

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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John Roy Evans Oil Company, LLC
Penka Lease Well# 26-1
15-009-26231-00-00
Barton County, KS
Sec 26 T17S R12W

<u>DST #1</u>	3161-3195
	30-30-45-60
1 st Open	BOB 5 min.
1 st Close	Built to ¾"
2 nd Open	BOB 30 sec.
2 nd Close	Built to 1 ½"
Recovered	1275' GIP
	50' HOCM (30% oil, 7% mud)
	63' HOCM (40% oil, 60% mud)
ISIP	863 psi
FSIP	894 psi
IFP	12-34 psi
FFP	38-59 psi
HSH	1441-1434 psi
<u>DST#2</u>	3198-3250
	30-30-45-60
1 st Open	BOB 4 min.
1 st Close	Built to 12"
2 nd Open	BOB 1.5 min.
2 nd Close	BOB 20.5 min.
Recovered	972' GIP
	855' SLGCMO (10% gas, 38% oil, 52% mud)
ISIP	996 psi
FSIP	993 psi
IFP	25-173 psi
FFP	201-326 psi
HSH	1488-1474 psi
<u>DST#3</u>	3260-3334
	30-20-15
1 st Open	Weak surface blow
1 st Close	No BB
2 nd Open	Dead
Recovered	10' clean oil, 10' SLMCO (95% oil, 5% mud)
	63' HOCM (30% oil, 70% mud)
ISIP	981 psi
FSIP	0 psi
IFP	11-31 psi
FFP	33-42 psi
HSH	1531-1525 psi
<u>DST#4</u>	3260-3240
	30-30-30-30
1 st Open	Fair blow. 10"@30 min.
1 st Close	Built to ¼"
2 nd Open	Fair blow. 7"@30 min.
2 nd Close	Built to WSB
Recovered	32' clean oil, 30' SLOCM (15% oil, 85% mud)
	63' SLOCM (5% oil, 95% mud)
ISIP	1035 psi
FSIP	966 psi
IFP	15-39 psi
FFP	41-61 psi
HSH	1512-1512 psi

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. 1160

Date	12-15-18	Sec.	26	Twp.	17	Range	12	County	Barton	State	Ks	On Location		Finish	10:45AM
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Lease	Penka	Well No.	26-1	Owner	
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Contractor	Royal #2	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.
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Type Job	Surface	Charge To	John Roy Evans
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Hole Size	12 1/4"	T.D.	660'
Csg.	8 5/8"	Depth	660'

Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			

Cement Left in Csg.	0	Shoe Joint	20	Cement Amount Ordered	300 80/100 @ 396cc @ 2166
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Meas Line		Displace	4038/15
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EQUIPMENT			Common
Pumptrk	5	No. Cementer Helper	David
Bulktrk	9	No. Driver	Tony
Bulktrk	pu	No. Driver	Rick

JOB SERVICES & REMARKS			Hulls
Remarks:	Cement did Circulate		Salt

Rat Hole		Flowseal
Mouse Hole		Kol-Seal

Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38

D/V or Port Collar		Sand
		Handling
		Mileage

FLOAT EQUIPMENT		
Guide Shoe	Rubber plug	
Centralizer	Baffle plate	

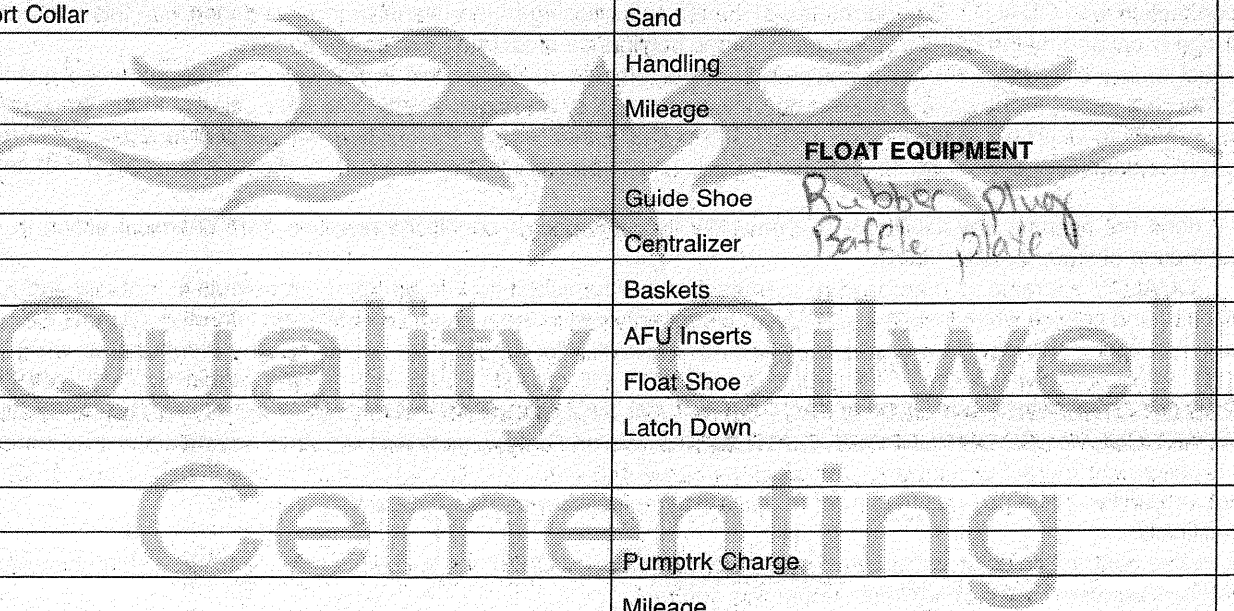
Baskets	
AFU Inserts	

Float Shoe	
Latch Down	

Pumptrk Charge	
Mileage	

		Tax
		Discount
		Total Charge

X Signature	<i>[Signature]</i>
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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. 985

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-29-18	26	17	12	Butler	KS		10:15 PM

Location *Own 1 1/2 S W 100*

Lease <i>Penka</i>	Well No. <i>26-1</i>	Owner
Contractor <i>Royal #1</i>		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.
Type Job <i>Production String</i>		Charge To <i>John Roy Evans</i>
Hole Size <i>7 7/8</i>	T.D. <i>3340</i>	Street
Csg. <i>5 1/2</i>	Depth <i>3332.82</i>	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <i>28.79</i>	Shoe Joint <i>28.79</i>	Cement Amount Ordered <i>225 com 10% salt 5% Gilsone</i>
Meas Line	Displace <i>78 1/2 bbl</i>	

EQUIPMENT

Pumptrk <i>17</i> No.	Cementer Helper <i>Brett</i>	Common
Bulktrk <i>14</i> No.	Driver <i>David</i>	Poz. Mix
Bulktrk No.	Driver <i>Doug</i>	Gel.
		Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <i>-30</i>	Salt
Mouse Hole <i>-15</i>	Flowseal
Centralizers <i>-1-4, 6+8</i>	Kol-Seal
Baskets	Mud CLR 48 - <i>500 Gal</i>
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling

FLOAT EQUIPMENT

<i>Ran 3333' 5 1/2 + Est. C.C.</i>	Mileage
<i>Drop brass ball set Tr. plug @ 600 lb 5 1/2</i>	Guide Shoe
<i>Plugged Rat + Mouse Hole</i>	Centralizer - <i>6</i>
<i>Mixed 180 ss down 5 1/2</i>	Baskets
<i>Displaced 78 1/2 bbl H₂O</i>	AFU Inserts
<i>Lift pressure @ 600 lbs</i>	Float Shoe
	Latch Down - <i>1</i>
<i>Landed plug @ 1200 lb</i>	Tr. plug - <i>1</i>

<i>Plug held</i>	Pumptrk Charge	Tax
	Mileage	Discount
		Total Charge
X Signature <i>Doug</i>		



Musgrove

Petroleum Geology
212 Main Street, Claflin KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY John Roy Evans, Oil Co. Inc.

LEASE Penka #26-1

FIELD Snow White North

LOCATION NE-SW-NE-SE (1840' FNL & 975' FEL)

SEC 26 TWSP 17S RGE 12W

COUNTY Barton STATE Kansas

CONTRACTOR Royal Drilling, inc. (Rig #2)

SPUD 12/17/2018 COMP 12/29/2018

RTD 3340' LTD 3338'

MUD UP 2527' TYPE MUD Chemical

ELEVATIONS

KB 1814'

DF _____

GL 1807'

Measurements Are All
From KB

CASING

SURFACE 8 5/8"@275'

PRODUCTION 5 1/2"@3338'

ELECTRICAL SURVEYS

ELI Wireline;
DIL, CDL/CNL, Micro, Sonic Log

SAMPLES SAVED FROM _____ 2600' TO _____ RTD

DRILLING TIME KEPT FROM _____ 2600' TO _____ RTD

SAMPLES EXAMINED FROM _____ 2600' TO _____ RTD

GEOLOGICAL SUPERVISION FROM 2640' TO _____ RTD

GEOLOGIST ON WELL Jim Musgrove (2600'-3190') & Wyatt Urban (3190'-RTD)

FORMATION TOPS	LOG		SAMPLES
Anhydrite	653	(+1161)	RTD 3340 (-1526)
B. Anhydrite	680	(+1134)	LTD 3338 (-1524)
Topeka	2626	(-812)	
Heebner	2919	(-1105)	
Toronto	2937	(-1123)	
Douglas	2948	(-1134)	

Lansing	3035	(-1221)
Base KC	3269	(-1455)
Conglomerate	3297	(-1483)
Arbuckle	3328	(-1514)

