



KANSAS CORPORATION COMMISSION 1060054
OIL & GAS CONSERVATION DIVISION

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:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
 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 #: _____

<u>06/16/2011</u>	<u>06/22/2011</u>	<u>06/23/2011</u>
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 West
2190 Feet from North / South Line of Section
155 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE 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? 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: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Garrisor Date: 08/11/2011



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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction Compensated Porosity	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12.25	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:	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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: <u>2.3750</u> Set At: <u>4312.87</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR: <u>07/20/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>42</u>	Gas Mcf <u>0</u> Water Bbls. <u>0</u> Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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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 Nov 11 PAGE NO. 1

64 NELSON

WELL NO. WIT 1-17

LEASE SHOWALTER-VANDERBURG

JOB TYPE 5 1/2 LONG STRING

TICKET NO. 20927

PART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2130							ON LOCATION
	2305							START PIPE 5 1/2" 14" RTD @ 4365 LTD @ 4365 SHAOST 20.95' CENTRALIZERS 1, 3, 5, 7, 9, 11, 72 BASKET 73 DV TOOL ON ST 73 @ 1400'
	0045						1400	SET PACKER SHAPE CIRCULATE.
	0107	6	12		✓		500	Pump 500 gal MUD FLUSH
	0109	6	20		✓		500	Pump 20 BBL KCL FLUSH
	0118	4	36		✓		400	MIX 150SX 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 PLUG 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 (30SX-20SX)
	0215		70		✓		100	MIX 125SX 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

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

SERVICE POINT:
RUSSELL KS

DATE <u>6-17-2011</u>	SEC <u>17</u>	TWP. <u>20</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00 AM</u>	JOB FINISH <u>5:30 AM</u>
SHOWALTER LEASE <u>VANDERBILT</u> WELL # <u>1-17</u>				LOCATION <u>Alexander KS. 11s 1w</u>		COUNTY <u>PAWNEE</u>	STATE <u>KANSAS</u>
OLD OR NEW (Circle one)				<u>1/2 N 1/4 E</u>			

CONTRACTOR Discovery Delc. Rig #4 OWNER _____

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

CEMENT AMOUNT ORDERED 250sx Com. 39cc

290 GEL

COMMON	<u>250</u>	@	<u>16.25</u>	<u>4062.50</u>
POZMIX		@		
GEL	<u>5</u>	@	<u>21.25</u>	<u>106.25</u>
CHLORIDE	<u>9</u>	@	<u>58.20</u>	<u>523.80</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>264</u>	@	<u>2.25</u>	<u>594.00</u>
MILEAGE	<u>114.5</u>			<u>813.12</u>
TOTAL				<u>6099.67</u>

EQUIPMENT

PUMP TRUCK CEMENTER Glenn

417 HELPER WOODY

BULK TRUCK

481 DRIVER RON

BULK TRUCK

_____ DRIVER _____

REMARKS:

Ran 11 JTS New 23# CSG, Set @ 474'

Received Circulation Cement w/ 250sx

Com 2 + 3 Displace 29801 H₂, Shut

IN @ 350 FT

Cement did circulate

TO SURFACE.

THANKS

CHARGE TO: Downing & Nelson Oil

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE			<u>1125.00</u>	
EXTRA FOOTAGE		@		
MILEAGE	<u>56</u>	@	<u>7.00</u>	
MANIFOLD		@		
	<u>51</u>	@	<u>4.00</u>	
		@	<u>224.00</u>	
TOTAL				<u>1741.00</u>

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

DRILL STEM TESTS

No.	Interval	ISIP/Time	ISIP/Time	FPP/Time	FSP/Time	HST-PRR	RECOVERY

REMARKS AND RECOMMENDATIONS

LEGEND

- Dolomite
- Chart
- Coal Lime
- Limestone
- Carb sh
- Shale
- Sandstone
- Salt
- Anhydrite

