KOLAR Document ID: 1417221

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 #	API No.:
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
□ Oil □ WSW □ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
☐ OG ☐ GSW	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Committed at Provider	Chloride content: ppm Fluid volume: bbls
☐ Commingled Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if fladied offsite.
GSW Permit #:	Operator Name:
<u> </u>	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	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 Approved by: Date:

KOLAR Document ID: 1417221

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery, Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	ad Paraant Additivas	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u	Type and Percent Additives			
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:	METHOD OF COMPLETION: PRODUCTION INTERVAL:					N INTERVAL:		
Vented	Sold Use	d on Lease		Open Hole		Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)			Bottom	
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (SUDI	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type Bridge Plug Set At Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)				Record		
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Stewart Producers, Inc.
Well Name	CUNNINGHAM 2
Doc ID	1417221

All Electric Logs Run

DIL
Dual Comp Porosity
Microresistivity
G/R Caliper

Form	ACO1 - Well Completion
Operator	Stewart Producers, Inc.
Well Name	CUNNINGHAM 2
Doc ID	1417221

Tops

Name	Тор	Datum
Anh.	1619	723
Base Anh.	1656	686
Heebner	3718	-1376
Lansing	3760	-1418
ВКС	4095	-1753
Pawnee	4184	-1842
Ft Scott	4261	-1919
Cherokee	4287	-1945
Mississippian	4357	-2015
TD	4446	-2104

Form	ACO1 - Well Completion
Operator	Stewart Producers, Inc.
Well Name	CUNNINGHAM 2
Doc ID	1417221

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	221	Common	170	2% gel, 3% cc, 1/4# celflake/sx



Inc

Lease: Cunningham #2

SEC: 19 TWN: 18 S RNG: 24 W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 Est

Field Name: Laird Northeast

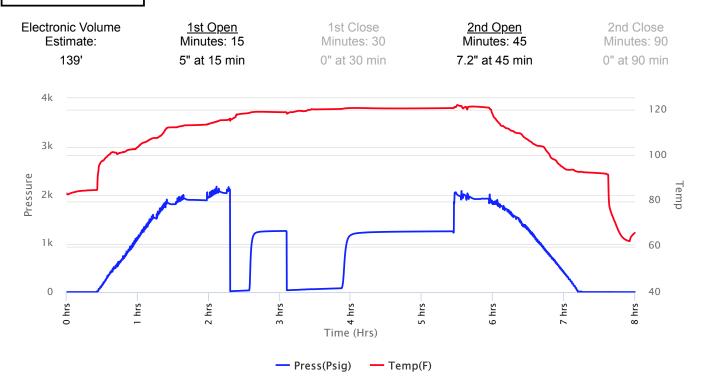
Pool: Infield Job Number: 163

DATEMay **28**2018

DST #1 Formation: MISS Test Interval: 4318 - Total Depth: 4370'

Time On: 18:33 05/28 Time Off: 02:21 05/29

Time On Bottom: 20:45 05/28 Time Off Bottom: 23:45 05/28





Inc

Lease: Cunningham #2

SEC: 19 TWN: 18 S RNG: 24 W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 Est

Field Name: Laird Northeast

Pool: Infield Job Number: 163

DATE	
May	
28	
2018	

DST #1 Formation: MISS Test Interval: 4318 - Total Depth: 4370'

Time On: 18:33 05/28 Time Off: 02:21 05/29

Time On Bottom: 20:45 05/28 Time Off Bottom: 23:45 05/28

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	Mud %
10	0.1423	0	0	100	0	0
65	0.92495	OCM	0	26	0	74
70	0.9961	SLOCHWCM	0	4	46	50

