

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) (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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PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

10854
 10747

TICKET NUMBER 55204
 LOCATION Cgkley KS
 FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice # 1813373 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-7-18	3613	Bird 1-11	11	85	18W	Rooks
CUSTOMER <u>Hartman Oil</u>			Plainville 9 1/2 Norts W into			
MAILING ADDRESS <u>10500 E. Berkley Square Hwy, Ste. 60</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Wichita</u> STATE <u>KS</u> ZIP CODE <u>67206</u>			<u>772-T-118</u>	<u>Travis</u>		
			<u>70</u>	<u>Joel S</u>		
			<u>535</u>	<u>Jerry Y</u>		

JOB TYPE plug HOLE SIZE 7 7/8 HOLE DEPTH 3570 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on WW-8 plug & ordered with 300 sks 60/60
40 gal 1/4" #60 seal
50 sks @ 3488'
50 sks @ 1375'
100 sks @ 800'
50 sks @ 325'
20 sks @ 40' with 8 5/8 wooden plug
30 sks Rot hole

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	40	MILEAGE	7.15	286.00
CE0710	12.9	ton mileage delivery	1.75	903.00
CC5829	300 sks	liteblend IV	16.00	4800.00
CC6075	75 #	flossol	3.00	225.00
CP8228	1	8 7/8 wood plug	165.00	165.00
			Subtotal	8279.00
			-30%	2483.70
			Subtotal	5795.30
			SALES TAX	254.30
			ESTIMATED TOTAL	6049.60

Ravin 3737

AUTHORIZATION Scott P. Adams

TITLE President

DATE 6/1/18

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8678

JM-10844
PO-16905
FT-10737

TICKET NUMBER 55167
LOCATION Oakley KS
FOREMAN Miles Shaw

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 813365

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-2-18	3613	Bird 1-11	11	8S	18 W	Reels
CUSTOMER <u>Hartman oil</u>		MAILING ADDRESS <u>10500 E. Berkley Square Parkway Ste. 100</u>		CITY <u>Wichita</u>		STATE <u>KS</u>
ZIP CODE <u>67206</u>		TRUCK # <u>703</u>		DRIVER <u>Miles S</u>		TRUCK # <u>70</u>
CITY <u>Wichita</u>		STATE <u>KS</u>		ZIP CODE <u>67206</u>		DRIVER <u>Paul W</u>

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 288' CASING SIZE & WEIGHT 8.57" 23#
 CASING DEPTH 287' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 148 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 17 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and R.S up on WW drilling R.3 #8 Circulate casing
Mix 200 sx Surface blend II Class A Cement with 3% colloid 2 gal d-splace 17 bls
Water Shut in Cement did Circulate 3 1/2 top

Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0171	1	PUMP CHARGE	1150.00	1150.00
CE0002	40	MILEAGE	7.15	286.00
CE0710	964 Tons	Ton mileage delivery	660.00	660.00
CC5571	200 sx	Surface blend II	24.00	4800.00
			Subtotal	6896.00
			less 30% discount	2068.80
			Subtotal	4827.20
			7%	SALES TAX
				235.20
			ESTIMATOR	
			TOTAL	5062.40

Ravin 3737

AUTHORIZATION [Signature]

TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**Company: Hartman Oil
Company, Inc.
Lease: Bird #1-11**

SEC: 11 TWN: 8S RNG: 18W
County: ROOKS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1964 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 160

DATE
June
05
2018

DST #1 Formation: LKC E-F Test Interval: 3218 - 3245' Total Depth: 3245'

Time On: 17:36 06/05 Time Off: 01:52 06/06
Time On Bottom: 19:50 06/05 Time Off Bottom: 00:20 06/06

