



1244714

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 | SandRidge Exploration and Production LLC |
| Well Name | Bernice 1-17H |
| Doc ID | 1244714 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|---|---|-------|
| 6 | 88551-53;8736-38;8621-23;8506-08;8391-93; | Frac w/4789 bbls slickwtr, 36 bbls 15% NeFe HCl, 168 bbls gelled acid, 99M # 40/70 sd. 4893 TLTR | |
| 6 | 8274-76;8159-61;8044-46;7929-31;7814-16 | Frac w/4957 bbls Slickwtr, 36 bbls 15% NeFe HCl 138 bbls gelled acid 1-3M # 40/70 sd. 15338 TLTR. | |
| 6 | 7697-99;7582-84;7467-69;7352-54;7237-39 | Frac w/5572 bbls Slickwtr, 36 bbls 15% NeFe HCl, 168 bbls gelled acid, 101M # 40/70 sd. 21210 TLTR. | |
| 6 | 7120-22;7005-07;6890-92;6775-77;6660-62 | Frac w/5748 bbls Slickwtr, 36 bbls 15% NeFe HCl, 168 bbls gelled acid, 101M # 40/70 sd. 27243 TLTR. | |
| 6 | 6543-45;6428-30;6313-15;6198-6200;6083-85 | Frac w/5345 bbls Slickwtr, 36 bbls 15% NeFe HCl, 168 bbls gelled acid, 97M # 40/70 sd. 27316 TLTR. | |

| | |
|-----------|--|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Bernice 1-17H |
| Doc ID | 1244714 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|---|--|-------|
| 6 | 5966-68;5851-53;5736-38;5621-23;5506-08 | Frac w/5281 bbls Slickwtr, 36 bbls 15% NeFe HCl, 168 bbls gelled acid, 95M # 40/70 sd. 38386 TLTR. | |
| 6 | 5389-91;5274-76;5159-61;5044-46;4929-31 | Frac w/4896 bbls Slickwtr, 36 bbls 15% NeFe HCl, 605 bbls gelled acid, 106M # 40/70 sd. 43940 TLTR. | |
| 6 | 8968-9430 | | |

| | | | | |
|------------------------------|--------------------------|---|---------------------------------------|--------------------------------|
| JOB SUMMARY | | | PROJECT NUMBER SOK0695 | TICKET DATE 07/21/11 |
| COUNTRY Harper | State Kansas | COMPANY Landridge Exp and Productio | CUSTOMER REP Euidosio Garza | |
| LEASE NAME Bernice | Well No. 1-17H | JOB TYPE Surface | EMPLOYEE NAME Chris Bigbey | |

| | | | | | |
|---------------------------------|-----------------------|--|--|--|--|
| EMP NAME Chris Bigbey | RJ Stonehocker | | | | |
| Jared Green | | | | | |
| Daniel Wells | | | | | |
| Larry Kirchner Sr. | | | | | |

Form. Name _____ Type: _____

Packer Type _____ Set At **0**

Bottom Hole Temp. **80** Pressure _____

Retainer Depth _____ Total Depth **926**

| | | | | |
|------|--------------------------------|---------------------------------|---------------------------------|-----------------------------------|
| Date | Called Out 7/21/2011 | On Location 7/21/2011 | Job Started 7/21/2011 | Job Completed 7/21/2011 |
| Time | 0730 | 1200 | 1600 | 1700 |

| Type and Size | Qty | Make |
|--------------------------|-----|-------------|
| Auto Fill Tube | 0 | Weatherford |
| Insert Float Val | 0 | |
| Centralizers | 0 | |
| Top Plug | 1 | |
| HEAD | 0 | |
| Limit clamp | 0 | |
| Weld-A | 0 | |
| Texas Pattern Guide Shoe | 0 | |
| Cement Basket | 0 | |

| Well Data | | | | | | | |
|--------------|----------|--------|---------|-------|---------|-----|------------|
| | New/Used | Weight | Size | Grade | From | To | Max. Allow |
| Casing | | 36# | 9 5/8" | | Surface | 926 | |
| Liner | | | | | | | |
| Liner | | | | | | | |
| Tubing | | | 0 | | | | |
| Drill Pipe | | | | | | | |
| Open Hole | | | 12 1/4" | | Surface | 927 | Shots/Ft. |
| Perforations | | | | | | | |
| Perforations | | | | | | | |
| Perforations | | | | | | | |

| Materials | | | | |
|---------------|--------|---------|------|--------|
| | whm | Density | 9.2 | Lb/Gal |
| Mud Type | water | Density | 8.34 | Lb/Gal |
| Disp. Fluid | water | Density | 8.34 | Lb/Gal |
| Spacer type | BBL. | | 10 | |
| Spacer type | BBL. | | | |
| Acid Type | Gal. | | % | |
| Acid Type | Gal. | | % | |
| Surfactant | Gal. | | In | |
| NE Agent | Gal. | | In | |
| Fluid Loss | Gal/Lb | | In | |
| Gelling Agent | Gal/Lb | | In | |
| Fric. Red. | Gal/Lb | | In | |
| MISC. | Gal/Lb | | In | |