REMARKS

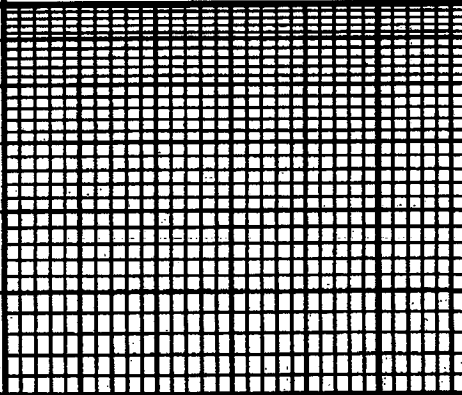
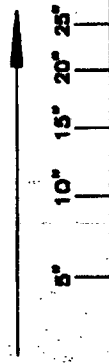
OIL SHOWS

SAMPLE DESCRIPTIONS

LITHOLOGY

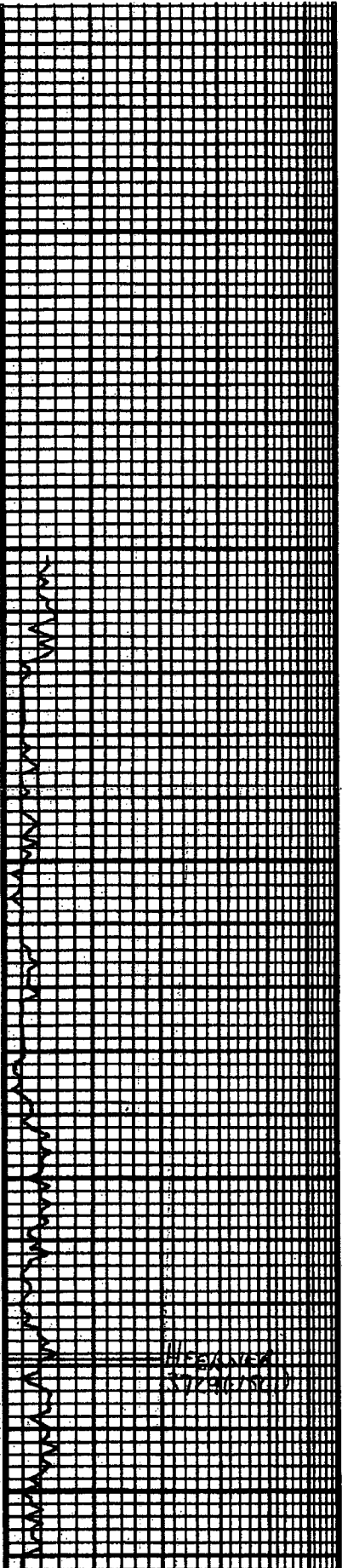