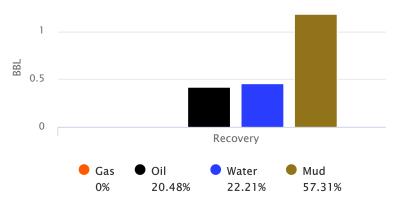
Total Recovered: 145 ft

Total Barrels Recovered: 2.06335

Reversed Out
NO

Initial Hydrostatic Pressure	2047	PSI
Initial Flow	17 to 36	PSI
Initial Closed in Pressure	1262	PSI
Final Flow Pressure	39 to 85	PSI
Final Closed in Pressure	1255	PSI
Final Hydrostatic Pressure	2020	PSI
Temperature	121	°F
Pressure Change Initial	0.6	%
Close / Final Close		

Recovery at a glance





Inc

Lease: Cunningham #2

SEC: 19 TWN: 18 S RNG: 24 W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 Est

Field Name: Laird Northeast

Pool: Infield Job Number: 163

DATEMay **28**2018

DST #1 Formation: MISS Test Interval: 4318 - 4370'

erval: 4318 - Total Depth: 4370'

Time On: 18:33 05/28 Time Off: 02:21 05/29

Time On Bottom: 20:45 05/28 Time Off Bottom: 23:45 05/28

REMARKS:

TOOL SAMPLE:

IFP:1/4"BLOW-INCREASING TO 5" IN 15 MINUTES ISIP:NO BLOW BACK FFP:WSB-INCREASING TO 7 1/4" IN 45 MINUTES

Gravity: 35.8 @ 60 degrees F

FSIP:NO BLOW BACK

Ph: 7

RW: .51 @ 55 degrees F

Chlorides: 19000 ppm



Inc

Lease: Cunningham #2

SEC: 19 TWN: 18 S RNG: 24 W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 Est

Field Name: Laird Northeast

Pool: Infield Job Number: 163

May 28 2018 DST #1 Formation: MISS Test Interval: 4318 - 4370'

al: 4318 - Total Depth: 4370'

Time On Bottom: 20:45 05/28 Time Off Bottom: 23:45 05/28

Down Hole Makeup

Heads Up: 5.83 FT Packer 1: 4313 FT

Drill Pipe: 4291.26 FT **Packer 2:** 4318 FT

ID-3 1/2 Top Recorder: 4302.42 FT

Weight Pipe: FT Bottom Recorder: 4353 FT

ID-2 7/8 Well Bore Size: 7 7/8

Collars: FT

ID-2 1/4

Surface Choke: 1"

est Tool: 33.57 FT Bottom Choke: 5/8"

Test Tool: 33.57 *ID-3 1/2-FH*

Jars

Safety Joint

Total Anchor: 52

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 32 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 18 FT

4 1/2-FH



Inc

Lease: Cunningham #2

SEC: 19 TWN: 18 S RNG: 24 W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 Est

Field Name: Laird Northeast

Pool: Infield Job Number: 163

<u>DATE</u>
May
28
2018

DST #1 Formation: MISS

Test Interval: 4318 -

Total Depth: 4370'

4370'

Time On: 18:33 05/28 Time Off: 02:21 05/29

Time On Bottom: 20:45 05/28 Time Off Bottom: 23:45 05/28

Mud Properties

Mud Type: CHEMICAL Weight: 9.2 Viscosity: 57 Filtrate: 9.2 Chlorides: 3100 ppm



Inc

Lease: Cunningham #2

SEC: 19 TWN: 18 S RNG: 24 W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 Est

Field Name: Laird Northeast

Pool: Infield Job Number: 163

DATEMay **28**2018

DST #1 Formation: MISS Test Interval: 4318 - Total Depth: 4370'

4370'

Time On: 18:33 05/28 Time Off: 02:21 05/29

Time On Bottom: 20:45 05/28 Time Off Bottom: 23:45 05/28

Gas Volume Report

1st Open 2nd Open

Time Office 1 of Mo17B	Time	Orifice	PSI	MCF/D		Time	Orifice	PSI	MCF/D
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Inc

Lease: Cunningham #2

SEC: 19 TWN: 18S RNG: 24W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 EGL Field Name: Laird NE

