

| Co | onfiden | tialit | ty Requested: |
|----|---------|--------|---------------|
| | Yes | 1 | No |

Kansas Corporation Commission Oil & Gas Conservation Division

1189696

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.xxxxxx) (e.gxxx.xxxxxx) |
| Wellsite Geologist: | Datum: NAD27 NAD83 WGS84 |
| Purchaser: | County: |
| Designate Type of Completion: | Lease Name: Well #: |
| New Well Re-Entry Workover | Field Name: |
| □ Oil □ WSW □ SHOW □ 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: | Producing Formation: Elevation: Ground: Kelly Bushing: Feet Total Vertical Depth: Plug Back Total Depth: 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: |
| GSW Permit #: | Cuerter See Two S R Total West |
| Spud Date or Date Reached TD Completion Date or Recompletion Date | QuarterSec. TwpS. 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: | | | | | | | | |

Page Two



| Operator Name: | | | L | ease Name: _ | | | Well #: | |
|--|---------------------------|---|-----------------------|----------------------|---------------------|-----------------------|------------------|-------------------------------|
| Sec Twp | S. R | East We | est C | County: | | | | |
| INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to | ring and shut-in pres | sures, whether sh | ut-in pressur | e reached stati | c level, hydrosta | tic pressures, bott | | |
| Final Radioactivity Lo files must be submitted | | | | | gs must be ema | iled to kcc-well-log | gs@kcc.ks.go | . Digital electronic log |
| Drill Stem Tests Taker (Attach Additional | | Yes | No | L | | n (Top), Depth an | | Sample |
| Samples Sent to Geo | logical Survey | Yes | No | Nam | e | | Тор | Datum |
| Cores Taken Electric Log Run | | Yes Yes | No No | | | | | |
| List All E. Logs Run: | | | | | | | | |
| | | (| CASING REC | ORD Ne | w Used | | | |
| | | · · | | ıctor, surface, inte | ermediate, producti | | T | |
| Purpose of String | Size Hole Drilled | Size Casin Set (In O.D | | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | ADD | ITIONAL CEN | MENTING / SQL | JEEZE RECORD | | | |
| Purpose: | Depth Top Bottom | Type of Cem | ent # | Sacks Used | | Type and Pe | ercent Additives | |
| Perforate Protect Casing | 100 20111111 | | | | | | | |
| Plug Back TD Plug Off Zone | | | | | | | | |
| 1 lag on zono | | | | | | | | |
| Did you perform a hydrau | ulic fracturing treatment | on this well? | | | Yes | No (If No, ski) | o questions 2 ar | nd 3) |
| Does the volume of the to | | • | | | | _ | o question 3) | (" 100 ") |
| Was the hydraulic fractur | ing treatment information | on submitted to the c | hemical disclo | sure registry? | Yes | No (If No, fill o | out Page Three | of the ACO-1) |
| Shots Per Foot | | ION RECORD - Bri Footage of Each Int | | | | cture, Shot, Cement | | d Depth |
| | , , | | | | , | | , | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TUBING RECORD: | Size: | Set At: | Pa | acker At: | Liner Run: | | | |
| | | | | | | Yes No | | |
| Date of First, Resumed | Production, SWD or Ef | | cing Method: owing | Pumping | Gas Lift C | ther <i>(Explain)</i> | | |
| Estimated Production Per 24 Hours | Oil | Bbls. G | as Mcf | Wate | er Bl | ols. G | ias-Oil Ratio | Gravity |
| DIODOCITI | ON OF CAS: | | , 4 CT - 1 | | TION: | | DRODUCTIO | AN INTEDVAL. |
| Vented Solo | ON OF GAS: Used on Lease | Open Ho | | IOD OF COMPLE \Box | | nmingled | PHODUCIIC | ON INTERVAL: |
| | bmit ACO-18.) | Other (S | necify) | (Submit | | mit ACO-4) | | |

| Form | ACO1 - Well Completion | | | |
|-----------|------------------------|--|--|--|
| Operator | BEREXCO LLC | | | |
| Well Name | Bernita 1-27 | | | |
| Doc ID | 1189696 | | | |

Tops

| Name | Тор | Datum |
|---------------------|------|-------|
| Anhydrite | 3122 | +107 |
| Anhydrite (base) | 3159 | +70 |
| Foraker | 3723 | -494 |
| Topeka | 3941 | -712 |
| Oread | 4062 | -833 |
| Lansing/KS City "A" | 4158 | -929 |
| LKC "B" | 4214 | -985 |
| LKC "C" | 4274 | -1045 |
| LKC "D" | 4319 | -1090 |
| LKC "E" | 4364 | -1135 |
| LKC "F" | 4398 | -1169 |
| Pawnee | 4546 | -1317 |

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 061146

Federal Tax I.D. # 20-8651475

| REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092 | SERVICE POINT: <u>Cally ES</u> |
|--|--|
| | Tacky 00 |
| DATE 10/8/13 27 1 3 2 | ON LOCATION JOB START JOB FINISH 11:00 a.m. 3:30 am. 4:60 a.m. |
| LEASE 1-27 WELL# 1-27 LOCATION WELL# | LOUNTY STATE LOUNTY STATE |
| OLD ORNEW (Circle one) | te RAIS JAN 100 JINTO IMMONS ES |
| ODD OTTOMOS (CITOTO STO) | |
| CONTRACTOR ROLLO 2 | OWNER Same |
| TYPE OF JOB Surface | |
| HOLE SIZE 12/14 TD. 3016 | CEMENT 225-1- 20/10 |
| CASING SIZE 85/6 (24 ²²) DEPTH 36(6) | AMOUNT ORDERED 225 sks Com 3%CC |
| TUBING SIZE DEPTH DRILL PIPE DEPTH | 2% gel |
| DRILL PIPE DEPTH TOOL DEPTH | |
| PRES. MAX MINIMUM | COMMON_ 225sts @ 17.90 4027.50 |
| MEAS. LINE SHOE JOINT | POZMIX @ |
| CEMENT LEFT IN CSG. 15' | GEL 45ks @ 23.40 93.60 |
| PERFS. | CHLORIDE 8565 @ 64.00 512.00 |
| DISPLACEMENT 18.56 bb/ water | ASC@ |
| EQUIPMENT | @ |
| | @ |
| PUMPTRUCK CEMENTER Towl Regul | |
| # 120 HELPER Tyler Flipse | |
| BULKTRUCK | @ |
| # 600 DRIVER ALCA (TWS) | |
| BULK TRUCK | @ |
| # DRIVER | HANDLING 243.29 Pt @ 2.48 603.36 |
| | MILEAGE 11.10 fors 450m; x 2.60 1443.00 |
| REMARKS: | TOTAL 61-79-46 |
| Mlx 225.5kg Com 3%CC 2% gel | |
| Displace with water | SERVICE |
| | |
| coment did incolate | DEPTH OF JOB 306 |
| | PUMPTRUCK CHARGE 1.5/2.25 |
| - Thank I | EXTRA FOOTAGE@ |
| | MILEAGE MIHU 50 @ 7,70 365.00 |
| | MANIFOLD Swedge @ 275.00 W/C MIW 50 @ 4.40 W/C |
| | <u></u> |
| CHARGETO: BECEXIO LLC | |
| | TOTAL 1897.25 |
| STREET | IVIAL I |
| CITYSTATEZIP | |
| | PLUG & FLOAT EQUIPMENT |
| | |
| · | |
| | |
| To: Allied Oil & Gas Services, LLC. | @ |
| You are hereby requested to rent cementing equipment | |
| and furnish cementer and helper(s) to assist owner or | <u> </u> |
| contractor to do work as is listed. The above work was | mom. I |
| done to satisfaction and supervision of owner agent or | TOTAL |
| contractor. I have read and understand the "GENERAL | SALES TAX (If Any) |
| TERMS AND CONDITIONS" listed on the reverse side. | 0.575-71 |
| 1 | momer or name (A:) [[[1] |
| | TOTAL CHARGES 0.016.11 |
| PRINTED NAME Craig Weeks | DISCOUNT 2,401.47 IF PAID IN 30 DAYS |
| PRINTED NAME Craig Weeks | DISCOUNT 2,401.47 IF PAID IN 30 DAYS |
| SIGNATURE Craig Weeks | A 114. 117 |