| Hours On Location | | Operating Hours | | Description of Job |
|-------------------|-------|-----------------|-------|--------------------|
| Date | Hours | Date | Hours | |
| 7/21 | 7.0 | 7/21 | 1.0 | Surface |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total | 7.0 | Total | 1.0 | |

| | | |
|---------------|------|--|
| Perfpac Balls | Qty. | |
| Other | | |
| Other | | |
| Other | | |
| Other | | |
| Other | | |

| Pressures | | |
|----------------------|------|------------------------|
| MAX | 1500 | AVG. 200 |
| Average Rates in BPM | | |
| MAX | 6 | AVG 5 |
| Cement Left in Pipe | | |
| Feet | 47 | Reason Shoe Jt. |

| Cement Data | | | | | | |
|-------------|-------|--------------------|---|-------|-------|---------|
| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
| 1 | 245 | 65:35 Standard:Poz | 6% Gel - 2% Calcium Chloride - 1/4lb/sk Cello-Flake | 10.88 | 1.84 | 12.70 |
| 2 | 180 | Standard | 2% Calcium Chloride - 1/4lb/sk Cello-Flake | 5.20 | 1.18 | 15.60 |
| 3 | 100 | Standard | 2% Calcium Chloride on side if necessary | 5.20 | 1.18 | 15.60 |

| Summary | | | | | | | | |
|-----------|--------|----------------|---------|--------------------|-----------|---------|----------------|-------|
| Preflush | | Type: | | Preflush: | BBI | 10.00 | Type: | WATER |
| Breakdown | | MAXIMUM | 1,500 | Load & Bkdn: | Gal - BBI | | Pad:Bbl -Gal | |
| | | Lost Returns-N | no | Excess /Return BBI | | 38 | Calc. Disp Bbl | 68 |
| | | Actual TOC | surface | Calc. TOC: | | surface | Actual Disp. | 63.00 |
| Average | | Frac. Gradient | | Treatment: | Gal - BBI | | Disp:Bbl | 67.90 |
| ISIP | 5 Min. | 10 Min | 15 Min | Cement Slurry: | BBI | 118.1 | | |
| | | | | Total Volume | BBI | 191.10 | | |

CUSTOMER REPRESENTATIVE *Charles Hallmark* SIGNATURE

| | | | | |
|------------------------------|--------------------------|---|--|--------------------------------|
| JOB SUMMARY | | | PROJECT NUMBER SOK0733 | TICKET DATE 08/09/11 |
| COUNTY Harper | State Kansas | COMPANY Landridge Exp and Productio | CUSTOMER REP Felix Ortiz | |
| LEASE NAME Bernice | Well No. 1-17H | JOB TYPE Squeeze Job | EMPLOYEE NAME Larry Kirchner Jr. | |

| | | | | | |
|-----------------|--|--|--|--|--|
| EMP NAME | | | | | |
| Larry Kirchner | | | | | |
| Emmit Brock | | | | | |
| Florian Helkena | | | | | |

Form. Name _____ Type: _____
 Packer Type _____ Set At **5,192'**
 Bottom Hole Temp. **4,388'** Pressure _____
 Retainer Depth _____ Total Depth **9,605'**

| | | | | |
|------|-------------------------------|--------------------------------|--------------------------------|----------------------------------|
| Date | Called Out 8/8/2011 | On Location 8/8/2011 | Job Started 8/8/2011 | Job Completed 8/9/2011 |
| Time | 10:00AM | 2:00PM | 6:02PM | 12:00AM |

| Tools and Accessories | | |
|--------------------------|-----|--------------------|
| Type and Size | Qty | Make |
| Auto Fill Tube | 0 | Weatherford |
| Insert Float Va | 0 | |
| Centralizers | 0 | |
| Drill Pin | 1 | |
| HEAD | 0 | |
| Limit clamp | 0 | |
| Weild-A | 0 | |
| Texas Pattern Guide Shoe | 0 | |
| Cement Basket | 0 | |

| Well Data | | | | | | |
|--------------|----------|--------|-------|-------|---------|------------------|
| | New/Used | Weight | Size | Grade | From | To |
| Casing | | 11.6 | 4 1/2 | | Surface | |
| Liner | | | | | | 3,500 |
| Liner | | | | | | |
| Tubing | | | 3 1/2 | | | |
| Drill Pipe | Used | | 3 1/2 | IF | Surface | 3,831' |
| Open Hole | | | 6 1/8 | | Surface | 9,505' Shots/Ft. |
| Perforations | | | | | | |
| Perforations | | | | | | |
| Perforations | | | | | | |