DEPTH

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Decreases



7515

LOG 7710



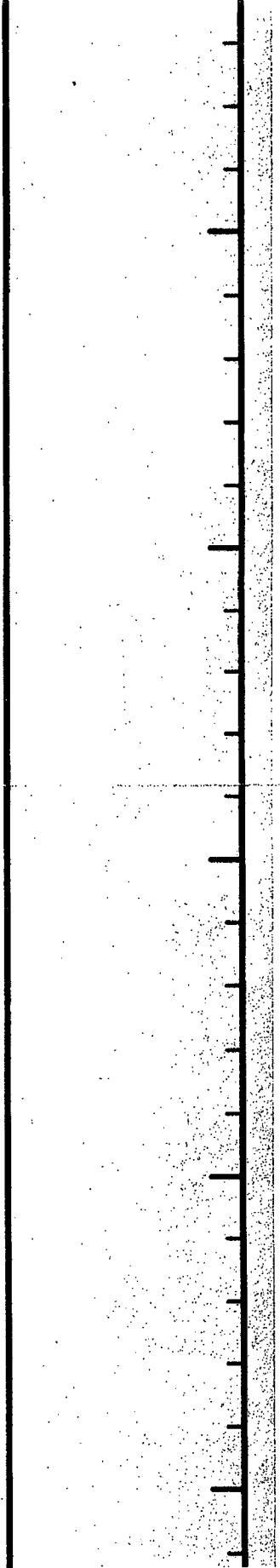
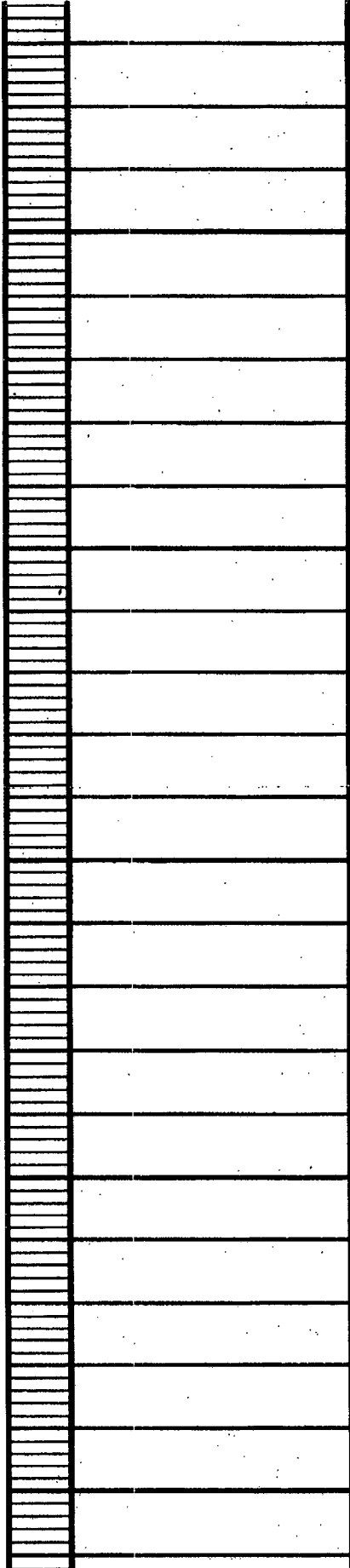
3600