			X

ROCK TYPES

Cht vari	Dolsec	shale, grn	Carbon Sh
Dolprim	Lmst fw<7	shale, gry	shale, red

ACCESSORIES

STRINGER

Sandstone

OTHER SYMBOLS

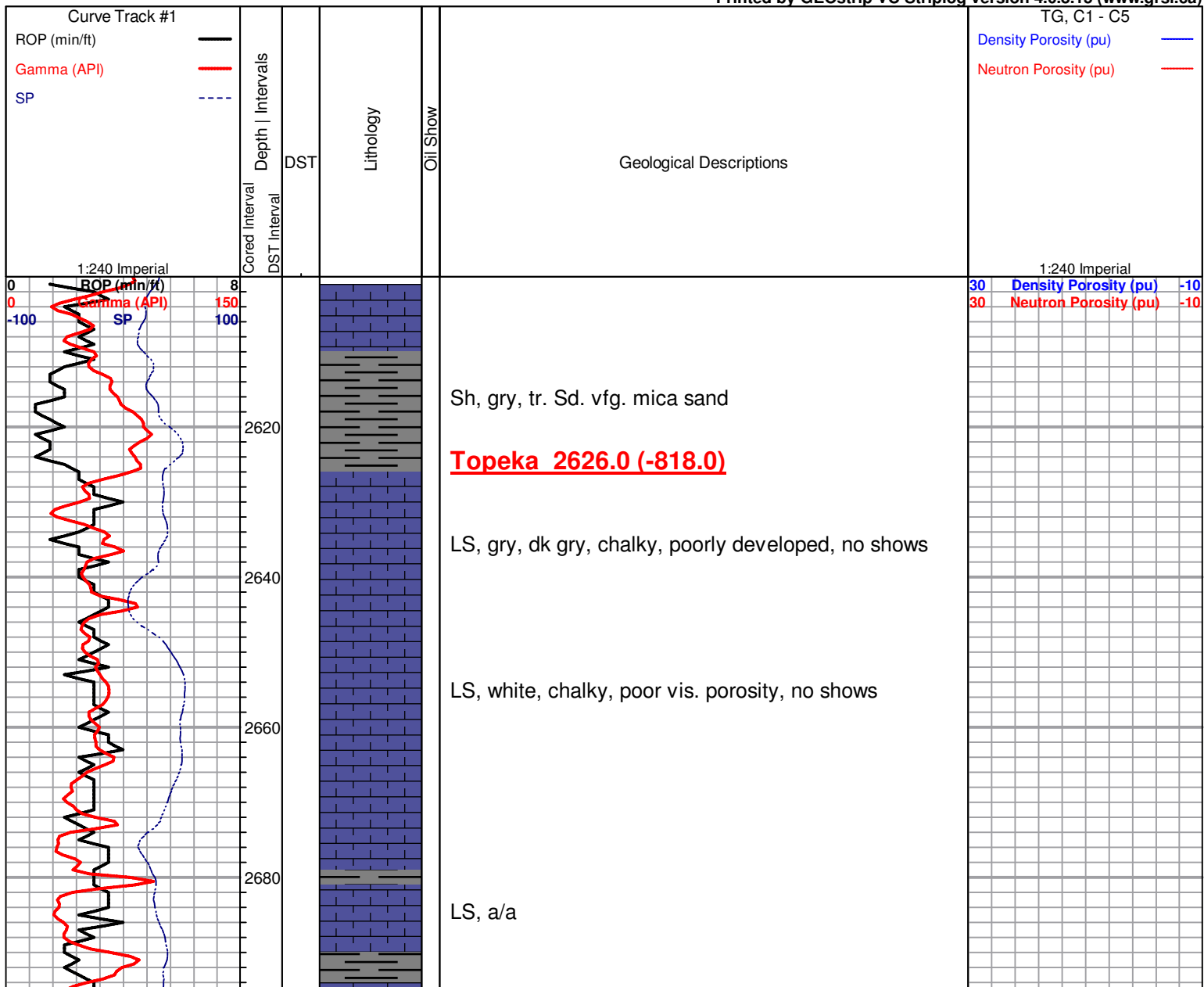
Oil Show

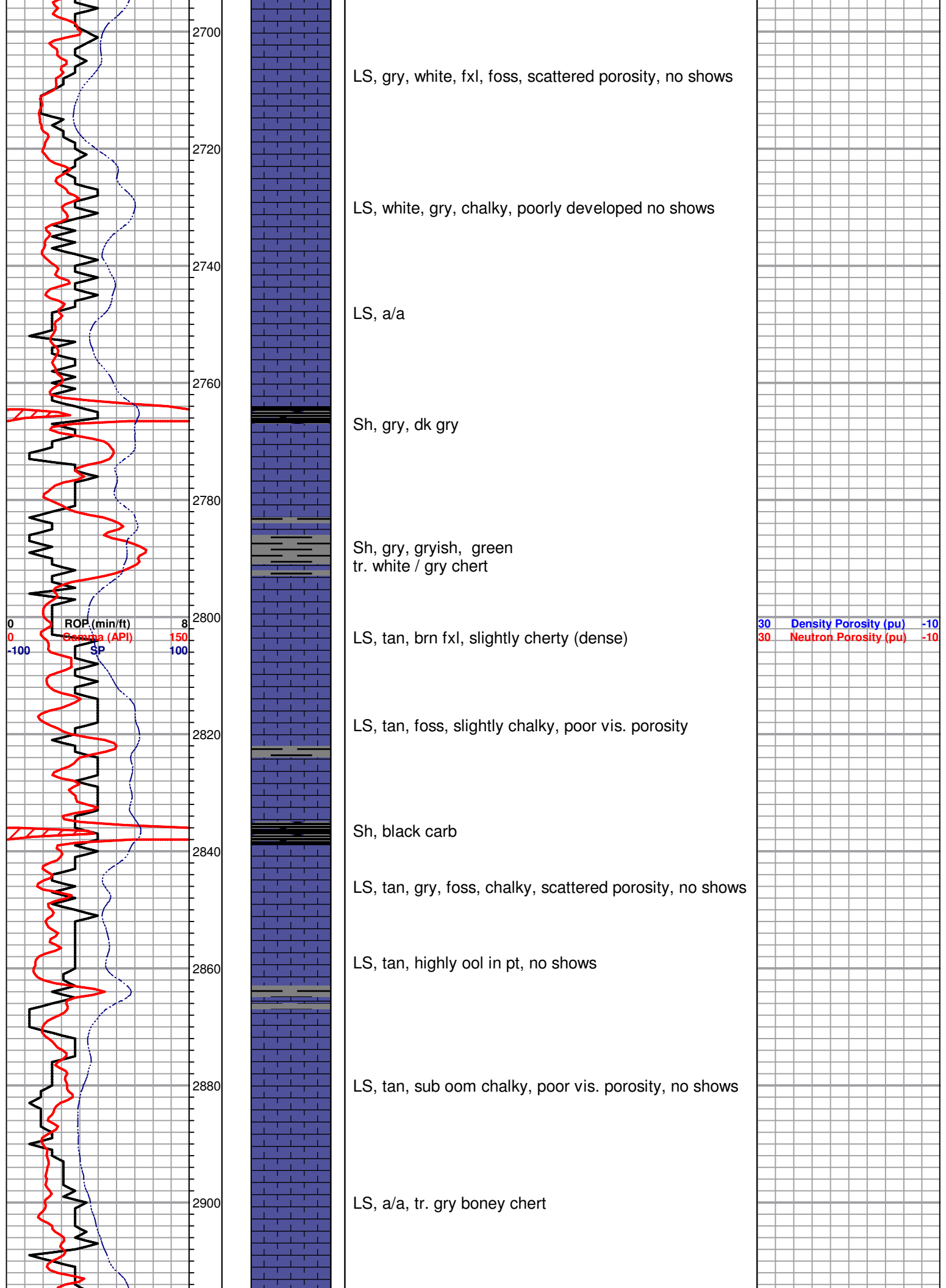
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- * Gas

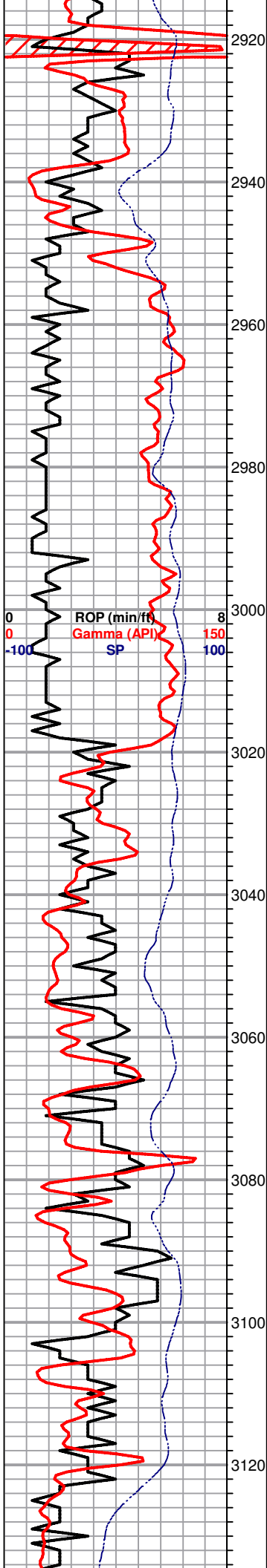
DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)







Heebner 2918.0 (-1104.0)

Sh, black carb

Toronto 2937.0 (-1123.0)

LS, white, gry, foss, scattered foss. cast porosity, lt. brn / brn stain, nsfo, ??? odor

Douglas 2948.0 (-1134.0)

Sh, gry, maroon, rusty brn gryish green, silty

DST#1 3161-3195

30-30-45-60

1st Open:
BOB 5 mins.

1st Close:
Built to 3/4 "

2nd Open:
BOB 30 sec.

Recovery:
1275' GIP

50' HOCM
(30%O, 70%M)

63' Muddy Oil
(40%O, 60%M)

Pressures:
ISIP 863 psi
FSIP 894 psi
IFP 12-34 psi
FFP 38-59 psi
HSH 1441 - 1434 psi

Tr. sd. gryish green, vfg. mica, poor vis. porosity no shows

Sh, a/a , tr. sd. a/a

Brown Lime 3018.0 (-1204.0)

LS, brn, tan, fxl, slightly chert

Sh, gry, waxey, silty

Lansing 3036.0 (-1222.0)

LS, tan, fxl, foss in pt. , chalky, tr. brn stain, nsfo, ft. odor

LS white, gry, chalky, poorly developed porosity

DST#2 3198-3250

30-30-45-60

1st Open:
BOB 4 mins.

1st Close:
Built to 12"

2nd Open:
BOB 1.5 mins

2nd Close:
BOB 20.5 mins.

