2-13

Job Ticket: 44373 **DST#: 2**

Test Start: 2011.10.04 @ 09:30:00

GENERAL INFORMATION:

Formation: **COMGLOMERATE**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:16:20
Time Test Ended: 14:47:20

Test Type: Conventional Bottom Hole (Initial)
Tester: RANDY WILLIAMS
Unit No: 37

Interval: 3742.00 ft (KB) To 3778.00 ft (KB) (TVD)
Total Depth: 3778.00 ft (KB) (TVD)
Hole Diameter: 6.78 inches Hole Condition: Fair

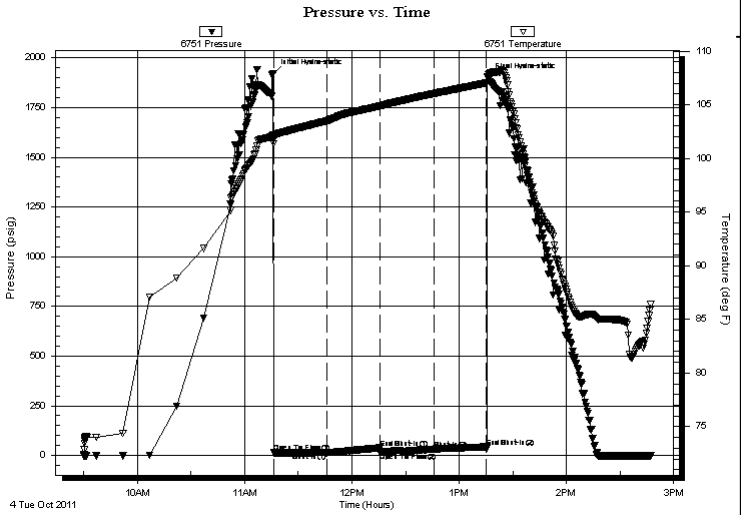
Reference Elevations: 2159.00 ft (KB)
2151.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6751 **Outside**

Press@RunDepth: 32.23 psig @ 3744.00 ft (KB)
Start Date: 2011.10.04 End Date: 2011.10.04
Start Time: 09:30:02 End Time: 14:47:20

Capacity: 8000.00 psig
Last Calib.: 2011.10.04
Time On Btm: 2011.10.04 @ 11:16:10
Time Off Btm: 2011.10.04 @ 13:15:50

TEST COMMENT: IF=30, WSB, DIED 15 MIN'S INTO FLOW
ISI=30, NBB
FF=30, NB
FSI=30, NBB



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1922.92	102.23	Initial Hydro-static
1	13.80	101.34	Open To Flow (1)
30	14.16	103.49	Shut-In(1)
60	37.71	104.87	End Shut-In(1)
60	15.31	104.86	Open To Flow (2)
90	32.23	106.03	Shut-In(2)
120	43.90	107.02	End Shut-In(2)
120	1900.18	107.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	MUD	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

13-14S-19W ELLIS

JOHNSON # 2-13

Job Ticket: 44373 **DST#: 2**

Test Start: 2011.10.04 @ 09:30:00

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:	62.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.37 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	12000.00 ppm				
Filter Cake:	1.50 inches				