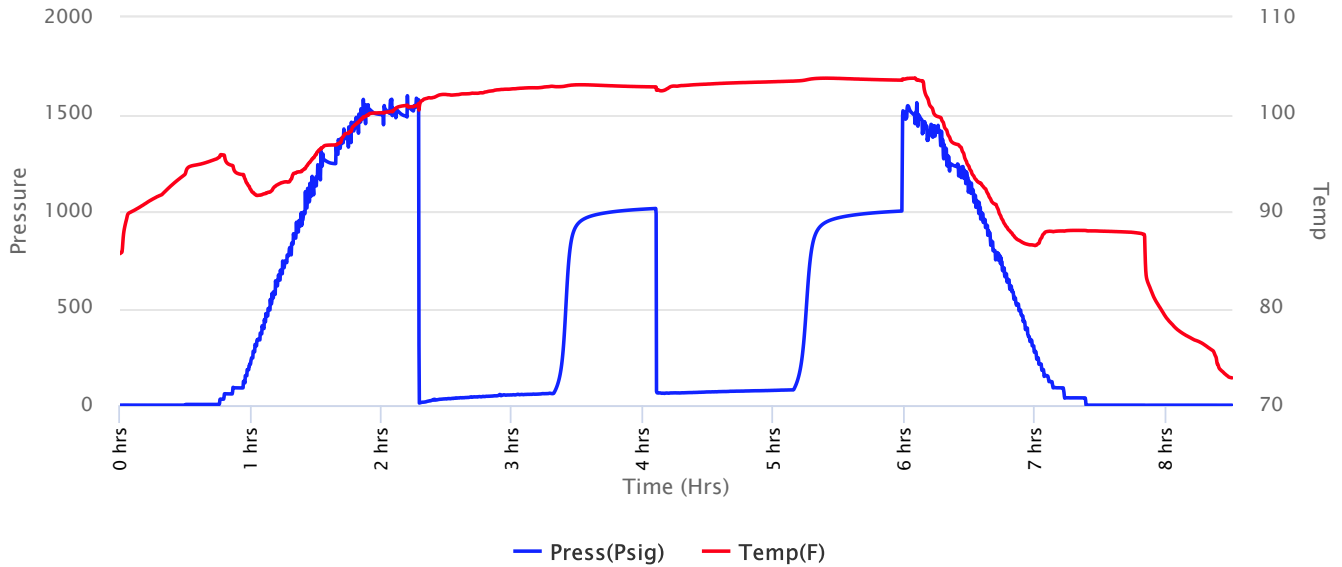
Electronic Volume
Estimate:
422'

1st Open
Minutes: 60
19.8" at 60 min

1st Close
Minutes: 45
.5" at 45 min

2nd Open
Minutes: 60
22.8" at 60 min

2nd Close
Minutes: 45
0" at 45 min





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Recovered

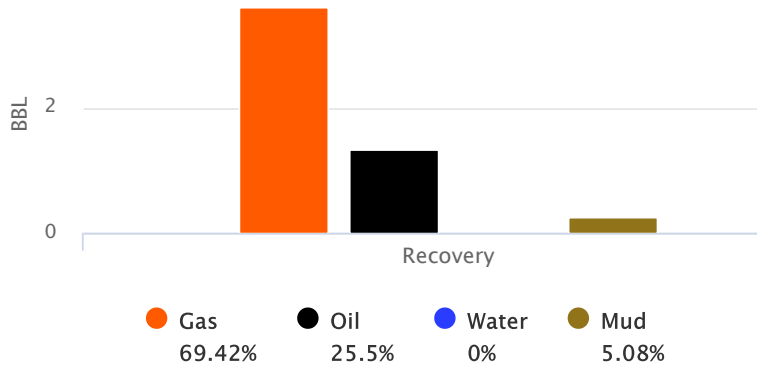
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
251	3.57173	G	100	0	0	0
127	1.3081009	O	0	100	0	0
63	0.30996	SLOCSLGCM	10	5	0	85

Total Recovered: 441 ft
Total Barrels Recovered: 5.1897909

Reversed Out
NO

Initial Hydrostatic Pressure	1492	PSI
Initial Flow	12 to 63	PSI
Initial Closed in Pressure	1015	PSI
Final Flow Pressure	65 to 80	PSI
Final Closed in Pressure	1002	PSI
Final Hydrostatic Pressure	1493	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	1.3	%

Recovery at a glance





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Rig 8
Elevation: 1964 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 160

DATE June 05 2018
--

DST #1 Formation: LKC E-F Test Interval: 3218 - Total Depth: 3245'
3245'

Time On: 17:36 06/05 Time Off: 01:52 06/06
Time On Bottom: 19:50 06/05 Time Off Bottom: 00:20 06/06

REMARKS:

- 1O. WSB. BOB in 38 mins
- 1C. 1/2" Blow Back
- 2O. 1/2" Blow. BOB in 25
- 2C. NOBB

Tool Sample: 85 % O 15% M

Gravity: 36 @ 60 degrees F



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Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1964 EGL
Field Name: Wildcat
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Job Number: 160

<p>DATE June 05 2018</p>
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DST #1 Formation: LKC E-F Test Interval: 3218 - 3245' Total Depth: 3245'