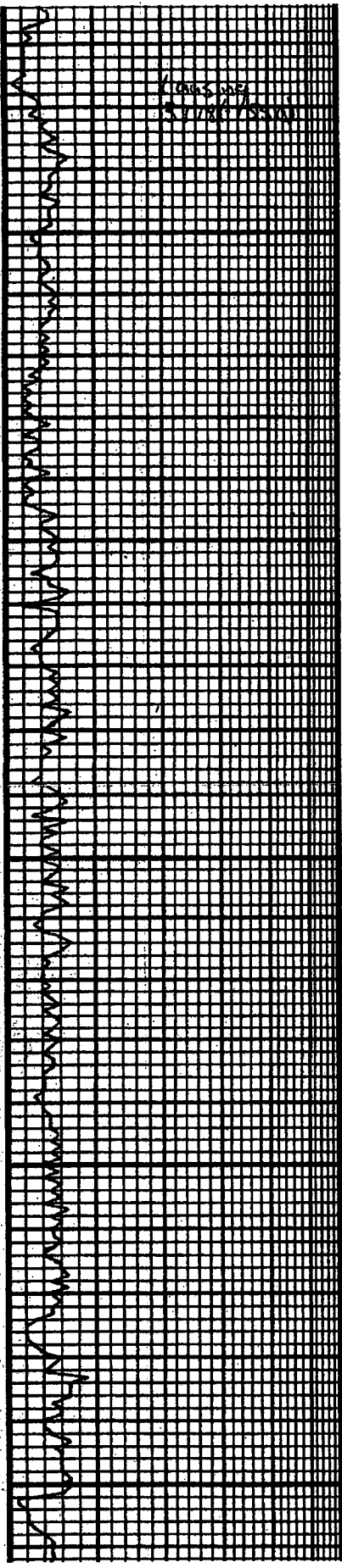
50

3700

50

EXPERIMENTAL
1/23/78





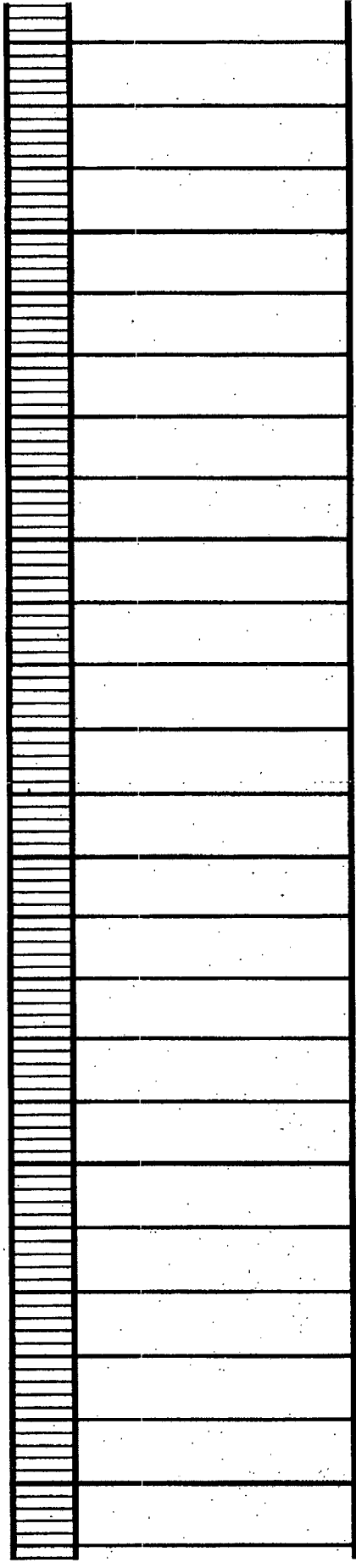
3900

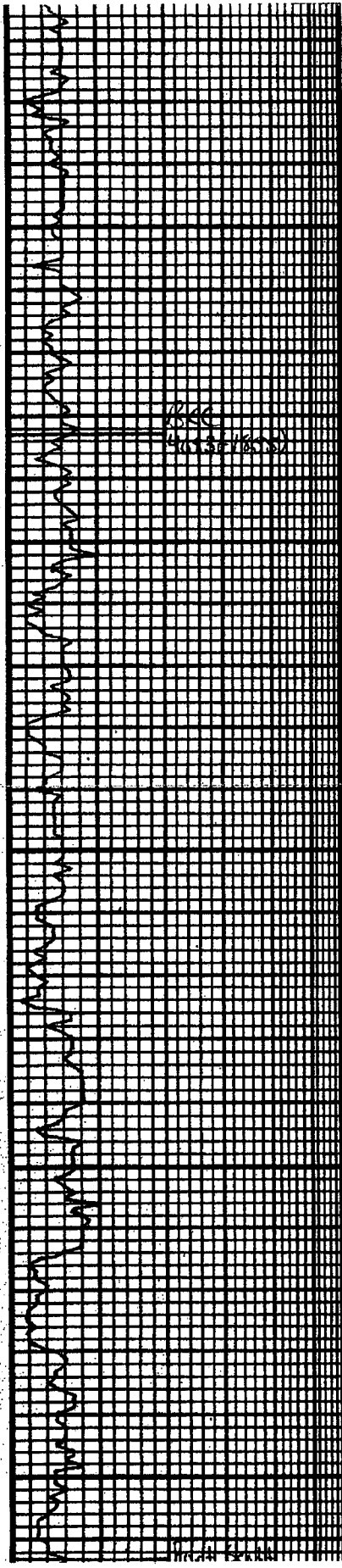
50

3900

50

4000





50

RSC
(4100/4200)

