

JUSTIN D. CARTER

CONSULTING GEOLOGIST

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: M&N GATES 1-16
Well Id:
Location: NW, NW, NW Sec. 16 - 22S - 13W Stafford Co., KS
License Number: 15-185-24046-0000
Spud Date: 01/17/19
Surface Coordinates: 330' FNL, 330' FWL
Region: Kenilworth West
Drilling Completed: 01/25/19

Bottom Hole Coordinates: 306': 1/2 DEG, 3446': 3/4 DEG, 3900': 3/4 DEG
Ground Elevation (ft): 1898' K.B. Elevation (ft): 1906'
Logged Interval (ft): 3100' To: 3900' Total Depth (ft): 3900'
Formation: L/KC, VIOLA, ARBUCKLE
Type of Drilling Fluid: Chemical Mud

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: BIRD DOG OIL, LLC
Address: 1801 Broadway, Suite #200
Denver, CO 80202-3840
Co. Geo.: Mr. Scott Stewart

GEOLOGIST

Name: Justin D. Carter
Company: Consulting Geologist
Address: 1640 N. Roosevelt Ave.
Liberal, KS 67901
Phone: 620-655-1187

Comments

Drilling Contractor: Discovery Drilling Rig #2
Tool Pusher: Terry Wickham

8 5/8" surface casing set at 306'

Mud: MudCo
Engineer: Jason Whiting

Gas Detector: Blue Stem

DSTs: Eagle Testers
Tester: Gene Budig

Open-Hole Loggers: Pioneer Wireline



DRILL STEM TEST REPORT

Bird Dog Oil LLC

16-22s-13w Stafford

1601 Broadway Suite 200 Denver, Colorado 80202

M&N-Gates #1-16

Job Ticket: 01073

DST#: 2

ATTN: Justin Carter

Test Start: 2019.01.22 @ 14:21:00

GENERAL INFORMATION

Formation: Kansas City E & F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:07:00

Time Test Ended: 19:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3470.00 ft (KB) To 3500.00 ft (KB) (TVD)

Total Depth: 3500.00 ft (KB) (TVD)

Hole Diameter: 7.00 inches Hole Condition: Fair

Reference Elevations: 1909.00 ft (KB)

1901.00 ft (CF)

KB to CR/CF: 8.00 ft

Serial #: 91716 Outside

Press@RunDepth: 400.14 psig @ 3495.00 ft (KB)

Start Date: 2019.01.22

End Date:

2019.01.22

Start Time: 14:21:00

End Time:

19:49:00

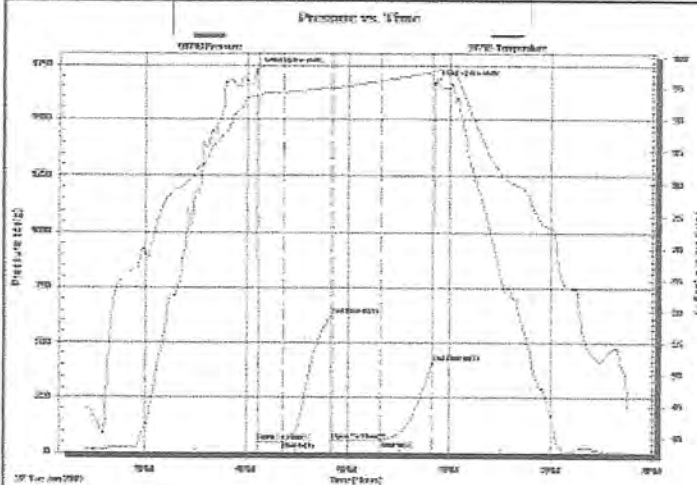
Capacity: 5000.00 psig

Last Calib.: 2019.01.22

Time On Blm: 2019.01.22 @ 16:06:00

Time Off Blm: 2019.01.22 @ 17:51:00

TEST COMMENT 1st Opening 15 Minutes Weak blow for 12 minutes and died
 1st Shut-In 30 Minutes
 2nd Opening 30 Minutes weak blow for 10 Minutes decreased to a weak intermittent blow
 2nd Shut-In 30 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.19	93.66	Initial Hydro-static
1	49.17	93.77	Open To Flow (1)
16	51.01	94.20	Shut-In (1)
44	627.47	95.04	End Shut-In (1)
45	53.27	95.09	Open To Flow (2)
74	56.27	96.10	Shut-In (2)
104	400.14	97.59	End Shut-In (2)
105	1684.21	97.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	very slightly oil cut mud less than	0.24
0.00	1 % oil 99% mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Bird Dog Oil LLC
 1801 Broadway Suite 200 Denver, Colorado
 80202
 ATTN: Justin Carter