CEMENTING LOG

STAGE NO.

| lalus | | A 11 | 1/ 6 | | | MENT DATA: |
|-------------------------------------|----------------------|----------------|--|--|-------------|---|
| Date 10/8/13 | Distric | Dalley | KS Tic | ket No. 06/14 | sr | pacer Type: |
| Company 5.6 | report 1 | LC_ | Rig | Bredco 2 | | mt Sks Yield ft³/sk Density PPG |
| | 14a | | We | 11 No. 1-27 | | |
| CountyRcus | s line | | Sta | te <u>KS</u> | | |
| Location | 17-1-3 | <u> </u> | Fie | ld | | AD: Pump Time hrs. Type |
| Mc Donald W. | | | | NIWSIN | <u>to _</u> | Excess |
| CASING DATA: | Conductor [| | _ | queeze 🔲 Mis | C A | mt Sks Yield ft ³ /sk Density PPG |
| 051 | Surface | 🖳 Intermedi | ate 🔲 Pro | duction 🔲 Line | r 🔲 🗆 TA | mt Sks Yield tro-sk Density From 3%CC hrs. Type <u>Com 3%CC</u> |
| Size 85/8 | _Type_ <i>Nc</i> | يم Weig | int 24th | Collar | | 2% gel Excess |
| | | | | | A | mtPG |
| | | | | | W | /ATER: Lead gals/sk Tail gals/sk Total Bbls. |
| | | | | | | 120 - Tilox |
| Casing Depths: To | p1 <u>/</u> [| <u> </u> | Bottom | 306' | Po | Imp Trucks Used 120 - Tyler |
| | | | | | 8 | alk Equip. 1000 - Alrex |
| | | | | | | |
| | | | | | | |
| Drill Pipe: Size | | Weight | | Collars | | |
| Drill Pipe: Size Open Hole: Size | | T.D. <u>33</u> | 06 ft. P | .B. to | ft. fl | oat Equip: Manufacturer |
| CAPACITY FACTO | RS: | | | | S | ilde. type |
| Casing: | | | | ol, | | oor 1160 1 |
| Open Holes: | | | | bl | | entralizers: Quantity Plugs Top Btm |
| Drill Pipe: | Bbls/Lin. ft | | Lin. ft./Bi | bl | | tage Collars |
| Annulus: | Bbls/Lin. ft | | Lin. ft./B | b1 | \$ | pecial Equip |
| | 8bls/Lin. ft | | Lin. ft./B | bl | | 14/ |
| Perforations: F | rom | ft. to | | ft. Amt | N | lud Type vveight110 |
| | | | | | | CEMENTER Towl Beauty |
| COMPANY REPRI | ESENȚATIVE | | | | | CEMENTER |
| · · · | PPECCUI | OFC DCI | E E I I | ID PUMPED D | ΔΤΔ | |
| TIME | PRESSU | 1 | 1 | | RATE | REMARKS |
| AM/PM) | DRILL PIPE CASING | ANNULUS | TOTAL FLUID | Pumped Per Time Period | Bbls Min. | |
| | | | | | | Hold Satety meeting |
| | | | | | | |
| 3/30 | | | | | | 5 fart water |
| | | | | | | Start coment |
| | | | 34.826 | 34.82661 | | My 225 sts Com 3% ((2% gel |
| | | | | | | weigh rement @ 15.02 th |
| | | | | | | Stop cement |
| | | | 10.0bb | 40.82 661 | | wash up pump + lines Displace with water |
| | | | 1254661 | 53,3665 | | Displace with water |
| | | | | | <u> </u> | |
| | | | | | | Coment did circulate |
| 4100p.m. | | <u> </u> | <u> </u> | | | Cement did circulate |
| /- | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | <u> </u> | · |
| • | | | | | | |
| | | ļ | <u> </u> | | | |
| | ļ | | | | | Hold Safety Meeting |
| | | | | | | tooks out the treestand |
| | <u> </u> | | | | | |
| | | | | | | |
| | <u> </u> | | | | | Thank, |
| | | | - | <u> </u> | | 1, 200, |
| | | | + | | | |
| | | | 1 | | L | |
| | | no. | 011140 0/41 | ic TO | | PSI BLEEDBACKBBLS. THANK YOU |
| FINAL DISP. PRE | SS: | PSI | טאין אוייטם | U IV | | - · |

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 061204 Federal Tax 1.D. # 20-8651475

| REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092 | 2 ; | | SERV | ICE POINT: | ey 165 |
|--|---|--|---|---|--|
| DATE 10/18/13 SEC. TWP. | RANGE 36 | CALLED OUT | ON LOCATION | JOB START | JOB FINISH 7:30 |
| LEASE Bornita WELL# 1-27 | LOCATION Mc Don | ald NtoRd | U Fallous | COUNTY | STATE |
| | Curves to RdY | | | | |
| CONTRACTOR BEEDGE S | | OWNER S | ame | | |
| TYPE OF JOB Production 5/2 HOLE SIZE 7/8 T.D. | 4600' | CEMENT | | | ~. |
| CASING SIZE 5 /2 DEPT | H 4472.58 | AMOUNT ORI | DERED 450 | sks Al | W /4# |
| TUBING SIZE DEPT | Н | 1-10-Seal. | 250 sk | s Com | 10%5elt |
| DRILL PIPE DEPT TOOL DEPT | | 2% gel, | 5# Gilson | ite | |
| PRES. MAX MINIT | | COMMON | 250sks | 017.90 | 447600 |
| MEAS. LINE SHOE | JOINT 42.42 | POZMIX | 01-03 <u>m</u> | @ <u>1 7.70</u> @ | 19.19 |
| CEMENT LEFT IN CSG. 42.4 | 12 | GEL | 5563 | @ 23.40 | 117 20 |
| PERFS. DISPLACEMENT IOL. 45 | | CHLORIDE | 100 | .@ | |
| | bbl (weter) | ALW_ | 4505ks | @ 15.95 | 7,177,50 |
| EQUIPMENT | ; | 5a[+ | 26 sts | @ <u>26.35</u> | 685.20 |
| PUMPTRUCK CEMENTER + WI | Beaver | Gilsonite | 12501 | @ | 1275 |
| # 120 HELPER Tyler BULK TRUCK Adam F | | 1301301113 | | @ | 1000 |
| # 600 DRIVER (heis H | cloinstine | Flo-Seal | 338ª | @2.97 | 1,003,86 |
| BULK TRUCK # 566 DRIVER Brandon | -11 | WFR-II | (superflush)1266 | @ 58.70 | 704.40 |
| # 566 DRIVER Brandon | Willinson | HANDLING_ | 825.28H3 | @2.48 | 2046,62 |
| | | MILEAGE 3 | 1.33 tons v 50m | 14 9.10 | 4,462.80 |
| REMARKS: | | | | TOTAL | |
| Break circulation, pump bell through, Mix 17,551 WFR-II (super flus) | | | | 2 | 1,897,45 |
| mir 17.551 WFR-II (superflust | | | SERVIC | CE | • |
| Mix 415sks Lite tailed by 250sl | es Com down casin | DEPTH OF JOI | 2 | 4472 | 2.58' |
| Displace with 106.45 bbl was | 15 | PUMPTRUCK | | | |
| Pl. 211 1. 20 120011. 11 | 7. | T TOWN THOUSE | CIZZIALOD | 2 | 11.0.15 |
| | of pressure 1800 | EXTRA FOOTA | GE | @ | 71,5.75 |
| C 3 | Lipressure 1800 irculated | EXTRA FOOTA MILEAGE <u>· m</u> | IAV 50 | @ <u>.</u> @ 7.70_ | 385.00 |
| | ircivlated | EXTRA FOOTA MILEAGE <u>m</u> MANIFOLD | IGE IHU 50 Head | @ @ <u>7.70</u> @ <u>275</u> | 385.00 |
| | | EXTRA FOOTA MILEAGE <u>· m</u> | IAV 50 | @ @ <u>7.70</u> @ <u>275²²:</u> @ 4.40 | 385.00 N/C N/C |
| | ircivlated | EXTRA FOOTA MILEAGE <u>m</u> MANIFOLD | IGE IHU 50 Head | @ @ <u>7.70</u> @ <u>275</u> | 385.°° N/C N/C |
| Coment did circolate, c | ircivlated | EXTRA FOOTA MILEAGE <u>m</u> MANIFOLD | IGE IHU 50 Head | @ | 385.00 N/C N/C 3150.75 |
| CHARGE TO: Berexco | Thank 1 | EXTRA FOOTA MILEAGE <u>m</u> MANIFOLD | IGE IHU 50 Head | @ | 385.°° N/C N/C |
| CHARGE TO: Berexco | Thank 1 | EXTRA FOOTA MILEAGE <u>M</u> MANIFOLD <u>M</u> MILU | IGE IHU 50 Head | @ | 385.00 N/C N/C 3150.75 |
| CHARGE TO: Berexco | Thank 1 | EXTRA FOOTA MILEAGE <u>M</u> MANIFOLD <u>M</u> MILU P Tnd | I HU 50 Head 50 | @ | 385.00 N/C N/C 3150.75 |
| CHARGE TO: Berexco | Thank 1 | EXTRA FOOTA MILEAGE MANIFOLD MILE MANIFOLD P Tod AFU | LUG & FLOAT | @ | 385.00 N/C N/C 3150.75 |
| CHARGE TO: Berexco STREET CITY STATE | Thank 1 | EXTRA FOOTA MILEAGE MANIFOLD MILE MILU P Tnd AFU Letch dawn | LUG & FLOAT UShial Rul Plus Assould | @ 7.70 @ 2752 @ 4.40 @ TOTAL EQUIPMEN Ober | 385.00 N/C N/C 3/50.75 |
| CHARGE TO: Berey CO STREET STATE To: Allied Oil & Gas Services, LLC. | Thank 1 | EXTRA FOOTA MILEAGE M MANIFOLD MILU P Ind AFU Letch dawn Centralize | LUG & FLOAT UShrial Rul Toat shoe Plus Assorb | @ 7.70 @ 2752. @ 4.40 @ TOTAL EQUIPMEN OJ-61. | 385.00 N/C N/C 3/50.75 |
| CHARGE TO: Berey CO STREET CITY STATE To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cemen | Thank \ Thank \ ZIP ZIP | EXTRA FOOTA MILEAGE MANIFOLD MILE MILU P Tnd AFU Letch dawn | LUG & FLOAT UShrial Rul Toat shoe Plus Assorb | @ 7.70 @ 2752 @ 4.40 @ TOTAL EQUIPMEN Ober | 385.00 N/C N/C 3/50.75 |
| CHARGE TO: Berey, CO STREET CITY STATE To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to a | Thank \ Thank \ ZIP ting equipment ssist owner or | EXTRA FOOTA MILEAGE M MANIFOLD MILU P Ind AFU Letch dawn Centralize | LUG & FLOAT UShrial Rul Toat shoe Plus Assorb | @ 7.70 @ 275=: @ 4.40 @ TOTAL EQUIPMEN Ober | 385.00 N/C N/C 3/50.75 |
| CHARGE TO: Berey. CO STREET CITY STATE To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to a contractor to do work as is listed. The idone to satisfaction and supervision of the contractor of the con | Thank Thank ZIP ZIP zip ating equipment ssist owner or above work was owner agent or | EXTRA FOOTA MILEAGE M MANIFOLD MILU P Ind AFU Letch dawn Centralize | LUG & FLOAT UShrial Rul Toat shoe Plus Assorb | @ 7.70 @ 2752 @ 4.40 @ TOTAL EQUIPMEN O)-er @ 37.22 @ 46.22 | 385.00 N/C N/C 3/50.75 |
| CHARGE TO: Berey Co STREET CITY STATE To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to a contractor to do work as is listed. The done to satisfaction and supervision of contractor. I have read and understand | Thank Thank ZIP ZIP ating equipment ssist owner or above work was owner agent or the "GENERAL | EXTRA FOOTA MILEAGE MANIFOLD MILU P AFU Letch dawn Controlize Scratch | LUG & FLOAT UShrial Pulloat shoe Plus Assorbly | @ 7.70 @ 2752 @ 4.40 @ TOTAL EQUIPMEN O)-er @ 37.22 @ 46.22 | 385.00 N/C N/C 3/50.75 T 5/2 230.00 184.00 407.00 552.00 |
| CHARGE TO: Berey. CO STREET CITY STATE To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to a contractor to do work as is listed. The idone to satisfaction and supervision of the contractor of the con | Thank Thank ZIP ZIP ating equipment ssist owner or above work was owner agent or the "GENERAL | EXTRA FOOTA MILEAGE M MANIFOLD MILU P Ind AFU Letch dawn Centralize | LUG & FLOAT USAvial Rul loat shoe Plus Assould eys 20 | @ 7.70 @ 27522. @ 4.40 @ TOTAL EQUIPMEN O) - Cr | 385.00 N/C N/C 3/50.75 T 5/2 230.00 184.00 407.00 552.00 |
| CHARGE TO: Berey Co STREET CITY STATE To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to a contractor to do work as is listed. The done to satisfaction and supervision of contractor. I have read and understand | Thank Thank ZIP ZIP ating equipment ssist owner or above work was owner agent or the "GENERAL | EXTRA FOOTA MILEAGE MANIFOLD MILU P AFU Letch dawn Controlize Scratch | LUG & FLOAT USArial Pul loat shoe Plus Assorbly rs 20 | @ 7.70 @ 27522. @ 4.40 @ TOTAL EQUIPMEN O) - Cr | 385.00 N/C N/C 3/50.75 T 5/2 230.00 184.00 407.00 552.00 |
| CHARGE TO: Berey Co STREET CITY STATE To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to a contractor to do work as is listed. The done to satisfaction and supervision of contractor. I have read and understand | Thank Thank ZIP ZIP ating equipment ssist owner or above work was owner agent or the "GENERAL | EXTRA FOOTA MILEAGE MANIFOLD MILU P Tnd AFU Letch down Controlize Scratch SALES TAX (If | LUG & FLOAT USArial Pul loat shoe Plus Assorbly rs 20 | @ 7.70 @ 2752 @ 4.40 @ TOTAL EQUIPMEN OD-EV | 385.00 N/C N/C 3/50.75 T 5/2 230.00 184.00 407.00 552.00 |
| CHARGE TO: Berey CO STREET CITY STATE To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to a contractor to do work as is listed. The adone to satisfaction and supervision of contractor. I have read and understand TERMS AND CONDITIONS" listed on | Thank Thank ZIP ZIP ating equipment ssist owner or above work was owner agent or the "GENERAL | PAFU F Letch down Centrelize Scratch SALES TAX (If TOTAL CHARC DISCOUNT | LUG & FLOAT USAvial Rul loat shoe Plus Assorb ex 20 Any) BES 26,4 | @ 7.70 @ 2752 @ 4.40 @ TOTAL EQUIPMEN % 37.2 @ 46.22 @ TOTAL | 385.00 N/C N/C 3/50.75 T 5/2 232,00 184.02 407.02 407.02 552.02 1,37500 |



