



KANSAS CORPORATION COMMISSION 1052299
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 + 0372
Contact Person: Michele Meier
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Ron Nelson
Purchaser: None

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 #: _____

<u>01/31/2011</u>	<u>02/10/2011</u>	<u>02/11/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22697-00-00

Spot Description: _____

SW NE SW NW Sec. 16 Twp. 13 S. R. 22 East West
1,710 Feet from North / South Line of Section
960 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Trego

Lease Name: Crossland Well #: 1-16

Field Name: Wildcat

Producing Formation: None

Elevation: Ground: 2306 Kelly Bushing: 2314

Total Depth: 4117 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 224 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: 240 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 Garrison Date: 02/16/2011



1052299

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Crossland Well #: 1-16
 Sec. 16 Twp. 13 S. R. 22 East West County: Trego

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 checked="" type="checkbox"/> Yes <input 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: Attached	<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	8.25	8.625	23	223.61	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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. 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 type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(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	Crossland 1-16
Doc ID	1052299

All Electric Logs Run

Micro
Sonic
Dual Induction
Density/Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Crossland 1-16
Doc ID	1052299

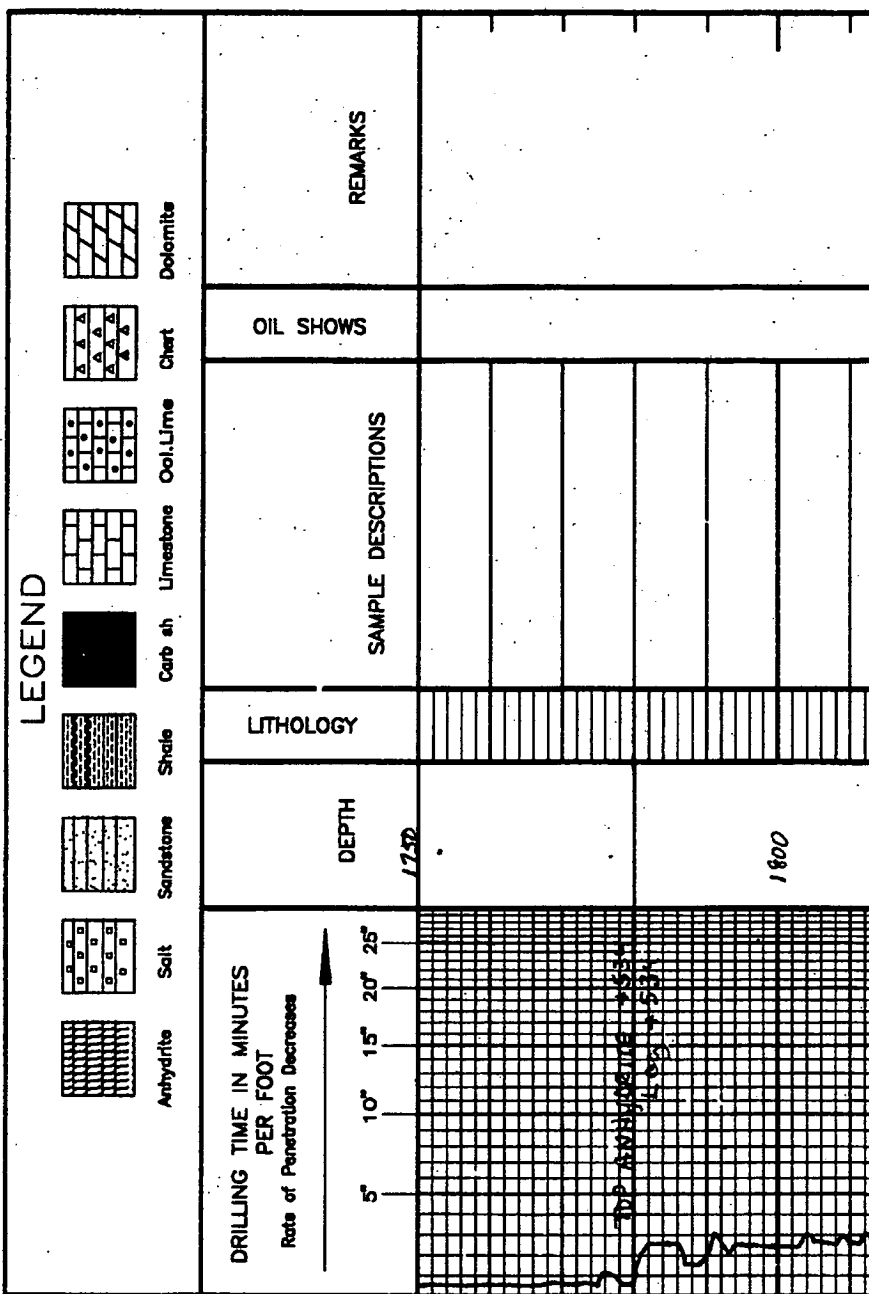
Tops

Top Anhydrite	1780	+534
Base Anhydrite	1826	+488
Topeka	3483	-1119
Heebner	3660	-1346
Toronto	3680	-1366
LKC	3694	-1380
BKC	3946	-1632
Marmaton	4051	-1737
Cherokee Shale	4103	-1789
Cherokee Sand	4148	-1834

DRILL STEM TESTS							
No.	Interval	FP/Time	ISP/Time	FPF/Time	FIP/Time	HI-FH	RECOVER