Recovery Information

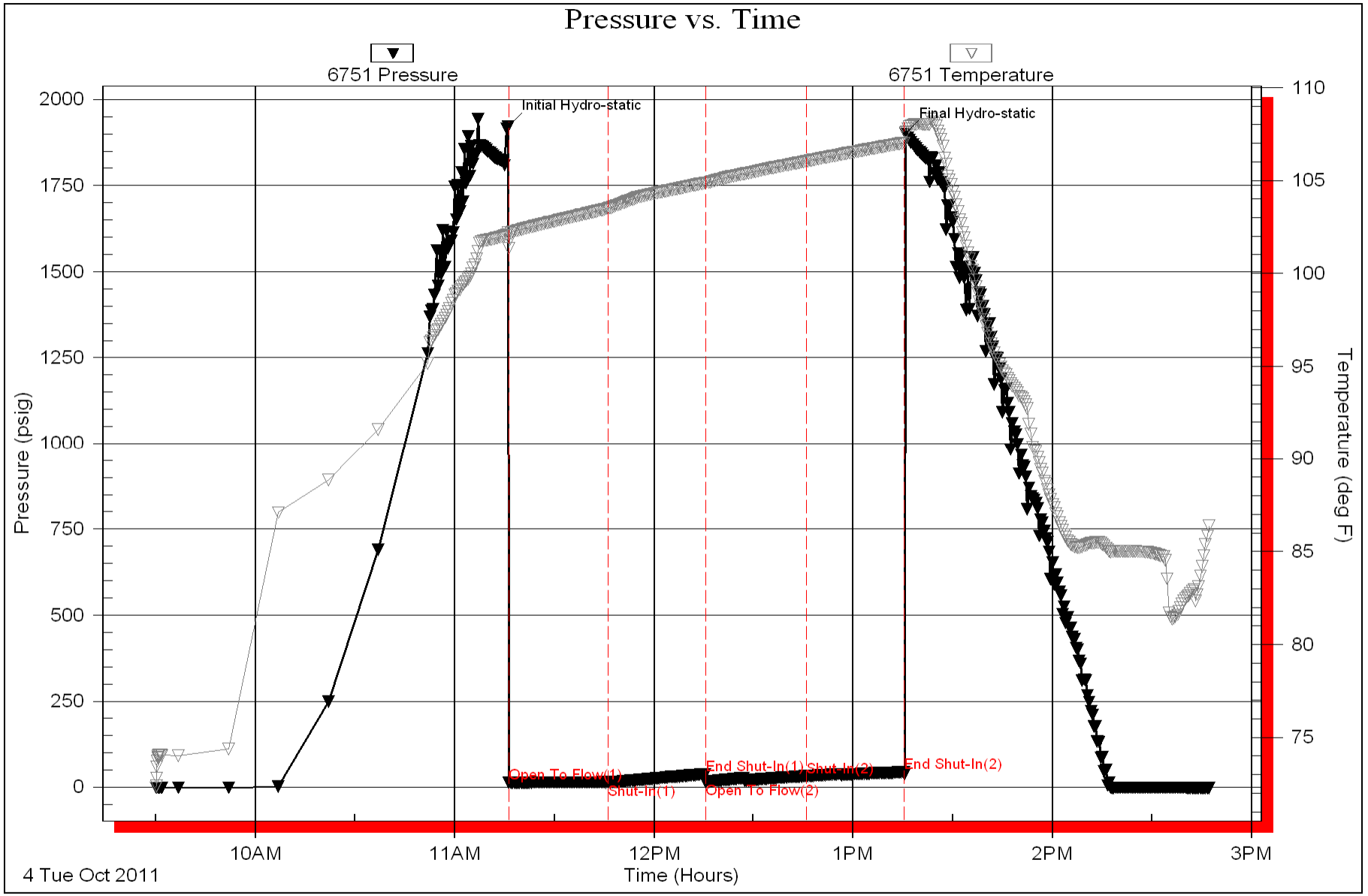
Recovery Table

Length ft	Description	Volume bbl
1.00	MUD	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Serial #: 6751 **Outside** DOWNING & NELSON OIL CO INC JOHNSON # 2-13 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 44373 Printed: 2011.10.04 @ 15:21:24