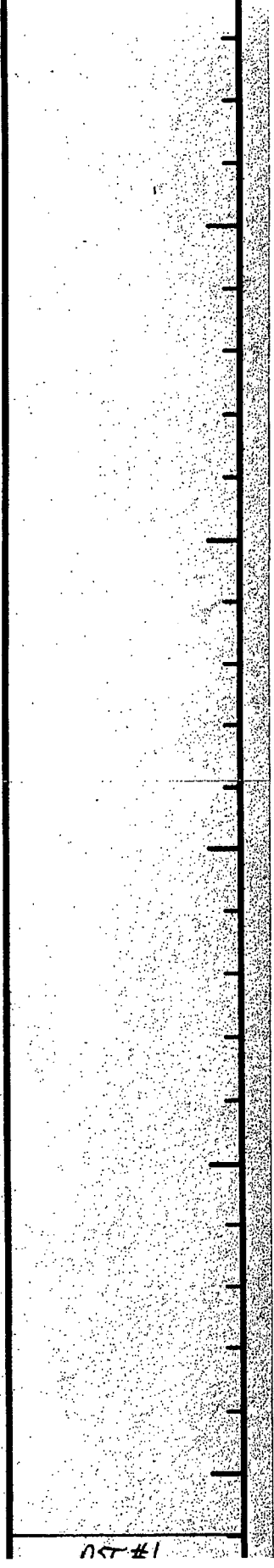
4100

50

4200

50

Sh: Black Carb
LS: Whit, fm xln, dms
Sh: grey
LS: Whit, fm xln, per-fu occs, NB
Sh: grey
LS: Whit - tom, fm - mid xln, v dms, No visgs
Sh: drk grey
LS: Whit, fm - mid xln, v dms
Sh: drk grey blk
Sh: grey w/ some lt grey
LS: tom, fm - mid xln; below in part w/ sml fms
Sh: grey
LS: Mostly AIA, scat sml fms, dms
Sh: Black
Sh: much blk w/ drk grey
Sh: drk grey - blk
Sh: grey



NST #1

42-05-10050
 HERKULES
 42-05-10050

4300

D
S
T

1

0
2

2

xl, scat pgs, mostly
 chns w/ prg. All NB.

Sh: Black Carb

Sh: gry

LS: tan-wat, fu-mid xlu
 scat sml fcs, v chns
 prg

Sh: gry w/ br, scat
 yel

SS: cl, wd-crs gm, well sort
 sub ang, fr 20g, some v frak
 some silt, tide fr, sd sat w/

fr sptd SFO when broken
 11-12, gd, gd-fr flwr, 3 sat w/ ch
 Ch: wat-tan some yel Matth
 fr weath some v weath, gd H
 brn sat str w/ sptd SFO, yel
 ch: rest show sh. Rest of tan
 w/ flwr fr Ad, FO on str
 scat pgs w/ sml vgs.

← Poor samp, much sh.
 Ch: Tan mostly w/ some cl
 mostly prg, fcs, some gd vgd
 weath, Jan edge w/ gd str, sptd
 SFO, gd vgd fr-gil flwr, gd
 Od, some FO on str.

4295-4352
 30-30-30-30
 IFF: 40-51
 FFP: 50-52
 SIP: 1022-659
 HP: 2169-2078

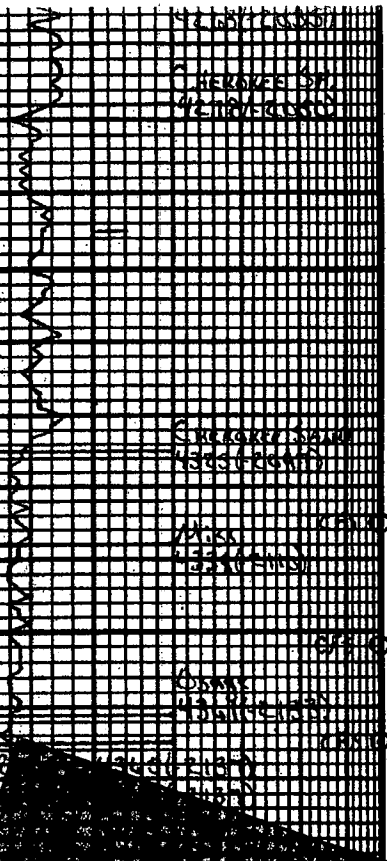
Rec:
 2' HOLM 45%
 43' SACM 57%
 BHT: 113°