Time On: 17:36 06/05 Time Off: 01:52 06/06
Time On Bottom: 19:50 06/05 Time Off Bottom: 00:20 06/06

Down Hole Makeup

Heads Up: 8.94 FT	Packer 1: 3213 FT
Drill Pipe: 3085.17 FT <i>ID-3 1/2</i>	Packer 2: 3218 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3205 FT
Collars: 116.61 FT <i>ID-2 1/4</i>	Bottom Recorder: 3223 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 27	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 23 FT <i>4 1/2-FH</i>	



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Rig 8
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Field Name: Wildcat
Pool: WILDCAT
Job Number: 160

<p>DATE June 05 2018</p>
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DST #1 Formation: LKC E-F Test Interval: 3218 - Total Depth: 3245'
3245'

Time On: 17:36 06/05 Time Off: 01:52 06/06
Time On Bottom: 19:50 06/05 Time Off Bottom: 00:20 06/06

Mud Properties

Mud Type: Chem **Weight:** 9 **Viscosity:** 60 **Filtrate:** 6.4 **Chlorides:** 1400 ppm

Bird #1-11 Drilling Report

Hartman Oil Co., Inc.

KB: 1969

Bird #1-11

GL: 1964

85'FN & 1690'FW

Section 11-8S-18W

Rooks County, Kansas

#15-163-24,363

Reference Well A: *F&M/Oil Prod Bird #1 NWNWNW Sec 11-8S-18W*

Reference Well B: *Murfin Conyac #1 NWNWNE Sec 11-8S-18W*

		<u>A:</u>	<u>B:</u>			<u>A:</u>	<u>B:</u>
<u>SAMPLE TOPS</u>				<u>ELECTRIC LOG TOPS</u>			
Anhydrite	1351 (+618)	+11	+14	Anhydrite	1352 (+617)	+10	+13
B/Anhydrite	1388 (+581)	+9	+13	B/Anhydrite	1389 (+580)	+8	+12
Topeka	2897 (-928)	-1	+8	Topeka	2896 (-927)	flat	+9
Heebner	3106 (-1137)	flat	+10	Heebner	3106 (-1137)	flat	+10
Toronto	3129 (-1160)	-1	+8	Toronto	3128 (-1159)	flat	+9
Lansing	3150 (-1181)	-2	+8	Lansing	3148 (-1179)	flat	+10
Mun Creek	3270 (-1301)	-4	+5	Mun Creek	3265 (-1296)	+2	+10
Stark	3334 (-1365)	-4	+5	Stark	3329 (-1360)	+1	+1
B/KC	3372 (-1403)	-2	+9	B/KC	3371 (-1402)	-1	+1
Arbuckle	3484 (-1515)*	-30	-4	Arbuckle	3484 (-1515)	-30	-4
RTD	3570 (-1601)			LTD	3577 (-1608)		

*Had very thick conglomerate section; Arbuckle pick made where samples began to switch to predominantly dolomite

6-1-18: Spud at 8:00 pm

7am 6-2-18: WOC at 288'. 8 5/8" set at 288' w/200 sx. Common 3%CC 2% gel.

7am 6-3-18: Drilling ahead 1750'

7am 6-4-18: Drilling ahead 2640'

Sample Shows and Drill Stem Tests:

Topeka 30' zn:

Circulate 2933'

Limestone, cream; fossiliferous; very chalky; scattered poor to fair pinpoint porosity; several pieces medium brown spotty stain; slight show of free oil on break; slight questionable odor; dull yellow fluorescence; no cut.

Oread "C":

Limestone, cream; very oolitic; pelletoid; poor to fair interparticle porosity; 2-3 pieces only medium brown spotty stain; slight show of free oil—flaky on break; no odor; slight yellow fluorescence; slight milky cut.

Toronto:

Circulate 3142'

Limestone, cream; dolomitic; poor to fair pinpoint porosity; abundant golden brown subsaturated to saturated stain; slight show of free oil; slight to fair odor; dull yellow fluorescence; milky cut; overall show appears tight.

No shows in Lansing "A" ...

7am 6-5-18: CFS at 3196'

Lansing "C":

Circulate 3196'

Limestone, cream; slightly fossiliferous; poor to fair interparticle and pinpoint porosity; mealy; fair amount golden brown saturated stain; very slight show of free oil; fair fleeting odor on break; bright yellow fluorescence; milky cut.