16-22s-13w Stafford
 M&N-Gates #1-16
 Job Ticket: 01072 DST#:1
 Test Start: 2019.01.22 @ 00:49:00

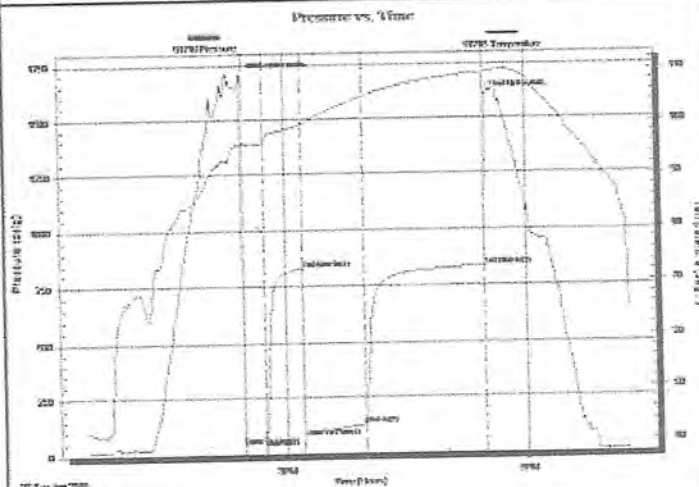
GENERAL INFORMATION

Formation: **Kansas City "C"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 01:49:00
 Time Test Ended: 06:38:00
 Interval: **3429.00 ft (KB) To 3446.00 ft (KB) (TVD)**
 Total Depth: **3446.00 ft (KB) (TVD)**
 Hole Diameter: **7.89 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Gene Budig**
 Unit No: **1**
 Reference Elevations: **1909.00 ft (KB)**
1901.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: **91716** Outside
 Press@RunDepth: **837.21 psig @ 3441.00 ft (KB)** Capacity: **5000.00 psig**
 Start Date: **2019.01.22** End Date: **2019.01.22** Last Calib.: **2019.01.22**
 Start Time: **12:28:00** End Time: **19:16:00** Time On Btm: **2019.01.22 @ 14:28:00**
 Time Off Btm: **2019.01.22 @ 17:29:30**

TEST COMMENT 1st Opening 15 Minutes weak building blow built to 5 inches into the water
 1st Shut-In 30 Minutes
 2nd Opening 45 Minutes weak building blow built to 12 inches into the water
 2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.95	95.76	Initial Hydro-static
1	42.11	95.82	Open To Flow (1)
16	89.89	98.04	Shut-In (1)
45	832.04	99.78	End Shut-In (1)
46	76.72	99.80	Open To Flow (2)
90	129.84	104.97	Shut-In (2)
161	837.21	109.31	End Shut-In (2)
182	1605.96	109.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (BU)
30.00	SLIGHTLY OIL CUT MUD	0.24
0.00	8% Oil 82% Mud 80% Water	0.00
150.00	Muddy Water 10% Mud 90% Water	1.18
0.00	chlorides 56000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Bird Dog Oil LLC
 1801 Broadway Suite 200 Denver, Colorado
 80202
 ATTN: Justin Carter

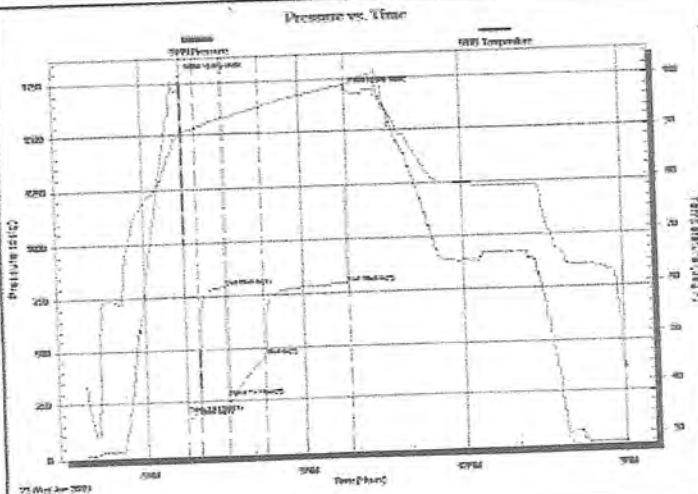
16-22s-13w Stafford
 M&N-Gates #1-16
 Job Ticket: 01074 DST#:3
 Test Start: 2019.01.23 @ 04:49:00