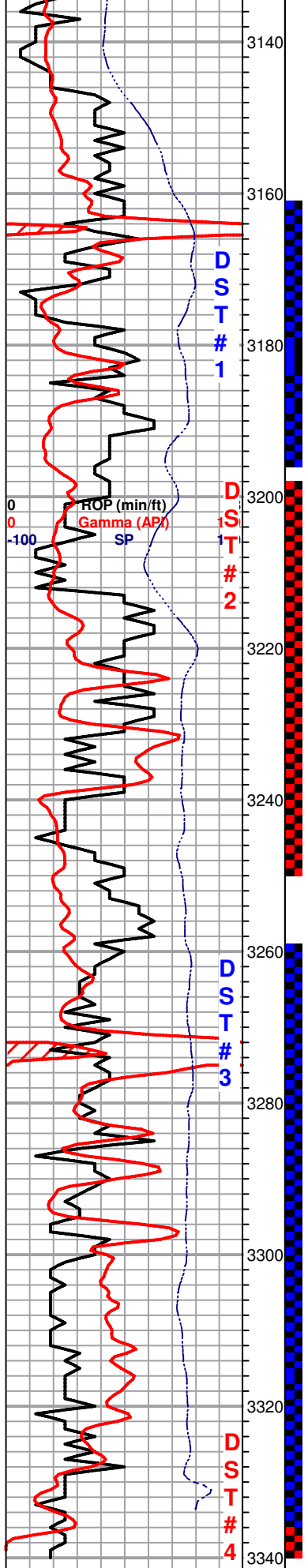
Recovery:
972' GIP
855' SLGCMO
(10%G, 38%O, 52%

LS, white, ool, slightly chalky, lt. brn / golden brn stain, tr. fo, no odor

LS, gry, foss, scattered vuggy porosity, golden brn stain, nsfo, no odor

LS, tan, ool, slightly cherty, brn stain, nsfo, no odor

LS, tan, oom, fair , good oom porosity (barren)



LS, tan, fxl, slightly cherty, dense

Sh, black carb

● LS, cream, oom, fair oom porosity, chalky in part, brown spty stain, sfo, faint -fair odor

● LS, white, highly foss/ ool, fair - good porosity, brown - dk brn stain/ sat., sfo, ft. odor

● LS, tan, gry, fxl, dense, poor vis. porosity, scattered vuggy type porosity, on few, tr. brn stain, spty sfo, few vis. gas bubbles

Slug dk gry sh, platey+ LS, gry, tan, fxl, dense, few foss, no shows

● LS, tan, gry, foss, sub oom, poorly developed vuggy porosity, poor inner dev. porosity, dk brn stain, spty sfo, few vis. gas bubbles

LS, dk gry, fxl, dense poor scattered porosity, sl. cherty

Base KC 3270.0 (-1456.0)

Sh, blk carb, gry, maroon, soft,

○ LS, tan, gry, fxl, poor vis. porosity, heavily fract. poor vis. porosity, sl. chalky, tr. gry- brn stain, tr. spty dk brn- blk spty sfo, ft. odor

Conglomerate 3290.0 (-1476.0)

Sh, maroon, green, aqua green, tr. LS, tan, sdy/ gran. nsfo, no odor

Sh, maroon, soft, v.c. cherts, tr. sd. white, vfg. no shows, no odor

Sh, a/a, tr. chert, tan, brn, tr. ool, chert, no shows

Tr. weathered, dol., poor scattered porosity, tr. brn stain, sfo, odor

Arbuckle 3328.0 (-1514.0)

● Dol. f- med xln, fair - good scattered porosity, golden brn stain, spty sfo, odor tr. pyrite

● 40"- Dol. white, tan, scattered p.p. porosity, fair inxln porosity, tr. brn stain, dk brown sfo, faint odor

RTD 3340.0 (-1526.0)

LTD 3338.0 (-1524.0)

Pressures:

ISIP 996 psi
 FSIP 993 psi
 IFP 25-173 psi
 FFP 201-326 psi
 HSH 1488-1474 psi

DST#3 3260-3334
30-20-15- pulled

1st Open:
Weak surface blow

2nd Open:
Dead

Recovered:
10' Clean Oil

10' SLMCO
(95%O, 5%M)

63' HOCM
(30%O, 70%M)

Pressures:
 ISIP 981 psi
 FSIP 0 psi
 IFP 11-31 psi
 FFP 33-42 psi
 HSH 1531-1525 psi

DST #4 3260-3340
30-30-30-30

1st Open:
Fair blow
10" @ 30 mins.

2nd Open:
Fair blow
7" @30 mins

Recovery:
32' Clean Oil

30' SLOCM
(15%O, 85% M)

LTD 3336.0 (-1924.0)

3360

3380

63' SLOCM
(5%O, 95%M)

Pressures:
ISIP 1035 psi
FSIP 966 psi
IFP 15-39 psi
FFP 41-61 psi
HSH 1512-1212 psi



Company: John Roy Evans Oil

Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
 County: BARTON
 State: Kansas
 Drilling Contractor: Royal Drilling, Inc - Rig 2
 Elevation: 1806 GL
 Field Name: Snow White North
 Pool: Infield
 Job Number: 243

Operation:
 Uploading recovery & pressures

DATE
 December
26
 2018

DST #1 **Formation: Lansing H and I** **Test Interval: 3161 - 3195'** **Total Depth: 3195'**
 Time On: 20:54 12/26 Time Off: 03:40 12/27
 Time On Bottom: 22:59 12/26 Time Off Bottom: 01:44 12/27

Electronic Volume Estimate:
 1099'