CEMENTING LOG

STAGE NO.

| Date 10/18/ | 13 piore | . Ookl | بعبر لاح | icket No. oblá | 204 | CEMENT DATA: Spacer Type: WFR-IT (super flush) 1266 |
|-------------------|----------------------|---------------|---------------------------------------|---------------------------|-------------------|---|
| | 3er uco | | | ig Beredco 3 | | Amt. Sks Yield 1t³/sk Density PPG |
| | mita | | | vell No1-2 | | Affic Sxs field 10-75k Defisity Pro |
| (2 | enldus | | | | | |
| | L7-1-36 | | | | | 1 plus 0% 1 |
| Location | L1-1-36 | | F | ield | <u> </u> | EAD: Pump Time hrs. Type (00/40 8% ogs) 3/44 Flo-Seal Excess |
| CASING DATA: | | | - | Squeeze D M | lisc 🗌 💢 | Amt. 450 Sks Yield 1.76 ft ³ /sk Density 12.90 PPG |
| 11 | Surface | | | oduction 🔀 Li | ner 🔲 📑 | FAIL: Pump Time hrs. Type 6th 10% Selt |
| Size 5/2 | Туре//_ | <u>, w</u> | ight | 5Collar | | 5# Gilsonite 2% gel Excess |
| | | | | | | Amt. 350 Sks Yield 1.49 ft 3/sk Density 14.56 PPG |
| | | <u>.</u> | · · · · · · · · · · · · · · · · · · · | · | V | NATER: Lead gals/sk Tail gals/sk Total Bbls. |
| Casing Depths: T | iop | 'B | _ BottomU | 472.58 | | Pump Trucks Used 120- Tyler |
| | | | | | В | bulk Equip. 400 - Chris |
| | | | | | | 566-Brandon / Adam |
| | | | | | | |
| Drill Pipe: Size | | Weight | | Collars | | ~ 1 1 . 1 . D 1/ . |
| Open Hole: Size . | 718 | T.D. <u>4</u> | LOD It | P.B. to | ft. F | loat Equip: Manufacturer Industrial Rubber |
| CAPACITY FACTO | ORS: | | | | S | thos: Type AFU Float Shoe Depth 4472.58 |
| Casing: | Bbls/Lin. ft | '073. | C_ Lin. ft./E | вы | | loat: Type Laterdown pluz assembly Depth 4430.16 |
| Open Holes: | 8bls/Lin. ft | | Lin. ft./8 | bl | c | Centralizers: Quantity Plugs Top Btm |
| Drill Pipe: | Bbls/Lin. ft | | Lin. ft./8 | lbl | | itage Collars |
| Annulus: | Bbls/Lin. ft | | Lin. ft./8 | lbl | s | pecial Equip. Scratchers (20) |
| | Bbls/Lin. ft | | Lin. ft./8 | bl | D | isp. Fluid Type Water Amt. 106.45 Bbls. Weight PPG |
| Perforations: F | rom | ft. to | · | ft. Amt | N | flud Type Weight PPG |
| | | | / | | | |
| COMPANY REPR | ESENTATIVE | d A | apes | 5 | | CEMENTER Taul Beaver |
| TIME_ | PRESSU | RES PSI | FIL | IID PUMPED I | DATA | |
| AM/PM | DRILL PIPE CASING | ANNULUS | 1 | ~· | | REMARKS |
| AM/PNI | CASING | ANNOLOS | TOTAL FLUID | Pumped Per Time Period | RATE Bbls Min. | |
| | | | | | | Hold Safety Meeting |
| | | ···· | | | | Run Pipe / Float equipment |
| 5:25 | | | | | | Break circulation / Drop bell / Ball 400# |
| 6:30 | | | 12661 | | | mix 12 bbl WFR-II down casing |
| | | | 4.40661 | 14.4 | | mix 20sks in R.H. |
| | | | 3.31 661 | 19.71 | | mix 155ks in m.H |
| | | | 91.70651 | 111.41 | | Start coment/Mix 415 sks Lite down casing |
| | | | | | | weigh rement @ 12.92# |
| | | | 39.68661 | 151.29 | | Tail with 250 sks Com |
| | | | | | | weigh coment @ 14.56# |
| | | | | | | Stop coment / unhook from head |
| | | - | 6:0051 | 157.29 | | wash-up pump + lines |
| | | | | | | high back up to casing / release plug |
| | | | | | | Start water displacement (106.45) |
| | | | 20 | 177.29 | | MODEL LIFT |
| • | | | 20 | 197.29 | | 400B L.Ct |
| <u>i</u> | | | 20 | 217.29 | | 900 to 1.ft |
| | | | 20 | 237.29 | | 1100 \$ 1:57 |
| | | | ĺο | 247.29 | | 13004 11ft |
| | | | 10 | 257.29 | | 1500= 1: {} |
| | | | 1.45 | 263.74 | | 18,004 1: 64 |
| 7130 | | | | | | Plug did land @ 2300# Lift pressure 1800° Float did hold Coment did circulate (110 66/) |
| | | | | | | Float did hald |
| | | | | | | Cement did circulate (16 661) |
| | | | | | | Hold Safety meeting |
| | | | | | • | Hold Sidely meeting hant |
| | | | | | | |
| INAL DICO DOZGO | <u>: 1800</u> | per | PLIMP DI LIA | 10 <u>2300</u> |) , | PSI BLEEDBACKBBLS. THANK YOU |
| INAL DISP. PRESS | S — 1 — — — | rsi | OUIVIP PLUG | 10 | | rdi preripava |



Berexco L.L.C. SEC. 27 - 1 S. - 36 W. - Rawlins co.

2020 N. Bramblew ood

Wichita KS. 67202

ATTN: BRYAN BYNOG

Bernita #1-27

Job Ticket: 54865 **DST#:1**

Test Start: 2013.10.12 @ 20:04:00

GENERAL INFORMATION:

Formation: "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:50:30 Time Test Ended: 05:40:15

Interval: 4080.00 ft (KB) To 4190.00 ft (KB) (TVD)

Total Depth: 4190.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Bob Hamel

Unit No: 44

Reference Elevations: 3141.00 ft (KB)

3129.00 ft (CF)

8000.00 psig

KB to GR/CF: 12.00 ft

Serial #: 8879

Press@RunDepth: 79.51 psig @ ft (KB) Capacity:

 Start Date:
 2013.10.12
 End Date:
 2013.10.13
 Last Calib.:
 2013.10.13

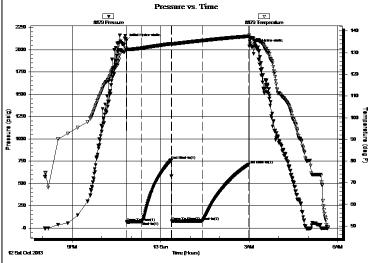
 Start Time:
 20:04:05
 End Time:
 05:40:15
 Time On Btm:
 2013.10.12 @ 22:50:00