GENERAL INFORMATION

Formation: **Kansas City "H"**
 Deviated: No Whipstock: IL (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 03:09:00
 Interval: 3532.00 ft (KB) To 3552.00 ft (KB) (TVD)
 Total Depth: 3552.00 ft (KB) (TVD)
 Hole Diameter: 7.00 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1909.00 ft (KB)
 1901.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 796.02 psig @ 3547.00 ft (KB)
 Start Date: 2019.01.23 End Date: 2019.01.23
 Start Time: 04:49:00 End Time: 15:03:00
 Capacity: 5000.00 psig
 Last Calib.: 2019.01.23
 Time On Btm: 2019.01.23 @ 08:44:30
 Time Off Btm: 2019.01.23 @ 09:50:30

TEST COMMENT
 1st Opening 15 Minutes strong blow gas to surface in 8 minutes
 1st Shut-In 30 Minutes good blow back
 2nd opening 45 Minutes strong blow see gas flow report
 2nd Shut-In 30 Minutes good blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.71	90.52	Initial Hydro-static
1	196.88	90.52	Open To Flow (1)
15	220.26	91.17	Shut-In (1)
47	796.27	93.00	End Shut-In (1)
49	266.83	92.89	Open To Flow (2)
60	480.80	95.00	Shut-In (2)
108	796.02	99.84	End Shut-In (2)
186	1690.69	99.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (BBL)
1900.00	Clean Gassy Oil 30% Gas 70% Oil	24.77
0.00	Gravity SB Corrected	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMSCF)
First Gas Rate	0.13	21.00	13.25
Last Gas Rate	0.13	1.00	5.76
Max. Gas Rate	0.13	21.00	13.25



DRILL STEM TEST REPORT

Bird Dog Oil LLC

16-22s-13w Stafford

1601 Broadway Suite 200 Denver, Colorado 80202

M&N-Gates #1-16

Job Ticket: 01075

DST#: 4

ATTN: Justin Carter

Test Start: 2019.01.24 @ 04:36:00

GENERAL INFORMATION

Formation: **Arbuckle**

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

Time Tool Opened: 08:16:00

Time Test Ended: 21:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3760.00 ft (KB) To 3623.00 ft (KB) (TVD)**