REMARKS AND RECOMMENDATIONS *WELL RAN AS SEISMIC EXPECTED, BUT NO DEVELOPMENT IN LKC & SAND. PLUGGED.*

Ron Nelson



BASE ANHYDRITE 1-182
468-182

1850

3300

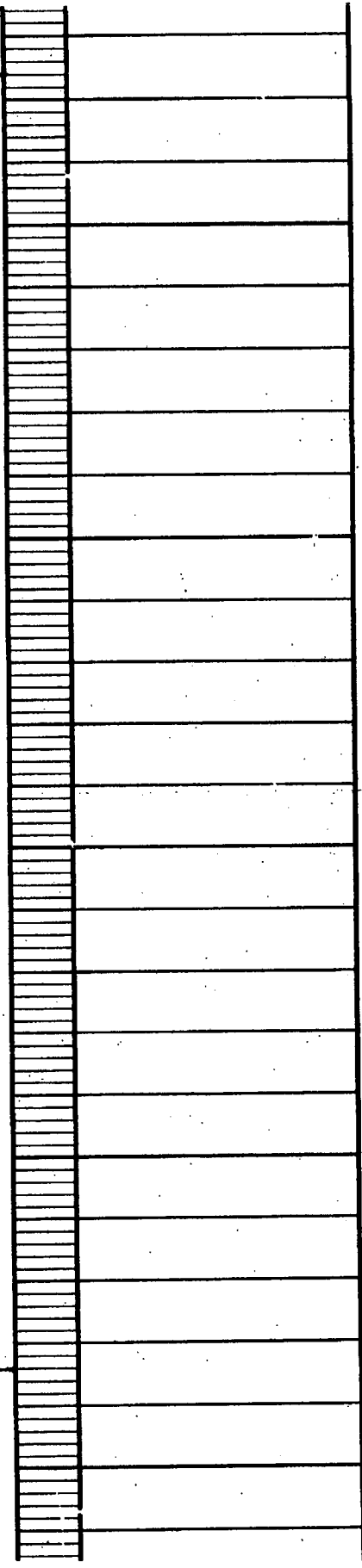
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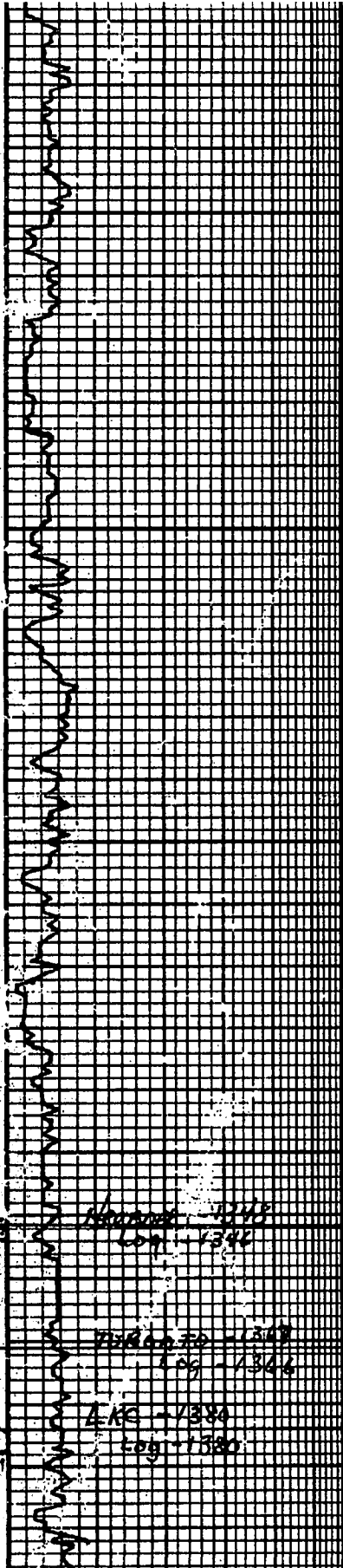
3400

TOPEKA LIME
464-113

50

Handwritten notes in the left margin, including the word "TOPEKA" and other illegible characters.





