



KANSAS CORPORATION COMMISSION 1069998
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5386
Name: Production Drilling, Inc.
Address 1: 1023 RESERVATION RD
Address 2: _____
City: HAYS State: KS Zip: 67601 + 3982
Contact Person: greg lambrecht
Phone: (785) 625-1189
CONTRACTOR: License # 5386
Name: Production Drilling, Inc.
Wellsite Geologist: Cliff Ottway
Purchaser: Coffleville

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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

10/27/2011	11/04/2011	11/15/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26203-00-00
Spot Description: 163'N & 13' E OF
NE SW SW SW Sec. 1 Twp. 13 S. R. 18 East West
493 Feet from North / South Line of Section
343 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ellis
Lease Name: CRISSMAN Well #: 4
Field Name: _____
Producing Formation: Arb.- LKC
Elevation: Ground: 2105 Kelly Bushing: 2117
Total Depth: 3695 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 222 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1318 Feet
If Alternate II completion, cement circulated from: 1318
feet depth to: 0 w/ 250 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 16000 ppm Fluid volume: 320 bbls
Dewatering method used: Evaporated
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

- Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Gertler Date: 12/15/2011

Form	ACO1 - Well Completion
Operator	Production Drilling, Inc.
Well Name	CRISSMAN 4
Doc ID	1069998

All Electric Logs Run

Dual induction log
radiation guard log
compensated density neutron log
cement bond log

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5025

Date <u>10-19-11</u>	Sec. <u>1</u>	Twp. <u>13</u>	Range <u>18</u>	County <u>Ellis</u>	State <u>Ks</u>	On Location	Finish <u>10:15 PM</u>
Lease <u>Cassman</u>	Well No. <u>4</u>			Location <u>Hwy 2N 24E</u>			
Contractor <u>Discovery Drilling Rig</u>				Owner			
Type Job <u>Surface</u>				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.			
Hole Size <u>12 1/4</u>	T.D. <u>221</u>			Charge To <u>Production Drilling</u>			
Csg. <u>8 3/8 23lb</u>	Depth <u>221</u>			Street			
Tbg. Size	Depth			City			
Tool	Depth			State			
Cement Left in Csg. <u>10-15</u>	Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace <u>134 Bbl</u>			Cement Amount Ordered <u>150 382</u>			

EQUIPMENT

Pumptrk <u>5</u>	No.	Cementer <u>Step</u>	Common <u>150</u>
Bulktrk <u>8</u>	No.	Helper <u>Chris</u>	Poz. Mix
Bulktrk	No.	Driver <u>Travis</u>	Gel. <u>3</u>
		Driver <u>Dylan</u>	Calcium <u>5</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <u>158</u>
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU/Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge Surface
Mileage 4

<p style="font-size: 2em; opacity: 0.5; text-align: center;">Quality Oilwell Cementing</p> <p><i>[Signature]</i></p> <p>X Signature</p>	<p style="text-align: right;">Tax</p> <p style="text-align: right;">Discount</p> <p style="text-align: right;">Total Charge</p>
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QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 102

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-27-11	1	13	18	Ellis	Kansas		12:15pm
Lease <i>Crisman</i>	Well No. <i>4</i>		Location <i>T-70 9 (Crisman) Pkwy 3 1/4 E N 30</i>				
Contractor <i>Discovery Drilling Rig 1</i>				Owner			
Type Job <i>DV Tool Top</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.			
Hole Size <i>7 7/8</i>	T.D. <i>3695</i>		Charge To <i>Production Drilling</i>				
Csg. <i>5 1/2 15.5DB</i>	Depth <i>3694</i>		Street				
Tbg. Size	Depth		City				
Tool <i>DV Tool</i>	Depth <i>1322</i>		State				
Cement Left in Csg.	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <i>31.5 BBL</i>		Cement Amount Ordered <i>250 Q MIX 3/4 Fl-Sand</i>				
EQUIPMENT				<i>Used 210</i>			
Pumptrk <i>5</i>	No.	Cementor	Common <i>210 Q MIX</i>				
		Helper <i>Steve</i>					
Bulktrk <i>10</i>	No.	Driver <i>Dave</i>	Poz. Mix				
		Driver <i>Michael</i>	Gel.				
JOB SERVICES & REMARKS				Calcium			
Remarks:				Hulls			
Rat Hole <i>30sv</i>				Salt			
Mouse Hole <i>22</i>				Flowseal <i>62#</i>			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
DV or Port Collar <i>1322</i>				CFL-117 or CD110 CAF 38			
<i>Can top 9 hours circulation</i>				Sand			
<i>30sv Rat Hole</i>				Handling <i>250</i>			
<i>Mouse Hole</i>				Mileage			
FLOAT EQUIPMENT							
<i>Mix 210 sv Release plug</i>				Guide Shoe			
<i>Land plug @ 1500 psi 1 close Tool</i>				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
Quality Oilwell Cementing							
<i>[Signature]</i>				Pumptrk Charge <i>4</i>			
<i>[Signature]</i>				Mileage <i>prod long distance</i>			
				Tax			
				Discount			

