

**ORIGINAL**

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

OPERATOR: License # 5144  
Name: Mull Drilling Company, Inc.  
Address 1: 1700 N. Waterfront Pkwy., Bldg. 1200  
Address 2: \_\_\_\_\_  
City: Wichita State: KS Zip: 67206 + 6 6 3 7  
Contact Person: Steve C. Anderson  
Phone: ( 316 ) 264-6366  
CONTRACTOR: License # \_\_\_\_\_  
Name: \_\_\_\_\_  
Wellsite Geologist: \_\_\_\_\_  
Purchaser: \_\_\_\_\_  
Designate Type of Completion:  
\_\_\_\_ New Well \_\_\_\_ Re-Entry  Workover  
 Oil \_\_\_\_ SWD \_\_\_\_ SLOW  
\_\_\_\_ Gas \_\_\_\_ ENHR \_\_\_\_ SIGW  
\_\_\_\_ CM (Coal Bed Methane) \_\_\_\_ Temp. Abd.  
\_\_\_\_ Dry \_\_\_\_ Other \_\_\_\_\_  
*(Core, WSW, Expl., Cathodic, etc.)*

If Workover/Re-entry: Old Well Info as follows:  
Operator: Mull Drilling Company, Inc.  
Well Name: Tjaden A #3  
Original Comp. Date: 4/1/60 Original Total Depth: 4410  
\_\_\_\_ Deepening  Re-perf. \_\_\_\_ Conv. to Enhr. \_\_\_\_ Conv. to SWD  
\_\_\_\_ Plug Back: \_\_\_\_\_ Plug Back Total Depth  
\_\_\_\_ Commingled Docket No.: \_\_\_\_\_  
\_\_\_\_ Dual Completion Docket No.: \_\_\_\_\_  
\_\_\_\_ Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  
4/6/2010 5/12/10  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 095-10047-00-01  
Spot Description: \_\_\_\_\_  
\_\_\_\_ SE \_\_\_\_ NW \_\_\_\_ NW Sec. 33 Twp. 30 S. R. 8  East  West  
990 Feet from  North /  South Line of Section  
990 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Kingman  
Lease Name: Tjaden A Well #: 3  
Field Name: Spivey-Grabs-Basil  
Producing Formation: Mississippian  
Elevation: Ground: 1643 Kelly Bushing: \_\_\_\_\_  
Total Depth: 4410 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 290 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/ \_\_\_\_\_ <sup>sx.cmt.</sup> wo-Dlg-5/27/10

**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 No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Maureen L. Jermol  
Title: Sr. Eng. & Prod. Technician Date: 5/25/10  
Subscribed and sworn to before me this 25<sup>th</sup> day of May,  
20 10.  
Notary Public: Joann Aguilera  
Date Commission Expires: \_\_\_\_\_

**JOANN AGUILERA**  
Notary Public, State of Kansas  
My Appt. Expires 6-15-14

**KCC Office Use ONLY**

N Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_ **RECEIVED**  
**KANSAS CORPORATION COMMISSION**  
\_\_\_\_ Wireline Log Received  
\_\_\_\_ Geologist Report Received **MAY 26 2010**  
\_\_\_\_ UIC Distribution  
**CONSERVATION DIVISION**  
**WICHITA, KS**

Operator Name: Mull Drilling Company, Inc. Lease Name: Tjaden A Well #: 3  
 Sec. 33 Twp. 30 S. R. 8  East  West County: Kingman

**INSTRUCTIONS:** Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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 <i>(Submit Copy)</i>  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				

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 Depth

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>
	Drilled out CIBP @ 4290'	
2	4321'-4395'	150 sxs cement
		1500 gal 15% NEFE - See attached

TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>4320'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr. <u>5/12/10</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls. <u>0</u> Gas Mcf <u>8</u> Water Bbls. <u>100</u> Gas-Oil Ratio      Gravity <u>32.1°</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# Well History

