Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1194026

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 7030
Name: John Roy Evans Oil Company LLC
Address 1: 405 FOURTH ST
Address 2: BOX 385
City: CLAFLIN State: KS Zip: 67525 + 0385
Contact Person: Gary Kirmer
Phone: (620) 587-3565
CONTRACTOR: License # 33905
Name: Royal Drilling Inc
Wellsite Geologist: Wyatt Urban & Josh Austin
Purchaser: NCRA

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
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

3/01/2014	3/7/2014	03/17/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25948-00-00
Spot Description:
NW SE NW NE Sec. 6 Twp. 17 S. R. 11 ☐ East ☑ West
910 Feet from ☑ North / ☐ South Line of Section
1815 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Barton
Lease Name: Demel Well #: 3
Field Name: Kraft-Prusa
Producing Formation: Conglomerate Sand
Elevation: Ground: 1876 Kelly Bushing: 1883
Total Vertical Depth: 3400 Plug Back Total Depth: 3379
Amount of Surface Pipe Set and Cemented at: 752 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: 49000 ppm Fluid volume: 1000 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

☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 04/04/2014

[redacted] 1194026

Operator Name: John Roy Evans Oil Company LLC Lease Name: Demel Well #: 3

Sec. 6 Twp. 17 S. R. 11 ☐ East ☑ West County: Barton

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: 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	12.25	8.625	23	752	Common	285	3% CC, 2% Gel.
Production	7.875	5.5	14	3395	Common	250	10% Salt, 5% Gil.

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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

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
4	3334-3340	Natural	

TUBING RECORD: Size: 2.875 Set At: 3330 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
	30		80		39

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:

3334-3340

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	John Roy Evans Oil Company LLC
Well Name	Demel 3
Doc ID	1194026

All Electric Logs Run

Microresistivity
Dual Induction
Dual Compensated Porosity
Sonic Cement Bond

Form	ACO1 - Well Completion
Operator	John Roy Evans Oil Company LLC
Well Name	Demel 3
Doc ID	1194026

Tops

Name	Top	Datum
Anhydrite	736	+1147
Heebner	2954	-1071
Douglas	2982	-1099
Brown Lime	3054	-1171
Lansing	3068	-1185
Base KC	3318	-1435
Conglomerate	3323	-1440
Arbuckle	3358	-1475

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7117

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-1-14	6	17	11	Barton	KS		1:00PM

Location

Lease Deinel Well No. 3

Contractor Royal #2

Type Job Surface

Hole Size 12¼ T.D. 752

Csg. 8⅝ Depth 752

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint 33

Meas Line Displace 45½ bbl

EQUIPMENT

Pumptrk 17 No. Cementer / Helper Nick

Bulktrk 19 No. Driver / Driver Ryan

Bulktrk PU No. Driver / Driver Travis

JOB SERVICES & REMARKS

Remarks: Cement did circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Owner

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.

Charge To John Ray Evans

Street

City State

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

Cement Amount Ordered 285 com, 3%cc, 2%gel

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
1 Rubber Plug	
1 Baffal Plat	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No. 472**
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-6-14	6	17	11	Barton	KS	10:00 PM	2:15 AM

Location Hitschman 1E 1S 1/2 W

Lease DeMel Well No. 3

Contractor Royal 2

Type Job Long String

Hole Size 7 7/8 T.D. 3900

Csg. 5½ Depth 3397.09

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 14.35 Shoe Joint 14.35

Meas Line 14 ft Displace 82.5 BBL

EQUIPMENT

Pumptrk 16	No.	Cementer / Helper	Matt
Bulktrk 14	No.	Driver / Driver	Bill
Bulktrk 24	No.	Driver / Driver	Jason Ney

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30 SKS

Mouse Hole 20 SKS

Centralizers 1, 3, 5, 7, 9, 11, 13

Baskets 2, 4

D/V or Port Collar

Dropped Ball Circulated 1 hour Run mud flush plug Rat and Mouse hole Mix 200 SK. down hole displace 82.5 bbl water

Land 700 PSI

Land 1500 PSI

Owner Same

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.