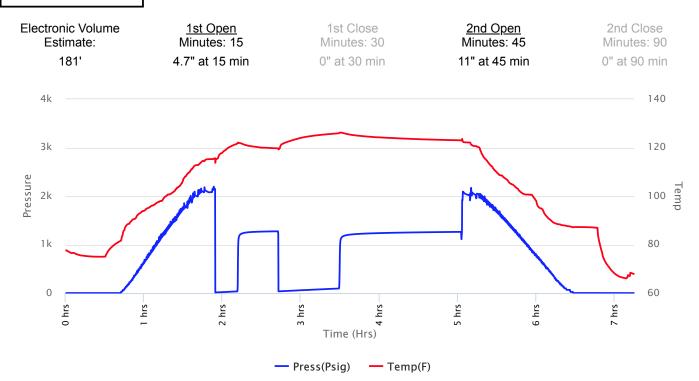
Pool: Infield Job Number: 163

<u>DATE</u>
May
29
2018

DST #2 Formation: MISS Test Interval: 4368 - Total Depth: 4440' 4382'

Time On: 15:15 05/29 Time Off: 22:19 05/29

Time On Bottom: 17:05 05/29 Time Off Bottom: 20:05 05/29





Inc

Lease: Cunningham #2

SEC: 19 TWN: 18S RNG: 24W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 EGL Field Name: Laird NE

Pool: Infield Job Number: 163

DATE	
May	
29	
2018	

DST #2 Formation: MISS Test Interval: 4368 - Total Depth: 4440' 4382'

Time On: 15:15 05/29 Time Off: 22:19 05/29

Time On Bottom: 17:05 05/29 Time Off Bottom: 20:05 05/29

Recovered

<u>Foot</u>	BBLS	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	Mud %
54	0.76842	SLMCW	0	0	87	13
126	1.79298	SLMCW	0	0	97	3

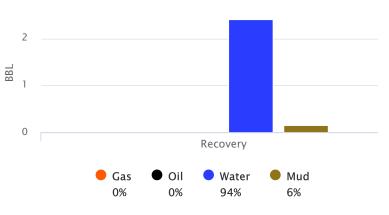
Total Recovered: 180 ft

Total Barrels Recovered: 2.5614

Reversed Out
NO

Initial Hydrostatic Pressure	2082	PSI
Initial Flow	13 to 36	PSI
Initial Closed in Pressure	1275	PSI
Final Flow Pressure	37 to 95	PSI
Final Closed in Pressure	1264	PSI
Final Hydrostatic Pressure	2052	PSI
Temperature	127	°F
Pressure Change Initial	0.9	%
Close / Final Close		

Recovery at a glance





Inc

Lease: Cunningham #2

SEC: 19 TWN: 18S RNG: 24W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 EGL Field Name: Laird NE

Pool: Infield Job Number: 163

DATEMay **29**2018

DST #2 Formation: MISS Test Interval: 4368 - Total Depth: 4440' 4382'

Time On: 15:15 05/29 Time Off: 22:19 05/29

Time On Bottom: 17:05 05/29 Time Off Bottom: 20:05 05/29

REMARKS:

TOOL SAMPLE:84% WATER 16% MUD WITH OIL SPECKS

IFP:WSB-INCREASING TO 4 3/4" IN 15 MINUTES ISIP:NO BLOW BACK FFP:NO BLOW-INCREASING TO 11" IN 45 MINUTES FSIP:NO BLOW BACK