| Materials | | | |
|---------------|-------------|---------|-------------|
| Mud Type | WBM | Density | 9 Lb/Gal |
| Disp. Fluid | Fresh Water | Density | 8.33 Lb/Gal |
| Spacer type | Fresh Water | BBL | 20 8.33 |
| Spacer type | Caustic | BBL | 10 8.50 |
| Acid Type | | Gal. | % |
| Acid Type | | Gal. | % |
| Surfactant | | Gal. | In |
| NE Agent | | Gal. | In |
| Fluid Loss | | Gal/Lb | In |
| Gelling Agent | | Gal/Lb | In |
| Fric. Red. | | Gal/Lb | In |
| MISC. | | Gal/Lb | In |

| Hours On Location | | Operating Hours | | Description of Job |
|-------------------|-------|-----------------|-------|--------------------|
| Date | Hours | Date | Hours | |
| 8/8 | 10.0 | 8/8 | 2.0 | Squeeze Job |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total | 10.0 | Total | 2.0 | |

Perfpac Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

| Pressures | | |
|----------------------|------|-----------------------|
| MAX | 2000 | AVG. 100 |
| Average Rates in BPM | | |
| MAX | 6 | AVG 3 |
| Cement Left in Pipe | | |
| Feet | 0 | Reason Squeeze |

| Cement Data | | | | | | |
|-------------|-------|----------------|-----------|-------|-------|---------|
| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
| 1 | 300 | Premium Cement | Neat | 5.20 | 1.18 | 15.60 |
| 2 | 0 | 0 | | 0 | 0.00 | 0.00 |
| 3 | 0 | 0 | | 0 | 0.00 | 0.00 |

| Summary | | | | | |
|--------------------|--------------------------|------------------------|-------|----------------|-------|
| Preflush Breakdown | Type: _____ | Preflush: BBI | 0.00 | Type: WATER | |
| | MAXIMUM _____ | Load & Bkdn: Gal - BBI | | Pad: Bbl - Gal | |
| | Lost Returns: _____ | Excess /Return BBI | | Calc. Disp Bbl | 18 |
| | Actual TOC 3,738' | Calc. TOC: _____ | | Actual Disp. | 18.00 |
| Average | Frac. Gradient _____ | Treatment: Gal - BBI | | Disp: Bbl | |
| ISIP | 5 Min. _____ | Cement Slurry BBI | 63.0 | | |
| | 10 Min. _____ | Total Volume BBI | 81.00 | | |
| | 15 Min. _____ | | | | |

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

| | | | | |
|------------------------------|--------------------------|--|--|--------------------------------|
| JOB SUMMARY | | | PROJECT NUMBER SOK0708 | TICKET DATE 07/27/11 |
| COUNTY Harper | State Kansas | COMPANY Andridge Exp and Productio | CUSTOMER REP Claude Hallmark | |
| LEASE NAME Bernice | Well No. 1-17H | JOB TYPE Intermediate | EMPLOYEE NAME Chris Bigbey | |

| | | | | | | | |
|-------------------|--|--|--|--|--|--|--|
| EMP NAME | | | | | | | |
| Chris Bigbey | | | | | | | |
| Jared Green | | | | | | | |
| Larry Kirchner SR | | | | | | | |
| David Settlemier | | | | | | | |

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5,242'

| | | | | |
|------|------------------|------------------|------------------|------------------|
| | Called Out | On Location | Job Started | Job Completed |
| Date | <u>7/27/2011</u> | <u>7/27/2011</u> | <u>7/27/2011</u> | <u>7/27/2011</u> |
| Time | <u>05:00</u> | <u>10:00</u> | <u>1925</u> | <u>2036</u> |

| Type and Size | Qty | Make |
|--------------------------|-----|-------------|
| Auto Fill Tube | 0 | Weatherford |
| Insert Float Val | 0 | |
| Centralizers | 0 | |
| Top Plug | 0 | |
| HEAD | 0 | |
| Limit clamp | 0 | |
| Weld-A | 0 | |
| Texas Pattern Guide Shoe | 0 | |
| Cement Basket | 0 | |

| Well Data | | | | | | |
|--------------|----------|--------|--------|-------|---------|-----------|
| | New/Used | Weight | Size | Grade | From | To |
| Casing | | 26# | 7" | | Surface | 5,242' |
| Liner | | | | | | |
| Liner | | | | | | |
| Tubing | | | 0 | | | |
| Drill Pipe | | | | | | |
| Open Hole | | | 8 3/4" | | Surface | 5,242' |
| Perforations | | | | | | Shots/Ft. |
| Perforations | | | | | | |
| Perforations | | | | | | |

| Materials | | | |
|---------------|------------------|---------|-------------|
| Mud Type | WBM | Density | 9 Lb/Gal |
| Disp. Fluid | Fresh Water | Density | 8.33 Lb/Gal |
| Spacer type | Fresh Water BBL. | 20 | 8.33 |
| Spacer type | Caustic BBL. | 10 | 8.50 |
| Acid Type | Gal. | | % |
| Acid Type | Gal. | | % |
| Surfactant | Gal. | | In |
| NE Agent | Gal. | | In |
| Fluid Loss | Gal/Lb | | In |
| Gelling Agent | Gal/Lb | | In |
| Fric. Red. | Gal/Lb | | In |
| MISC. | Gal/Lb | | In |

| Hours On Location | | Operating Hours | | Description of Job |
|-------------------|-------|-----------------|-------|--------------------|
| Date | Hours | Date | Hours | |
| 7/27 | 12.0 | 7/27 | 1.0 | Intermediate |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total | 12.0 | Total | 1.0 | |