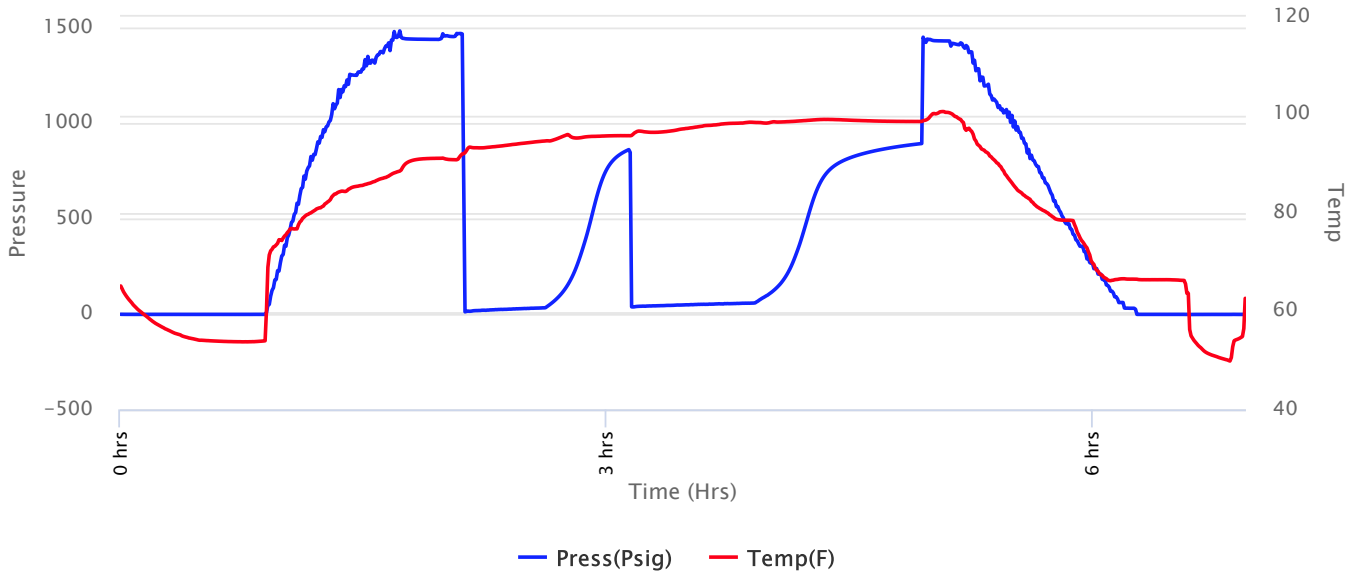
1st Open
 Minutes: 30
 Current Reading:
 61.7" at 30 min
 Max Reading: 61.7"

1st Close
 Minutes: 30
 Current Reading:
 .75" at 30 min
 Max Reading: .75"

2nd Open
 Minutes: 45
 Current Reading:
 82" at 45 min
 Max Reading: 82"

2nd Close
 Minutes: 60
 Current Reading:
 1.3" at 60 min
 Max Reading: 1.5"

Inside Recorder





Company: John Roy Evans Oil
Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
 County: BARTON
 State: Kansas
 Drilling Contractor: Royal Drilling, Inc - Rig 2
 Elevation: 1806 GL
 Field Name: Snow White North
 Pool: Infield
 Job Number: 243

Operation:
 Uploading recovery & pressures

DATE
 December
26
 2018

DST #1 **Formation: Lansing H and I** **Test Interval: 3161 - 3195'** **Total Depth: 3195'**
 Time On: 20:54 12/26 Time Off: 03:40 12/27
 Time On Bottom: 22:59 12/26 Time Off Bottom: 01:44 12/27

Recovered

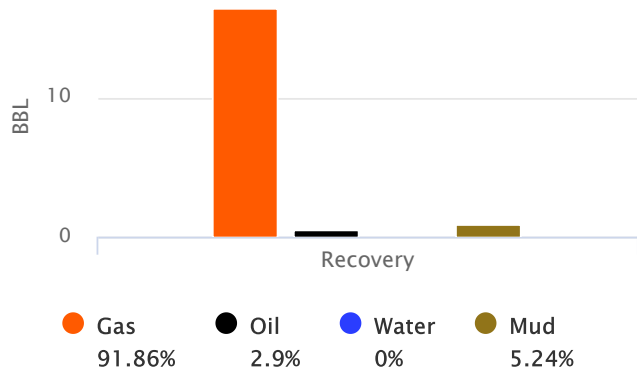
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1275	16.4475	G	100	0	0	0
50	0.645	HOCM	0	30	0	70
63	0.8127	HOCM	0	40	0	60

Total Recovered: 1388 ft
 Total Barrels Recovered: 17.9052

Reversed Out
NO

Initial Hydrostatic Pressure	1441	PSI
Initial Flow	12 to 34	PSI
Initial Closed in Pressure	863	PSI
Final Flow Pressure	38 to 59	PSI
Final Closed in Pressure	894	PSI
Final Hydrostatic Pressure	1434	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





Company: John Roy Evans Oil
Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc -
Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:

Uploading recovery &
pressures

DATE

December

26

2018

DST #1	Formation: Lansing H and I	Test Interval: 3161 - 3195'	Total Depth: 3195'
	Time On: 20:54 12/26	Time Off: 03:40 12/27	
	Time On Bottom: 22:59 12/26	Time Off Bottom: 01:44 12/27	

BUCKET MEASUREMENT:

1st Open: 1/2" Bob in 5
1st Close: Built to 3/4"
2nd Open: Bob in 30 seconds
2nd Close: Built to 1 1/2"

REMARKS:

2' slide to btm

Tool Sample: 0% Gas 50% Oil 0% Water 50% Mud



Company: John Roy Evans Oil
Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
 County: BARTON
 State: Kansas
 Drilling Contractor: Royal Drilling, Inc - Rig 2
 Elevation: 1806 GL
 Field Name: Snow White North
 Pool: Infield
 Job Number: 243

Operation:
 Uploading recovery & pressures

DATE
 December
26
 2018

DST #1 **Formation: Lansing H and I** **Test Interval: 3161 - 3195'** **Total Depth: 3195'**
 Time On: 20:54 12/26 Time Off: 03:40 12/27
 Time On Bottom: 22:59 12/26 Time Off Bottom: 01:44 12/27

Down Hole Makeup

Heads Up: 36.12 FT	Packer 1: 3156 FT
Drill Pipe: 3171.96 FT <i>ID-3 1/2</i>	Packer 2: 3161 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3148 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3163 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 34	Surface Choke: 1"
	Bottom Choke: 5/8"

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3 1/2

Change Over: FT

Perforations: (below): 33 FT
4 1/2-FH



Company: John Roy Evans Oil Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc -
Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:

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pressures

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DST #1 **Formation: Lansing
H and I** **Test Interval: 3161 -
3195'** **Total Depth: 3195'**
Time On: 20:54 12/26 Time Off: 03:40 12/27
Time On Bottom: 22:59 12/26 Time Off Bottom: 01:44 12/27

Mud Properties

Mud Type: Chemical **Weight:** 8.6 **Viscosity:** 57 **Filtrate:** 8.0 **Chlorides:** 2800 ppm



Company: John Roy Evans Oil Company, LLC

Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc - Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:
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DST #2 **Formation: Lansing j -k** **Test Interval: 3198 - 3250'** **Total Depth: 3250'**
Time On: 13:40 12/27 Time Off: 21:02 12/27
Time On Bottom: 15:30 12/27 Time Off Bottom: 18:15 12/27

Electronic Volume Estimate:
1547'