Total Depth: **3923.00 ft (KB) (TVD)**

Hole Diameter: **7.69 inches** Hole Condition: Fair

Reference Elevations: **1909.00 ft (KB)**

1901.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **91716** Outside

Press@RunDepth: **479.49 psig @ 3817.76 ft (KB)**

Capacity: **5000.00 psig**

Start Date: **2019.01.24**

End Date: **2019.01.24**

Last Calib.: **2019.01.24**

Start Time: **16:19:00**

End Time: **21:31:29**

Time On Blm: **2019.01.24 @ 16:02:00**

Time Off Blm: **2019.01.24 @ 16:50:00**

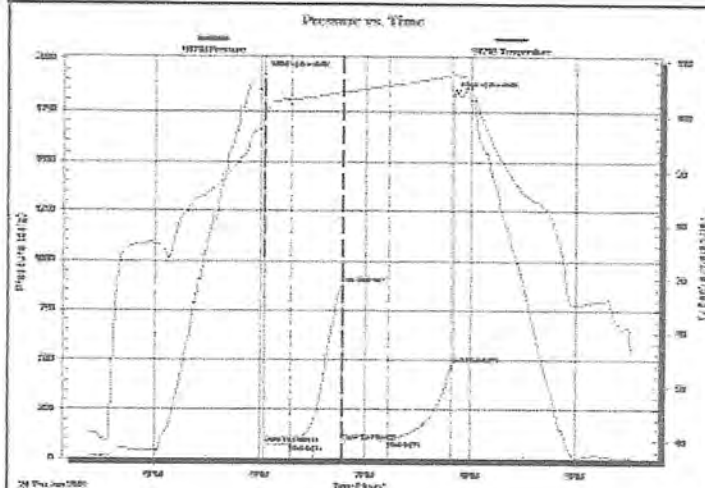
TEST COMMENT

1st Opening 15 Minutes weak 1 inch blow

1st Shut-In 30 Minutes

2nd Opening 30 Minutes no blow for 10 minutes weak blow for 6 minutes and died

2nd Shut-In 30 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1922.17	99.77	Initial Hydro-static
1	73.98	100.52	Open To Flow (1)
15	74.78	103.00	Shut-In (1)
45	91.54	104.33	End Shut-In (1)
45	91.54	104.35	Open To Flow (2)
71	92.97	105.48	Shut-In (2)
107	479.49	107.40	End Shut-In (2)
109	1024.70	107.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	oil cut mud 30% Oil 70% Mud	0.00
0.00	Clean oil between the tools	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Bird Dog Oil LLC

16-22s-13w Stafford

1601 Broadway Suite 200 Denver, Colorado 80202

M&N-Gates #1-16

Job Ticket: 01076

DST#: 5

ATTN: Justin Carter

Test Start: 2019.01.25 @ 04:19:00

GENERAL INFORMATION

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Test Opened: 05:50:00

Time Test Ended: 11:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3923.00 ft (KB) To 3926.00 ft (KB) (TVD)

Total Depth: 3926.00 ft (KB) (TVD)

Hole Diameter: 7.66 inches Hole Condition: Fair

Reference Elevations: 1909.00 ft (KB)

1901.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 9119

Inside

Press@RunDepth: 1326.37 psig @ 3923.00 ft (KB)

Start Date: 2019.01.25

End Date:

2019.01.25

Capacity: 5000.00 psig

Last Calc.: 2019.01.25

Start Time: 04:19:00

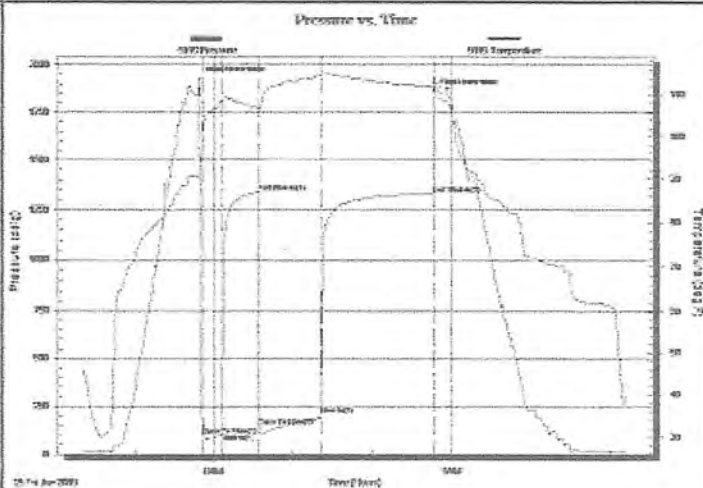
End Time:

11:12:30

Time On Blm: 2019.01.25 @ 05:49:00

Time Off Blm: 2019.01.25 @ 09:46:30

TEST COMMENT
 1st Opening 15 Minutes fair blow built to the bottom of a 5 gallon bucket in 12 minutes
 1st Shut-In 30 Minutes 1/2 inch blow back
 2nd Opening 45 Minutes fair blow built to the bottom of a 5 gallon bucket in 17 minutes
 2nd Shut-In 90 Minutes 1/2 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1924.45	90.99	Initial Hydro-static
2	100.39	99.69	Open To Flow (1)
16	107.77	109.69	Shut-In (1)
45	1336.07	106.67	End Shut-In (1)
45	150.97	106.23	Open To Flow (2)
92	206.09	114.67	Shut-In (2)
177	1326.37	112.01	End Shut-In (2)
179	1057.86	112.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	Clean Gassy Oil 290% Gas 90 % Oil	3.84
30.00	muddy gassy oil 20% gas 50 % Oil 30% MO.42	

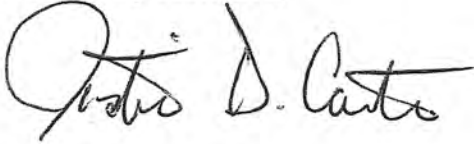
Gas Rates

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

Remarks


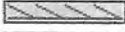
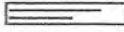

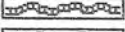



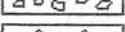

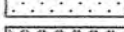
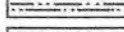
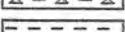

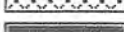
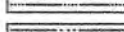

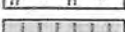

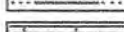
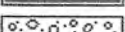
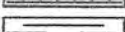



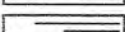

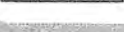


After careful review of the sample log, electric logs, and DST reports, the decision was made to run 5 1/2" casing to do further testing of the L/KC and Arbuckle zones in the M&N Gates #1-16.