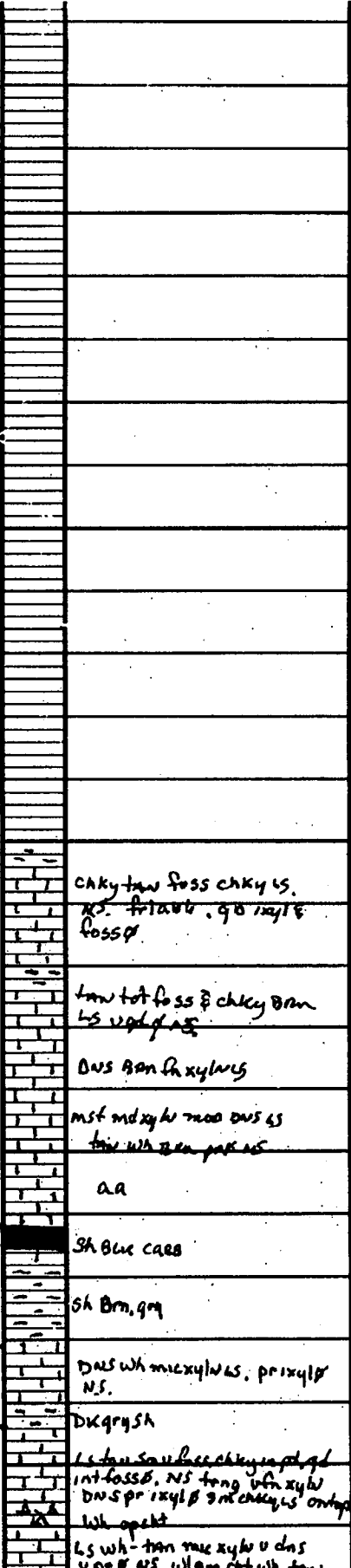
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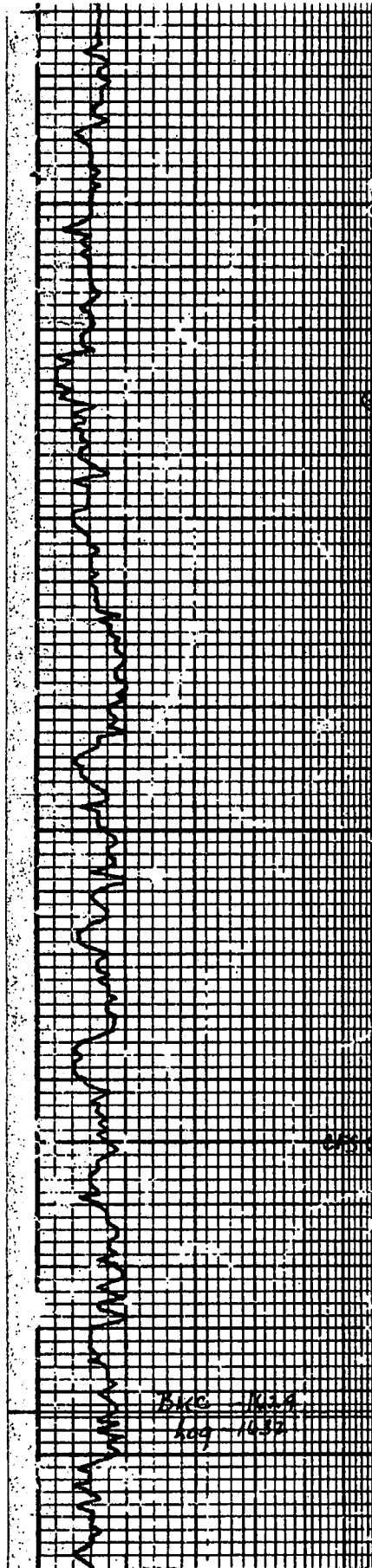
3600

50

3700



OST #3
STRADDLE
3720-3761



50

3800

50

3900

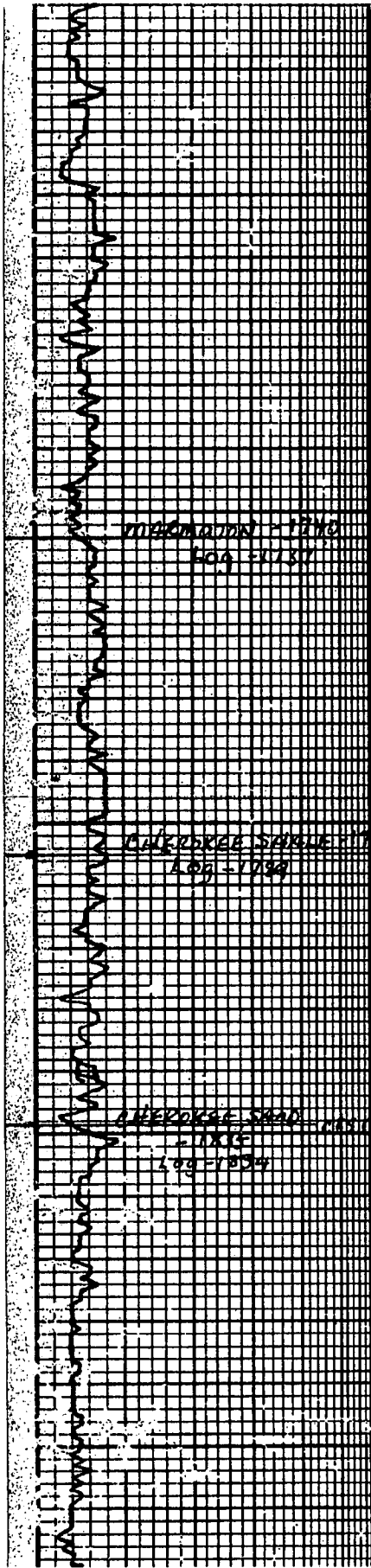
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Sh Blk carb
v dk gry & gry sh
LS tan - thin ss in this reg. cont. fossil Sto. mod. sm. under w. h. mod. w. h. oxyld. Sto. od. F. sed. rest to labl Sh. dk. very an. w. r. carb. sh. sh.
Sh s gry sh
LS tan - Heavy v. f. ss. no l. w. gd int. ool. R. sh. to o. of sh. Blk - Bam int. f. ss. sh.
dk gry sh
LS tan - wh. v. f. ss. in massive med. val int. f. ss. & int. xyl. & v. st. o. sh. od. Bam. sh. to o. of sh. sh. sh.
Sh dk gry
Blk. sh. - tan. chky in pl. s. f. ss. w. l. in int. f. ss. Blk. o. o. q. l. s. sh. tan.
sh v s sh
Sh v dk gry
dk gry sh - massive med. val LS - tan. xyl. sh. sh. sh.
LS wh. tan. mic. xyl. v. sh. sh. pr. & ss. w. chky in sh.
tan. xyl. sh. v. sh. sh. sh. sh. w/ op. tan. sh. p. ch.
Sh Blk carb
Sh v dk gry. Ba. Bam
LS tan - 2 p. ss. f. ss. mod. sh. xyl. w. r. xyl. sh.
Sh Blk carb
Sh v dk gry
2-2 p. chky tan. LS s. ch. - 6 ss ms. msh
LS wh. tan. mic. xyl. v. sh. sh. no app. & ss
Sh Blk carb v dk gry
LS tan - 2 p. ss. f. ss. mod. sh. xyl. f. ss. sh. no od. Blk. o. o. sh. sh. tan. mic. xyl. v. sh. sh. v. pr. ss
Sh v dk gry
LS tan - 2 p. ss. w. f. ss. & sh - pr. int. f. ss. & 1-2 p. ss. sh. 3 p. sh. int. f. ss. sh. v. sh. sh. no od.
Sh Blk carb
LS tan - gry. sh. xyl. sh. sh. pr. xyl. sh.
tan. mic. xyl. v. sh. sh.
Sh Blk carb
Bam & gry sh
Chky tan. LS sh.
ro. gry. gry sh