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 Johnson #2-13

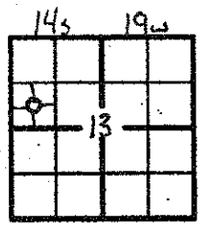
FIELD Wildcat

LOCATION 2005' FNL & 795' FWL

SEC. 13 TWP. 14s RGE. 19w

COUNTY Ellis

STATE Kansas



PRODUCTION D & A

ELEVATION KB 2160
DF
GL 2152

Drilling Measured From: KB

Samples Saved From 3150 To: TD

Drilling Time From 3000 To: TD

Samples Examined From: 3150 To: TD

Geological Supervision From 3000 To Total Depth

Wellsite Geologist Marc Downing

Electrical Surveys Superior
CNL/CDL
DIL
MEL

OPERATOR DNOCI

CONTRACTOR Discovery Drilling, Rig #4

COMM: COMP: 10-9-11

CASING RECORD

SURF: 8⅝" @ 220' PROD: None

TOTAL DEPTH DRILLERS: 3830

TOTAL DEPTH LOG 3830

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	NA	1424	+736	-8
Base Anhydrite	NA	1466	+694	-10
Topeka	3174	3172	-1012	-7
HEEBNER	3419	3419	-1259	-6
Toronto	3439	3439	-1279	-5
LKC	3466	3464	-1304	-4
BKC	3698	3697	-1537	-7
Arbuckle	Not Reached			-69

REFERENCE WELL FOR STRUCTURE DNOCI
Johnson #1-13 336' FNL & 1515' FWL Sec. 13-14s-19w

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

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS S	W

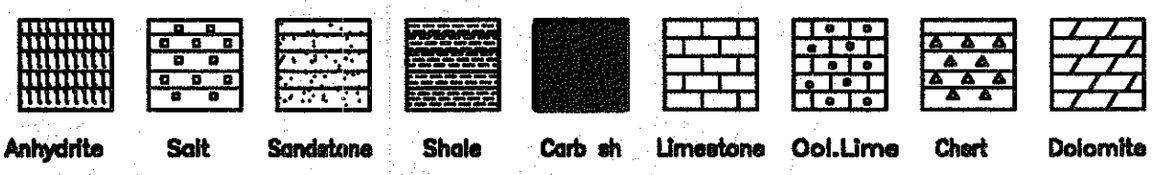
DRILL STEM TESTS

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"