Respectfully submitted,

























































































Justin D. Carter
Consulting Geologist

ROCK TYPES

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sltyslts
 Coal	 Salt	 Dol	 Lms
 Congl	 Shale	 Dtd	
 Dol	 Shcol	 Gry sh	

ACCESSORIES

FOSSIL	MINERAL	 Salt	 Dol
 Algae	 Anhy	 Sandy	 Grysh
 Amph	 Arggrn	 Silt	 Gryslt
 Belm	 Arg	 Sil	 Lms
 Bioclst	 Bent	 Sulphur	 Sandylms
 Brach	 Bit	 Tuff	 Sh
 Bryozoa	 Brecfrag	 Chlorite	 Sltstn
 Cephal	 Calc	 Dol	
 Coral	 Carb	 Sand	TEXTURE
 Crin	 Chtdk	 Silty	 Boundst
 Echin	 Chtft		 Chalky
 Fish	 Dol	STRINGER	 Cryxin
 Foram	 Feldspar	 Anhy	 Earthy
 Fossil	 Ferrpel	 Arg	 Finexin
 Gastro	 Ferr	 Bent	 Grainst
 Oolite	 Glau	 Coal	 Lithogr
 Ostra	 Gyp	 Dol	 Microxin
 Pelec	 Hvymin	 Gyp	 Mudst
 Pellet	 Kaol	 Ls	 Packst
 Pisolite	 Marl	 Mrst	 Wackest
 Plant	 Minxl	 Sltstrg	
 Strom	 Nodule	 Ssstrg	
 Fuss	 Phos	 Carbsh	
 Oomold	 Pyr	 Clystn	

OTHER SYMBOLS

INTERVALS	 Dst	OIL SHOWS	 Ques
 Core		 Even	 Dead
 Dst		 Spotted	 Gas show

N @ 306'

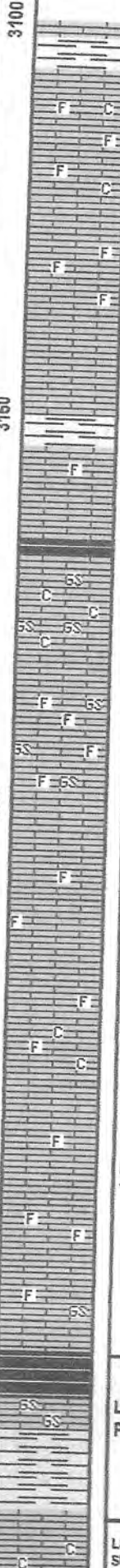
WT 8.6
VIS 63
LCM 1#
RPM 80
WOB 30K
PP 760

3100

3150

3200

3250



LS-LT TN, HRD TO BRITT IP, VF-XLN, SUCRO MTRX THRU, TR IMBED FOSS FRAGS, SFT WHT CHLK IP, NO FLO, PR INTER-XLN POR SCAT THRU, NS

LS-LT CRM, HRD TO BRITT IP, VF-XLN, SUCRO MTRX IPTO RE-XLN MTRX IP, IMBED FOSS FRAGS IP, TR SFT WHT CHLK, NO FLO, TR INTER-FOSS POR TO TR INTER-XLN POR, NS

LS-GY, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

LS-CRM, BRITT, MDF-XLN, GRNST, FRIABLE IP, TR SFT WHT CHLK, NO FLO, GD INTER-XLN POR IP, NS

LS-CRM TN, BRITT, MDF-XLN, GRNST, IMBED FOSS FRAGS SCAT THRU, NO FLO, FR INTER-XLN POR SCAT THRU, NS

LS-GY CRM TN, MOTT, HRD TO BRITT IP, FVF-XLN, RE-XLN MTRX TO TR GRNST, SFT WHT CHLK IP, IMBED FOSS FRAGS IP, NO FLO, TR INTER-XLN POR, TR BLK RESID OIL STAIN, NO ODOR