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

| Pressures | |
|----------------------|------------|
| MAX | 5,000 PSI |
| AVG | 500 |
| Average Rates in BPM | |
| MAX | 10 BPM |
| AVG | 6 |
| Cement Left in Pipe | |
| Feel | 83 |
| Reason | SHOE JOINT |

| Cement Data | | | | | | |
|-------------|-------|----------------------|---|-------|-------|---------|
| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
| 1 | 270 | 50:50 Poz w/ Premium | (Includes 2% Gel) 4% Gel + .5% C-21 + .1% C-37 + 1pps Phenoseal | 6.77 | 1.44 | 13.60 |
| 2 | 0 | 0 | | 0 | 0.00 | 0.00 |
| 3 | 0 | 0 | | 0 | 0.00 | 0.00 |

| Summary | | | | | | | |
|--------------------|---------------|-----------------------------|------------------------|---------------|--------------------|---------------|------------|
| Preflush Breakdown | <u>10</u> | Type: <u>CAUSTIC</u> | Preflush: BBI | <u>20.00</u> | Type: <u>WATER</u> | Pad:Bbl -Gal | <u>N/A</u> |
| | | MAXIMUM <u>5,000 PSI</u> | Load & Bkdn: Gal - BBI | <u>N/A</u> | Calc. Disp Bbl | <u>197</u> | |
| | | Lost Returns- <u>N</u> | Excess /Return BBI | <u>N/A</u> | Actual Disp. | <u>185.00</u> | |
| | | Actual TOC <u>3,510'</u> | Calc. TOC: | <u>3,675</u> | Disp:Bbl | <u>197.00</u> | |
| Average isip | <u>5 Min.</u> | Bump Plug PSI: <u>1,400</u> | Final Circ. PSI: | <u>700</u> | | | |
| | | <u>10 Min.</u> | Cement Slurry: BBI | <u>69.3</u> | | | |
| | | <u>15 Min.</u> | Total Volume BBI | <u>274.25</u> | | | |

CUSTOMER REPRESENTATIVE Claude Hallmark SIGNATURE

| | | | | |
|------------------------------|--------------------------|---|--|--------------------------------|
| JOB SUMMARY | | | PROJECT NUMBER SOK0732 | TICKET DATE 08/08/11 |
| COUNTY Harper | State Kansas | COMPANY Landridge Exp and Productio | CUSTOMER REP Felix Ortiz | |
| LEASE NAME Bernice | WELL NO. 1-17H | JOB TYPE Liner | EMPLOYEE NAME Larry Kirchner Jr. | |

| | | | | | |
|--------------------|--|--|--|--|--|
| EMP NAME | | | | | |
| Larry Kirchner | | | | | |
| Emmit Brock | | | | | |
| Robert Stonehocker | | | | | |
| David Thomas | | | | | |

Form. Name _____ Type: _____
Packer Type _____ Set At **5,192'**
Bottom Hole Temp. **155** Pressure _____
Retainer Depth _____ Total Depth **9,505'**

| | | | | |
|------|-------------------------------|--------------------------------|--------------------------------|----------------------------------|
| Date | Called Out 8/7/2011 | On Location 8/8/2011 | Job Started 8/8/2011 | Job Completed 8/8/2011 |
| Time | 16:30 | 00:00 | 5:32AM | 7:30AM |

| Type and Size | Qty | Make |
|--------------------------|-----|--------------------|
| Auto Fill Tube | 0 | Weatherford |
| Insert Float Val | 0 | |
| Centralizers | 0 | |
| Top Plug | 0 | |
| HEAD | 0 | |
| Limit clamp | 0 | |
| Weld-A | 0 | |
| Texas Pattern Gulde Shoe | 0 | |
| Cement Basket | 0 | |

| Well Data | | | | | | | |
|---------------|----------|--------|--------|-------|---------|--------|------------|
| | New/Used | Weight | Size | Grade | From | To | Max. Allow |
| Casing | New | 11.6# | 4 1/2" | | 4,020' | 9,484' | 3,500 |
| Liner Tool | | | | | | | 3,500 |
| Drill Collars | | | | | 3,105 | 4,020' | 3,500 |
| Drill Pipe | | 13.3 | 3 1/2" | | Surface | 3105' | 3,500 |
| Drill Pipe | | | | | | | |
| Open Hole | | | 8 3/4" | | Surface | 9,484' | Shots/Ft. |
| Perforations | | | | | | | |
| Perforations | | | | | | | |
| Perforations | | | | | | | |