Time Off Btm: 2013.10.13 @ 02:59:45

PRESSURE SUMMARY

TEST COMMENT: I.F. - 30 - 1/4 INT. BLOW DIDN'T BUILD

I.S.I. - 60 - NO BLOW BACK F.F. - 60 - NO BLOW F.S.I. - 90 - NO BLOW BACK



| | Time | Pressure | Temp | Annotation |
|---|--------|----------|---------|----------------------|
| | (Min.) | (psig) | (deg F) | |
| | 0 | 2101.61 | 132.07 | Initial Hydro-static |
| | 1 | 66.61 | 131.29 | Open To Flow (1) |
| | 32 | 72.94 | 132.09 | Shut-In(1) |
| | 92 | 764.91 | 134.12 | End Shut-In(1) |
| 3 | 92 | 75.87 | 133.87 | Open To Flow (2) |
| | 154 | 79.51 | 135.53 | Shut-In(2) |
| | 249 | 713.52 | 137.57 | End Shut-In(2) |
| 9 | 250 | 2037.27 | 138.05 | Final Hydro-static |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Recovery

| Description | Volume (bbl) |
|-------------|--------------|
| MUD | 0.05 |
| | |
| | |
| | |
| | |
| | |
| | · |

| Gas Raies | | |
|----------------|-----------------|------------------|
| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |

Trilobite Testing, Inc Ref. No: 54865 Printed: 2013.10.13 @ 06:39:48



FLUID SUMMARY

Berexco L.L.C. SEC. 27 - 1 S. - 36 W. - Rawlins co.

2020 N. Bramblew ood

Wichita KS.

67202

ATTN: BRYAN BYNOG

Bernita #1-27

Serial #:

Job Ticket: 54865 **DST#:1**

Test Start: 2013.10.12 @ 20:04:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 64.00 sec/qt Cushion Volume: bbl

6.80 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: ppm Filter Cake: 2.00 inches

Recovery Information

Water Loss:

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 10.00 | MUD | 0.049 |

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

·

Trilobite Testing, Inc Ref. No: 54865 Printed: 2013.10.13 @ 06:39:49

Trilobite Testing, Inc

Ref. No:

54865

Printed: 2013.10.13 @ 06:39:49



Berexco L.L.C.

SEC. 27 - 1 S. - 36 W. - Rawlins co.

Bernita #1-27

2020 N. Bramblew ood Wichita KS.

67202

ATTN: BRYAN BYNOG

Job Ticket: 54866 DST#: 2

Test Start: 2013.10.13 @ 13:36:00

GENERAL INFORMATION:

Formation: L.K.C. "B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:08:00 Time Test Ended: 00:27:30

4170.00 ft (KB) To 4220.00 ft (KB) (TVD) Interval:

Total Depth: 4190.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Reset) Tester: **Bob Hamel**

Unit No: 44

Reference Elevations:

3141.00 ft (KB)

3129.00 ft (CF) KB to GR/CF: 12.00 ft

Serial #: 6669 Outside

Press@RunDepth: 401.77 psig @ 4217.00 ft (KB)

Start Date: 2013.10.13 13:36:05 Start Time:

End Date: End Time:

2013.10.14

Capacity: Last Calib.: 8000.00 psig

00:27:30

1899.12.30 Time On Btm: 2013.10.13 @ 16:06:30

Time Off Btm:

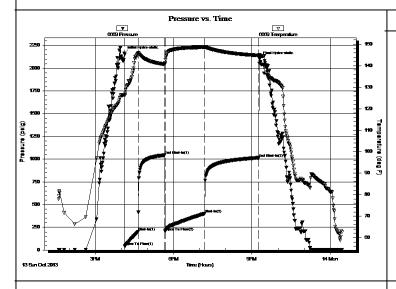
2013.10.13 @ 21:17:15

TEST COMMENT: I.F. - 30 - 1/2 INT. BLOW B.O.B. 16 MIN.

I.S.I. - 60 - NO BLOW BACK

F.F. - 90 - NO INT. BLOW B.O.B. 23 MIN

F.S.I. - 120 - NO BLOW BACK



PRESSURE SUMMARY

| Time | Pressure | ıemp | Annotation |
|--------|----------|---------|----------------------|
| (Min.) | (psig) | (deg F) | |
| 0 | 2164.44 | 126.46 | Initial Hydro-static |
| 2 | 40.97 | 126.22 | Open To Flow (1) |
| 32 | 200.92 | 145.75 | Shut-In(1) |
| 93 | 1043.39 | 140.72 | End Shut-In(1) |
| 94 | 204.54 | 140.94 | Open To Flow (2) |
| 185 | 401.77 | 148.59 | Shut-In(2) |
| 309 | 1015.11 | 144.80 | End Shut-In(2) |
| 311 | 2100.48 | 145.04 | Final Hydro-static |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) | | |
|--------------------------------|-----------------------|--------------|--|--|
| 242.00 WATER W/ FEW OIL SPECS | | 1.19 | | |
| 186.00 | O,C,M, 14% OIL 86%MUD | 0.91 | | |
| 372.00 | M,C,O, 20% MUD 80%OIL | 4.34 | | |
| 130.00 | C/OIL 100% | 1.82 | | |
| | | | | |
| | | | | |
| * Recovery from multiple tests | | | | |

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 54866 Printed: 2013.10.14 @ 03:32:02



FLUID SUMMARY

Berexco L.L.C. SEC. 27 - 1 S. - 36 W. - Rawlins co.

2020 N. Bramblew ood

Wichita KS.

67202 ATTN: BRYAN BYNOG Bernita #1-27

Serial #:

Job Ticket: 54866 **DST#:2**

Test Start: 2013.10.13 @ 13:36:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 57.00 sec/qt Cushion Volume: bbl

Water Loss: 7.20 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 600.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------|---------------|
| 242.00 | WATER W/ FEW OIL SPECS | 1.190 |
| 186.00 | O,C,M, 14% OIL 86%MUD | 0.915 |
| 372.00 | M,C,O, 20% MUD 80%OIL | 4.344 |
| 130.00 | C/OIL 100% | 1.824 |

Total Length: 930.00 ft Total Volume: 8.273 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 54866 Printed: 2013.10.14 @ 03:32:03

Trilobite Testing, Inc

Ref. No:

54866

Printed: 2013.10.14 @ 03:32:03



Berexco L.L.C.

SEC. 27 - 1 S. - 36 W. - Rawlins co.

2020 N. Bramblew ood

Wichita KS.

67202

ATTN: BRYAN BYNOG

Bernita #1-27

Job Ticket: 54867 **DST#: 3**

Test Start: 2013.10.14 @ 11:50:00

GENERAL INFORMATION:

Formation: L.K.C. "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:07:00
Time Test Ended: 21:51:15

Interval: 4230.00 ft (KB) To 4300.00 ft (KB) (TVD)

Total Depth: 4190.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel

Unit No: 44

Reference Elevations: 3141.00 ft (KB)

3129.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8879

Press@RunDepth: 160.16 psig @ ft (KB) Capacity: 8000.00 psig

 Start Date:
 2013.10.14
 End Date:
 2013.10.14
 Last Calib.:
 2013.10.14

 Start Time:
 11:50:05
 End Time:
 21:51:15
 Time On Btm:
 2013.10.14 @ 14:06:45

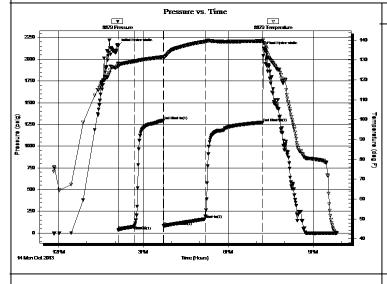
 Time Off Btm:
 2013.10.14 @ 19:15:45

TEST COMMENT: I.F. - 30 - 1/4 INT. BLOW BUILT TO 11" IN 30 MIN.