Lansing "D":

Circulate 3220'

Limestone, cream; fossiliferous; poor interparticle porosity; isolated vugular porosity; light brown spotty stain; very slight show of free oil; slight odor; bright yellow fluorescence; milky cut.

Lansing "E/F":

Circulate 3245'

DST #1

Limestone, cream-tan; very oolitic; dolomitic; fair interoolitic porosity; abundant medium brown even saturated stain; fair show of free oil; abundant active gas bubbles on break; fair to good gassy odor; bright yellow fluorescence; good milky cut – best show in 40" circulation sample. *Upper break 4' thick; Lower break 3' thick*

Using Diamond Testing P.O.R.T.A.L. System; Diamond's infinite bucket system allows all open and shut in flows to build beyond the conventional 12"=BOB system. Both measurements will be displayed.

DST #1:

Diamond Testing Co., Inc.

Lansing "E-G":

Ricky Ray; Tester

3218-3245

Conventional

1st Op: BOB 38"

1/2" Blowback

2nd Op: BOB 25"

No Blowback

P.O.R.T.A.L System

1st Op: 19.8"/60 min

Blowback .5"/45 min

2nd Op: 22.8"/60 min

Blowback 0"/45 min

Rec:

251' GIP

127' Oil – Grav 36

63' SOGCM (10%G, 5%O, 85%M)

190' Total Fluid

IFP: 12-63#/60"

ISIP: 1015#/45”
FFP: 65-80#/60”
FSIP: 1002#/45”

Tool Sample: 85%O, 15%M

Pipe Strap at 3245’: 2.29’ Short to Board

7am 6-6-18: Drilling ahead 3263’

Lansing “H”: *Circulate 3290’*

Limestone, cream; fossiliferous; isolated pinpoint porosity; 1-2 pieces light brown spotty stain; very slight show of free oil; no odor; dull yellow fluorescence; slow milky cut.

Lansing “I”: *Circulate 3314’*

Limestone, cream; fossiliferous; chalky; poor to scattered fair interparticle porosity; few pieces light brown spotty stain; no show of free oil; no odor.

Lansing “J”: *Circulate 3336’*

Limestone, cream; fossiliferous and oolitic; some vugular porosity; few pieces dolomitic; fair interparticle porosity; medium brown subsaturated to saturated stain – one piece heavily saturated; slight to fair show of free oil – few small gas bubbles on break; slight to fair gassy odor; dull yellow fluorescence; milky cut.

Lansing “K”: *Circulate 3360’*

Limestone, cream; fossiliferous; poor to fair fossilcast porosity; few pieces golden brown spotty to subsaturated stain; slight show of free oil on break; slight gassy odor; yellow fluorescence; milky cut.

Lansing “L”: *Circulate 3377’*

Limestone, cream; fossiliferous and oolitic; poor to fair pinpoint porosity; abundant pieces medium brown subsaturated to saturated stain; slight show of free oil – pinpoint beads of free oil on break; no odor; very slight yellow fluorescence; no cut.

No shows in Arbuckle ...

Heavy 70+ winds and torrential rain from 3560’ to TD. Had to stop and circulate 30 minutes; wind was affecting drill line and geolograph readings. At 3:30 am Halliburton arrived early on location in the midst of the storm. The large semi-truck sized logging vehicle slid off the slick mud and became stuck sideways in the road blocking the road and part of the yard. The toolpusher called for a cat and they were unable to arrive until daybreak. The cat has since pulled Halliburton to the catwalk, cleaned up the road and location and the crews have pulled the pipe on the bank ready for loggers. We should be ready to head to bottom with the logging tool shortly...

The Arbuckle came in low similar to the Murfin Conyac #1; one of the key wells we are referencing. What is important to remember is that the Lansing appears to be flat to the F&M Bird #1 when the pipe strap is taken into account. Across the highway to our east lies the Carrol J Pool which is analogous to the situation we have here; zone development

in the G zone (the main producer in the Carrol J Pool) and a structurally low Arbuckle. The G zone test taken on the HOC Bird #1-11 is very similar in nature to the positive G zone tests across the road in the Carrol J and I believe this is significant. I will point those logs out to the logging engineer and ask him to try to compare the G zone calculations we will have on this well with log calculations from across the road. We recommend holding judgement on setting production casing until a thorough log evaluation has been made by Halliburton.

KN

Decision made by Hartman Oil Co., Inc. exploration staff to plug and abandon the Bird #1-11...

FINAL REPORT