LS-CRM, HRD TO BRITT IP, VF-XLN, RE-XLN MTRX IP TO SUB-CHLKY MTRX IP, TR IMBED FOSS FRAGS, TR SFT WHT CHLK, NO FLO, NO VIS POR

LS-CRM, HRD, VF-XLN, RE-XLN MTRX IP TO TR SUCRO MTRX, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

HEEBNER 3271' (-1365')

LS-CRM, HRD DNS, F-XLN, GRNST, NO FLO, TR INTER-XLN POR TO NO VIS POR THRU, NS

TORONTO 3291' (-1385')

LS-OFF WHT, HRD DNS, FVF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, TR SFT WHT CHLK, NO FLO, TR INTER-XLN POR, NS

6:00 A.M. 01/21/19

CN

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CN

CN

CN

RDP (min/ft)
Gamma (API)

MUD CHECK @ 3206'
WT 8.7
VIS 65
LCM TR
PV 16
YP 14
PH 10.5
FIL 64
CAL 20
CHL 6,500

TG. 01-C5 200

TORONTO 3291' (-1385')

LS- OFF WHT, HRD DNS, FVF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, TR SFT WHT CHLK, NO FLO, TR INTER-XLN POR, NS

DOUGLAS 3306' (-1400')

SH- RD GY, FRM TO SFT IP, BLKY TO FISS IP, ARG TO TR SLTY

SH- GY LT GRN, FRM, FISS TO TR BLKY, ARG

SH- GY LT GY, FRM, BLKY TO FISS IP, ARG TO TR SLTY

SLTST-LT GY, TT, VF-GRNS, DISS BLK SH IP, NO VIS POR

SLTST-GYLT GY, TT, VF-GRNS, DISS BLK SH IP TO TR MICA BLK SH, NO FLO, TR INTER-GRN POR, NS

BROWN LIME 3399' (-1493')

SHORT TRIP 25 STANDS @ 3403'

LANSING 3416' (-1510')

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, IMBED OOL THRU, TR OPQ OOL CHRT, NO FLO, NO VIS POR

LS- CRM WHT, HRD, FVF-XLN, GRNST TO TR RE-XLN MTRX, YEL GLD FLO IN 80%, FAINT FLUSH TO PR SLO BLU STRM CUT, PR INTER-XLN POR IP TO TR MICRO PP POR, TN STAIN IN 20%, FAINT ODOR, TR FREE OIL

LS- CRM BFF, HRD DNS, FVF-XLN, RE-XLN MTRX THRU, BRIT YEL GLD FLO IN 40%, PR FLUSH TO VIFAINF SLO BLU STRM CUT, TR INTER-XLN POR TO TR VUG POR, TN STAIN IN 20%, FAINT ODOR, NSFO

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR BRIT YEL GLD FLO, FAINT BLU STRM CUT, NO VIS POR TO TR INTER-XLN POR, TR STAIN, FAINT ODOR, NSFO

LS- GY CRM, HRD TO BRIT IP, MDIF-XLN, GRNST, BRIT YEL GLD FLO IN 80%, PR FLUSH TO FAINT SLO BLU STRM CUT, FR INTER-XLN POR SCAT THRU, TN STAIN IP TO TR BLK RESID STAIN, FAINT ODOR, NSFO

LS-LT CRM OFF WHT, HRD, FVF-XLN, SUCRO MTRX THRU TO TR GRNST, TR SFT WHT CHLK, BRIT YEL GLD FLO IN 70%, FR FLUSH TO PRFR SLO BLU STRM CUT, NO VIS POR TO TR INTER-XLN POR, LIVE STAIN IN 50%, FAINT ODOR, TR FREE OIL

WT 8.9
VIS 60
LCM TR
RPM 80
WOB 30K
PP 760

OP (min/ft)
Gamma (API)

DST #1 3429' - 3446'

DST #2 3470' - 3500'

MUD CHECK @ 3446'

WT 9.2
VIS 68
LCM TR
PV 13
YP 22
PH 9.5
FIL 11.2
CAL 120
CHL 13,200

12:00 A.M.
01/22/19

230 U
SHOW

CN

CN

CN

CN

CN

185 U SHOW

CN

3300

3350

3400

3450

3500

A

C

D

E

F

VIOLA 3716' (-1810')