I.S.I - 60 - NO B.B.

F.F. - 90 - NO INT BLOW BUILT TO B.O.B. IN 45 MIN.

F.S.I. - 120 - NO B.B.



| PRESSURE S | SUMMARY |
|------------|---------|
|------------|---------|

| Time | Pressure | Temp | Annotation |
|--------|----------|---------|----------------------|
| (Min.) | (psig) | (deg F) | |
| 0 | 2151.80 | 128.16 | Initial Hydro-static |
| 1 | 33.58 | 126.61 | Open To Flow (1) |
| 35 | 76.22 | 129.23 | Shut-In(1) |
| 96 | 1293.09 | 131.55 | End Shut-In(1) |
| 96 | 81.90 | 131.20 | Open To Flow (2) |
| 184 | 160.16 | 139.27 | Shut-In(2) |
| 307 | 1272.76 | 139.56 | End Shut-In(2) |
| 309 | 2118.41 | 138.37 | Final Hydro-static |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) | |
|--------------------------------|-----------------------|--------------|--|
| 5.00 SMCO 15%MUD 85%OIL | | 0.02 | |
| 387.00 | 387.00 CLEAN OIL 100% | | |
| | | | |
| | | | |
| | | | |
| | | | |
| * Recovery from multiple tests | | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|----------------|-----------------|------------------|

Trilobite Testing, Inc Ref. No: 54867 Printed: 2013.10.15 @ 00:32:01



FLUID SUMMARY

Berexco L.L.C. SEC. 27 - 1 S. - 36 W. - Rawlins co.

2020 N. Bramblew ood

Wichita KS.

67202

ATTN: BRYAN BYNOG

Bernita #1-27

Serial #:

Job Ticket: 54867 **DST#: 3**

Test Start: 2013.10.14 @ 11:50:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 61.00 sec/qt Cushion Volume: bbl

6.80 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 700.00 ppm Filter Cake: 2.00 inches

Recovery Information

Water Loss:

Recovery Table

| | Length ft | Description | Volume bbl |
|---|--------------|--------------------|---------------|
| | 5.00 | SMCO 15%MUD 85%OIL | 0.025 |
| Γ | 387.00 | CLEAN OIL 100% | 1.903 |

Total Length: 392.00 ft Total Volume: 1.928 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 54867 Printed: 2013.10.15 @ 00:32:01

Trilobite Testing, Inc

Ref. No: 54867

Printed: 2013.10.15 @ 00:32:01



Berexco L.L.C. SEC. 27 - 1 S. - 36 W. - Rawlins co.

2020 N. Bramblew ood

Wichita KS. 67202

ATTN: BRYAN BYNOG

Bernita #1-27

Job Ticket: 54868 **DST#: 4**

Test Start: 2013.10.15 @ 09:30:00

GENERAL INFORMATION:

Formation: L.K.C. " D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:06:45

Tester: Bob Hamel
Time Test Ended: 17:48:30

Unit No: 44

Interval: 4294.00 ft (KB) To 4344.00 ft (KB) (TVD)

Total Depth: 4190.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3141.00 ft (KB)

Test Type: Conventional Bottom Hole (Reset)

3129.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8879 Inside

Press@RunDepth: 37.70 psig @ 4341.00 ft (KB) Capacity: 8000.00 psig

Time

Pressure

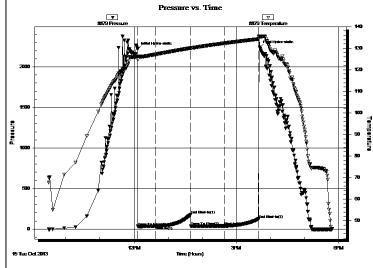
 Start Date:
 2013.10.15
 End Date:
 2013.10.15
 Last Calib.:
 2013.10.15

 Start Time:
 09:30:05
 End Time:
 17:48:29
 Time On Btm:
 2013.10.15 @ 12:06:30

 Time Off Btm:
 2013.10.15 @ 15:40:45

TEST COMMENT: I.F. - 30 - W.S.B. NO BUILD

I.S.I. - 60 - NO B.B. F.F. - 60 - NO BLOW F.S.I. - 60 - NO B.B.



| | (Min.) | (psig) | (deg F) | |
|---|--------|---------|---------|----------------------|
| | 0 | 2218.80 | 126.26 | Initial Hydro-static |
| | 1 | 32.43 | 124.69 | Open To Flow (1) |
| | 32 | 36.35 | 127.15 | Shut-In(1) |
| | 93 | 179.28 | 130.05 | End Shut-In(1) |
| 1 | 94 | 35.69 | 129.99 | Open To Flow (2) |
| | 153 | 37.70 | 132.28 | Shut-In(2) |
| • | 213 | 125.28 | 134.22 | End Shut-In(2) |
| | 215 | 2236.83 | 135.23 | Final Hydro-static |
| | | | | |
| | | | | |

PRESSURE SUMMARY

Temp

Annotation

Recovery

| Length (ft) | Description | Volume (bbl) | |
|--------------------------------|----------------------|--------------|--|
| 3.00 | MUD W/ FEW OIL SPECS | 0.01 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| * Recovery from multiple tests | | | |

| Gas Rates | | |
|----------------|-----------------|------------------|
| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |

Trilobite Testing, Inc Ref. No: 54868 Printed: 2013.10.16 @ 08:36:31



FLUID SUMMARY

Berexco L.L.C. SEC. 27 - 1 S. - 36 W. - Rawlins co.

2020 N. Bramblew ood

Wichita KS.

67202

ATTN: BRYAN BYNOG

Bernita #1-27

Serial #:

Job Ticket: 54868 **DST#: 4**

Test Start: 2013.10.15 @ 09:30:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:67.00 sec/qtCushion Volume:bbl

6.40 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 800.00 ppm
Filter Cake: 2.00 inches

Recovery Information

Water Loss:

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 3.00 | MUD W/ FEW OIL SPECS | 0.015 |

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 54868 Printed: 2013.10.16 @ 08:36:32

Trilobite Testing, Inc

Ref. No:

54868

Printed: 2013.10.16 @ 08:36:32



Berexco L.L.C.

SEC. 27 - 1 S. - 36 W. - Rawlins co.

2020 N. Bramblew ood

Wichita KS. 67202

ATTN: BRYAN BYNOG

Bernita #1-27

Job Ticket: 54869 DST#:5

Test Start: 2013.10.16 @ 04:07:00

GENERAL INFORMATION:

Formation: L.K.C. "E"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:11:30 Time Test Ended: 14:54:00

4330.00 ft (KB) To 4380.00 ft (KB) (TVD) Interval:

Total Depth: 4380.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Reset) Tester:

Unit No:

Bob Hamel

44

3141.00 ft (KB)

Reference Elevations:

3129.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8879 Inside

Press@RunDepth:

Start Date:

Start Time:

50.28 psig @ 2013.10.16

04:07:05

4377.00 ft (KB) End Date:

End Time:

2013.10.16

Capacity: Last Calib.: 8000.00 psig

14:54:00

Time On Btm:

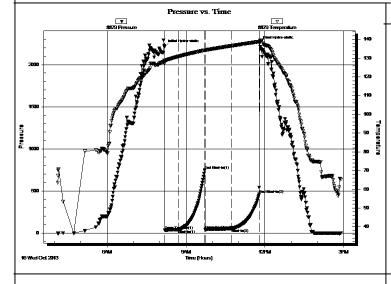
2013.10.16 2013.10.16 @ 08:11:00

Time Off Btm:

2013.10.16 @ 11:48:45

TEST COMMENT: I.F. - 30 - W.S.B. DIED IN 9 MIN.