BELOW STRADDLE MAX PSI:1380

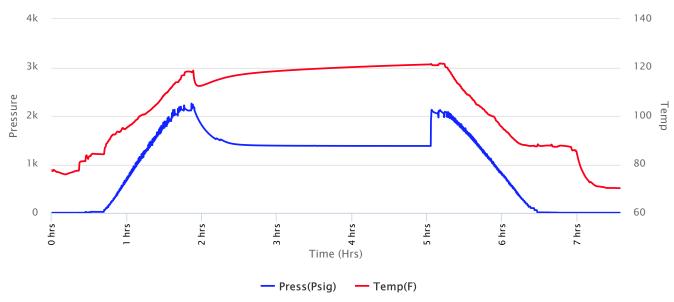
TRACE OF OIL IN 54' RECOVERY

Ph: 7

RW: .32 @ 75 degrees F

Chlorides: 16000 ppm

Below Straddle Recorder





Inc

Lease: Cunningham #2

SEC: 19 TWN: 18S RNG: 24W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 EGL Field Name: Laird NE

Pool: Infield Job Number: 163

May 29 2018 DST #2 Formation: MISS Test Interval: 4368 - Total Depth: 4440'

4382'

Time On: 15:15 05/29 Time Off: 22:19 05/29

Time On Bottom: 17:05 05/29 Time Off Bottom: 20:05 05/29

Down Hole Makeup

Heads Up: 19.9 FT Packer 1: 4363 FT

Drill Pipe: 4355.33 FT **Packer 2:** 4368 FT

ID-3 1/2 Packer 3: 4382 FT

Weight Pipe: FT **Top Recorder:** 4352.42 FT

Bottom Recorder: 4383 FT

ID-2 1/4 Below Straddle Recorder: 4417 FT

Test Tool: 33.57 FT Well Bore Size: 7 7/8

ID-3 1/2-FH

Jars Surface Choke: 1"

Safety Joint Bottom Choke: 5/8"

Total Anchor: 14

Collars:

Anchor Makeup

FT

Packer Sub: 1 FT

Perforations: (top): 13 FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): FT

4 1/2-FH

STRADDLE

Straddle Packer(s): 1 FT

Change Over: .5 FT

Drill Pipe: 32 FT

ID-3 1/2"

Change Over: .5 FT

Perforations (in tail pipe): 24 FT

4 1/2-FH



Inc

Lease: Cunningham #2

SEC: 19 TWN: 18S RNG: 24W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 EGL Field Name: Laird NE

Pool: Infield Job Number: 163

<u>DATE</u>
May
29
2018

DST #2 Formation: MISS

Test Interval: 4368 -

Total Depth: 4440'

4382'

Time On: 15:15 05/29 Time Off: 22:19 05/29

Time On Bottom: 17:05 05/29 Time Off Bottom: 20:05 05/29

Mud Properties

Mud Type: CHEMICAL Weight: 9.2 Viscosity: 61 Filtrate: 8.4 Chlorides: 3500 ppm



Inc

Lease: Cunningham #2

SEC: 19 TWN: 18S RNG: 24W

County: NESS State: Kansas

Drilling Contractor: Pickrell Drilling

Company, Inc. - Rig 10 Elevation: 2333 EGL Field Name: Laird NE

Pool: Infield Job Number: 163

<u>DATE</u>
May **29**2018

DST #2 Formation: MISS Test Interval: 4368 - Total Depth: 4440'

4382'

Time On: 15:15 05/29 Time Off: 22:19 05/29

Time On Bottom: 17:05 05/29 Time Off Bottom: 20:05 05/29

Gas Volume Report

1st Open 2nd Open

	Time	Orifice	PSI	MCF/D		Time	Orifice	PSI	MCF/D
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STEWART PRODUCERS, INC.

301 N. 27th Street Mt. Vernon, IL 62864 (618) 244-3754 office@stewartproducers.com

June 5, 2018

Re:

Geologic Report

Stewart Producers Inc.

Cunningham #2 80' FSL, 2138' FWL Sec. 19 T18S R24W Ness County, Kansas

GEOLOGIC REPORT

Investors,

The following is a summary of activities related to the drilling of the above referenced test well:

GENERAL DATA:

Operator:

Stewart Producers Inc.