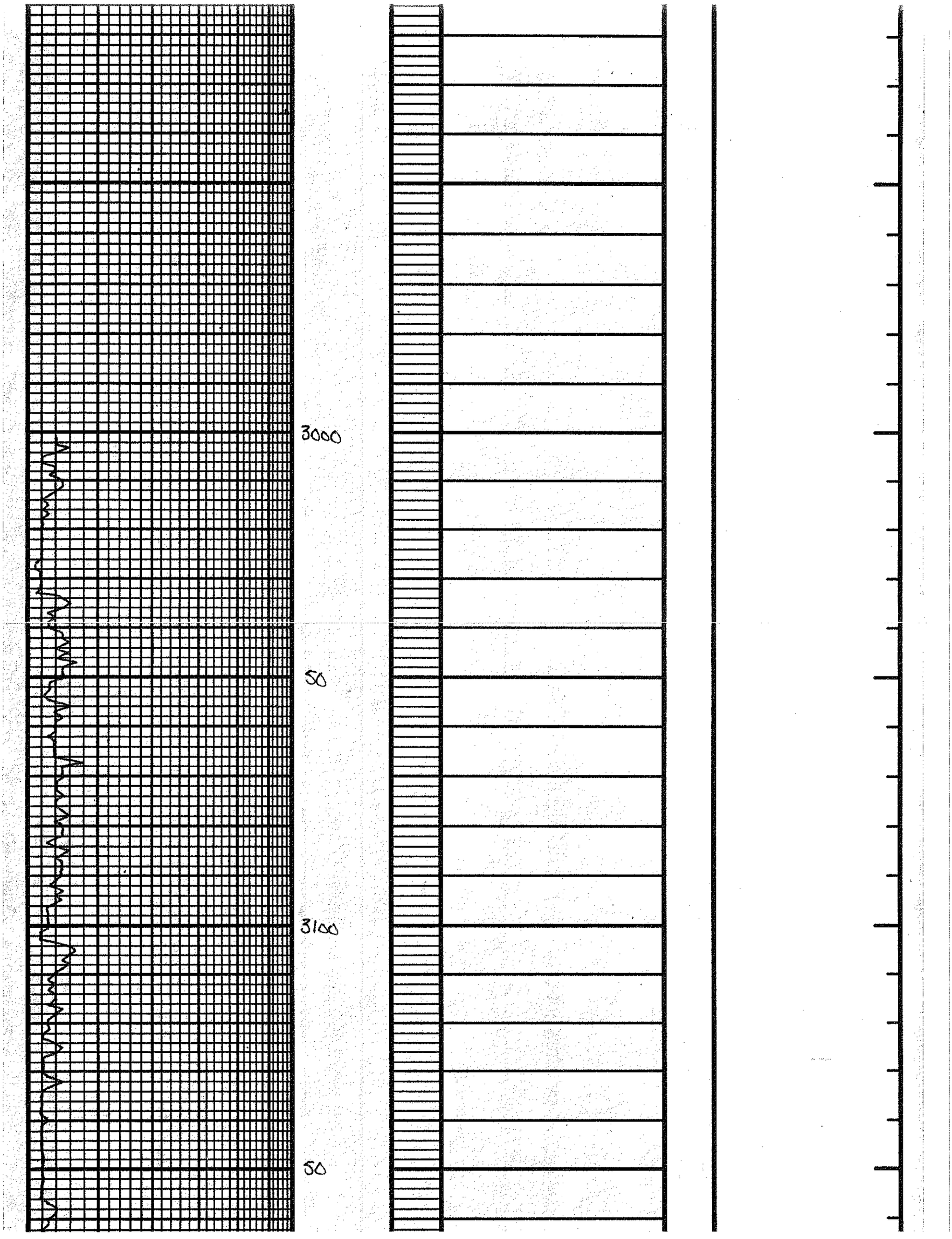
DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS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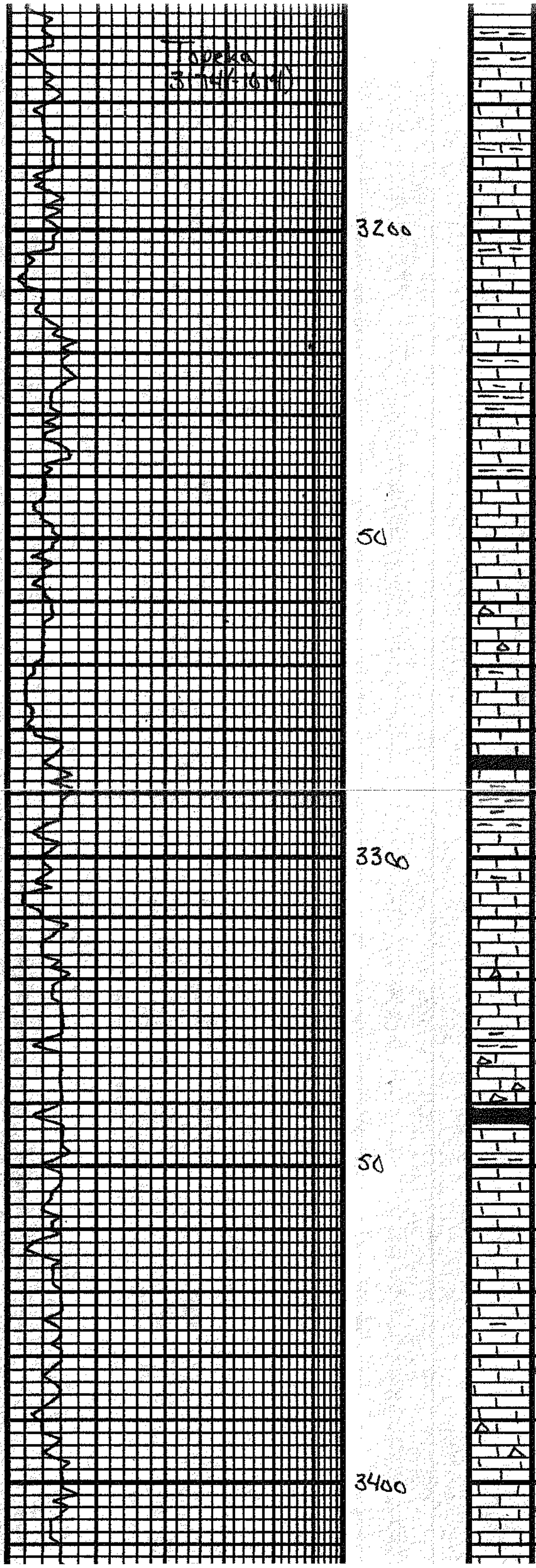