I.S.I. - 60 - NO B.B. F.F. - 60 - NO BLOW F.S.I. - 60 - NO B.B.



PRESSURE SUMMARY

| Time | Pressure | Temp | Annotation |
|--------|----------|---------|----------------------|
| (Min.) | (psig) | (deg F) | |
| 0 | 2213.55 | 128.71 | Initial Hydro-static |
| 1 | 33.14 | 127.32 | Open To Flow (1) |
| 32 | 40.45 | 130.90 | Shut-In(1) |
| 92 | 748.68 | 134.24 | End Shut-In(1) |
| 93 | 40.56 | 134.13 | Open To Flow (2) |
| 154 | 50.28 | 136.56 | Shut-In(2) |
| 216 | 460.13 | 138.79 | End Shut-In(2) |
| 218 | 2255.67 | 139.31 | Final Hydro-static |
| | | | |

Recovery

| Length (ft) | Description | | Volume (bbl) | |
|----------------------|--------------|---------|--------------|------|
| 5.00 | SGOCM GAS,5% | OIL,15% | MUD,80% | 0.02 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| * Recovery from mult | tiple tests | | | |

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 54869 Printed: 2013.10.16 @ 15:31:42



FLUID SUMMARY

Berexco L.L.C. SEC. 27 - 1 S. - 36 W. - Rawlins co.

2020 N. Bramblew ood

Wichita KS.

67202

ATTN: BRYAN BYNOG

Bernita #1-27

Serial #:

Job Ticket: 54869 **DST#: 5**

Test Start: 2013.10.16 @ 04:07:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 64.00 sec/qt Cushion Volume: bbl

Water Loss: 6.78 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------------|---------------|
| 5.00 | SGOCM GAS,5% OIL,15% MUD,80% | 0.025 |

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 54869 Printed: 2013.10.16 @ 15:31:42

Trilobite Testing, Inc

Ref. No:

54869

Printed: 2013.10.16 @ 15:31:43

BEREXCO LLC

BERNITA 1-27

NE NE SEC 27 T1S R36W

RAWLINS COUNTY, KANSAS

| SUMMARY | 1 |
|-------------------|----|
| WELL DATA | 2 |
| FORMATION TOPS | 3 |
| LITHOLOGY & SHOWS | 4 |
| SERVICES | 8 |
| DRILL STEM TESTS | 9 |
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SUMMARY

The Berexco, LLC Bernita 1-27 in Rawlins County, Kansas spud October 8, 2013 and reached a total depth of 4600' on October 17, 2013. The test drilled into the Pennsylvanian Pawnee Member at total depth. Wellsite geological supervision commenced at 3000'. The primary objective was the Pennsylvanian Missourian Lansing-Kansas City carbonate benches, which are productive in nearby wells. Secondary zones of interest were the Virgilian Oread Limestone and Pennsylvanian Pawnee Carbonate. The Bernita 1-27 test was drilled using seismic and nearby well control.

Lansing-Kansas City

The evaluation of the primary zones of interest was by drill stem testing after sample analysis and correlation. Five drill stem tests were run based on sample shows. DST 1 in the Lansing "A" was run after moldic porosity with spotty black oil was observed in cuttings. The DST recovered 10 ft of mud with an oil scum. Electric logs confirmed the lack of porosity. The Lansing "B" exhibited limestone grainstone with fair to good porosity, live brown oil stain, and very good cuts. DST 2 recovered 680 ft of oil and oil cut mud with good flow pressures. Electric logs revealed a porous 2-ft interval. DST 3 in the Lansing "C" Zone was based on good sample shows and porosity similar to the Lansing "B" zone. DST 3 recovered 387 ft of oil and 5 ft of mud. Electric logs revealed a thin interval with marginal porosity. DST 4 in the Lansing "D" zone was based on nearby wells and a very poor oil show with very limited pinpoint vuggy porosity. Recovery of 3 ft of oil-specked mud indicating only limited porosity was confirmed by electric logs. The Lansing "E" samples revealed a limestone wackestone containing scattered oil specks and rare pin-point vuggy porosity. DST 5 over the "E" zone recovered only 5 ft of gas and oil cut mud with very poor flow pressures. Electric logs confirmed the "E" zone was nonporous. The Lansing "F" limestone was a nonporous limestone with no sample shows. The secondary Pawnee Limestone exhibited a nonporous limestone with no sample shows.

Subsequent to electric logs the Bernita 1-27 was cased with 5.5" production casing for completion as an oil producer. Drill cuttings were shipped to the State of Kansas.

Peter J. Vollmer Consulting Wellsite Geologist, WPG #3369 October 2013

WELL DATA

OPERATOR: Berexco, LLC

2020 North Bramblewood Drive

Wichita, Kansas 67206

WELL NAME: Bernita 1-27

SURFACE LOCATION: 440' FNL & 340' FEL

NE NE Section 27, T1S, R36E Rawlins County, Kansas

LATITUDE & LONGITUDE: 39.9433539 N, -101.3369201 W

BOTTOM HOLE LOCATION: Vertical Hole

ELEVATIONS: 3216' GL 3229' KB

API NUMBER: 15-153-20951

BASIN: Mid-Continental Arch

FIELD: Wildcat

HOLE SIZE: 12 1/4" to 310'; 7 7/8" to 4600'

CASING: 8 5/8" J-55 24# STC set to 310' KB

SPUD DATE: October 8, 2013

TOTAL DEPTH DATE: October 17, 2013

TOTAL DEPTH: 4600' Rig TD 4599' Log TD

LAST FORMATION: Pennsylvanian Pawnee

WELL STATUS: Ran 5 ½" production casing

OPERATOR Dana Wreath - Vice President

REPRESENTATIVE:

WELLSITE GEOLOGIST: Peter J. Vollmer

FORMATION TOPS

| Formation KB | Sample Top | Log Top | Log TVD | Log Datum 3229 |
|---------------------|--------------|---------|---------|-------------------|
| Pierre Sh | Cased | Cased | N/A | N/A |
| Niobrara Fm | N/A | 1131 | 1131 | +2098 |
| Fort Hays Ls Mbr | N/A | 1616 | 1616 | +1613 |
| Carlile Sh | N/A | 1710 | 1710 | +1519 |
| Anydrite | 3137 | 3122 | 3122 | +107 |
| Base Anydrite | 3175 | 3159 | 3159 | +70 |
| Foraker | 3740 | 3723 | 3723 | -494 |
| Topeka | 3942 | 3941 | 3941 | -712 |
| Oread | 4044 | 4062 | 4062 | -833 |
| Lansing-Kansas City | | | | |
| "A" | 4158 | 4158 | 4158 | -929 |
| "B" | 4214 | 4214 | 4214 | -985 |
| "C" | 4274 | 4274 | 4274 | -1045 |
| "D" | 4320 | 4319 | 4319 | -1090 |
| "E" | 4367 | 4364 | 4364 | -1135 |
| "F" | 4401 | 4398 | 4398 | -1169 |
| Pawnee | 4550 | 4546 | 4546 | -1317 |
| TD Driller | 4600 | | | |
| TD Logger | - | 4599 | 4599 | -1370 |