Date	Type	Activity	Remarks	Cost
05/13/2010	Workover	Frac Cont	0 BO 0 MCF 85 BW Note this well was previously TA'd.	0
05/16/2010	Workover	Frac Cont	05/14/10: 0 BO 8 MCF 82 BW 0# CP 05/15/10: 0 BO 8 MCF 79 BW 0# CP 05/16/10: 0 BO 8 MCF 81 BW 0# CP Note this well was previously TA'd.	0
05/17/2010	Workover	Frac Cont	0 BO 8 MCF 81 BW 0# CP Note this well was previously TA'd.	0
05/18/2010	Workover	Frac Cont	Change sheave from 5" to 7 1/2 " 54"SL X 13 SPM. 0 BO 8 MCF 80 BW 0# CP Note this well was previously TA'd.	0
05/19/2010	Workover	Frac Cont	0 BO 8 MCF 92-BW 0#-CP Note this well was previously TA'd.	0
05/20/2010	Workover	Frac Cont	0 BO 8 MCF 100 BW 0# CP Note this well was previously TA'd. FINAL REPORT	0

Begin Date/Time Between '04/01/2010  
12:00:00AM' AND '05/21/2010 11:59:00PM'  
Morning Report Entity / Name = 'Tjaden A #3'

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<b>Tjaden A #3</b>				
04/06/2010	Workover	WO Cont	MIRU Steve's Well Service DDP. TIH w/3 7/8" rock bit and 135 jts 2 3/8" tbg, tagged CIBP. Pulled one joint. Pratt Well Service setup foam unit and frac tank. SDON.	3,000
04/07/2010	Workover	WO Cont	RU foam unit and power swivels. SD for 15-min safety meeting. Started drilling CIBP, took 1 1/2 hr to get drilled out. TIH to TD @ 4387'. Drilled to 4460'. Drilled at 4460' for 1hr, could not make any hole. Circulated clean, pu six jts. SDON. CC = \$13,000	10,000
04/08/2010	Workover	WO Cont	TOOH w/tbg. Unloaded 4500' 3 1/2" csg. TIH w/2 7/8" float shoe, 50 jts 3 1/2" welded csg (2013'). SDON. CC = \$39,000	26,000
04/09/2010	Workover	WO Cont	TIH w/total 111 jts of 3 1/2" casing welded liner, csg stacked out at 4455'. Pulled up 3' to 4452', orange-peeled 4 1/2" csg to 3 1/2" csg, cut off csg. RDMO pulling unit. RU Basic Energy Service, pumped 40 BW, loaded csg. Started pumping A Con blend cement, pumped 85 sks, flushed w/40 bbl 2% KCl water. Max PSI 500#. Landed plug at 1000#. SI csg, cement did not circulate to surface HU to annulus, pumped 75 sks common cement. MAX PSI 400#. Job done annulus on vac. Released truck @ 9:10 PM. CC = \$49,000	10,000
04/21/2010	Workover	Frac Cont	RU Peak Wireline, ran cement bond log. Perforated 4321' - 4395' 2 SPF. CC = \$56,800	7,800
04/27/2010	Workover	Frac Cont	HU Basic Energy Service, pumped 17 bbl drilling mud down surface pipe 2 BPM @100#, circulated to surface. Shut valve, pumped 8 more bbl 1/2 BPM @ 500#, shut down. Pressure bled down to 300# and held for 15 min. Opened valve to pit, pumped 100 sks cement, cement circulated to surface, shut valve. Pumped 50 sks cement staged in @ 500# to 250# in 5 min. Shut well in @ 500#. Total cement pumped 150 sks. CC = \$61,800	5,000
04/30/2010	Workover	Frac Cont	Nicholas Water Truck Service set six frac tanks and filled w/fresh water. CC = \$74,800	13,000