DIST # 3
12' op 2 1/4" Blk
2nd op 0000
IFP 25-69
FFP 33-37
SIP 1174-1128
HP 1908-1753
REC 45' v. socm
270 on 98' band

DIST # 1
3760'-3781'
45" 45" 45" 45"
12' op 808 32"
2nd op 5 1/2" Blk
IFP 23-2690
FFP 72-108
SIP 845-780
HP 1794-1750
Rec. 1' clean on
189' mcw

DIST # 2
3871'-3900'
45" 45" 45" 45"
12' op 6 1/2" Blk
2nd op 5" Blk
IFP 14-35
FFP 33-46
SIP 1127-800
HP 1902-1841
Rec. 65' v. socm
5% oil
20% muo
75% water



4000

2

4100

50

4200

ROE BAN 3945
LS tan w/ fine prisms w/ fine sh. wh. chd.
RO SH
Sm. ch. masses
gry & BAN sh
DUS tan micryls prisms
ROE BAN sh
Slt gummy
orange chd.
orange, tan chd.
sh. v. tan gry gry BAN
LS tan micryls prisms
v. p. B NS
LS a a NS
LS a a w/ chd wh. tan op
orange sh. chd.
small tan LS w/ fine prisms
in v. tan BAN sh & wh. op
tan chd.
aa
SH BAN sh
sh. v. tan gry BAN
w/ chd tan BAN sh
SH BAN gry
LS gry BAN micryls prisms
sh. v. tan gry
LS BAN gry tan micryls prisms
prisms
se. chd. sh. v. tan gry tan gry
pr. int. gry prisms
w/ gry sh
sh. v. tan gry sh, sm. chd. tan gry chd.
w/ sh. tan gry tan gry prisms
NS.
SH gry sh
glauc. sh. tan gry sh chd.
BAN sh
tan - op chd w/ tan gry prisms sh
chd. sh. tan gry tan gry sh chd.
chd. sh. tan gry tan gry sh chd.
sh. v. tan gry
SH BAN sh
v. tan gry
BAN
cat tan w/ gry sh. chd.
NS.
w/ int. sh. gry
BAN, BAN

ALLIED CEMENTING CO., LLC. 034089

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

SERVICE POINT:

Russell KS.

DATE <i>1-31-2011</i>	SEC. <i>16</i>	TWP. <i>13</i>	RANGE <i>22</i>	CALLED OUT	ON LOCATION	JOB START <i>9:00 PM</i>	JOB FINISH <i>9:30 PM</i>
LEASE <i>Crossland</i>		WELL # <i>1-16</i>		LOCATION <i>OGallah KS. 3.52w 134s</i>		COUNTY <i>Trego</i>	STATE <i>KANSAS</i>
OLD OR <u>NEW</u> (Circle one)				<i>14E</i>			

CONTRACTOR *Discovery DRLG Rig #1*

TYPE OF JOB *SURFACE*

HOLE SIZE *12 1/4* T.D. *224'*

CASING SIZE *8 5/8 NEW* DEPTH *224*

TUBING SIZE *23 #CSG* DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT *13 1/4 / BBL*

OWNER

CEMENT

AMOUNT ORDERED *150sx Comm.*

2% GEL

3% CC

COMMON	<i>150</i>	@	<i>13.50</i>	<i>2025.00</i>
POZMIX		@		
GEL	<i>3</i>	@	<i>20.25</i>	<i>60.75</i>
CHLORIDE	<i>5</i>	@	<i>57.50</i>	<i>287.50</i>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<i>150</i>	@	<i>2.25</i>	<i>337.50</i>
MILEAGE	<i>110/51/2.10</i>			<i>450.00</i>
TOTAL				<i>3130.75</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Glenn*

417 HELPER *RON*

BULK TRUCK

410 DRIVER *Woody - Nick*

BULK TRUCK

DRIVER

REMARKS:

Ran 5 JTS 23 #CSG.

Set @ 224

Cement w/ 150sx Com 342, Displace

13 1/4 / BBL H₂O. & Shot IN @ 300#

Cement did circulate to

SURFACE!