Contractor:

Pickrell Drilling, Inc. Rig 10

Spud Date:

May 22, 2018

Completion Date:

May 30, 2018

Elevation:

2342' Kelly Bushing (reference point), 2335 Ground

Rotary Total Depth: 4440 (-2098)

Log Total Depth:

4446 (-2104)

Surface Casing:

8 5/8" set at 221' with 170 sacks common, 2% CC, 2% Gel, ¼ # celflake/sx

Production Casing:

None

Electrical Surveys:

Pioneer Energy Services:

Dual Induction Log

Dual Compensated Porosity Log

Micro Resistivity Log

Drill Stem Tests:

Diamond Testing -

DST #1 4318'-4370' (Mississippian)

DST #2 4368'- 4382' (Mississippian - Straddle)

Mud:

Chemical - Mud Co

Well Site Geologist: David J. Goldak

GEOLOGICAL DATA

Geological supervision was conducted by David J. Goldak from 3900 feet to the rotary total depth (RTD) of 4440 feet. One foot drilling time was saved from 3500 feet to RTD. Samples (wet and dry) were saved and examined from each 10 foot interval from 3900 feet to RTD. A plotted geologic report including drilling time, sample and log tops, sample descriptions and drill stem test data was also prepared by Mr. Goldak and submitted to the operator.

Formation Tops:	Log: Depth (Datum)	Sample: Depth (Datum)
Stone Corral Anhydrite	1619 (+723)	1620 (+722)
Base Stone Corral	1656 (+686)	1658 (+684)
Heebner	3718 (-1376)	3714 (-1372)
Lansing	3760 (-1418)	3755 (-1413)
Stark Shale	4040 (-1698)	4036 (-1694)
Base Kansas City	4095 (-1753)	4091 (-1749)
Pawnee	4184 (-1842)	4181 (-1839)
Ft. Scott	4261 (-1919)	4256 (-1914)
Cherokee Shale	4287 (-1945)	4283 (-1941)
Mississippian	4357 (-2015)	4360 (-2018)
Total Depth	4446 (-2104)	4440 (-2098)

Log measurements were generally 4 to 6 feet lower than rotary measurements. During drilling, correlation was made to rotary measurements in the #1 Cunningham producing well located approximately 1000' to the northwest, because log measurements were suspect in that well. Sample tops in the #2 Cunningham correlated essentially flat to the Stewart Producers, Inc. #1 Cunningham. The top of the Mississippian based on depth correlation to the log would be 4354 (-2012), or + 1 to the #1 Cunningham.

Zones of Interest:

Ft Scott: The upper zone $(4261' - 4274' \log)$ consisted of cream to tan, slightly fossiliferous and oolitic limestone; primarily dense, with no shows of oil.

The lower zone (4278'-4287' log) consisted of cream to tan, slightly fossiliferous and oolitic limestone, with scattered poor intercrystalline and pin-point porosity. There was a very slight show of free oil and gas bubbles, faint odor, scattered spotty staining. Deemed not worthy of drill-stem testing.

Mississippian: The sample top of the Mississippian formation was called at 4360' (-2018), but based on depth correlation to the log the top is 4354 (-2012), or + 1 to the #1 Cunningham.

The zone from 4354'-4370' (samples) consisted of cream to tan very fine to fine crystalline dolomite; cherty in part with poor to fair vugular and intercrystalline porosity. A very slight show of free and dead oil, with fair odor, spotty saturated black and brown staining; trace of barren porosity, good

fluorescence and cut was observed. Also varicolored chert, weathered in part, scattered free oil, scattered spotty staining, fair odor. Tested in DST #1.

DST#1: 4318'-4370'

1st Open - 15" - Blow built to 5 inches. (IFP = 17 to 36 psi)

1st Shut in - 30'' – No blow back. (ISIP = 1262 psi)

2nd Open - 45" - Blow built to 7 inches. (FFP =39 to 85 psi)

2nd Shut in - 90"- No blow back. (FSIP = 1255 psi)

Recovery: 145' total Fluid

10 feet clean oil (100% oil), 36 API gravity.