LS: tan, fn-vfn xln, subxln in prt.

Sh: gry

LS: tan-gry, vfn-mic xln, mostly dns, NS.

Sh: gry

LS: wht-lt tan, fn suc xln gd intxlnø, scat v sml occ ø. Tot barren, No Od.

Sh: gry

LS: wht, fn xln, subxln, NS.

Sh: gry

LS: tan-wht, fn-md xln, subxln-chlky, tang mtld. Fr intxlnø, NS.

LS: wht-tan, fn xln, foss fr intxlnø, subxln, scat gry cht△. NS.

LS: tan-wht, suc, scat foss. subxln, sltly mtld. NS.

Sh: Black Carb

Sh: gry

LS: wht, vfn-mic xln, many v dns wc. Scat chlky pcs. All NS.

LS: wht, vfn xln, mostly prø + dns. Few pcs gry cht△.

Sh: gry

LS: wht-tan, prø, fn-md xln. cht△, gry foss

Sh: Black Carb

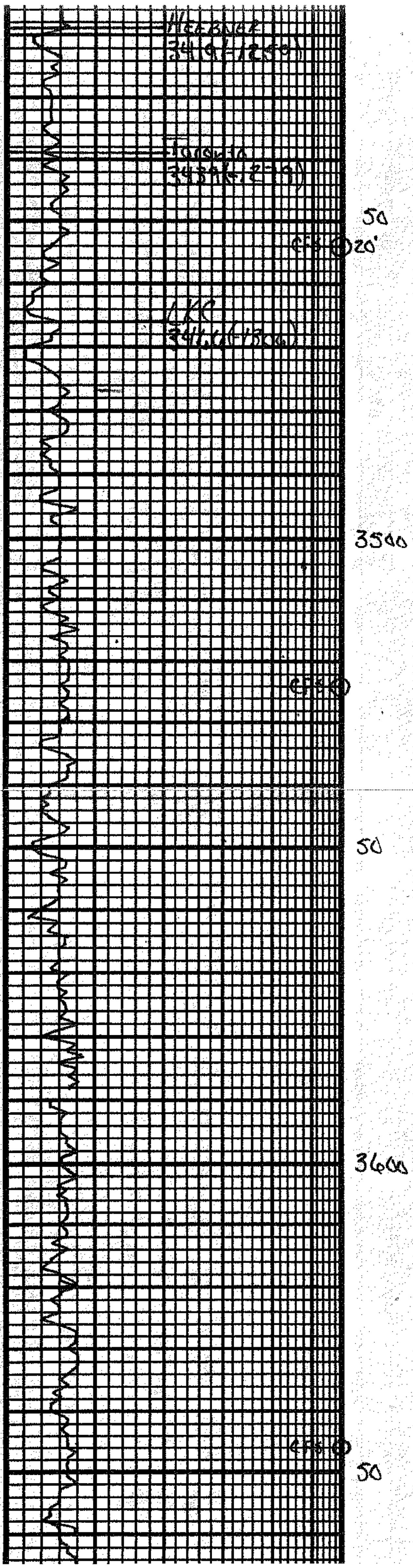
Sh: gry

LS: wht-lt tan, md-fn xln, foss. Tang fr ppø, subxln-chlky w/ depth. All NS.