Charge To John Roy Evans

Street

City State

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

Cement Amount Ordered 250 Com 10% Salt 5% Salt 5% Gilsonite

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	500 Gal
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer Turbos 7	
Baskets 2	
AFU Inserts	
Float Shoe 1	
Latch Down 1	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature Thom Blake

Musgrove PETROLEUM CORPORATION
Claflin, Kansas

COMPANY: John Roy Evans Oil Company LLC

LEASE: DEMEL #3

FIELD: Kraft-Prusa

LOCATION: Nw-Se-Nw-Ne (910 FNL & 1815' FEL)

SEC: 6 TWSP: 17s RGE: 11w

COUNTY: Barton STATE: Kansas

KB: 1883 GL: 1876

API # 15-009-25948-00-00

CONTRACTOR: Royal Drilling (rig #2)

Spud: 02/28/2014 Comp: 03/06/2014

RTD: 3400' LTD: 3400'

Mud Up: 2660 Type Mud: Chemical was displaced

Samples Saved From: 2800' to RTD

Drilling Time Kept From: 2800' to RTD

Samples Examined From: 2800' to RTD

Geological Supervision From: 2800' to RTD

Geologist on Well: Wyatt Urban & Josh Austin

Surface Casing: 8 5/8" @ 752'

Production Casing: 5 1/2" @

Electronic Surveys: By Pioneer Energy Services

NOTES

On the basis of the positive drill stem test and after reviewing the electric logs, it was recommended by all parties involved in the Demel #3 to run 5 1/2" production casing at the rotary total depth 3400'.

Correction: Pipe was straped after DST #1 and found to be 30' off. All drill time and sample tops were corrected.

John Roy Evans Oil Company LLC
well comparison sheet

	DRILLING WELL Demel #3				COMPARISON WELL Demel #2 s/2-Sw-Nw-Ne				COMPARISON WELL Demel #1 Nw-Ne-Ne			
	1883 KB				1876 KB		Structural Relationship		1895 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anyhidrite					737	1139	1139					
Heebner	2959	-1076	2954	-1071	2949	-1073	-3	2	2962	-1067	-9	-4
Toronto	2974	-1091	2970	-1087	2965	-1089	-2	2	2980	-1085	-6	-2
Douglas	2986	-1103	2982	-1099	2977	-1101	-2	2	2991	-1096	-7	-3
Brown Lime	3058	-1175	3054	-1171	3048	-1172	-3	1	3065	-1170	-5	-1
Lansing	3074	-1191	3068	-1185	3066	-1190	-1	5	3081	-1186	-5	1
Base KC	3321	-1438	3318	-1435	3309	-1433	-5	-2	3314	-1419	-19	-16
Conglomerate	3329	-1446	3323	-1440	3320	-1444	-2	4	3318	-1423	-23	-17
Arbuckle	3360	-1477	3358	-1475	3331	-1455	-22	-20				
Total Depth	3400	-1517	3374	-1491	3600	-1724			3420	-1525		

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: STC/Demel3dst1

TIME ON: 00:01 3/5/2014
TIME OFF: 05:10 3/5/2014

Company JOHN ROY EVANS — Lease & Well No. DEMEL #3
Contractor ROYAL DRILLING RIG #2 — Charge to JOHN ROY EVANS
Elevation ____ Formation UPPER LANSING Effective Pay ____ Ft. Ticket No. j3192
Date 3/05/14 Sec. 6 Twp. 17 S Range 11 W County BARTON State KANSAS
Test Approved By GARY KIRMER — Diamond Representative JOHN RIEDL

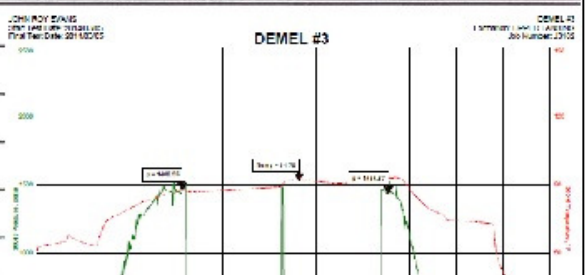
Formation Test No. 1 Interval Tested from 3058 ft. to 3113 ft. Total Depth 3113 ft.
Packer Depth 3053 ft. Size 6 3/4 in. — Packer depth ____ ft. Size 6 3/4 in.
Packer Depth 3058 ft. Size 6 3/4 in. — Packer depth ____ ft. Size 6 3/4 in.
Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 3061 ft. — Recorder Number 30046 Cap. 6000 P.S.I.
Bottom Recorder Depth (Outside) 3110 ft. — Recorder Number 13498 Cap. 6000 P.S.I.
Below Straddle Recorder Depth ____ ft. — Recorder Number ____ Cap. ____ P.S.I.