60 feet oil cut mud (26% oil, 74% mud)

(4371'-4382' sample) Dolomite, cream, tan, light gray, very fine to fine to scattered medium crystalline; poor to good vugular and inter-crystalline porosity. A slight to fair show of free oil and dead oil, trace of barren porosity, with faint odor, spotty/saturated/ brown and black staining, fair fluorescence was observed. Also varicolored chert, weathered in part, scattered black edge staining. Tested in DST #2 (straddle).

DST#2: 4368'-4382'

1st Open - 15" - Blow built to 4.75 inches. (IFP = 13 to 36 psi)

1st Shut in - 30" - No blow back. (ISIP = 1275 psi)

2nd Open - 45"- Blow built to 11 inches. (FFP =37 to 95 psi)

2nd Shut in - 90"- No blow back. (FSIP = 1264 psi)

Recovery: 180' total Fluid

54 feet muddy water (87% water, 3% mud)

126 slightly mud cut water (97% water, 3% mud), 16,000 ppm chlorides

Log Evaluation and Recommendations:

Following DST #1, the well was drilled to a rotary total depth of 4440' (4446' log). Pioneer Energy Services ran an open-hole log suite consisting of: Dual Induction Log, Dual Compensated Porosity Log, and Micro-resistivity Log.

A review of the logs was conducted by Robert Stewart, Petroleum Engineer. Cross plotted Neutron-Density porosity in the Mississippian dolomite from 4357' to 4375' (log) ranged from 14% to 15% with 45% calculated water saturation (Tested in DST #1).

The zone from 4376-4386 (log) averaged 15% cross plotted Neutron-Density porosity, with 37% calculated water saturation. It was decided to run a straddle DST over this zone. Tested in DST#2.

Due to the negative results of DSTs 1 and 2, the well was plugged and abandoned.

Respectfully submitted,

Mark A. Thompson, P.G.

Mark a Thompson

Petroleum Geologist

6843

QUAL. TY WELL SERVI E, INC. Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

Date 5-22-13	Sec.	Twp. /85	Range Z4W	N	County	State	On Location	Finish / 15		
Lease Conninghor	w	ell No.	2	Location	on NESS	City 6/2	W to LE	20		
Contractor Picker	=11	Rel	9 410		Owner / N	Einto				
Type Job Suo FAC	5				To Quality We	ell Service, Inc. by requested to rent	comenting equipmen	t and furnish		
Hole Size 121/4		T.D.	n.		cementer an	d helper to assist ow	ner or contractor to d	o work as listed.		
Csg. 85/8		Depth	221		Charge 5	tewart Produ	icors Inc.			
Tbg. Size		Depth			Street 30		1	546		
Tool		Depth			City MT	Vernon	State L 6	2864-0546		
Cement Left in Csg.		Shoe Jo	oint		The above wa	s done to satisfaction ar	nd supervision of owner	agent or contractor.		
Meas Line		Displace	е		Cement Amo	ount Ordered	056 Commo	960		
	EQUIPM	IENT			21,6	L31/.CC 1/2	7"CF.			
Pumptrk & No. T	000)			Common /	70				
Bulktrk / O No.	TIKE				Poz. Mix					
Bulktrk No.					Gel. 3					
Pickup No.					Calcium /					
JOB SER	VICES 8	& REMA	RKS		Hulls		8			
Rat Hole					Salt					
Mouse Hole					Flowseal 4	3				
Centralizers					Kol-Seal	4				
Baskets		-	•		Mud CLR 48					
D/V or Port Collar	10			*	CFL-117 or 0	CD110 CAF 38				
on Loc 9:45	Kig	ST	LL DZG	3	Sand	2=		· ·		
1000 5 3+3	85/	e " c	255	7.	Handling /	83				
261 9 551			, A		Mileage 3	7				
STATUSE CSO	300	13	ofton			FLOAT EQUIPMI	ENT			
BREAK CIRL	1 1	17			Guide Shoe					
Romo 15 Bh)15	160)		Centralizer					
Mix & Rome	10	SX C	mmon		Baskets			-		
C1. (EL 3). CL	19	CFI			AFU Inserts	-				
SIAU DISP	0 -	200	*		Float Shoe	10				
1000 0000 11	00	200	-		Latch Down					
Good Ciel thru		0	NF		LMU	37				
Circ 10 Bbls	CMT	70	P.+		SERVIC		22			
Thorn Da					Pumptrk Cha	- OHO				
Thank You	/11 -	'vid (211000	1	Mileage 7.0)	Tax	· · · · · · · · · · · · · · · · · · ·		
T000 PA	K3	AIR (All AGA,	2			Discount			
X Signature	111	/						0		
Signature	NC					6	Total Charge	Taylor Printing, Inc.		