DST #2
 4349-4865
 30-45-30-45

26
 I.F. 808 102mm/1" S16
 F.F. 808 11mm/3/8" S16
 IFF: 26-77

38
 SIP: 1360-1355
 HP: 2115-2106
 Rec:

20ft
 50
 20ft
 28' GIP
 235 FO
 96' SACM 157%
 G=39 BHT: 126°



CHALKY SAND
 (SANDSTONE)

CHALKY SAND
 (SANDSTONE)

CHALKY SAND
 (SANDSTONE)

CHALKY SAND
 (SANDSTONE)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

Showalter-Vandenburg Unit 1-17

PO Box 1019
Hays, Ks
67601

17-20-20 Pawnee, Ks

Job Ticket: 43411

DST#: 1

ATTN: Marc Downing

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)**

Capacity: **8000.00 psig**

Start Date: **2011.06.21**

End Date:

2011.06.21

Last Calib.: **2011.06.21**

Start Time: **14:10:32**

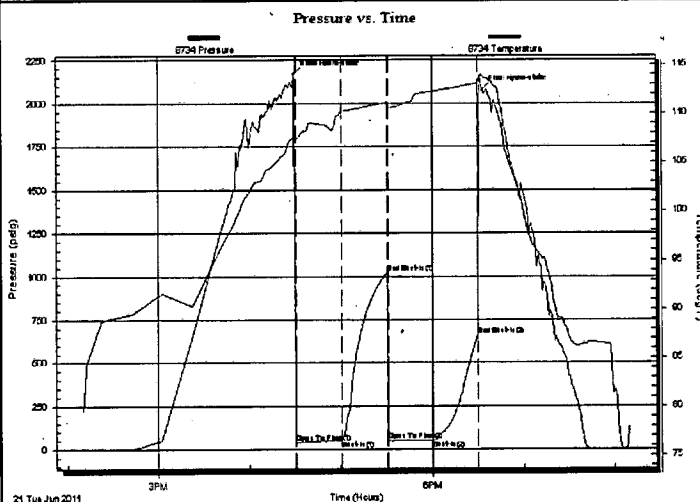
End Time:

20:10:01

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)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

Showalter-Vandenburg Unit 1-17

PO Box 1019

17-20-20 Pawnee, Ks

Hays, Ks

Job Ticket: 43411

DST#: 1

67601

ATTN: Marc Downing

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:

bbbl

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

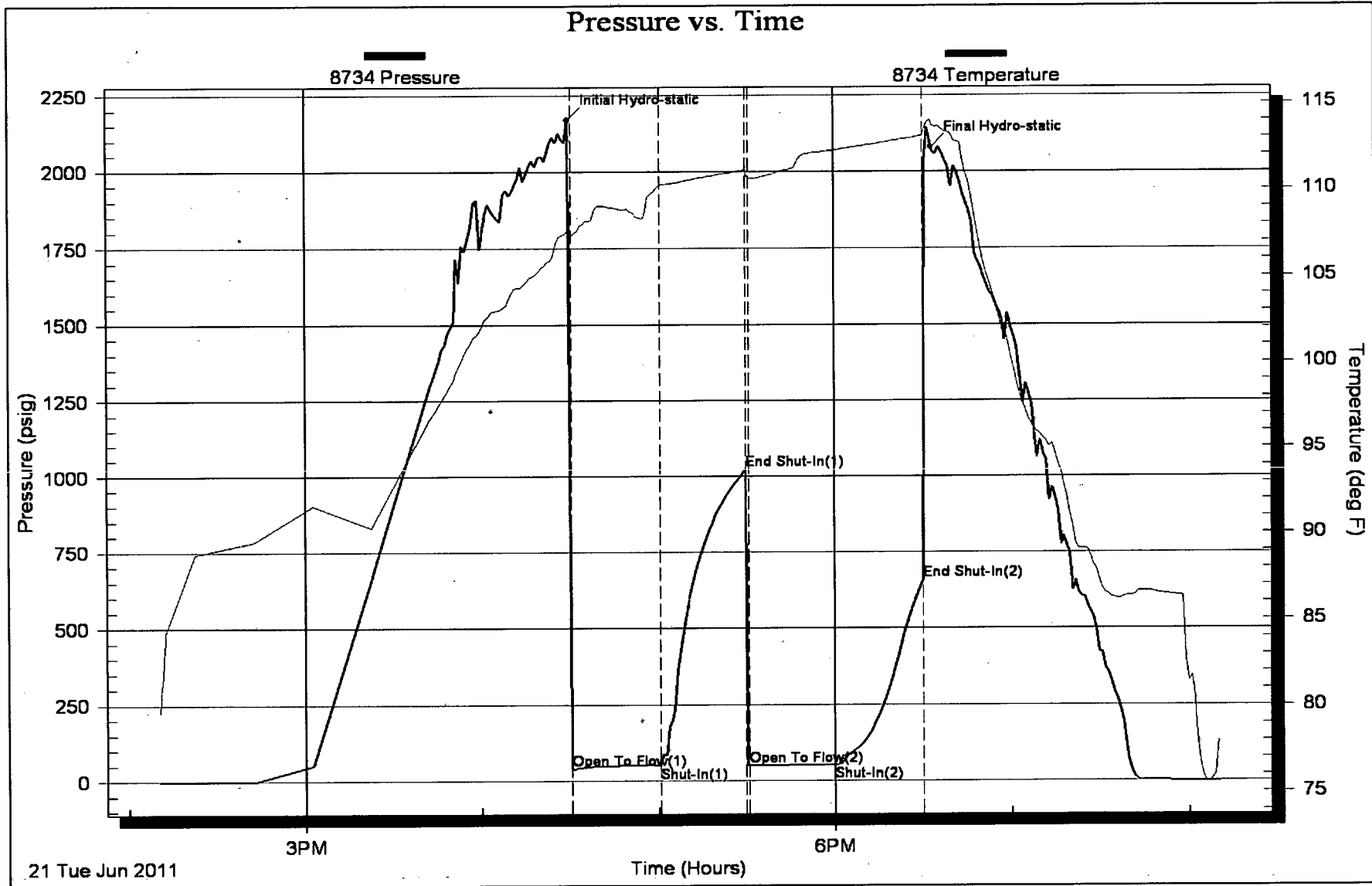
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

Showalter-Vandenburg Unit 1-17

PO Box 1019
Hays, Ks
67601

17-20-20 Pawnee, Ks

Job Ticket: 43412

DST#: 2

ATTN: Marc Downing

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

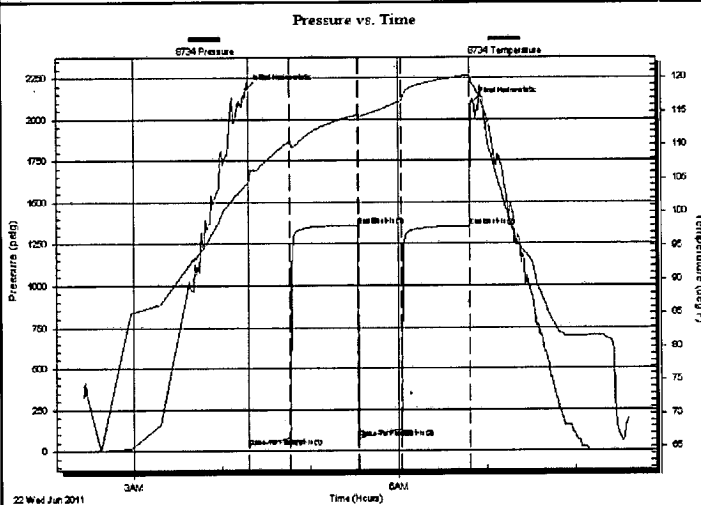
Capacity: 8000.00 psig

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)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

Showalter-Vandenburg Unit 1-17

PO Box 1019

17-20-20 Pawnee, Ks

Hays, Ks

Job Ticket: 43412

DST#: 2

67601

ATTN: Marc Downing

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:

