



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1147600
OIL & GAS CONSERVATION DIVISION

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 # _____

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 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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1147600

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 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				

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ 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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MERMIS 'B' 'OWWO' 2-31
Doc ID	1147600

All Electric Logs Run

DIL
CDL/CNL
BHCS
CPI
Microresistivity
Sonic Cement Bond Log

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MERMIS 'B' 'OWWO' 2-31
Doc ID	1147600

Tops

Name	Top	Datum
Herrington	1932	+72
Winfield	1988	+16
Towanda	2051	-47
Fort Riley	2093	-89
B/Florence	2190	-186
Wrefold	2238	-234
Council Grove	2257	-253
Crouse	2307	-303
Neva	2434	-430
Red Eagle	2497	-493
Onaga Shale	2646	-642
Wabaunsee	2666	-662
Root Shale	2760	-756
Stotler	2789	-785
Tarkio	2846	-842
Howard	2992	-988
Severy Shale	3052	-1048
Topeka	3070	-1066
Heebner	3330	-1326
Toronto	3348	-1344
Douglas Shale	3361	-1357
Brown Lime	3424	-1420
LKC	3433	-1429
Drum	3578	-1574

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	MERMIS 'B' 'OWWO' 2-31
Doc ID	1147600

Tops

Name	Top	Datum
BKC	3738	-1734
Arbuckle	3771	-1767
RTD	4500	-2496

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

June 13, 2013

Loveness Mpanje
F. G. Holl Company L.L.C.
9431 E CENTRAL STE 100
WICHITA, KS 67206-2563

Re: ACO1
API 15-009-22892-00-01
MERMIS 'B' 'OWWO' 2-31
SW/4 Sec.31-20S-15W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

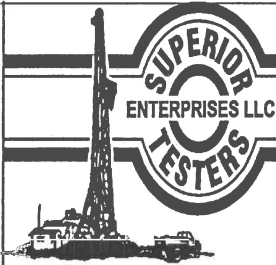
Respectfully,
Loveness Mpanje

Customer FL Hall	Lease No.	Date 5-15-13	
Lease Main B	Well # Owwo 2-31		
Field Order # 2415	Station Pratt	Casing 5"	Depth
Type Job CNO-5 1/2 L.S.	Formation	County Barber	State KS
		Legal Description 31-20-15	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft	135	Acid		RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	1.113	Max		5 Min.
Volume	Volume	From	To	Pad	60/440	Min		10 Min.
Max Press	Max Press	From	To	Frac	1.0	Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	94.4	Gas Volume		Total Load

Customer Representative Robb	Station Manager Steve Scott	Treater Steve Orlando
Service Units 07783 07443 19960 21010		
Driver Names Orlando Robb Phyo		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:00 PM					On location - Safety Meeting
					Run 95 71.5 5 1/2 Casing
					Part of slow AB 16 18 71
					Backed Above Show
					Continued on the
4:30	300		5	5 1/2	H2O spacer
	300		17	5 1/2	Superflush
	300		5	5 1/2	H2O spacer
	300		6	5 1/2	mix 125 sk. @ 14"
	350		31	5 1/2	mix 125 sk. AP2 @ 15"
					Slow Down - Clear pump
					Release latch down plug
	0		0	6	Start H2O Displacement
	400		65	5	K.F.T pressure
	900		85	4	Slow Rate
5:15 PM	1500		94 1/2	4	Plug Down - Hold
			6/11		mix 50 sk. 60/440 11 1/2
					Job Complete
					Thanks Steve



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: ryan Greenbaum

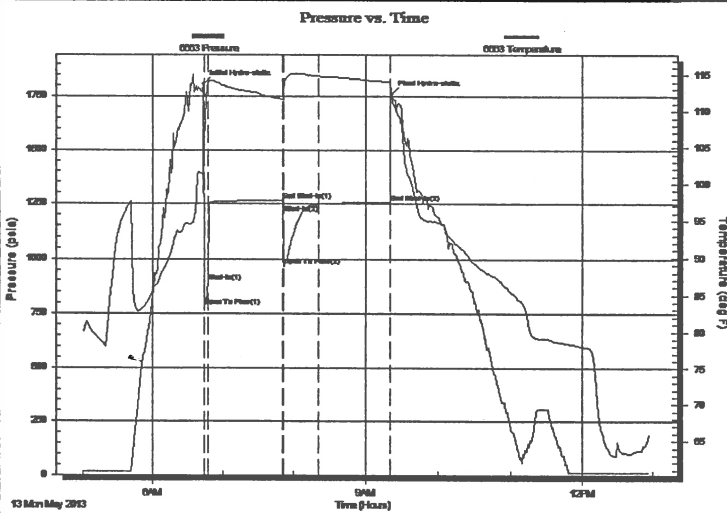
21-20s-15w
Mermis "B" OWWO #2-3
 Job Ticket: 17080 **DST#: 1**
 Test Start: 2013.05.13 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Test Type: Conventional Straddle (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Interval: **3815.00 ft (KB) To 3825.00 ft (KB) (TVD)**
 Total Depth: 3895.00 ft (KB) (TVD)
 Reference Elevations: 2004.00 ft (KB)
 1996.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press@RunDepth: 1256.13 psia @ 3823.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.05.13 End Date: 2013.05.13 Last Calib.: 2013.05.14
 Start Time: 05:00:00 End Time: 12:57:00 Time On Btm: 2013.05.13 @ 06:43:30
 Time Off Btm: 2013.05.13 @ 09:21:30

TEST COMMENT: 1st Opening 5 Minutes Good blow built to the bottom of a 5 gallon bucket in 45 seconds
 1st Shut-In 60 Minutes -Strong blow back built to the bottom of a 5 gallon bucket
 2nd Opening 30 Minutes -Strong blow decreased to a weak blow
 2nd Shut-in 60 Minutes Strong blow built to the bottom of the bucket



PRESSURE SUMMARY

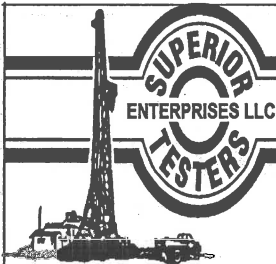
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1807.13	101.32	Initial Hydro-static
1	781.08	105.75	Open To Flow (1)
4	891.59	113.89	Shut-In(1)
67	1263.61	111.69	End Shut-In(1)
68	967.89	111.49	Open To Flow (2)
98	1247.96	114.86	Shut-In(2)
157	1256.13	114.07	End Shut-In(2)
158	1759.27	112.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	800 Feet of Gas in The Pipe	0.00
400.00	Slightly gas cut slightly muddy w water	5.61
2400.00	Slightly Gas cut Water	33.67
0.00	Chlorides 30,000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

21-20s-15w

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mermis "B" OWWO #2-3

Job Ticket: 17080

DST#: 1

ATTN: ryan Greenbaum

Test Start: 2013.05.13 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: **3815.00 ft (KB) To 3825.00 ft (KB) (TVD)**

Reference Elevations: 2004.00 ft (KB)

Total Depth: 3895.00 ft (KB) (TVD)

1996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8419** Outside

Press@RunDepth: 1255.16 psia @ 3824.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.05.13

End Date: 2013.05.13

Last Calib.: 2013.05.14

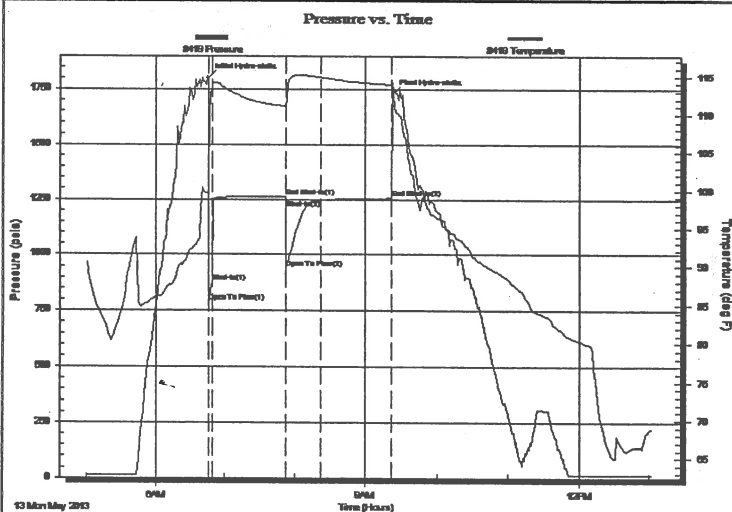
Start Time: 05:00:00

End Time: 13:03:00

Time On Btm: 2013.05.13 @ 06:46:00

Time Off Btm: 2013.05.13 @ 09:23:00

TEST COMMENT: 1st Opening 5 Minutes Good blow built to the bottom of a 5 gallon bucket in 45 seconds
 1st Shut-In 60 Minutes -Strong blow back built to the bottom of a 5 gallon bucket
 2nd Opening 30 Minutes -Strong blow decreased to a weak blow
 2nd Shut-in 60 Minutes Strong blow built to the bottom of the bucket



PRESSURE SUMMARY

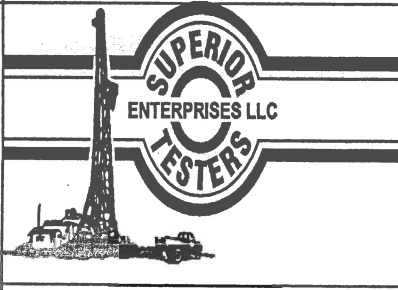
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1798.96	99.52	Initial Hydro-static
1	787.17	101.69	Open To Flow (1)
4	875.77	113.66	Shut-In(1)
67	1262.79	111.13	End Shut-In(1)
67	938.04	110.90	Open To Flow (2)
97	1246.63	114.89	Shut-In(2)
156	1255.16	113.90	End Shut-In(2)
157	1728.03	113.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	800 Feet of Gas in The Pipe	0.00
400.00	Slightly gas cut slightly muddy w ater	5.61
2400.00	Slightly Gas cut Water	33.67
0.00	Chlorides 30,000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.

21-20s-15w

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mermis "B" OWWO #2-3

Job Ticket: 17080

DST#: 1

ATTN: ryan Greenbaum

Test Start: 2013.05.13 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3796.00 ft	Diameter: 3.80 inches	Volume: 53.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 53.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3815.00 ft			Final lb
Depth to Bottom Packer:	3825.00 ft			
Interval between Packers:	10.00 ft			
Tool Length:	108.11 ft			
Number of Packers:	2	Diameter: 6.75 inches		

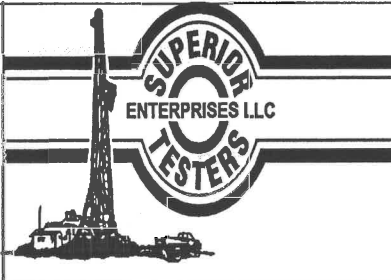
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3792.00	
Shut-In Tool	5.00			3797.00	
Hydroic Tool	5.00			3802.00	
Jars	6.00			3808.00	
Safety Joint	2.00			3810.00	
Packer	5.00			3815.00	24.00 Bottom Of Top Packer
Anchor	7.00			3822.00	
Recorder	1.00	6663	Inside	3823.00	
Recorder	1.00	8419	Outside	3824.00	
Blank Off Sub	1.00			3825.00	10.00 Tool Interval
Packer	5.00			3830.00	
Perforations	6.00			3836.00	
Change Over Sub	0.75			3836.75	
Drill Pipe	31.61			3868.36	
Change Over Sub	0.75			3869.11	
Perforations	26.00			3895.11	
Recorder	1.00	6748	Inside	3896.11	
Bullnose	3.00			3899.11	74.11 Bottom Packers & Anchor

Total Tool Length: 108.11



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: ryan Greenbaum

21-20s-15w
Mermis "B" OWWO #2-3
 Job Ticket: 17080 DST#: 1
 Test Start: 2013.05.13 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 69.00 sec/qt
 Water Loss: 8.79 in³
 Resistivity: ohm.m
 Salinity: 8100.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type:
 Gas Cushion Pressure: psia
 Oil API:
 Water Salinity: ppm
 deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	800 Feet of Gas in The Pipe	0.000
400.00	Slightly gas cut slightly muddy water	5.611
2400.00	Slightly Gas cut Water	33.666
0.00	Chlorides 30,000	0.000

Total Length: 2800.00 ft Total Volume: 39.277 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 6663

Inside: F.G.Holl Company L.L.C.

Norris "B" OWWO #2-3

DST Test Number: 1