6848

QUALITY WELL SERVICE, INC. Federal Tax I.D. # 481187368 Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

Date 5-30-13	Sec.	Twp.	Range Z4W		County	State	On Location	Finish S. 15
Lease Onningham	-	ell No.	12	Location	on NESS	s city 6/2 (N to L Rd	(N
Contractor Picker		DRIS	1-10		Owner	Eits		
Type Job PTA)	- 33.00		To Quality We	ell Service, Inc.	cementing equipmen	t and furnish
Hole Size 7 7/3	*	T.D.	4440		cementer and	d helper to assist ow	ner or contractor to de	o work as listed.
Csg.		Depth	- A - A		Charge ST	EWART PR	DOUCERS IN	(,
Tbg. Size 412 0. F	?.	Depth	1680'		Street	m F		
Tool		Depth	en e		City	Planting Consequence of the Cons	State	razioni en
Cement Left in Csg.		Shoe Jo	oint		The above wa	s done to satisfaction a	nd supervision of owner	agent or contractor.
Meas Line		Displac	е		Cement Amo	ount Ordered 233) Sx 60/40	41/ KEL
L	EQUIPM	IENT			1/4" C.	·F.		
Pumptrk & No.	TJ				Common /	33		
Bulktrk 9 No.	1. KE				Poz. Mix	92	RECEIVE	
Bulktrk No.					Gel.	3	and a fine	L
Pickup No.	00		4		Calcium		JUN 1 1 2018	
JOB SE	RVICES	& REMA	RKS		Hulls			
Rat Hole			4		Salt			
Mouse Hole		8			Flowseal	53		
Centralizers					Kol-Seal		*	
Baskets					Mud CLR 48			*
D/V or Port Collar		,			CFL-117 or 0	CD110 CAF 38		
15+ Plug 2/680 5	50546	OAD	41. KEL 1/4" (1		Sand			75.7
1Rump 470 514 60.	40 41.0	EL1/4	CF D. Sp M	30	Handling	240		
					Mileage	37		
10 870 879 DE	60/40	14/ CE	1 14'CF			FLOAT EQUIPM	ENT	
Pomp H20 80x 60/43	4/. Ge	141	CF 17.50 HZ.	>	Guide Shoe			
02/10/	,	, ,			Centralizer	5 9 W 10 m		
3º Plug 270' 505	60/9	104%	GEL 14" C.		Baskets			
Punp 1420 505x 60,	14041	GEL Y	i (F Disp	1/20	AFU Inserts	K 72		
http://	, ,		1 1/4 22		Float Shoe			T .
0 1 11 1	154%	(EL/4" C.F.		Latch Down			* * * * * * * * * * * * * * * * * * * *	
RATHOLE 3051 1	00/40	41.60	EL 14' C.F.					
					SEWIC	E SUPERVISO	PR.	
Thank you		- 1			Pumptrk Chai			
PIEASE (MID	GAIN)		Mileage 7	5		
T00V)	Milco	TJ					Tax	
	,/						Discount	
Signature M						*	Total Charge	
1/				1				Taylor Printing, Inc.