



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1255536
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
-----------------------------------	-----------------	---

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: _____



1255536

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
--	---

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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	H & B Petroleum Corp.
Well Name	Crane 1
Doc ID	1255536

All Electric Logs Run

Dual Compensated Porosity
Microresistivity
Dual Induction
Sonic Cement Bond Log

Form	ACO1 - Well Completion
Operator	H & B Petroleum Corp.
Well Name	Crane 1
Doc ID	1255536

Tops

Name	Top	Datum
Anhydrate	911	
Heebner	3341	
Douglas	3374	
Brown Lime	3451	
Lansing	3459	
Base Kansas City	3686	
Conglomerate	3754	
Viola	3770	
Simpson	3808	
Lower Simpson	3856	
Arbuckle	3859	

GLOBAL CEMENTING, L.L.C.

1612

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: RUSSELL, KS

DATE <u>2-23-2015</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Case</u>	WELL #. <u>1</u>	LOCATION			COUNTY <u>PAWNEE</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Southwind Drilling Rig #3

TYPE OF JOB _____

HOLE SIZE 7 7/8 T.D. _____

CASING SIZE 5 1/2 DEPTH 3901

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 4

CEMENT LEFT IN CSG. 11

PERFS _____

DISPLACEMENT 94.75 BR

OWNER _____

CEMENT AMOUNT ORDERED 2005Y CUM

10% SALT 2% GEL 2% PLSMIX

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER BRAD / HELPER

P1 HELPER BRAD

BULK TRUCK DRIVER JASON

B4 DRIVER _____

BULK TRUCK DRIVER _____

_____ DRIVER _____

REMARKS:

RUN FROM 5000 - 4000 IN 94 5/8 5/8 CASING -
MAKING DRILL PIPE - PUT ON 11' 10" AND HOSE
UP TO 1100 - CIRCULATE FOR 1 HR. - MIX
200 SY WASH UP AND PUMP PLUS W/ 94.75
BR 1100 - 1000 PLUS W/ 1500 PSI - RIG DOWN

CHARGE TO: H B Petroleum

STREET _____

CITY _____ STATE _____ ZIP _____

Global Cementing, L.L.C.,
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME M W Hammer

SIGNATURE M W Hammer

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
CRN1DST1

Company H & B Petroleum Corporation Lease & Well No. Crane No. 1
Elevation 1959 GL Formation Lansing/Kansas City "H-K" Effective Pay Ft. Ticket No. M752
Date 2-21-15 Sec. 36 Twp. 21S Range 15W County Pawnee State Kansas
Test Approved By James C. Musgrove Diamond Representative Mike Cochran

Formation Test No. 1 Interval Tested from 3,570 ft. to 3,667 ft. Total Depth 3,667 ft.
Packer Depth 3,565 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,570 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,559 ft. Recorder Number 5448 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,572 ft. Recorder Number 0063 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 3 Drill Collar Length ft I.D. in.
Mud Type Chemical Viscosity 60 Weight Pipe Length ft I.D. in.
Weight 9.3 Water Loss 8.0 cc. Drill Pipe Length 3,545 ft I.D. 3 1/2 in.
Chlorides 4,000 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 34' perf. w/63' drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, surface blow increasing to 5 1/2 ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to 4 ins. No blow back during shut-in.

Recovered 45 ft. of slightly oil specked, muddy water = .640350 bbls. (Grind out: 52%-water; 48%-mud w/a few spots of oil)
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks Tool Sample Grind Out: 63%-water; 37%-mud w/a few spots of oil & a slight odor (Chlorides: 32,000 Ppm PH: 7.0 RW: .32 @ 48°)

Time Set Packer(s) 6:15 P.M. Time Started off Bottom 9:00 P.M. Maximum Temperature 104°
Initial Hydrostatic Pressure.....(A) 1717 P.S.I.
Initial Flow Period.....Minutes 30 (B) 11 P.S.I. to (C) 36 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 807 P.S.I.
Final Flow Period.....Minutes 45 (E) 39 P.S.I. to (F) 63 P.S.I.
Final Closed In Period.....Minutes 60 (G) 809 P.S.I.
Final Hydrostatic Pressure.....(H) 1711 P.S.I.



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
CRN1DST2

Company H & B Petroleum Corporation Lease & Well No. Crane No. 1
Elevation 1959 GL Formation Conglomerate/Viola Effective Pay Ft. Ticket No. M753
Date 2-22-15 Sec. 36 Twp. 21S Range 15W County Pawnee State Kansas
Test Approved By James C. Musgrove Diamond Representative Mike Cochran

Formation Test No. 2 Interval Tested from 3,714 ft. to 3,810 ft. Total Depth 3,810 ft.
Packer Depth 3,709 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,714 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,703 ft. Recorder Number 5448 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,716 ft. Recorder Number 0063 Cap. 5,000 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Southwind Drilling, Inc. - Rig 3 Drill Collar Length ft. I.D. in.
Mud Type Chemical Viscosity 65 Weight Pipe Length ft. I.D. in.
Weight 9.3 Water Loss 8.2 cc. Drill Pipe Length 3,689 ft. I.D. 3 1/2 in.
Chlorides 5,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 33' perf. w/63' drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, surface blow increasing to 2 1/2 ins. No blow back during shut-in.

2nd Open: Weak, surface blow increasing to 2 1/2 ins. No blow back during shut-in.

Recovered 25 ft. of oil specked mud = .355750 bbls. (Grind out: 4%-oil; 96%-mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 14%-oil; 86%-mud

Time Set Packer(s) 4:00 P.M. Time Started off Bottom 6:45 P.M. Maximum Temperature 99°
Initial Hydrostatic Pressure.....(A) 1795 P.S.I.
Initial Flow Period.....Minutes 30 (B) 13 P.S.I. to (C) 18 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 51 P.S.I.
Final Flow Period.....Minutes 45 (E) 17 P.S.I. to (F) 22 P.S.I.
Final Closed In Period.....Minutes 60 (G) 94 P.S.I.
Final Hydrostatic Pressure.....(H) 1751 P.S.I.