CHRT-CRM WHT, HRD DNS, ANG, BRIT YEL GLD FLO IN 30%, FAINT FLUSH TO PR SLO BLU STRM CUT, NO VIS POR TO POSS FRAC POR, BLK/DK TN STAIN IP, FAINT ODOR, NSFO

CHRT-WHT, HRD DNS, ANG, TN DOLO W/ STAIN IP, YEL GLD FLO IN 80%, PR FLUSH TO PR SLO BLU STRM CUT, TR INTER-XLN POR IN DOLO TO NO VIS POR THRU, TN STAIN IN 30%, STRNG ODOR, NSFO

3754' DOLO-TN, HRD, F-XLN, SUCRO MTRX THRU, WHT CHRT W/ STAIN IP, DLL YEL FLO THRU, FAINT FLUSH TO PR SLO BLU STRM CUT, PR INTER-XLN POR THRU, TN STAIN THRU, STRNG ODDR, FREE OIL

SIMPSON 3763' (-1857')

SH-DK RD GRN, FRM, BLKY, ARG, WXYTEXT, RD CHRT IP, TR OOMLDC DOLO

SS-TN, TT, F-GRNS, FR SRT, SUB-ANG TO SUB-RND GRNS, SILI CMNT, TR IMBED CHLK, VIDLL YEL FLO THRU, FR FLUSH TO FR BLU STRM CUT, PR/FR INTER-GRN POR THRU, TN STAIN THRU, STRNG ODOR, FREE OIL

SH-BLUIH GRN, FRM TO SFT IP, LMY, IMBED CLR SS GRNS

ARBUCKLE 3814' (-1908')

DOLO-WHT, BRITT TO HRD DNS, VF-XLN, SUCRO MTRX THRU, OOL IMBED IP, YEL GLD FLO THRU, GD FLUSH TO GD FAST BLU STRM CUT, FR OOMLDC POR SCAT THRU TO TR INTER-OOL POR, LIVE STAIN IN 70%, STRNG ODOR, FREE OIL

3825' DOLO-WHT PINK, HRD TO BRITT IP, MDIF-XLN, SUCRO MTRX THRU, YEL GLD FLO THRU, FR FLUSH TO FR BLU STRM CUT, FR INTER-XLN POR THRU, BLK STAIN IN 40%, STRNG ODOR, TR FREE OIL

3831' DOLO-WHT, HRD TO BRITT IP, MDIF-XLN, SUCRO MTRX THRU, YEL GLD FLO IN 20%, FR FLUSH TO FR BLU STRM CUT, PR/FR INTER-XLN POR THRU, BLK STAIN SCAT THRU, FR/STRNG ODOR, TR FREE OIL

3840' DOLO-WHT LT CRM, HRD, MDIF-XLN, SUCRO MTRX THRU, YEL GLD FLO IN 80%, FR FLUSH TO FR BLU STRM CUT, PR/FR INTER-XLN POR THRU, BLK STAIN IN 30%, STRNG ODOR, HVY FREE OIL IP

3855' DOLO-OFF WHT LT CRM, HRD, MDIF-XLN, SUCRO MTRX THRU, DLL YEL GLD FLO THRU, FAINT FLUSH TO PR SLO BLU STRM CUT, PR INTER-XLN POR THRU, TR BLK STAIN, TR FREE OIL FR/STRNG ODOR

3870' DOLO-OFF WHT, HRD DNS, FVF-XLN, SUCRO MTRX THRU TO TR RE-XLN MTRX, TR WHT CHRT, NO FLO, NO VIS CUT, TR INTER-XLN POR

DOLO-OFF WHT, HRD, MD-XLN, SUCRO MTRX THRU, TR GLAUC, NO FLO, NO VIS CUT, PR/FR INTER-XLN POR THRU

FINISH E-LOG 1:30 A.M. 01/25/19

MUD CHECK @ 3720'
WT 9.0
VIS 60
LCM TR
PV 11
YP 36
PH 10.0
FIL 10.0
CAL 160
CHL 11,200

CN

CN

CN

12:00 A.M. 01/25/19

MUD CHECK @ 3825'
WT 9.2
VIS 51
LCM TR
PV 10
YP 28
PH 10.0
FIL 14.4
CAL 100
CHL 15,800

CN

8:15 P.M. 01/25/19

-CFS-

DST #4 3760-3823'

ROP (min/ft)
Gammock (API)

DST #5 3823' - 3828'

-CFS-

R.T.D. 3900'

L.T.D. 3895'

3750

3800

3850

3900