Sh: gry-drk gry

LS: wht, fn-md xln, scat foss. Fr intxln + ppø, 1-2 cx w/ pr resid blk stn, dead. NSFO, No Od. gry cht△.

LS: wht-tan, fn-md xln, sltly mtld, scat



DST #1

Sh: Black Carb

Sh: gry

LS: wht, vfn-mic xln, 2-3 fx w/ lt SFO in pr ppϕ, poss Frac ϕ. Rest tot barren, No Od.

Sh: gry w/ brn

LS: tan-brn, md-Fn xln, vdns.

LS: tan, A/A

Sh: gry

LS: wht-tan, md xln, dolom. Fr intxln & vugϕ, gd sat stn w/ fr-gd SFO, Fr Od.

Sh: gry

LS: wht-lt tan, md xln, sltly dolom, Fr intxln w/ sml vugs, fr lt brn stn, lt brn sptted SFO, Fr Od.

Sh: gry-dark gry

LS: wht-tan, Fn xln, prϕ & dns. All NS.

LS: wht, md xln, dolom w/ Foss. Fr-gd vug & intxlnϕ, gd sat stn, Fr-gd SFO, Fnt-lt Od.

Sh: gry

LS: wht, Fn xln, sub xln-chlky, NS.

LS: Trng wht, Fn-md xln, scat Foss. prϕ, dns. All NS.

Sh: Black Carb

Sh: gry

LS: wht-tan, Fn xln, sltly dolom pr-Fr intxlnϕ, subxln, Fr scat stn, sptted SFO, lt Od. Rx tite.

LS: Trng tite w/ No visϕ, NS.

Sh: dark gry

LS: tan-wht, Fn-md xln, sltly dolom, scat pr-Fr intxln & ppϕ, mostly tite. Scat pr brn stn, pr-Fr SFO, 1-2 pcs gassy when broken. Fnt Od, slt Free oil on cup.

Sh: gry

LS: wht-lt tan, Fn xln, scat Foss. scat subxln ϕ, mostly dns w/ prϕ, 1-2 fx w/ lt stn, NSFO, No Od.

Sh: gry

LS: wht, Fn-md xln, scat

Vis: 54 Wt: 9.1

DST #1
3477 - 3524
45-45-45-45
I.F.- 6" blow
F.F.- 5" blow
IFP: 13-45
FFP: 49-68
SIP: 961-905
HP: 1728-1650
Rec:
150' MW 95%W
BHT: 109° Chlor: 39K

toss. All prgs wl frs.

Sub xln ox. All NS, No Od.

Sh: gry

LS: tan-wht, fn-md xln, sub xln in prt, NS.

Sh: gry

LS: wht, md-crs xln, bon stn in prgs.

Sh: brn-lt gry

LS: tan-wht, md xln, mtld in prt. Scat hvy SFO in prgs, tite.

LS: some AlA, mostly barren, mtld in prt.

Cht Δ: wht-gry, fr vug %, some tot sat blk. Scat sat LS, rx tite. vgd SFO, much free oil on cup, lt-fr Od.

Mostly brn sh wl multi-color cht Δ, shp. NS.

Sh: brn & gry wl fr Amt shp cht Δ, tan, gel, wht.

All NS. Sh Argilaceous in prt, washes slitly red.

Sh: AlA

Mostly AlA wl some suc cht Δ & dns LS, NS.

DST #2
3742 - 3744
30-30-30-30
IFP: 14-14
FFP: 15-32
SIP: 38-44
HP: 1923-1900
Rec:
1' mud
BHT: 107°

Vis: 62 wt: 9.1

3700

3800

50

50