THANK'S

CHARGE TO: *Downing & Nelson Oil*

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE *991.00*

EXTRA FOOTAGE @

MILEAGE *30* @ *7.00* *210.00*

MANIFOLD @

TOTAL *1201.00*

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or

ALLIED CEMENTING CO., LLC. 038691

ATTN P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Great Bend W

DATE <u>(2-11-11)</u> <u>2-10-11</u>	SEC. <u>16</u>	TWP. <u>13</u>	RANGE <u>22 W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:15 AM</u>	JOB FINISH <u>3:15 AM</u>
LEASE <u>Crossland</u>		WELL # <u>1-16</u>		LOCATION <u>8 ball 3/4 South 2 West</u>		COUNTY <u>T. C. 20</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				<u>1 3/4 South East into</u>			

CONTRACTOR Discovery Rig 1

OWNER Downing & Nelson Oil Co

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 4243

CEMENT
AMOUNT ORDERED 220 SX 60/40 4% 60
to flo seal

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 1800

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 1

EQUIPMENT

PUMP TRUCK CEMENTER Wayne - D

366 HELPER Bob - Gary

BULK TRUCK

371 DRIVER Kevin -

BULK TRUCK

_____ DRIVER _____

COMMON 132 @ 13.50 1782.00

POZMIX 88 @ 7.55 664.40

GEL 8 @ 20.25 162.00

CHLORIDE @ _____

ASC @ _____

Flo seal 55# @ 2.45 134.75

@ _____

@ _____

@ _____

@ _____

@ _____

@ _____

@ _____

HANDLING 220 @ 2.25 495.00

MILEAGE 220 X 30 X .10 660.00

TOTAL 3898.15

REMARKS:

1st Plug 1800 mix 25 SX

2nd Plug 900 mix 100 SX

3rd Plug 275 mix 40 SX

4th Plug 40 mix 10 SX

Rat mix 30 SX

Mouse mix 15 SX

SERVICE

DEPTH OF JOB 1800

PUMP TRUCK CHARGE 991.00

EXTRA FOOTAGE @ _____

MILEAGE 30 @ 7.00 210.00

MANIFOLD @ _____

@ _____

@ _____

TOTAL 1201.00

CHARGE TO: Downing + Nelson Oil Co.

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

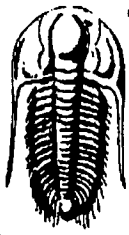
@ _____

@ _____

@ _____

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
Hays Ks 67601

16-13-22, Trego, Ks

Job Ticket: 41915

DST#: 1

ATTN:

Test Start: 2011.02.07 @ 21:30:50

GENERAL INFORMATION:

Formation: **KC**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 00:44:20

Time Test Ended: 05:49:50

Test Type: **Conventional Bottom Hole**

Tester: **Brett Dickinson**

Unit No: **47**

Interval: **3760.00 ft (KB) To 3781.00 ft (KB) (TVD)**

Reference Elevations: **2318.00 ft (KB)**

Total Depth: **3781.00 ft (KB) (TVD)**

2308.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **10.00 ft**

Serial #: 8319

Inside

Press@RunDepth: **108.57 psig @ 3764.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.02.07**

End Date:

2011.02.08

Last Calib.:

2011.02.08

Start Time: **21:30:55**

End Time:

05:49:49

Time On Btm:

2011.02.08 @ 00:37:20

Time Off Btm:

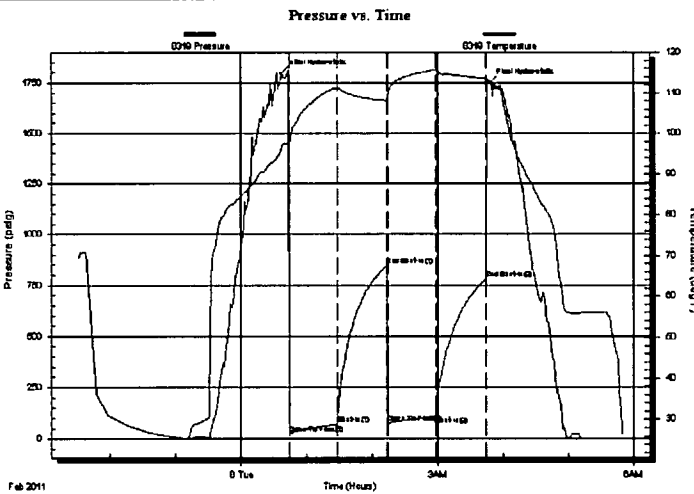
2011.02.08 @ 03:47:50

TEST COMMENT: IF-BOB in 32min

ISI-No blow

FF-5.5in blow

FSI-No blow



PRESSURE SUMMARY

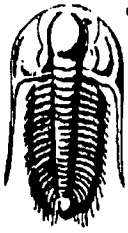
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.71	96.80	Initial Hydro-static
7	23.21	97.40	Open To Flow (1)
51	69.89	111.16	Shut-In(1)
96	845.06	108.14	End Shut-In(1)
97	74.24	108.96	Open To Flow (2)
141	108.57	115.61	Shut-In(2)
187	780.69	113.53	End Shut-In(2)
191	1750.90	112.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MCW 20%M 80%W	2.38
1.00	Free Oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
Hays Ks 67601

16-13-22, Trego, Ks

Job Ticket: 41915

DST#: 1

ATTN:

Test Start: 2011.02.07 @ 21:30:50

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:

120000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	MCW 20%M 80%W	2.378
1.00	Free Oil	0.014

Total Length: 190.00 ft

Total Volume: 2.392 bbl

Num Fluid Samples: 0

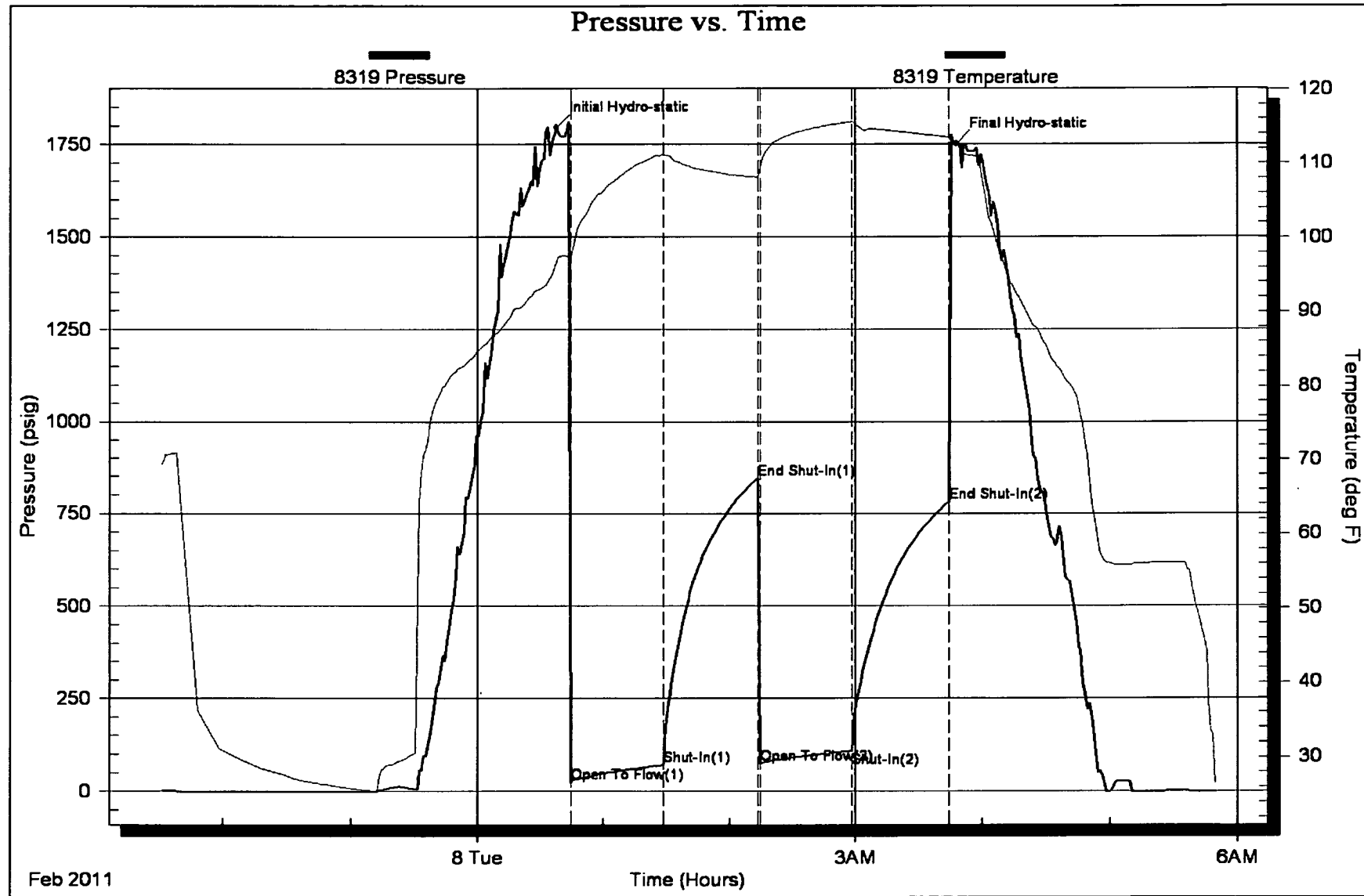
Num Gas Bombs: 0

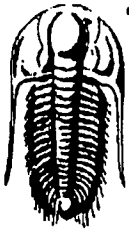
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
Hays Ks 67601

16-13-22, Trego, Ks

Job Ticket: 41916

DST#: 2

ATTN:

Test Start: 2011.02.08 @ 19:00:01

GENERAL INFORMATION:

Formation: **KC"K"**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 21:40:01
 Time Test Ended: 02:47:01

Test Type: **Conventional Bottom Hole**
 Tester: **Brett Dickinson**
 Unit No: **47**

Interval: **3877.00 ft (KB) To 3900.00 ft (KB) (TVD)**
 Total Depth: **3900.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2318.00 ft (KB)**
2308.00 ft (CF)
 KB to GR/CF: **10.00 ft**

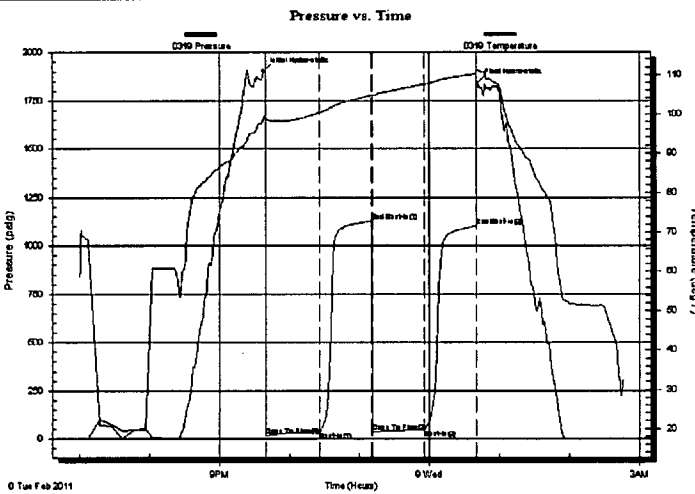
Serial #: 8319

Inside

Press@RunDepth: **46.53 psig @ 3883.00 ft (KB)**
 Start Date: **2011.02.08** End Date: **2011.02.09**
 Start Time: **19:00:06** End Time: **02:47:00**

Capacity: **8000.00 psig**
 Last Calib.: **2011.02.09**
 Time On Btm: **2011.02.08 @ 21:38:01**
 Time Off Btm: **2011.02.09 @ 00:41:31**

TEST COMMENT: IF-6.5in blow
 ISI-No blow
 FF-5in blow
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.41	99.02	Initial Hydro-static
2	14.45	98.89	Open To Flow (1)
48	35.63	100.34	Shut-In(1)
93	1127.14	104.81	End Shut-In(1)
94	33.96	104.63	Open To Flow (2)
138	46.53	107.56	Shut-In(2)
182	1100.45	110.16	End Shut-In(2)
184	1841.88	111.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	VSOMCW 5%O 20%M 75%W	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
Hays Ks 67601

16-13-22, Trego, Ks

Job Ticket: 41916

DST#: 2

ATTN:

Test Start: 2011.02.08 @ 19:00:01

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: 69.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	VSOMCW 5%O 20%M 75%W	0.638

Total Length: 65.00 ft

Total Volume: 0.638 bbl

Num Fluid Samples: 0

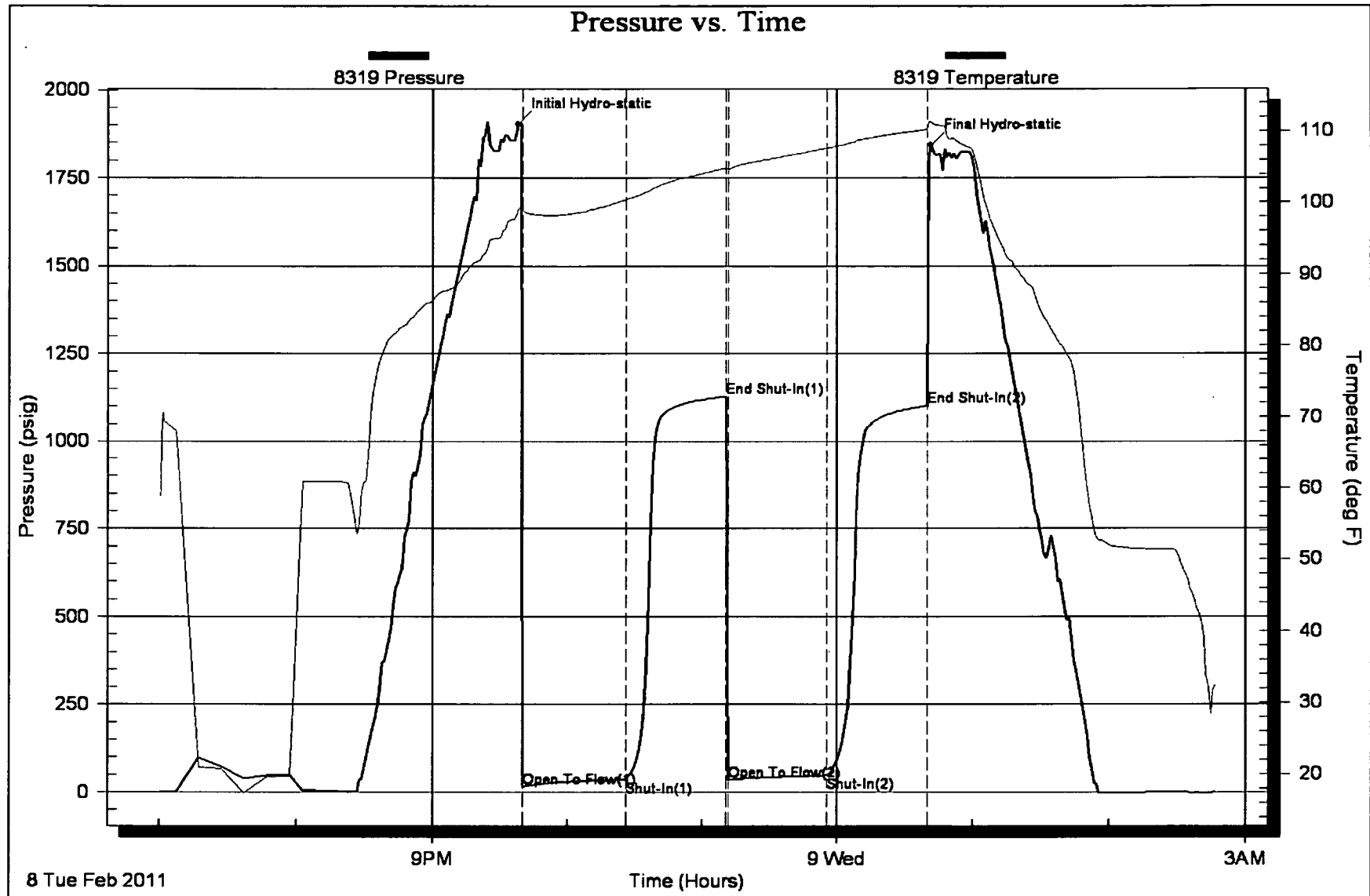
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
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16-13-22, Trego, Ks