| Materials | | | |
|---------------|------------------|---------|--------|
| Mud Type | WBM | Density | Lb/Gal |
| Disp. Fluid | Fresh Water | 8.33 | |
| Spacer type | Fresh Water BBL. | 20 | 8.33 |
| Spacer type | Caustic BBL. | 10 | 8.50 |
| Acid Type | Gal. | | % |
| Acid Type | Gal. | | % |
| Surfactant | Gal. | | In |
| NE Agent | Gal. | | In |
| Fluid Loss | Gal/Lb | | In |
| Gelling Agent | Gal/Lb | | In |
| Fric. Red. | Gal/Lb | | In |
| MISC. | Gal/Lb | | In |
| Perfpac Balls | Qty. | | |
| Other | | | |
| Other | | | |
| Other | | | |
| Other | | | |
| Other | | | |

| Hours On Location | | Operating Hours | | Description of Job |
|-------------------|-------|-----------------|-------|--------------------|
| Date | Hours | Date | Hours | |
| 8/8 | 7.5 | 8/8 | 2.0 | Liner |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total | 7.5 | Total | 2.0 | |

| Pressures | |
|----------------------|-------------------|
| MAX 3,500 PSI | AVG. 400 |
| Average Rates in BPM | |
| MAX 6 BPM | AVG 4 |
| Cement Left in Pipe | |
| Feet 40 | Reason SHOE JOINT |

| Cement Data | | | | | | |
|-------------|-------|----------------------|---|-------|-------|---------|
| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
| 1 | 550 | 50:50 Poz w/ Premium | (Includes 2% Gel) 4% Gel + .4% C-12 + .1% C-37 + 1pps Phenoseal | 6.77 | 1.44 | 13.60 |
| 2 | 0 | 0 | | 0 | 0.00 | 0.00 |
| 3 | 0 | 0 | | 0 | 0.00 | 0.00 |

| Summary | | | | | | | |
|--------------------|-----------|--------------------------|------------------------|---------------|--------------------|----------------|---------------|
| Preflush Breakdown | 10 | Type: CAUSTIC | Preflush: BBI | 30.00 | Type: WATER | Pad:Bbl -Gal | N/A |
| | | MAXIMUM 3,500 PSI | Load & Bkdn: Gal - BBI | N/A | | Calc. Disp Bbl | 111 |
| | | Lost Returns N | Excess /Return BBI | N/A | | Actual Disp. | 105.50 |
| | | Actual TOC 3,638' | Calc. TOC: | 3,617' | | Disp:Bbl | |
| Average | | Bump Plug PSI: | Final Circ. PSI: | 400 | | | |
| 15 Min | 5 Min. | 10 Min | Cement Slurry: BBI | 141.0 | | | |
| | | 15 Min | Total Volume BBI | 276.50 | | | |

CUSTOMER REPRESENTATIVE _____ SIGNATURE *Felix Ortiz*

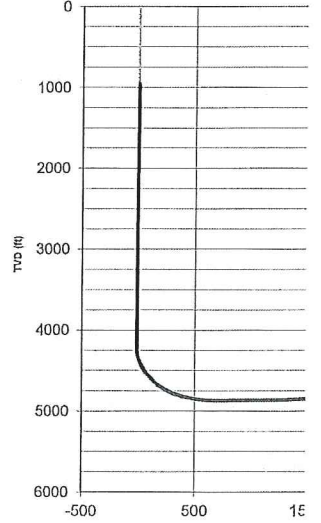
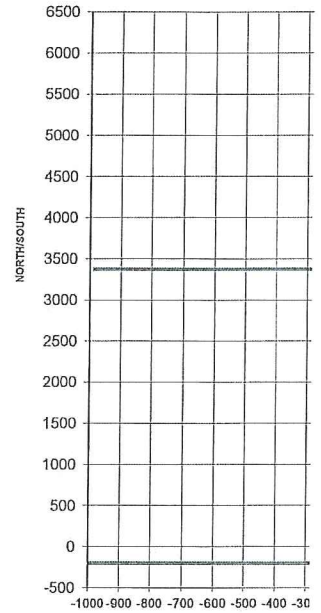


RIG: Lariat Rig 45

WELL: Bernice 1-17H
 LOCATION: 200' FSL & 1,980' FWL of 17-T35S-R7W
 BHL: 1,720' FSL & 1,980' FWL of 8-T35S-R7W