Top

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 101

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-27-11	1	13	18	Ellis	Kansas		10:45 am
Lease <i>Cissman</i>	Well No. <i>4</i>		Location <i>T-70 & Commercial Hwy 3N 1E 18W</i>				
Contractor <i>Discovery Drilling Rig</i>				Owner			
Type Job <i>D.V. Bottom</i>				To Quality Oilwell Cementing, Inc.			
Hole Size <i>7 7/8</i>				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg. <i>5 1/2 15.50h</i>		T.D. <i>3695</i>		Charge To <i>Production Drilling</i>			
Tbg. Size		Depth		Street			
Tool <i>D.V. #56</i>		Depth <i>1320</i>		City		State	
Cement Left in Csg. <i>2.3'</i>		Shoe Joint <i>23'</i>		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <i>87 1/2 Bl</i>		Cement Amount Ordered <i>150 Common 10% Salt</i>			
EQUIPMENT				500 Gal Mud Clean <i>10 Bl RCL</i>			
Pumptrk <i>5</i>	No.	Cement Helper <i>Steve</i>		Common <i>150</i>			
Bulktrk <i>8</i>	No.	Driver <i>Dave</i>		Poz. Mix			
Bulktrk	No.	Driver <i>Dave</i>		Gel.			
JOB SERVICES & REMARKS				Calcium			
Remarks:				Hulls			
Rat Hole				Salt <i>13</i>			
Mouse Hole				Flowseal			
Centralizers <i>1 3 5 7 9 11 13 15 56</i>				Kpl Seal <i>RCL 16 gal</i>			
Baskets <i>2 12 56</i>				Mud CLR 48 <i>500</i>			
DN or Port Collar <i>1320, Sht y. above 56</i>				CFL-117 or CD110 CAF-38			
<i>Mix 150 sk Release Plug</i>				Sand			
<i>Displace 45 Bl H-2 followed by</i>				Handling <i>163</i>			
<i>20 Bl Mud from flash w/ H-2</i>				Mileage			
FLOAT EQUIPMENT							
<i>Land Plug @ 1200 ft</i>				Guide Shoe <i>100 1/2 screws</i>			
<i>Float Head</i>				Centralizer <i>9 Turns</i>			
				Baskets <i>3</i>			
Quality Oilwell				AFU Inserts			
Cementing				Float Shoe			
				Latch Down			
<i>D.V. Tool w/ Latch Down Plug</i>							
<i>Handwritten Signature</i>				Pumptrk Charge <i>9</i>			
				Mileage <i>prod Long String stage</i>			
				Tax			
				Discount			

Bottom



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Production Drilling
1023 Reservation Road
Hays, KS 67601
ATTN: Marty Patterson

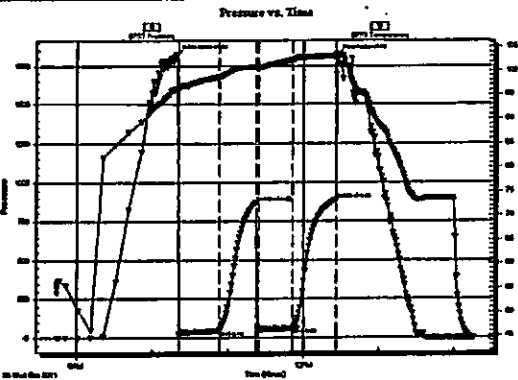
1-13s 18w Ellis, KS
Chrissman #4
Job Ticket: 44837 DST#: 2
Test Start: 2011.10.26 @ 08:44:19