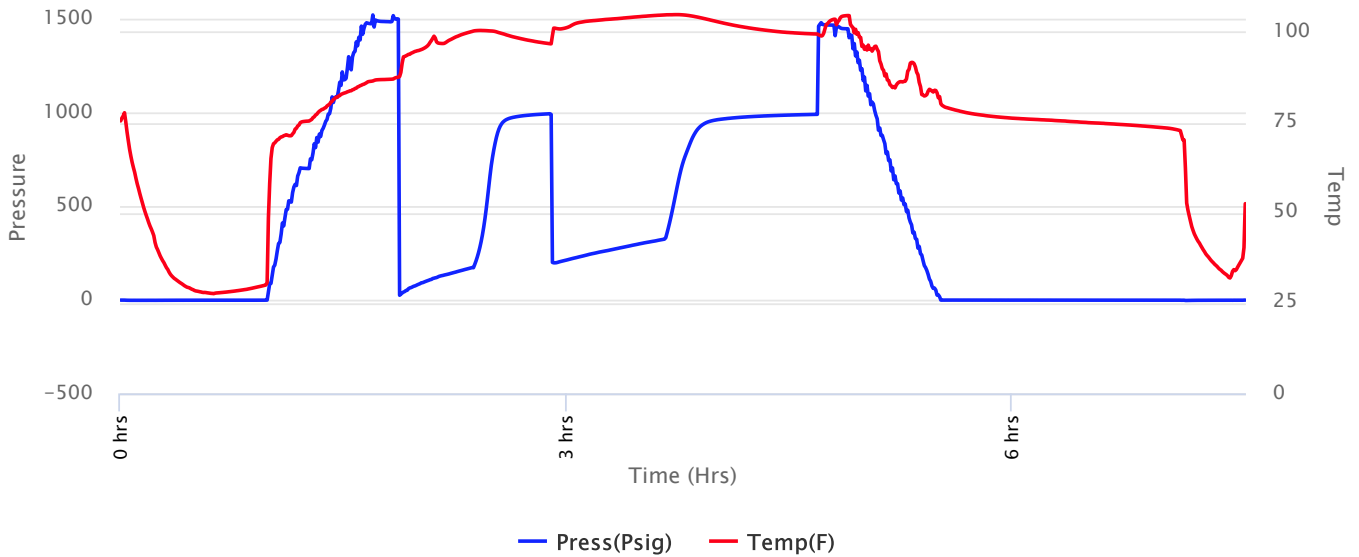
1st Open
Minutes: 30
Current Reading:
67.3" at 30 min
Max Reading: 67.3"

1st Close
Minutes: 30
Current Reading:
12" at 30 min
Max Reading: 12"

2nd Open
Minutes: 45
Current Reading:
115.6" at 45 min
Max Reading: 115.6"

2nd Close
Minutes: 60
Current Reading:
26" at 60 min
Max Reading: 26"

Inside Recorder





Company: John Roy Evans Oil Company, LLC
Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
 County: BARTON
 State: Kansas
 Drilling Contractor: Royal Drilling, Inc - Rig 2
 Elevation: 1806 GL
 Field Name: Snow White North
 Pool: Infield
 Job Number: 243

Operation:
 Uploading recovery & pressures

DATE
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DST #2 **Formation: Lansing j -k** **Test Interval: 3198 - 3250'** **Total Depth: 3250'**
 Time On: 13:40 12/27 Time Off: 21:02 12/27
 Time On Bottom: 15:30 12/27 Time Off Bottom: 18:15 12/27

Recovered

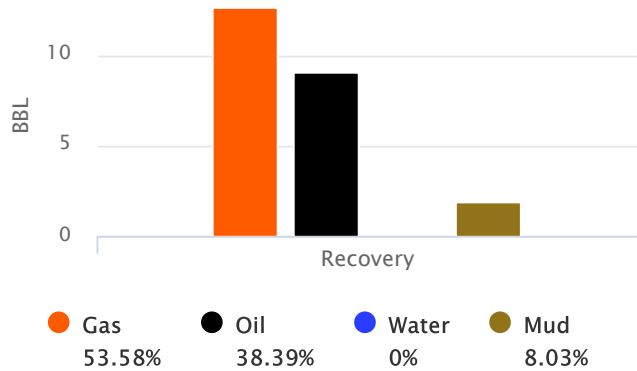
Foot	BBSL	Description of Fluid	Gas %	Oil %	Water %	Mud %
972	12.5388	G	100	0	0	0
35	0.4515	HMCO	0	50	0	50
189	2.4381	SLMCO	0	95	0	5
63	0.8127	SLMCO	0	95	0	5
252	3.2508	MCO	0	80	0	20
189	2.4381	SLMCO	0	90	0	10
63	0.8127	SLMCO	0	95	0	5
63	0.8127	SLGCOCM	10	20	0	70

Total Recovered: 1826 ft
 Total Barrels Recovered: 23.5554

Reversed Out
 NO

Initial Hydrostatic Pressure	1488	PSI
Initial Flow	25 to 173	PSI
Initial Closed in Pressure	996	PSI
Final Flow Pressure	201 to 326	PSI
Final Closed in Pressure	993	PSI
Final Hydrostatic Pressure	1474	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.3	%

Recovery at a glance





**Company: John Roy Evans Oil
Company, LLC**

Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc -
Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:

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DST #2	Formation: Lansing j -k	Test Interval: 3198 - 3250'	Total Depth: 3250'
	Time On: 13:40 12/27	Time Off: 21:02 12/27	
	Time On Bottom: 15:30 12/27	Time Off Bottom: 18:15 12/27	

BUCKET MEASUREMENT:

1st Open: 1" Bob in 4 min

1st Close: Built to 12"

2nd Open: 3" Bob in 1 1/2 min

2nd Close: Bob in 20 1/2 min

REMARKS:

2 ft slide to btm.

Tool Sample: 0% Gas 90% Oil 0% Water 10% Mud



Company: John Roy Evans Oil Company, LLC
Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
 County: BARTON
 State: Kansas
 Drilling Contractor: Royal Drilling, Inc - Rig 2
 Elevation: 1806 GL
 Field Name: Snow White North
 Pool: Infield
 Job Number: 243

Operation:
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DST #3 Formation: Arbuckle Test Interval: 3260 - 3334' Total Depth: 3334'
 Time On: 12:27 12/28 Time Off: 17:03 12/28
 Time On Bottom: 14:18 12/28 Time Off Bottom: 15:16 12/28

Electronic Volume Estimate:
 1'