Mud Type CHEMICAL Viscosity 59 — Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.7 Water Loss 7.6 cc. — Weight Pipe Length 0 ft. I.D. 2 7/8 in
Chlorides 5,400 P.P.M. — Drill Pipe Length 3038 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number NOT REQUESTED — Test Tool Length 20 ft. Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO — Anchor Length 55 ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. — Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: VERY WEAK DEAD IN 20 MINUTES
2nd Open: VERY WEAK DEAD IN10 MINUTES: FLUSHED TOOL AND RECEIVED SHORT SURGE

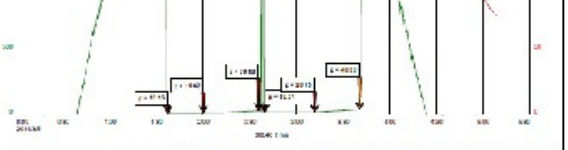
Recovered 15 ft. of DRILLING MUD
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Recovered ____ ft. of ____



Recovered _____ ft. of _____

Remarks: TOTAL FLUID RECOVERY :15 ' IN DRILL PIPE

TOOL SAMPLE GRINDOUT (100%MUD)



Time Set Packer(s) 1:35 A.M A.M. P.M. Time Started Off Bottom 3:35 A.M A.M. P.M. Maximum Temperature 92

Initial Hydrostatic Pressure ..... (A) 1462 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 13 P.S.I. to (C) 16 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 30 P.S.I.

Final Flow Period ..... Minutes 30 (E) 19 P.S.I. to (F) 21 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 40 P.S.I.

Final Hydrostatic Pressure ..... (H) 1435 P.S.I.

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Demel3dst2

TIME ON: 23:45 3/5/2014

TIME OFF: 06:20 3/6/2014

Company JOHN ROY EVANS Lease & Well No. DEMEL #3

Contractor ROYAL DRILLING RIG #2 Charge to JOHN ROY EVANS

Elevation _____ Formation CONGLOMERATE SAND Effective Pay _____ Ft. Ticket No. j3193

Date 3/05/14 Sec. 6 Twp. 17 S Range 11 W County BARTON State KANSAS

Test Approved By GARY KIRMER Diamond Representative JOHN RIEDL

Formation Test No. 2 Interval Tested from 3304 ft. to 3345 ft. Total Depth 3345 ft.

Packer Depth 3299 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3304 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3307 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3342 ft. Recorder Number 13498 Cap. 6000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 59 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9 Water Loss 8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 6,000 P.P.M. Drill Pipe Length 3284 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 41 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: STRONG (B.O.B 4 MINUTES) NO BB

2nd Open: B.O.B 4 MINUTES) NO B

Recovered 30 ft. of GIP

Recovered 870 ft. of W+MCO (25%WATER 25%MUD 50%OIL)

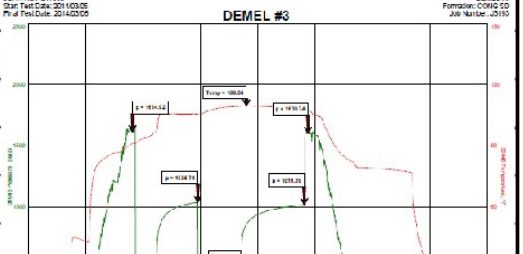
Recovered 120 ft. of VSLOCW (2%OIL 98%WATER) CHLORIDES 28,000Ppm

Recovered _____ ft. of _____

Recovered _____ ft. of _____

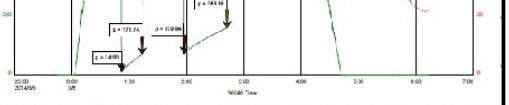
Recovered _____ ft. of _____

Remarks: TOTAL FLUID REC:990' IN DRILL PIPE



Remarks: TOTAL FLUID REC:550' IN DRILL PIPE

TOOL SAMPLE GRNDOUT:25%WATER 75%OIL



Time Set Packer(s) 12:45 A.M A.M. P.M. Time Started Off Bottom 3:45 A.M A.M. P.M. Maximum Temperature 110

Initial Hydrostatic Pressure			(A)	1615 P.S.I.		
Initial Flow Period	Minutes	30	(B)	35 P.S.I. to (C)	175 P.S.I.	
Initial Closed In Period	Minutes	45	(D)	1039 P.S.I.		
Final Flow Period	Minutes	45	(E)	180 P.S.I. to (F)	388 P.S.I.	
Final Closed In Period	Minutes	60	(G)	1019 P.S.I.		
Final Hydrostatic Pressure			(H)	1601 P.S.I.		

ROCK TYPES

Congl	Dolsec	shale, grn	Carbon Sh
Chtcongl	Lmst fw7>	shale, gry	Ss

OTHER SYMBOLS

Oil Show
- Even Stn
- Spotted Stn 50-75
- Spotted Stn 25-50
- Spotted Stn 1-25
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- Gas

DST
- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1
ROP (min/ft)
Gamma (API)
Cal (in)
1:240 Imperial

Depth | Intervals
Cored Interval
DST Interval

DST

Lithology

Oil Show

Geological Descriptions

TG, C1 - C5
Total Gas (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
1:240 Imperial

0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16

2820
2840
2860
2880

Limestone; grey, fine xln, fossiliferous, dense, chalky in part, poor porosity

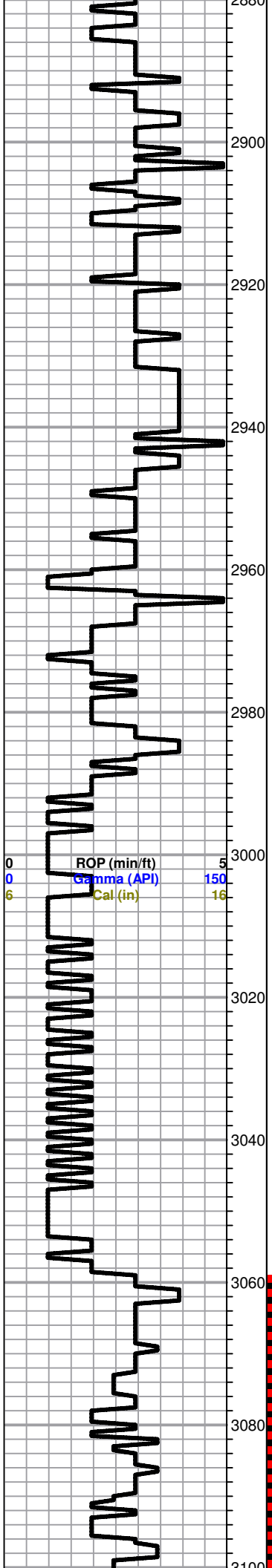
green-grey, shale

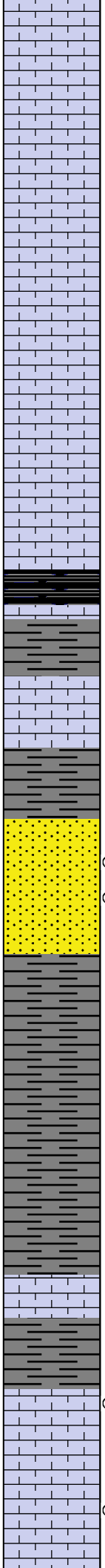
Limestone; tan, fine xln, cherty, poor visible porosity, no shows

Limestone; cream-tan, fine xln, fossilfierous, slighlty cherty, poor visible porosity, no shows

black carboniferou shale

0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100





Limestone; cream, fine xln, poor visible porosity, few fossils

Limestone; tan-buff, fine xln, dense, poor visible porosity, no shows, few fossils

Limestone; cream, tan, fine xln, dense, fossiliferous, poor scattered porosity, no shows

Limestone; cream/grey, fine xln, few fossils

Limestone; as above, poor porosity (dense)

HEEBNER 2959 (-1076)

black carboniferous shale

TORONTO 2974 (-1091)

Limestone; tan, fine xln, poor visible porosity, few fossilfierous, poor spotty brown stain, NSFO, no odor

DOUGLAS 2986 (-1103)

Sand; grey, fine grained, well sorted, SFO, lt. brown stain, odor

Sand as above, plus grey soft shale

Shale; grey, soft/gummy

Shale; as above

BROWN LIME 3058 (-1175)

Limestone; tan-buff, fine xln, slighlty cherty (dense)

LANSING 3704 (-1191)