GENERAL INFORMATION:

Formation: Arbuckle
Deviated: No Whipstock ft (KB)
Time Tool Opened: 10:20:49
Time Test Ended: 14:16:19
Test Type: Conventional Bottom Hole (Initial)
Tester: Paul Simpson
Unit No: 47
Interval: 3620.00 ft (KB) To 3648.00 ft (KB) (TVD)
Reference Elevations: 2117.00 ft (KB)
Total Depth: 3648.00 ft (KB) (TVD) 2109.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6763 Outside
Press@RunDepth: 62.00 psig @ 3623.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.26 End Date: 2011.10.26 Last Calc.: 1899.12.30
Start Time: 08:44:24 End Time: 14:16:18 Time On Btm: 2011.10.26 @ 10:19:49
Time Off Btm: 2011.10.26 @ 12:27:19

TEST COMMENT: IF - 3/4" blow building to 9"
ISI - surface died
FF - 1/2" blow building to 7 1/2" blow
FSI - surface blow died in 2 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.70	98.33	Initial Hydro-static
1	22.94	95.98	Open To Flow (1)
33	44.56	98.71	Shut-In(1)
63	870.04	100.83	End Shut-In(1)
65	50.35	100.47	Open To Flow (2)
92	62.00	102.22	Shut-In(2)
127	891.87	103.10	End Shut-In(2)
128	1815.43	103.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud cut oil 60%oil 40% mud	0.15
100.00	clean oil	1.39

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mscf/d)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

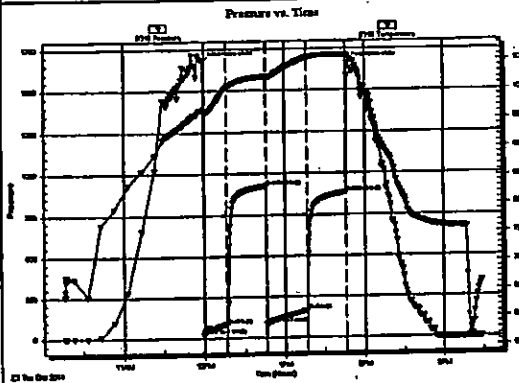
Production Drilling: 1-13s 18w Ellis, KS
 Chrissman #4
 1023 Reservation Road, Hays, KS 67601
 Job Ticket: 44836 DST#: 1
 ATTN: Marty Patterson
 Test Start: 2011.10.25 @ 10:16:06

GENERAL INFORMATION:

Formation: Lansing C-D
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:59:06
 Tester: Paul Simpson
 Time Test Ended: 15:29:06
 Unit No: 47
 Interval: 3410.00 ft (KB) To 3450.00 ft (KB) (TVD)
 Reference Elevations: 2117.00 ft (KB)
 Total Depth: 3450.00 ft (KB) (TVD)
 2109.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CP: 8.00 ft

Serial #: 8319 Outside
 Capacity: 8000.00 psig
 Press @ Run Depth: 164.37 psig @ 3411.00 ft (KB)
 Last Calc: 1899.12.30
 Start Date: 2011.10.25 End Date: 2011.10.25
 Time On Btm: 2011.10.25 @ 11:58:36
 Start Time: 10:16:11 End Time: 15:29:06
 Time Off Btm: 2011.10.25 @ 13:47:06

TEST COMMENT: IF- strong bottom of bucket in 2 minutes
 IS- blow built to 4"
 FF- strong blow bottom of bucket in 3 minutes
 FS- bottom of bucket in 7 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.15	96.47	Initial Hydro-static
1	19.36	96.07	Open To Flow (1)
18	81.85	100.57	Shut-in (1)
47	923.66	102.32	End Shut-in (1)
48	86.89	102.14	Open To Flow (2)
78	164.37	105.58	Shut-in (2)
107	883.19	106.02	End Shut-in (2)
109	1659.35	105.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
60.00	sl oil & MCW 3%o 92%w 5%r	0.56
120.00	gsy slw & mco 10%g 80%o 5%w 5%r	1.66
200.00	gsy oil 20%g 80%p	2.81
0.00	2270 gas in pipe	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)