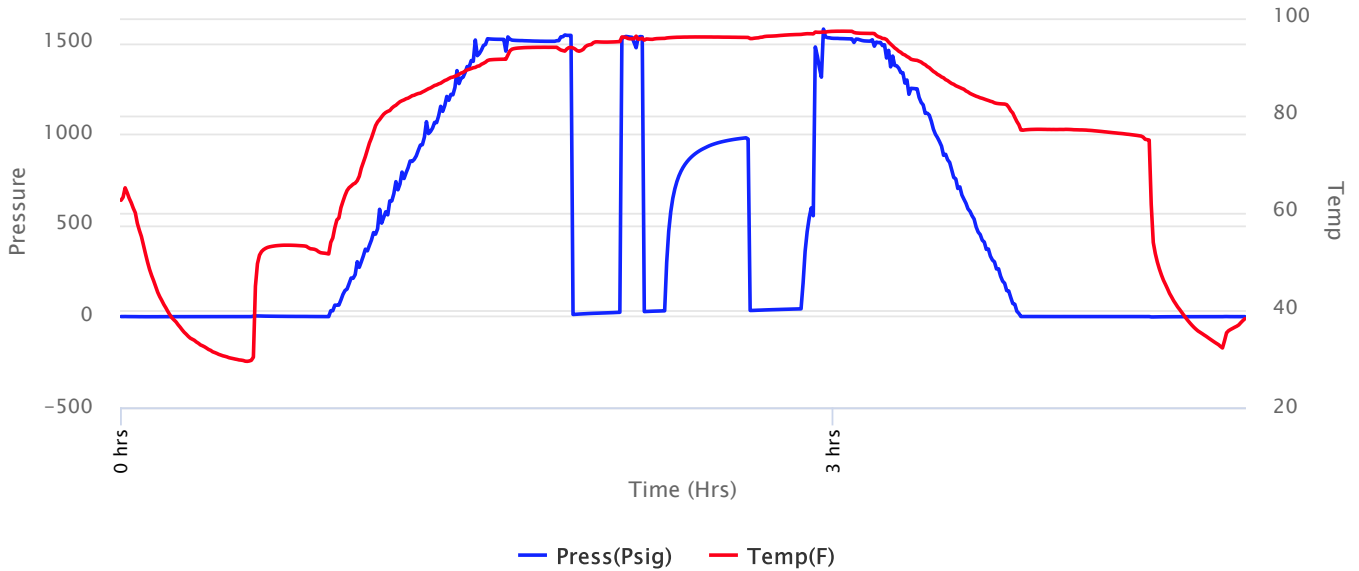
1st Open
 Minutes: 30
 Current Reading: 0" at 30 min
 Max Reading: .1"

1st Close
 Minutes: 20
 Current Reading: 0" at 20 min
 Max Reading: 0"

2nd Open
 Minutes: 15
 Current Reading: 0" at 15 min
 Max Reading: 0"

2nd Close
 N/A

Inside Recorder





Company: John Roy Evans Oil Company, LLC
Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
 County: BARTON
 State: Kansas
 Drilling Contractor: Royal Drilling, Inc - Rig 2
 Elevation: 1806 GL
 Field Name: Snow White North
 Pool: Infield
 Job Number: 243

Operation:
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DST #3 Formation: Arbuckle Test Interval: 3260 - 3334' Total Depth: 3334'
 Time On: 12:27 12/28 Time Off: 17:03 12/28
 Time On Bottom: 14:18 12/28 Time Off Bottom: 15:16 12/28

Recovered

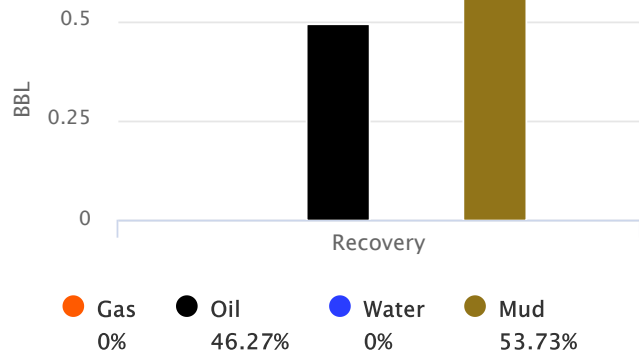
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
10	0.129	O	0	100	0	0
10	0.129	SLMCO	0	95	0	5
63	0.8127	HOCM	0	30	0	70

Total Recovered: 83 ft
 Total Barrels Recovered: 1.0707

Reversed Out
 NO

Initial Hydrostatic Pressure	1513	PSI
Initial Flow	11 to 31	PSI
Initial Closed in Pressure	981	PSI
Final Flow Pressure	33 to 42	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1525	PSI
Temperature	97	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





**Company: John Roy Evans Oil
Company, LLC**

Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc -
Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:

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DATE

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DST #3 Formation: Arbuckle Test Interval: 3260 - Total Depth: 3334'
3334'

Time On: 12:27 12/28

Time Off: 17:03 12/28

Time On Bottom: 14:18 12/28

Time Off Bottom: 15:16 12/28

BUCKET MEASUREMENT:

1st Open: Wsb no build

1st Close: Nobb

2nd Open: no blow no build

2nd Close: na

REMARKS:

3-5 ft fill at btm. Flush tool twice but didn't work. Pulled up far enough to unseat Packers then back down . Had surge but died off instantly. Pulled tool 15min in On 2nd open.

Tool Sample: 0% Gas 50% Oil 0% Water 50% Mud

Gravity: 35.9 @ 60 °F



**Company: John Roy Evans Oil
Company, LLC
Lease: Penka #26-1**

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc -
Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:
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DST #3 Formation: Arbuckle Test Interval: 3260 - Total Depth: 3334'
3334'
Time On: 12:27 12/28 Time Off: 17:03 12/28
Time On Bottom: 14:18 12/28 Time Off Bottom: 15:16 12/28

Down Hole Makeup

Heads Up: 34.09 FT	Packer 1: 3255 FT
Drill Pipe: 3268.93 FT <i>ID-3 1/2</i>	Packer 2: 3260 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3247 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3299 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 74	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 32 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 36 FT <i>4 1/2-FH</i>	



**Company: John Roy Evans Oil
Company, LLC
Lease: Penka #26-1**

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc -
Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:
Uploading recovery &
pressures

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DST #3 Formation: Arbuckle Test Interval: 3260 - Total Depth: 3334'
3334'
Time On: 12:27 12/28 Time Off: 17:03 12/28
Time On Bottom: 14:18 12/28 Time Off Bottom: 15:16 12/28

Mud Properties

Mud Type: Chemical **Weight:** 8.85 **Viscosity:** 44 **Filtrate:** 7.6 **Chlorides:** 8600 ppm



Company: John Roy Evans Oil Company, LLC
Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
 County: BARTON
 State: Kansas
 Drilling Contractor: Royal Drilling, Inc - Rig 2
 Elevation: 1806 GL
 Field Name: Snow White North
 Pool: Infield
 Job Number: 243

Operation:
 Uploading recovery & pressures

DATE
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DST #4 **Formation: Arbuckle** **Test Interval: 3260 - 3340'** **Total Depth: 3340'**
 Time On: 22:23 12/28 Time Off: 04:43 12/29
 Time On Bottom: 00:31 12/29 Time Off Bottom: 02:31 12/29

Electronic Volume Estimate:
 148'

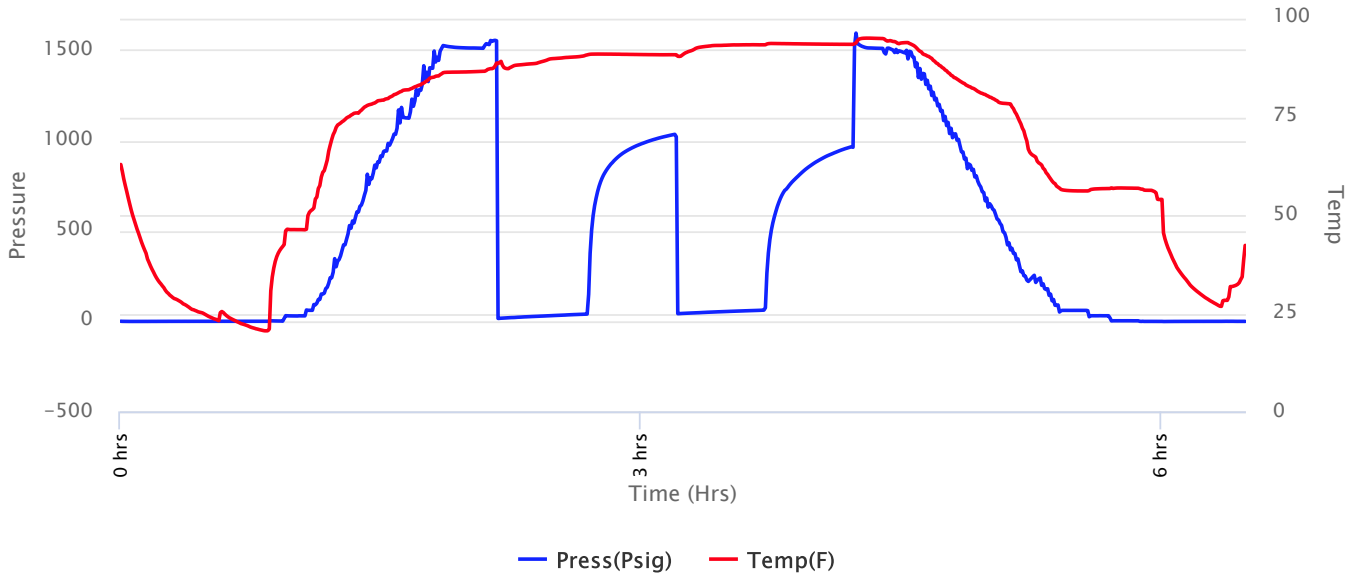
1st Open
 Minutes: 30
 Current Reading:
 10" at 30 min
 Max Reading: 10"

1st Close
 Minutes: 30
 Current Reading:
 .1" at 30 min
 Max Reading: .25"

2nd Open
 Minutes: 30
 Current Reading:
 7.1" at 30 min
 Max Reading: 7.1"

2nd Close
 Minutes: 30
 Current Reading:
 .1" at 30 min
 Max Reading: .1"

Inside Recorder





Company: John Roy Evans Oil Company, LLC
Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
 County: BARTON
 State: Kansas
 Drilling Contractor: Royal Drilling, Inc - Rig 2
 Elevation: 1806 GL
 Field Name: Snow White North
 Pool: Infield
 Job Number: 243

Operation:
 Uploading recovery & pressures

DATE
 December
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 2018

DST #4 Formation: Arbuckle Test Interval: 3260 - 3340' Total Depth: 3340'
 Time On: 22:23 12/28 Time Off: 04:43 12/29
 Time On Bottom: 00:31 12/29 Time Off Bottom: 02:31 12/29

Recovered

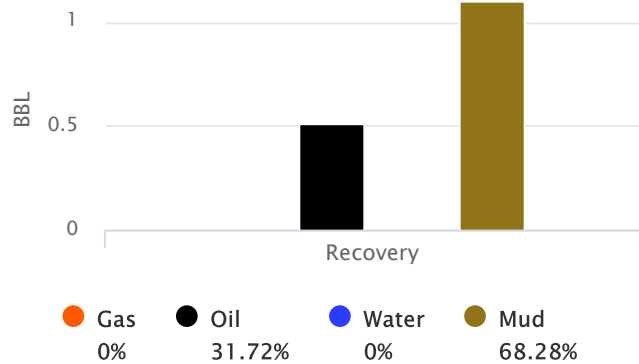
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
32	0.4128	O	0	100	0	0
30	0.387	SLOCM	0	15	0	85
63	0.8127	SLOCM	0	5	0	95

Total Recovered: 125 ft
 Total Barrels Recovered: 1.6125

Reversed Out
 NO

Initial Hydrostatic Pressure	1512	PSI
Initial Flow	15 to 39	PSI
Initial Closed in Pressure	1035	PSI
Final Flow Pressure	41 to 61	PSI
Final Closed in Pressure	966	PSI
Final Hydrostatic Pressure	1512	PSI
Temperature	94	°F
Pressure Change Initial Close / Final Close	6.7	%

Recovery at a glance





**Company: John Roy Evans Oil
Company, LLC**

Lease: Penka #26-1

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc -
Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:

Uploading recovery &
pressures

DATE

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DST #4 Formation: Arbuckle Test Interval: 3260 - Total Depth: 3340'
3340'

Time On: 22:23 12/28

Time Off: 04:43 12/29

Time On Bottom: 00:31 12/29

Time Off Bottom: 02:31 12/29

BUCKET MEASUREMENT:

1st Open: 1" built to 10"

1st Close: Built to 1/4"

2nd Open: Wsb built to 7"

2nd Close: built to wsb

REMARKS:

4ft slide to btm.

Tool Sample: 0% Gas 15% Oil 0% Water 85% Mud

Gravity: 36.2 @ 60 °F



**Company: John Roy Evans Oil
Company, LLC
Lease: Penka #26-1**

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc -
Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:
Uploading recovery &
pressures

DATE
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DST #4 Formation: Arbuckle Test Interval: 3260 - Total Depth: 3340'
3340'
Time On: 22:23 12/28 Time Off: 04:43 12/29
Time On Bottom: 00:31 12/29 Time Off Bottom: 02:31 12/29

Down Hole Makeup

Heads Up: 33.66 FT	Packer 1: 3255 FT
Drill Pipe: 3268.5 FT <i>ID-3 1/2</i>	Packer 2: 3260 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3247 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3299 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 80	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 32 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 42 FT <i>4 1/2-FH</i>	



**Company: John Roy Evans Oil
Company, LLC
Lease: Penka #26-1**

SEC: 26 TWN: 17S RNG: 12W
County: BARTON
State: Kansas
Drilling Contractor: Royal Drilling, Inc -
Rig 2
Elevation: 1806 GL
Field Name: Snow White North
Pool: Infield
Job Number: 243

Operation:

Uploading recovery &
pressures

DATE

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DST #4 Formation: Arbuckle Test Interval: 3260 - Total Depth: 3340'
3340'

Time On: 22:23 12/28

Time Off: 04:43 12/29

Time On Bottom: 00:31 12/29 Time Off Bottom: 02:31 12/29

Mud Properties

Mud Type: Chemical

Weight: 8.85

Viscosity: 44

Filtrate: 7.6

Chlorides: 8600 ppm