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05/07/2010	Workover	Frac Cont	<p>RU Basic Energy for 6-tank slick-water frac. Pressure-tested lines to 3245#. Pumped 1500 gal 15% NEFE and started 25,500 gal pad @ 14 BPM increasing to 38 BPM @ 1457#. Finished pad 37.5 BPM @ 1267# w/607 bbl pumped.</p> <p>Started 10,000 gal w/0.1# pg 30/70 sand 37.3 BPM @ 1321# 0.1# sand on bottom 37.3 BPM @ 1314#</p> <p>Started 10,000 gal w/0.2# pg 30/70 sand 37.2 BPM @ 1316# w/846 bbl pumped 0.2# sand on bottom 37.4 BPM @ 1304#</p> <p>Started 10,000 gal w/0.3# pg 30/70 sand 37.2 BPM @ 1293# w/1087 bbl pumped 0.3# sand on bottom 37.1 BPM @ 1280#</p> <p>Started 10,000 gal w/0.4# pg 30/70 sand 37.4 BPM @ 1264# w /1328 bbl pumped 0.4# sand on bottom 37.2 BPM @ 1241#</p> <p>Started 10,000 gal 0.5# pg 30/70 sand 37.4 BPM @ 1227# w/1570 bbl pumped 0.5# sand on bottom 37.4 BPM @ 1223#</p> <p>Started 5,000 gal w/0.6# pg 30/70 sand 37.3 BPM @ 1205# w/1790 bbl pumped 0.6# sand on bottom 37.4 BPM @ 1197#</p> <p>Start 5,000 gal 0.7# pg 30/70 sand 37.3 BPM @ 1178# w/1912 bbl pumped 0.7# sand on bottom 37.3 BPM @ 1182#</p> <p>Started 8,000 gal 0.8# pg 30/70 sand 37.2 BPM @ 1166# w/2034 bbl pumped 0.8# sand on bottom 37.3 BPM @ 1172#</p> <p>Started 8,000 gal 0.9# pg 30/70 sand 37.1 BPM @ 1168# w/2232 bbl pumped 0.9# sand on bottom 37.4 BPM @ 1169#</p> <p>Start 4,000 gal 1# pg 16/30 sand 37.1 BPM @ 1154# w/2430 bbl pumped 1# sand on bottom 37.1 BPM @ 1134#</p> <p>Started 3,000 gal 1.5# pg resin coated 16/30 sand 36.9 BPM @ 1145# w/2530 bbl pumped 1.5# sand on bottom 37.3 BPM @ 971#</p> <p>Started 1,000 gal 2# pg resin coated 16/30 sand 37.3 BPM @ 977# w/2606 bbl. pumped 2# sand on bottom 37.5 BPM @ 1014#</p> <p>2,695 bbl pumped job complete. ISIP VAC. TL = 2,733 bbl. RDMO Basic Energy. CC = \$74,800</p>	37,000
05/10/2010	Workover	Frac Cont	<p>MIRU Steve's Well Service. TIH w/7' sand screen saver MA, SN, 113 jts 2 3/8 tbg. SDON. CC = \$76,300</p>	1,500
05/11/2010	Workover	Frac Cont	<p>TIH w/ran remaining 2 3/8" tbg w/slim hole couplings, rebuilt pump and rods. Loaded tbg. SDON. Will set P.U. 05/12/10. Equipment ran: 137 jts 2 3/8" tbg w/slimhole couplings SN @ 4320' Tagged bottom @ 4385 (67' of frac sand fill) 2" x 1 1/2" X 14' RWBC w/Farr plunger, 6' sand screen GA and 3/4" x 2' rod sub (168) 3/4" rods (78 rods from Ummel #1 on bottom, 80 inspected rods on top) 3/4" x 2', 6', 8' pony rods New 1 1/4" x 16' polished rod w/new 7' brass liner CC = \$92,800</p>	16,500
05/12/2010	Workover	Frac Cont	<p>Set Emsco 114 PU in 54" SL X 8 3/4 SPM. Plumb in wellhead. POP 11:00 AM. CC = \$94600</p>	1,800

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