Limestone; cream-white, chalky, trace golden brown stain, NSFO

Limestone; cream-grey, fine xln, chalky, fossiliferous

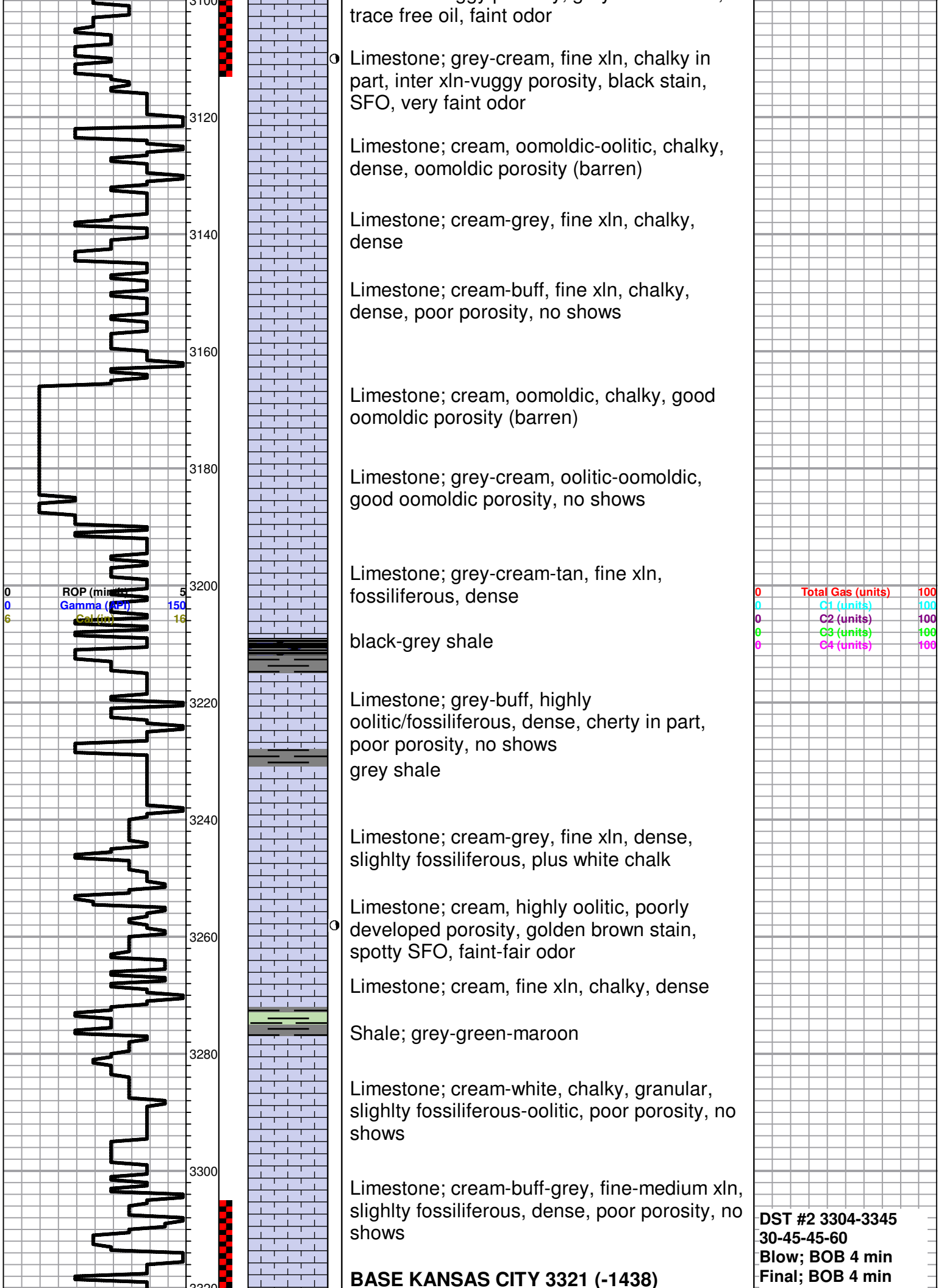
Limestone; cream, oomolidic, chalky, fair oomoldic-vuggy porosity, grey-brown stain,

0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

Wyatt 2800-3020

Josh 3020-RTD

DST #1 3058-3113
30-30-30-30
Blow; weak
Recovery;
15' mud
Pressures;
ISIP 31
FSIP 40
IFP 13-16
FFP 19-21
HSH 1462-1435



trace free oil, faint odor

Limestone; grey-cream, fine xln, chalky in part, inter xln-vuggy porosity, black stain, SFO, very faint odor

Limestone; cream, oomoldic-oolitic, chalky, dense, oomoldic porosity (barren)

Limestone; cream-grey, fine xln, chalky, dense

Limestone; cream-buff, fine xln, chalky, dense, poor porosity, no shows

Limestone; cream, oomoldic, chalky, good oomoldic porosity (barren)

Limestone; grey-cream, oolitic-oomoldic, good oomoldic porosity, no shows

Limestone; grey-cream-tan, fine xln, fossiliferous, dense

black-grey shale

Limestone; grey-buff, highly oolitic/fossiliferous, dense, cherty in part, poor porosity, no shows

grey shale

Limestone; cream-grey, fine xln, dense, slighlty fossiliferous, plus white chalk

Limestone; cream, highly oolitic, poorly developed porosity, golden brown stain, spotty SFO, faint-fair odor

