Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1242667

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 # | API No. 15 - |
|--|---|
| Name: | Spot Description: |
| Address 1: | SecTwpS. R 🔲 East 🗌 West |
| Address 2: | Feet from North / South Line of Section |
| City: State: Zip:+ | Feet from _ East / _ West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | □NE □NW □SE □SW |
| CONTRACTOR: License # | GPS Location: Lat:, Long: |
| Name: | (e.g. xx.xxxxx) (e.gxxx.xxxxx) |
| Wellsite Geologist: | Datum: NAD27 NAD83 WGS84 |
| Purchaser: | County: |
| Designate Type of Completion: | Lease Name: Well #: |
| ☐ New Well ☐ Re-Entry ☐ Workover | Field Name: |
| □ Oil □ WSW □ 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: □ Well Name: | Producing Formation: Elevation: Ground: Kelly Bushing: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt. |
| Original Comp. Date: Original Total Depth: | |
| □ Deepening □ Re-perf. □ Conv. to ENHR □ Conv. to SWD □ Plug Back □ Conv. to GSW □ Conv. to Producer | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) |
| □ Commingled Permit #: | Chloride content:ppm Fluid volume:bbls Dewatering method used: Location of fluid disposal if hauled offsite: |
| ☐ ENHR Permit #: ☐ GSW Permit #: | Operator Name: Lease Name: License #: |
| Spud Date or Date Reached TD Completion Date or Recompletion Date | 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 III Approved by: Date: |

| 1242667 | |
|---------|--|

| Operator Name: | | | | Lease I | Name: _ | | | Well #: | |
|--|--|-------------|--|---------------------------|------------------------|-----------------------------------|--|--|-------------------------------|
| Sec Twp | S. R | East | West | County | : | | | | |
| instructions: Sho open and closed, flowi and flow rates if gas to | ng and shut-in pressu surface test, along w | res, whe | ther shut-in pre hart(s). Attach | essure reac extra shee | hed stati t if more | c level, hydrost space is need | atic pressures, b ed. | ottom hole tempe | erature, fluid recovery, |
| Final Radioactivity Log files must be submitted | - | | | | | gs must be em | ialled to kcc-well- | logs@kcc.ks.gov | v. Digital electronic lo |
| Drill Stem Tests Taken (Attach Additional S | heets) | Ye | es No | | | | ion (Top), Depth | | Sample |
| Samples Sent to Geole | ogical Survey | Ye | es No | | Nam | е | | Тор | Datum |
| Cores Taken Electric Log Run | | ☐ Y€ | | | | | | | |
| List All E. Logs Run: | | | | | | | | | |
| | | Repo | CASING | RECORD | Ne | | ction, etc. | | |
| Purpose of String | Size Hole Drilled | Siz | e Casing (In O.D.) | Weig | ght | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | | | |
| | | | ADDITIONAL | . CEMENTII | NG / SQL | EEZE RECORI | | | |
| Purpose: Perforate Protect Casing | Depth Top Bottom | Туре | of Cement | # Sacks | Used | | Type and | Percent Additives | |
| Plug Back TD Plug Off Zone | | | | | | | | | |
| Did you perform a hydraul Does the volume of the to Was the hydraulic fracturi | tal base fluid of the hydra | ulic fractu | ıring treatment ex | | • | Yes Yes Yes Yes | No (If No, s | skip questions 2 an skip question 3) fill out Page Three | , |
| Shots Per Foot | | | ID - Bridge Plug Each Interval Perf | | | | acture, Shot, Ceme Amount and Kind of I | | d Depth |
| | | | | | | | | | |
| | | | | | | | | | |
| TUBING RECORD: | Size: | Set At: | | Packer A | t: | Liner Run: | Yes N | lo | <u> </u> |
| Date of First, Resumed F | Production, SWD or ENH | R. | Producing Meth | nod: | g 🗌 | Gas Lift | Other (Explain) | | |
| Estimated Production Per 24 Hours | Oil B | bls. | Gas | Mcf | Wate | er | Bbls. | Gas-Oil Ratio | Gravity |
| DISPOSITIC Vented Sold (If vented, Sub. | Used on Lease | | Monther Monthe | /IETHOD OF | _ | Comp. Co | ommingled bmit ACO-4) | PRODUCTIO | ON INTERVAL: |

| Form | ACO1 - Well Completion |
|-----------|------------------------|
| Operator | HB Energy LLC |
| Well Name | Barthol HB I-2 |
| Doc ID | 1242667 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | | Setting Depth | Type Of Cement | | Type and Percent Additives |
|----------------------|----------------------|-----------------------|----|------------------|-------------------|-----|----------------------------|
| Surface | 9.8750 | 8 | 10 | 20 | Portland | 8 | 50/50 POZ |
| Production | 5.250 | 2.8750 | 8 | 761 | Portland | 105 | 50/50 POZ |
| | | | | | | | |
| | | | | | | | |