Target Direction: 359 deg
 North/South Hard Line: -200
 East/West Hard Line: -1980

| STATION NUMBER | SURVEY DEPTH | INC | AZMTH | TVD | N-S | E-W | VERT. SECTION | DLS/100 |
|----------------|--------------|-------|--------|---------|---------|--------|---------------|---------|
| Tie-In | | | | | | | | |
| 1 | 960.00 | 0.20 | 10.60 | 960.00 | 1.65 | 0.31 | 1.65 | 0 |
| 2 | 1330.00 | 0.60 | 179.60 | 1329.99 | 0.34 | 0.44 | 0.35 | 0 |
| 3 | 1705.00 | 0.40 | 243.40 | 1704.98 | -2.21 | -0.72 | -2.21 | 0 |
| 4 | 2182.00 | 0.70 | 236.80 | 2181.96 | -4.55 | -4.64 | -4.59 | 0 |
| 5 | 2658.00 | 0.50 | 222.30 | 2657.93 | -7.67 | -8.47 | -7.75 | 0 |
| 6 | 3134.00 | 0.20 | 353.50 | 3133.93 | -8.39 | -9.97 | -8.48 | 0 |
| 7 | 3610.00 | 0.60 | 105.30 | 3609.92 | -8.22 | -7.66 | -8.29 | 0 |
| 8 | 4087.00 | 0.70 | 110.60 | 4086.89 | -9.90 | -2.52 | -9.92 | 0 |
| 9 | 4119.00 | 0.70 | 111.80 | 4118.89 | -10.04 | -2.15 | -10.06 | 0 |
| 10 | 4182.00 | 0.80 | 102.80 | 4181.88 | -10.28 | -1.37 | -10.30 | 0 |
| 11 | 4214.00 | 0.60 | 80.20 | 4213.88 | -10.30 | -0.99 | -10.31 | 1 |
| 12 | 4246.00 | 2.80 | 13.80 | 4245.86 | -9.52 | -0.63 | -9.52 | 8 |
| 13 | 4278.00 | 6.10 | 6.50 | 4277.76 | -7.07 | -0.26 | -7.07 | 10 |
| 14 | 4309.00 | 9.70 | 1.30 | 4308.46 | -2.82 | -0.01 | -2.82 | 12 |
| 15 | 4341.00 | 13.00 | 0.30 | 4339.83 | 3.48 | 0.07 | 3.48 | 10 |
| 16 | 4373.00 | 16.40 | 359.40 | 4370.78 | 11.60 | 0.04 | 11.60 | 11 |
| 17 | 4405.00 | 19.50 | 359.80 | 4401.22 | 21.46 | -0.02 | 21.46 | 10 |
| 18 | 4436.00 | 20.20 | 359.10 | 4430.38 | 31.98 | -0.13 | 31.98 | 2 |
| 19 | 4468.00 | 21.80 | 357.60 | 4460.25 | 43.44 | -0.46 | 43.44 | 5 |
| 20 | 4500.00 | 24.80 | 356.90 | 4489.64 | 56.08 | -1.07 | 56.07 | 9 |
| 21 | 4532.00 | 27.50 | 357.20 | 4518.36 | 70.17 | -1.80 | 70.15 | 8 |
| 22 | 4563.00 | 30.50 | 357.70 | 4545.47 | 85.18 | -2.46 | 85.15 | 10 |
| 23 | 4595.00 | 33.90 | 359.10 | 4572.55 | 102.22 | -2.93 | 102.19 | 11 |
| 24 | 4627.00 | 36.70 | 1.40 | 4598.66 | 120.71 | -2.84 | 120.68 | 10 |
| 25 | 4659.00 | 38.60 | 2.30 | 4624.00 | 140.24 | -2.20 | 140.22 | 6 |
| 26 | 4691.00 | 41.10 | 1.70 | 4648.56 | 160.74 | -1.49 | 160.71 | 8 |
| 27 | 4722.00 | 43.10 | 1.10 | 4671.56 | 181.51 | -0.98 | 181.49 | 7 |
| 28 | 4754.00 | 45.50 | 1.00 | 4694.46 | 203.85 | -0.57 | 203.84 | 8 |
| 29 | 4786.00 | 48.20 | 0.50 | 4716.35 | 227.20 | -0.27 | 227.18 | 9 |
| 30 | 4818.00 | 51.90 | 0.10 | 4736.89 | 251.72 | -0.14 | 251.71 | 12 |
| 31 | 4849.00 | 55.70 | 0.10 | 4755.19 | 276.73 | -0.10 | 276.72 | 12 |
| 32 | 4881.00 | 59.30 | 359.80 | 4772.39 | 303.72 | -0.13 | 303.70 | 11 |
| 33 | 4913.00 | 62.60 | 358.70 | 4787.92 | 331.69 | -0.50 | 331.67 | 11 |
| 34 | 4945.00 | 65.60 | 358.80 | 4801.90 | 360.46 | -1.12 | 360.43 | 9 |
