



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1174358  
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: \_\_\_\_\_

1174358

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Black Dahlia Oil & Gas Co.
Well Name	Bitter 1
Doc ID	1174358

Tops

Name	Top	Datum
Anhydrite	859	+1053
Topeka	2770	-858
Heebner	3040	-1129
Toronto	3058	-1146
Brown Lime	3122	-1210
Lansing	3130	-1218
Arbuckle	3378	-1465
T.D.	3392	-1479



## DRILL STEM TEST REPORT

Black Dahlia Oil and Gas Company

10/16S/13W/Barton

22120 Golf Club Drive  
Sun City West, Arizona  
85375+2078  
ATTN: W.C. Hafeman

Bitter #1

Job Ticket: 17058      DST#: 1  
Test Start: 2013.10.29 @ 22:10:00

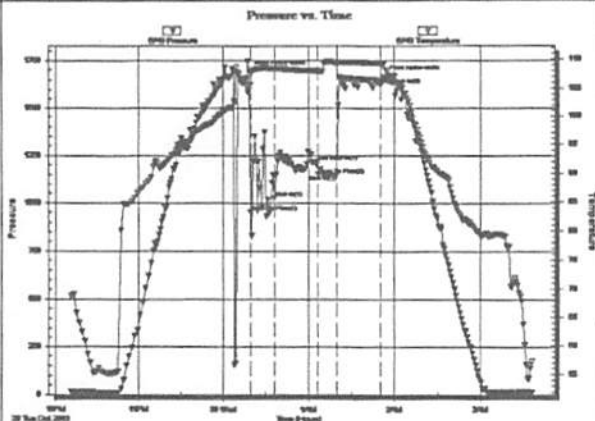
### GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 00:19:30  
Time Test Ended: 03:37:00  
Interval: **3368.00 ft (KB) To 3390.00 ft (KB) (TVD)**  
Total Depth: **3390.00 ft (KB) (TVD)**  
Hole Diameter: **7.80 inches** Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: 3325 Great Bend/43  
Reference Elevations: 1912.00 ft (KB)  
1900.00 ft (CF)  
KB to GR/CF: 12.00 ft

### Serial #: 6749

Press@RunDepth: 1151.14 psia @                      ft (KB)      Capacity: 5000.00 psia  
Start Date: 2013.10.29      End Date: 2013.10.30      Last Calib.: 2013.10.30  
Start Time: 22:11:00      End Time: 03:37:00      Time On Btm: 2013.10.30 @ 00:18:30  
Time Off Btm: 2013.10.30 @ 01:52:30

TEST COMMENT: 1ST Open      17 Minutes/Tool slide 4 feet/Blow at 3 inches after slide stop/Off and On surging  
1ST Shut In      30 Minutes/No blow back  
2ND Open      15 Minutes/No blow/Flush tool/Blow to 1/2 inch then stopped building/2ND flush/Off and on surge  
2ND Shut In      30 Minutes/No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1690.08	104.53	Initial Hydro-static
1	950.94	105.52	Open To Flow (1)
18	1026.28	108.23	Shut-In(1)
48	1218.48	107.87	End Shut-In(1)
48	1151.62	107.84	Open To Flow (2)
61	1151.14	109.30	Shut-In(2)
92	1621.96	109.20	End Shut-In(2)
94	1663.63	109.18	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
105.00	Mud with show of oil/Mud 100%	1.47

### Gas Rates

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



# DRILL STEM TEST REPORT

Black Dahlia Oil and Gas Company  
 10/16S/13W/Barton  
 22120 Golf Club Drive  
 Sun City West, Arizona  
 85375+2078  
 ATTN: W.C. Hafeman

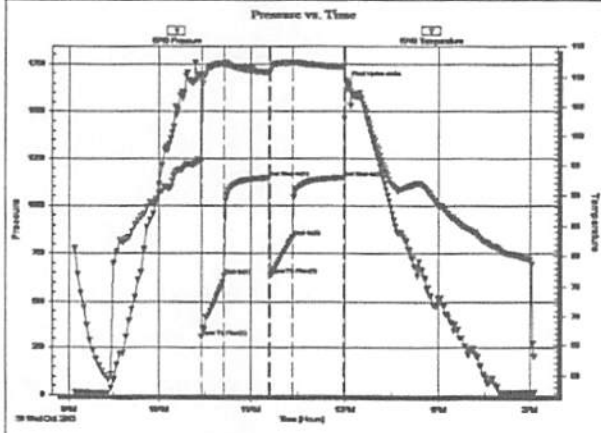
**Bitter #1**  
 Job Ticket: 17059      DST#: 2  
 Test Start: 2013.10.30 @ 09:03:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 10:27:30  
 Time Test Ended: 14:02:30  
 Interval: **3365.00 ft (KB) To 3390.00 ft (KB) (TVD)**  
 Total Depth: **3390.00 ft (KB) (TVD)**  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend/43  
 Reference Elevations: 1912.00 ft (KB)  
 1900.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 6749**      Inside  
 Press@RunDepth: 836.66 psia @ 3386.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.10.30      End Date: 2013.10.30      Last Calib.: 2013.10.30  
 Start Time: 09:04:00      End Time: 14:02:30      Time On Btm: 2013.10.30 @ 10:27:00  
 Time Off Btm: 2013.10.30 @ 12:00:30

**TEST COMMENT:** 1ST Open      15 Minutes/Strong blow/Blow built to bottom of bucket in 1 minutes  
 1ST Shut In      30 Minutes/Very slight surface blow back  
 2ND Open      15 Minutes/Strong blow/Blow built to bottom of bucket in 1 minute 15 seconds  
 2ND Shut In      30 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1694.84	95.91	Initial Hydro-static
1	307.25	95.88	Open To Flow (1)
16	631.64	112.28	Shut-in(1)
45	1145.07	110.74	End Shut-in(1)
46	637.83	110.93	Open To Flow (2)
60	836.66	112.37	Shut-in(2)
92	1145.73	111.73	End Shut-in(2)
94	1648.72	109.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1721.00	Slightly oil cut Muddy Water	24.14
0.00	Oil 1% Mud 10% Water 89%	0.00

## Gas Rates

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

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7555

Date	10-26-13	Sec.	10	Twp.	16	Range	13	County	Barton	State	Ks	On Location	8:00 AM	Finish	9:45 AM
Lease								Well No.		Owner					
Bitter								1		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.					
Contractor								#70		Type Job					
Southwind										Surface					
Hole Size		12 1/4"		T.D.		479'		Charge To		Black Dahlia					
Csg.		8 5/8"		Depth		479'		Street							
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor							
Cement Left in Csg.		15'		Shoe Joint		15'		Cement Amount Ordered							
Meas Line		Displace		29 1/2 BLS		2% Gel		225 5X Common 3% CC							
<b>EQUIPMENT</b>								Common							
Pumptrk		16 No.		Cementor		Billy		225							
Bulktrk		1 No.		Helper		David		Poz. Mix							
Bulktrk		P.U. No.		Driver		Rick		Gel. 4							
				Driver				Calcium 8							
<b>JOB SERVICES &amp; REMARKS</b>								Hulls							
Remarks:		Cement did		Circulate				Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling 237							
								Mileage							
<b>FLOAT EQUIPMENT</b>															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								1 - Double cup plug							
								Pumptrk Charge							
								Surface							
								Mileage 29 22							
Signature		[Signature]						Tax							
								Discount							
								Total Charge							

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7228

Date <b>10-31-13</b>	Sec. <b>10</b>	Twp. <b>16</b>	Range <b>13</b>	County <b>Barton</b>	State <b>KS</b>	On Location	Finish <b>2:45 AM</b>
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Location **Susank 2M**

Lease <b>Bitter</b>	Well No. <b>1</b>	Owner 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.
Contractor <b>Southwend #70</b>		Charge To <b>Black Dahlia Oil &amp; Gas</b>
Type Job <b>Plug</b>	T.D.	
Hole Size <b>7 7/8</b>	Depth	Street
Csg.	Depth	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <b>205 sx 6 3/4 4% gel</b>

Meas Line	Displace	Common <b>123</b>
<b>EQUIPMENT</b>		
Pumptrk <b>16</b>	No. Cementer/Helper <b>Billy</b>	Poz. Mix <b>82</b>
Bulktrk <b>9</b>	No. Driver <b>Lonnle M.</b>	Gel. <b>7</b>
Bulktrk <b>P4</b>	No. Driver <b>Travis</b>	Calcium

<b>JOB SERVICES &amp; REMARKS</b>	Hulls
Remarks:	Salt
Rat Hole	Flowseal <b>53 #</b>
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand <b>0</b>
<b>50 sx at 3377</b>	Handling <b>212</b>
<b>25 sx at 860</b>	Mileage
<b>90 sx at 520</b>	
<b>10 sx at 40 with Plug</b>	
<b>30 sx Rat hole</b>	

	<b>FLOAT EQUIPMENT</b>
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<b>1 wood Plug</b>
	Pumptrk Charge <b>plug</b>
	Mileage <b>22</b>

	Tax	
	Discount	
X Signature <b>Jan [Signature]</b>	Total Charge	