Limestone; cream, fine xln, chalky, dense

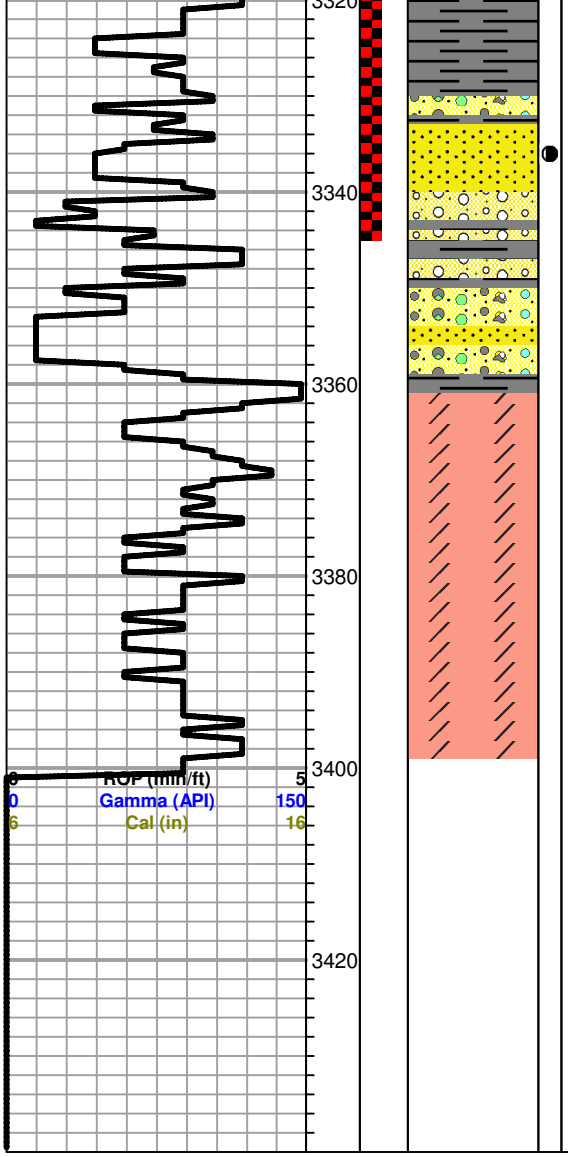
Shale; grey-green-maroon

Limestone; cream-white, chalky, granular, slighlty fossiliferous-oolitic, poor porosity, no shows

Limestone; cream-buff-grey, fine-medium xln, slighlty fossiliferous, dense, poor porosity, no shows

BASE KANSAS CITY 3321 (-1438)

DST #2 3304-3345
30-45-45-60
Blow; BOB 4 min
Final; BOB 4 min



Shale; grey-green, soft/ gummy

CONCLOMERATE 3329 (-1446)

Trace grey-clear oolitic, Chert

Sand; white, sub rounded, sub angular, well cemented, friable in part, dark brown stain, SFO, faint-fair odor

Chert; cream-grey, oolitic, variety color of Shale, plus white sand, no shows

ARBUCKLE 3360 (-1477)

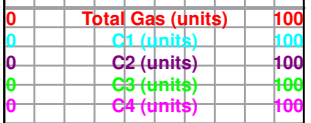
Dolomite; white, medium-rhombic xln, fair inter xln porosity, no shows

Dolomite; white-lt. grey, fine-medium xln, few rhombic xln, slighlty sucrosic, plus FeS2

Dolomite; as above

ROTARY TOTAL DEPTH 3400' (-1517)

no blow back
Recovery;
30' GIP
810' wcmo
(25%W 25%M 50%O)
120' vsocw
(2%oil 98%water)
Pressures;
ISIP 1039
FSIP 1019
IFP 35-175
FFP 180-388
HSH 1615-1601



John Roy Evans Oil Company, LLC
P.O. Box 385
Claflin, KS 67525
620-587-3565 Phone
620-587-3522 Fax

Demel #3 DST

DST #1 3058-3113 30-30-30-30
1st open very weak blow (dead in 20 min)
2nd open very weak blow (dead in 10 min)
Recovered 15' mud
IFP 13-16 psi
ISIP 30 psi
FFP 19-21 psi
FSIP 40 psi
HSH 1462-1435 psi

DST#2 3304-3345 30-45-45-60
1ST open strong blow (BOB 4 min) No Blow Back
2nd open strong blow (BOB 4 min) No Blow Back
Recovered 30' GIP
870' water & mud cut oil (25% water, 25% mud, 50% oil)
120' very slightly oil cut water (2% oil, 98% water)
IFP 35-175 psi
ISIP 1039 psi
FFP 180-388 psi
FSIP 1019 psi
HSH 1615-1601 psi

GENERAL INFORMATION

Client Information:

Company: JOHN ROY EVANS

Contact: GARY KIRMER

Phone: Fax: e-mail:

Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

Well Information:

Name: DEMEL #3

Operator: JOHN ROY EVANS

Location-Downhole:

Location-Surface: S6/17S/11W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: DST #1 CONVENTIONAL

Job Number: J3182

Test Unit:

Start Date: 2014/03/05

Start Time: 00:00:01

End Date: 2014/03/05

End Time: 05:10:00

Report Date: 2014/03/05

Prepared By: JOHN RIEDL

Qualified By: JOSH AUSTIN

Remarks:

RECOVERY: 15' DRILLING MUD

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET

FILE: STC/Demel3dst1

TIME ON: 00:01 3/5/2014

TIME OFF: 05:10 3/5/2014

Company JOHN ROY EVANS — Lease & Well No. DEMEL #3

Contractor ROYAL DRILLING RIG #2 — Charge to JOHN ROY EVANS

Elevation ____ Formation UPPER LANSING Effective Pay ____ Ft. Ticket No. j3192

Date 3/05/14 Sec. 6 Twp. 17 S Range 11 W County BARTON State KANSAS

Test Approved By GARY KIRMER — Diamond Representative JOHN RIEDL

Formation Test No. 1 Interval Tested from 3058 ft. to 3113 ft. Total Depth 3113 ft.