| 35 | 4977.00 | 69.00 | 359.30 | 4814.25 | 389.97 | -1.61 | 389.94 | 11 |
| 36 | 5008.00 | 71.90 | 359.70 | 4824.62 | 419.18 | -1.87 | 419.15 | 9 |
| 37 | 5040.00 | 73.10 | 359.90 | 4834.24 | 449.70 | -1.97 | 449.66 | 4 |
| 38 | 5072.00 | 75.50 | | 4842.90 | 480.50 | -2.00 | 480.46 | 8 |
| 39 | 5104.00 | 78.10 | 0.20 | 4850.21 | 511.66 | -1.94 | 511.62 | 8 |
| 40 | 5135.00 | 80.50 | 0.30 | 4855.96 | 542.12 | -1.81 | 542.07 | 8 |
| 41 | 5167.00 | 82.80 | 1.10 | 4860.61 | 573.77 | -1.42 | 573.73 | 8 |
| 42 | 5193.00 | 84.60 | 1.10 | 4863.46 | 599.61 | -0.93 | 599.57 | 7 |
| 43 | 5276.00 | 90.20 | 1.60 | 4867.22 | 682.47 | 1.03 | 682.45 | 7 |
| 44 | 5308.00 | 90.40 | 1.10 | 4867.06 | 714.46 | 1.78 | 714.44 | 2 |
| 45 | 5340.00 | 91.20 | 0.60 | 4866.61 | 746.45 | 2.25 | 746.44 | 3 |
| 46 | 5372.00 | 91.30 | 0.10 | 4865.91 | 778.44 | 2.45 | 778.43 | 2 |
| 47 | 5404.00 | 90.90 | | 4865.30 | 810.44 | 2.48 | 810.42 | 1 |
| 48 | 5436.00 | 90.00 | 0.40 | 4865.05 | 842.43 | 2.59 | 842.42 | 3 |
| 49 | 5468.00 | 89.70 | 359.80 | 4865.13 | 874.43 | 2.65 | 874.42 | 2 |
| 50 | 5499.00 | 90.70 | 359.60 | 4865.02 | 905.43 | 2.48 | 905.42 | 3 |
| 51 | 5531.00 | 89.90 | 359.20 | 4864.85 | 937.43 | 2.15 | 937.41 | 3 |
| 52 | 5563.00 | 90.40 | 358.60 | 4864.77 | 969.42 | 1.53 | 969.40 | 2 |
| 53 | 5595.00 | 91.20 | 358.30 | 4864.32 | 1001.41 | 0.67 | 1001.37 | 3 |
| 54 | 5627.00 | 90.10 | 358.30 | 4863.96 | 1033.39 | -0.28 | 1033.34 | 3 |
| 55 | 5659.00 | 89.20 | 358.10 | 4864.16 | 1065.38 | -1.29 | 1065.32 | 3 |
| 56 | 5691.00 | 90.40 | 358.10 | 4864.27 | 1097.36 | -2.35 | 1097.29 | 4 |
| 57 | 5723.00 | 90.90 | 357.10 | 4863.90 | 1129.33 | -3.69 | 1129.24 | 3 |
| 58 | 5755.00 | 91.00 | 356.80 | 4863.37 | 1161.28 | -5.39 | 1161.17 | 1 |
| 59 | 5803.00 | 91.00 | 357.00 | 4862.54 | 1209.20 | -7.98 | 1209.07 | 0 |
| 60 | 5851.00 | 92.30 | 356.70 | 4861.15 | 1257.11 | -10.62 | 1256.95 | 3 |
| 61 | 5899.00 | 93.00 | 356.20 | 4858.94 | 1304.96 | -13.59 | 1304.78 | 2 |
| 62 | 5947.00 | 93.70 | 357.00 | 4856.13 | 1352.79 | -16.43 | 1352.58 | 2 |
| 63 | 5979.00 | 94.00 | 357.20 | 4853.98 | 1384.68 | -18.05 | 1384.45 | 1 |
| 64 | 6011.00 | 93.80 | 358.30 | 4851.80 | 1416.58 | -19.30 | 1416.34 | 3 |
| 65 | 6043.00 | 92.30 | 358.50 | 4850.10 | 1448.52 | -20.19 | 1448.27 | 5 |
| 66 | 6075.00 | 91.20 | 359.60 | 4849.13 | 1480.50 | -20.72 | 1480.24 | 5 |
| 67 | 6107.00 | 90.00 | | 4848.79 | 1512.50 | -20.83 | 1512.24 | 4 |
| 68 | 6139.00 | 90.00 | 1.00 | 4848.79 | 1544.50 | -20.56 | 1544.24 | 3 |
| 69 | 6171.00 | 89.90 | | 4848.82 | 1576.50 | -20.28 | 1576.24 | 3 |
| 70 | 6203.00 | 90.20 | 1.10 | 4848.79 | 1608.50 | -19.97 | 1608.24 | 4 |
| 71 | 6235.00 | 90.40 | 1.30 | 4848.62 | 1640.49 | -19.30 | 1640.23 | 1 |