Job Ticket: 41917

DST#: 3

ATTN:

Test Start: 2011.02.10 @ 11:55:53

GENERAL INFORMATION:

Formation: **KC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:53

Time Test Ended: 18:44:23

Test Type: Conventional Straddle

Tester: Brett Dickinson

Unit No: 47

Interval: **3720.00 ft (KB) To 3761.00 ft (KB) (TVD)**

Reference Elevations: 2318.00 ft (KB)

Total Depth: 4244.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6719

Outside

Press@RunDepth: 37.78 psig @ 3721.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.10

End Date: 2011.02.10

Last Calib.: 2011.02.10

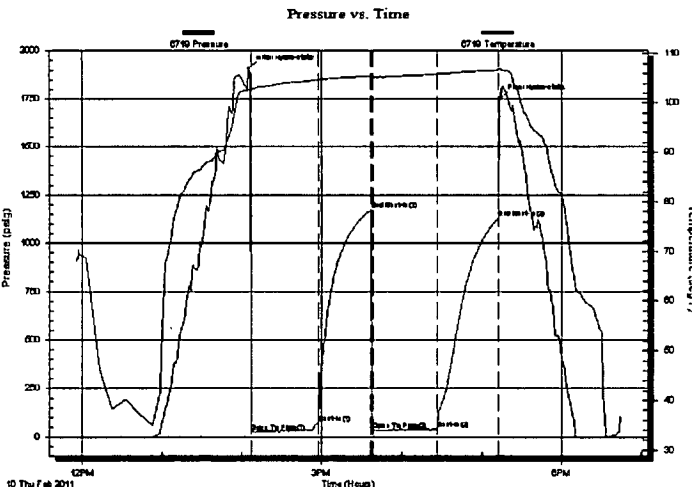
Start Time: 11:55:58

End Time: 18:44:22

Time On Btm: 2011.02.10 @ 14:05:23

Time Off Btm: 2011.02.10 @ 17:14:53

TEST COMMENT: IF-2.25in blow died back to 2in
 IS- No blow
 FF-surface blow died in 2min Flushtool surface blow died in 6min
 FSI- No blow



PRESSURE SUMMARY

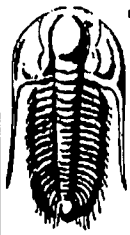
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.52	102.73	Initial Hydro-static
2	25.25	102.54	Open To Flow (1)
53	69.85	104.71	Shut-In(1)
92	1174.70	105.53	End Shut-In(1)
93	33.51	105.25	Open To Flow (2)
141	37.78	105.90	Shut-In(2)
187	1128.54	106.73	End Shut-In(2)
190	1753.37	106.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	VSOCM 2%O 98%M	0.36

Gas Rates

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



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Job Ticket: 41917

DST#: 3

ATTN:

Test Start: 2011.02.10 @ 11:55:53

GENERAL INFORMATION:

Formation: KC "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:53

Time Test Ended: 18:44:23

Test Type: Conventional Straddle

Tester: Brett Dickinson

Unit No: 47

Interval: 3720.00 ft (KB) To 3761.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 4244.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8319 Below (Straddle)

Press@RunDepth: psig @ 3766.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.10

End Date: 2011.02.10

Last Calib.: 2011.02.10

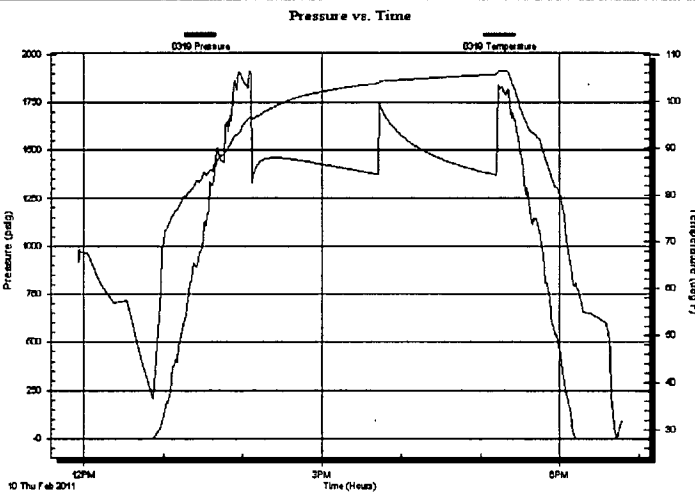
Start Time: 11:55:41

End Time: 18:47:05

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-2.25in blow died back to 2in
ISI-No blow
FF-surface blow died in 2min Flushtool surface blow died in 6min
FSI-No blow



PRESSURE SUMMARY

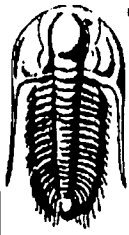
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
45.00	VSOCM 2%O 98%M	0.36

Gas Rates

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



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Job Ticket: 41917

DST#: 3

ATTN:

Test Start: 2011.02.10 @ 11:55:53

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 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
45.00	VSOCM 2%O 98%M	0.358

Total Length: 45.00 ft

Total Volume: 0.358 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