The following descriptions are interpretive. Rig crew members collected unlagged samples from 3500' to 4600'. Depths are rig depths except where noted as wireline.

| 3500' - 3630' | SHALE: red, firm, very silty, sandy in part. | |
|---------------|---|--|
| 3630' - 3692' | LIMESTONE: pale gray, firm, chalky, poor porosity, no shows. | |
| 3692' - 3740' | SHALE: red, firm, silty as above. | |
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| | | |
| FORAKER | SAMPLE TOP: 3740' LOG TOP: 3723' SUBSEA: -494' | |
| 3740' - 3786' | LIMESTONE: white, soft, very sandy, very chalky, poor porosity, spotty black dead stain with thin SHALE as above. | |
| 3786' - 3846' | LIMESTONE: pale gray, buff, firm, challky, poor porosity, no shows. | |
| 3846' - 3912' | SHALE: red, soft, silty with thin LIMESTONE as above. | |
| 3912' - 3942' | LIMESTONE white, pale gray, firm, chalky in part poor porosity, no shows. | |
| | | |
| | | |
| TOPEKA | SAMPLE TOP: 3942' LOG TOP: 3941' SUBSEA: -712' | |
| 3942' - 3960' | LIMESTONE: pale yellow, buff, hard, dense, slightly oolitic, blocky, poor porosity, no shows. | |
| 3960' - 4016' | LIMESTONE: white, firm, chalky, poor porosity, no shows with interbedded SHALE as above | |
| 4016' - 4044' | SHALE: maroon, red, green, soft, blocky. | |
| | | |
| | | |
| OREAD | SAMPLE TOP: 4044' LOG TOP: 4062' SUBSEA: -833' | |
| 4044' - 4076' | LIMESTONE: white, firm, very chalky, poor visible porosity, no shows. | |

| 4076' - 4086' | LIMESTONE: white, buff, hard, dense, chalky in part, no shows, trace orange Chert. | | |
|-----------------------------|---|--|--|
| 4086' - 4110' | LIMESTONE: pale gray, buff, hard, dense. | | |
| 4110' - 4116' | SHALE: grayish black, black, fissile, carbonaceous, gas odor. | | |
| 4116' - 4158' | SHALE: red, green, gray, firm, fissile with thin LIMESTONE: brown, very hard, very dense. | | |
| LANGRIG | | | |
| LANSING- KANSAS CITY "A" | SAMPLE TOP: 4158' LOG TOP: 4158' SUBSEA: -929' | | |
| 4158' - 4162' | LIMESTONE: buff, firm, slightly fossiliferous, poor moldic porosity, spotty live thick black stain, good cut, no free oil. | | |
| 4162' - 4178' | LIMESTONE: buff, very hard, very dense, blocky, no shows. | | |
| 4178' - 4190' | SANDSTONE white, pale red, friable, very fine grained, clay filled, poor to fair intergranular porosity, no shows | | |
| 4190' - 4214' | SHALE: red, firm, sub blocky. | | |
| | | | |
| LANSING- KANSAS CITY "B" | SAMPLE TOP: 4214' LOG TOP: 4214' SUBSEA: -985' | | |
| 4214' - 4220' | GRAINSTONE: white, firm, oolitic, fair to good intergranular porosity, spotty live brown stain, very good cut, fair show, free oil, fair odor. | | |
| 4220'- 4274' | LIMESTONE: white, pale gray, slightly hard, chalky, no shows. | | |
| | | | |
| LANSING- KANSAS CITY "C" | SAMPLE TOP: 4274' LOG TOP: 4274' SUBSEA: -1045' | | |
| 4274' - 4286' | GRAINSTONE: white, firm, oolitic, slightly chalky, fair intergranular and vuggy porosity, spotty live brown stain, good cut, good show, free oil. | | |
| 4286' - 4300' | SHALE red, maroon, occasional light gray, firm, blocky, noncalcareous | | |

| LANSING- KANSAS CITY "D" | SAMPLE TOP: 4320' LOG TOP: 4319' SUBSEA: -1090' |
|-----------------------------|---|
| 4300'- 4328' | LIMESTONE: white to cream, firm, very chalky, no visible porosity, trace black oil specks, slow streaming cut, pulverized sample. |
| 4328' - 4332' | PACKSTONE to WACKESTONE: white to cream, firm, very chalky, fossil fragments, tight to trace poor to poor vuggy porosity, trace brown to black oil stain, good milky cut. |
| 4332'- 4346' | SHALE: dark gray, firm, blocky. |
| 4346'- 4366' | SHALE: dark reddish brown, firm, blocky, noncalcareous, silty. |
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| LANSING- KANSAS CITY "E" | SAMPLE TOP: 4367' LOG TOP: 4364' SUBSEA: -1135' |
| 4366' - 4378' | MUDSTONE to WACKESTONE: white to cream, firm, very chalky, fossil fragment, occasional interclasts, tight to trace poor to poor vuggy porosity, scattered to patchy dark brown to black oil specks and stain, fair milky cut. |
| 4378' - 4390' | SHALE: gray to greenish gray, firm, platy, waxy, noncalcareous. |
| 4390' - 4402' | SHALE: dark reddish brown, firm, blocky, noncalcareous, silty. |
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| LANSING- KANSAS CITY "F" | SAMPLE TOP: 4401' LOG TOP: 4398' SUBSEA: -1169' |
| 4402' - 4414' | LIMESTONE: cream to white to buff, firm to hard, mudstone to wackestone, scattered fossil fragment, clean, dense, tight, no shows. |
| 4414'- 4440' | SHALE: dark gray, firm, platy, noncalcareous, with interbedded LIMESTONE: cream to white, firm to hard, mudstone, clean, dense, tight, no shows. |
| 4440' - 4472' | SHALE: dark gray, firm, platy, non to very slightly calcareous, fossil fragments with interbedded LIMESTONE: cream to white, firm to hard, mudstone, chalky, clean, dense, tight, no shows. |
| 4472' - 4504' | SHALE: gray to reddish brown to maroon to brown, firm, blocky, silty in part, non to moderately calcareous, thin Limestone stringers. |

| 4504' - 4520' | LIMESTONE: grayish brown to light gray, firm, mudstone, argillaceous, tight, no shows. | |
|------------------|---|--|
| 4520' - 4550' | SHALE: dark gray, firm, platy, non to very slightly calcareous, thin Limestone partings. | |
| | | |
| PAWNEE | SAMPLE TOP: 4550' LOG TOP: 4546' SUBSEA: -1317' | |
| 4550' - 4576' | LIMESTONE: white to very light gray, hard, mudstone, rare fossil fragment, clean, tight, no shows. | |
| 4576' - 4590' | SHALE: dark gray, firm, platy, non to very slightly calcareous. | |
| 4590' - 4600' TD | LIMESTONE: light gray to very light gray, hard, mudstone, slightly argillaceous in part, tight, no shows. | |

SERVICES

CONTRACTOR: Beredco Drilling Inc., Rig 2

Toolpusher: Milo Salinas

DRILLING FLUIDS: Morgan Mud, Inc. McCook, ND

Mud Type: Freshwater Chemical Engineer: Troy Van Pelt

MUD LOGGING: None

T. M. McCoy & Co., Inc. Peter J. Vollmer WELLSITE GEOLOGY: Wilson, WY 307-733-4332

DRILL STEM TESTING: Trilobite Testing, Inc. Hays, KS

Bob Hamel Tester:

DIRECTIONAL DRILLING: None

WIRELINE LOGS: Pioneer Wireline Services Hays, KS

RAG 3100' - TD

Micro Surface casing to TD Engineer: Chris Desaire