Packer Depth 3053 ft. Size 6 3/4 in. — Packer depth ____ ft. Size 6 3/4 in.

Packer Depth 3058 ft. Size 6 3/4 in. — Packer depth ____ ft. Size 6 3/4 in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 3061 ft. — Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3110 ft. — Recorder Number 13498 Cap. 6000 P.S.I.

Below Straddle Recorder Depth ____ ft. — Recorder Number ____ Cap. ____ P.S.I.

Mud Type CHEMICAL Viscosity 59 — Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 8.7 Water Loss 7.6 cc. — Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 5,400 P.P.M. — Drill Pipe Length 3038 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number NOT REQUESTED — Test Tool Length 20 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO — Anchor Length 55 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. — Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: VERY WEAK DEAD IN 20 MINUTES

2nd Open: VERY WEAK DEAD IN10 MINUTES: FLUSHED TOOL AND RECEIVED SHORT SURGE

Recovered 15 ft. of DRILLING MUD

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: TOTAL FLUID RECOVERY :15 ' IN DRILL PIPE
TOOL SAMPLE GRINDOUT (100%MUD)

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 1:35 A.M A.M. P.M. — Time Started Off Bottom 3:35 A.M A.M. P.M. — Maximum Temperature 92

Initial Hydrostatic Pressure ..... (A) 1462 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 13 P.S.I. to (C) 16 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 30 P.S.I.

Final Flow Period ..... Minutes 30 (E) 19 P.S.I. to (F) 21 P.S.I.

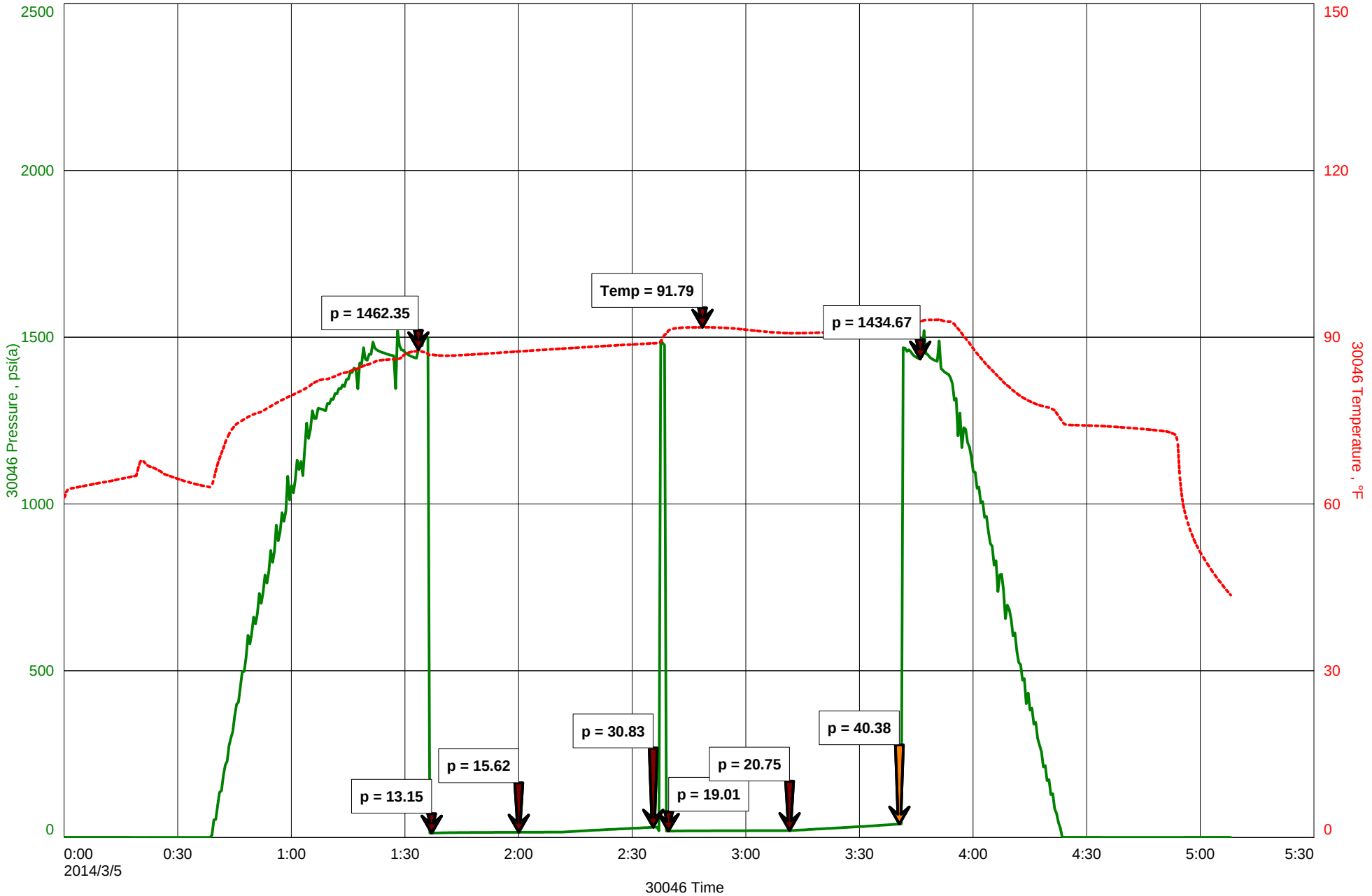
Final Closed In Period ..... Minutes 30 (G) 40 P.S.I.