Fueling Ame**rwelf Lag**rity™

HB Energy, LLC Barthol HB I-2 Sec. 12, T16S, R21E 1135 FSL, 3545 FEL Miami Co., KS API: 15-121-30870 12/04/14

Oil and Gas Well Drilling

3137 Virginia Rd, Wellsville KS 66092 Owners: Clay Hughes Isaac Burbank

Phone: (785) 979-9493

(913) 963-9127

Fax: (785) 883-2305

| Thickness of Strat | a Formation | <u>Total</u> | |
|--------------------|-------------|--------------|------|
| 10 | Soil & clay | 10 | |
| 2 | Broken lime | 12 | |
| 14 | Lime | 26 | |
| 9 | Shale | 35 | |
| 11 | Lime | 46 | |
| 2 | Shale | 48 | |
| 1 | Lime | 49 | |
| 3 | Shale | 52 | |
| 19 | Lime | 71 | |
| 15 | Shale | 86 | |
| 11 | Sand | 97 | Gray |
| 4 | Shale | 101 | |
| 15 | Lime | 116 | |
| 1 | Shale | 117 | |
| 1 | Lime | 118 | |
| 9 | Shale | 127 | |
| 2 | Lime | 129 | |
| 10 | Shale | 139 | |
| 4 | Sand | 143 | Gray |
| 66 | Shale | 209 | |
| 16 | Lime | 225 | |
| 1 | Shale | 226 | |
| 2 | Lime | 228 | |
| 28 | Shale | 256 | |
| 6 | Lime | 262 | |
| 45 | Shale | 307 | |
| 1 | Lime | 308 | |
| 16 | Shale | 324 | |
| 7 | Lime | 331 | |
| 5 | Shale | 336 | |
| 3 | Lime | 339 | |
| 2 | Shale | 341 | |
| | | | |

| Lime | 360 | |
|-------------|--|---|
| Shale | 384 | |
| Lime | 396 | |
| Shale | 403 | |
| Lime | 404 | |
| Shale | 553 | |
| Sand | 563 | Hard & green, makes water, no oil |
| Lime | 569 | |
| Shale | 593 | |
| Coal | 594 | |
| Shale | 622 | |
| Lime | 627 | |
| Shale | 633 | |
| Lime | 643 | |
| Shale | 648 | |
| Lime | 649 | |
| Shale | 659 | |
| Lime | 660 | |
| Shale | 668 | |
| Lime | 669 | |
| Shale | 675 | |
| Silty shale | 676 | |
| Broken sand | 677 | 30% brown sand, 70% shale, light |
| | | bleed, gassy |
| Broken sand | 679 | 50% brown sand, 50% shale ok bleed, |
| | | gassy |
| Oil sand | 680 | Brown sand, good bleed, few thin shale |
| | | seems, gassy |
| Broken sand | 681 | 30% brown sand, 70% shale, ok bleed, |
| | | gassy |
| Broken sand | 682 | 70% brown sand, 30% shale, good |
| | | bleed |
| Oil sand | 690 | Brown sand, good bleed, gassy, thin |
| | | shale seems |
| Broken sand | 692 | 50% brown sand, 50% shale ok bleed |
| Broken sand | 694 | 15% brown sand, 85% shale, light bleed |
| Silty shale | 700 | |
| Shale | 771 | TD |
| | Shale Lime Shale Lime Shale Sand Lime Shale Coal Shale Lime Shale Lime Shale Lime Shale Lime Shale Lime Shale Shale Shale Lime Shale Shale Shale Shale Lime Shale Shale Silty shale Broken sand Broken sand Broken sand Broken sand Broken sand Silty shale | Shale 384 Lime 396 Shale 403 Lime 404 Shale 553 Sand 563 Lime 569 Shale 593 Coal 594 Shale 622 Lime 627 Shale 633 Lime 643 Shale 648 Lime 649 Shale 659 Lime 660 Shale 675 Silty shale 676 Broken sand 677 Broken sand 680 Broken sand 681 Broken sand 682 Oil sand 690 Broken sand 692 Broken sand 694 Silty shale 700 |



Invoice # 802618

TICKET NUMBER 50730 LOCATION O+tawa K& FOREMAN Fred YMadur

FIELD TICKET & TREATMENT REPORT

| | | | _ | | | | | COLINITY |
|--|--|---|---|--|------------------|--------------|---|--|
| 1-9210 or 8 | ute, KS 66720 300-467-8676 | | | EMENT SECTION | N TOW | NSHIP | RANGE | COUNTY |
| ATE C | USTOMER# | | NAME & NUMBER | | | 16 | 51 | MI |
| 4.14 3 | 3645 | Barth | O # I. | | A 100 March 1987 |) (ag til te | TRUCK# | DRIVER |
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