Final Hydrostatic Pressure ..... (H) 1435 P.S.I.

JOHN ROY EVANS
Start Test Date: 2014/03/05
Final Test Date: 2014/03/05

DEMEL #3
Formation: UPPER LANSING
Job Number: J3182

DEMEL #3



GENERAL INFORMATION

Client Information:

Company: JOHN ROY EVANS

Contact: GARY KIRMER

Phone: Fax: e-mail:

Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

Well Information:

Name: DEMEL #3

Operator: JOHN ROY EVANS

Location-Downhole:

Location-Surface: S6/17S/11W

Test Information:

Company: JOHN ROY EVANS

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: DST #2 CONVENTIONAL Job Number: J3193

Test Unit:

Start Date: 2014/03/05 Start Time: 23:45:00

End Date: 2014/03/06 End Time: 06:20:00

Report Date: 2014/03/06 Prepared By: JOHN RIEDL

Remarks: Qualified By: JOSH AUSTIN

RECOERY: 30' GIP, 870' WATER+MUD CUT OIL, 120' VERY SLIGHTLY OIL CUT WATER

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET

FILE: STC/Demel3dst2

TIME ON: 23:45 3/5/2014

TIME OFF: 06:20 3/6/2014

Company JOHN ROY EVANS — Lease & Well No. DEMEL #3

Contractor ROYAL DRILLING RIG #2 — Charge to JOHN ROY EVANS

Elevation _____ Formation CONGLOMERATE SAND Effective Pay _____ Ft. Ticket No. j3193

Date 3/05/14 Sec. 6 Twp. 17 S Range 11 W County BARTON State KANSAS

Test Approved By GARY KIRMER — Diamond Representative JOHN RIEDL

Formation Test No. 2 Interval Tested from 3304 ft. to 3345 ft. Total Depth 3345 ft.

Packer Depth 3299 ft. Size 6 3/4 in. — Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3304 ft. Size 6 3/4 in. — Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3307 ft. — Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3342 ft. — Recorder Number 13498 Cap. 6000 P.S.I.

Below Straddle Recorder Depth _____ ft. — Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 59 — Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9 Water Loss 8 cc. — Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 6,000 P.P.M. — Drill Pipe Length 3284 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number NOT REQUESTED — Test Tool Length 20 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO — Anchor Length 41 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. — Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: STRONG (B.O.B 4 MINUTES) NO BB

2nd Open: B.O.B 4 MINUTES) NO B

Recovered 30 ft. of GIP

Recovered 870 ft. of W+MCO (25%WATER 25%MUD 50%OIL)

Recovered 120 ft. of VSLOCW (2%OIL 98%WATER) CHLORIDES 28,000Ppm

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOTAL FLUID REC:990' IN DRILLPIPE

TOOL SAMPLE GRNDOUT:25%WATER 75%OIL

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 12:45 A.M A.M. P.M. Time Started Off Bottom 3:45 A.M A.M. P.M. Maximum Temperature 110

Initial Hydrostatic Pressure..... (A) 1615 P.S.I.

Initial Flow Period..... Minutes 30 (B) 35 P.S.I. to (C) 175 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1039 P.S.I.

Final Flow Period..... Minutes 45 (E) 180 P.S.I. to (F) 388 P.S.I.

Final Closed In Period..... Minutes 60 (G) 1019 P.S.I.

Final Hydrostatic Pressure..... (H) 1601 P.S.I.

JOHN ROY EVANS
Start Test Date: 2014/03/05
Final Test Date: 2014/03/06

DEMEL #3
Formation: CONG SD
Job Number: J3193

DEMEL #3