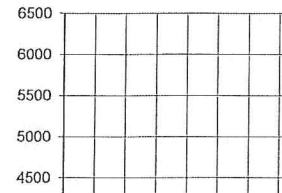




RIG: Lariat Rig 45

WELL: Bernice 1-17H
 LOCATION: 200' FSL & 1,980' FWL of 17-T35S-R7W
 BHL: 1,720' FSL & 1,980' FWL of 8-T35S-R7W

Target Direction: 359 deg
 North/South Hard Line: -200
 East/West Hard Line: -1980



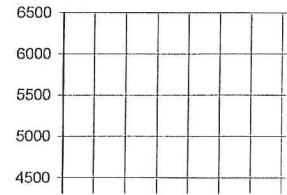
| STATION | SURVEY | | | | | | | VERT. | DLS/100 |
|---------|---------|-------|--------|---------|---------|--------|---------|-------|---------|
| NUMBER | DEPTH | INC | AZMTH | TVD | N-S | E-W | SECTION | | |
| 72 | 6267.00 | 90.70 | 1.70 | 4848.32 | 1672.48 | -18.46 | 1672.23 | 2 | |
| 73 | 6299.00 | 90.10 | 1.20 | 4848.09 | 1704.46 | -17.65 | 1704.22 | 2 | |
| 74 | 6331.00 | 88.90 | 0.90 | 4848.37 | 1736.46 | -17.07 | 1736.22 | 4 | |
| 75 | 6363.00 | 88.50 | 0.40 | 4849.10 | 1768.45 | -16.70 | 1768.21 | 2 | |
| 76 | 6395.00 | 88.70 | 359.80 | 4849.88 | 1800.44 | -16.65 | 1800.20 | 2 | |
| 77 | 6427.00 | 90.00 | 359.60 | 4850.24 | 1832.43 | -16.81 | 1832.19 | 4 | |
| 78 | 6459.00 | 90.10 | | 4850.21 | 1864.43 | -16.93 | 1864.19 | 1 | |
| 79 | 6491.00 | 90.10 | 359.30 | 4850.16 | 1896.43 | -17.12 | 1896.19 | 2 | |
| 80 | 6523.00 | 89.60 | 358.40 | 4850.24 | 1928.43 | -17.76 | 1928.17 | 3 | |
| 81 | 6571.00 | 89.80 | 356.60 | 4850.49 | 1976.38 | -19.86 | 1976.10 | 4 | |
| 82 | 6619.00 | 91.40 | 357.30 | 4849.99 | 2024.30 | -22.41 | 2024.00 | 4 | |
| 83 | 6651.00 | 92.00 | 356.80 | 4849.04 | 2056.25 | -24.06 | 2055.93 | 2 | |
| 84 | 6683.00 | 92.10 | 357.00 | 4847.90 | 2088.18 | -25.79 | 2087.84 | 1 | |
| 85 | 6715.00 | 91.20 | 356.80 | 4846.98 | 2120.12 | -27.52 | 2119.77 | 3 | |
| 86 | 6747.00 | 90.60 | 355.90 | 4846.47 | 2152.05 | -29.55 | 2151.68 | 3 | |
| 87 | 6778.00 | 89.90 | 356.30 | 4846.34 | 2182.98 | -31.66 | 2182.58 | 3 | |
| 88 | 6810.00 | 89.80 | 356.70 | 4846.42 | 2214.92 | -33.61 | 2214.50 | 1 | |
| 89 | 6841.00 | 89.50 | 357.10 | 4846.61 | 2245.87 | -35.29 | 2245.44 | 2 | |
| 90 | 6872.00 | 89.80 | 358.20 | 4846.80 | 2276.85 | -36.56 | 2276.40 | 4 | |
| 91 | 6904.00 | 90.20 | 358.00 | 4846.80 | 2308.83 | -37.62 | 2308.37 | 1 | |
| 92 | 6936.00 | 90.60 | 359.70 | 4846.58 | 2340.82 | -38.27 | 2340.35 | 5 | |
| 93 | 6968.00 | 90.60 | 359.60 | 4846.24 | 2372.82 | -38.46 | 2372.35 | 0 | |
| 94 | 7000.00 | 90.90 | 359.60 | 4845.82 | 2404.81 | -38.68 | 2404.34 | 1 | |
| 95 | 7032.00 | 90.90 | 1.60 | 4845.32 | 2436.81 | -38.35 | 2436.34 | 6 | |
| 96 | 7064.00 | 91.30 | 1.20 | 4844.71 | 2468.79 | -37.57 | 2468.33 | 2 | |
| 97 | 7096.00 | 90.40 | 2.20 | 4844.23 | 2500.77 | -36.62 | 2500.32 | 4 | |
| 98 | 7128.00 | 89.70 | 2.20 | 4844.20 | 2532.75 | -35.39 | 2532.30 | 2 | |
| 99 | 7160.00 | 90.10 | 2.70 | 4844.26 | 2564.72 | -34.02 | 2564.28 | 2 | |
| 100 | 7192.00 | 89.30 | 2.20 | 4844.43 | 2596.69 | -32.65 | 2596.27 | 3 | |
| 101 | 7224.00 | 89.20 | 2.50 | 4844.85 | 2628.66 | -31.34 | 2628.25 | 1 | |
| 102 | 7256.00 | 88.80 | 3.10 | 4845.40 | 2660.62 | -29.78 | 2660.22 | 2 | |
| 103 | 7288.00 | 88.80 | 2.20 | 4846.07 | 2692.57 | -28.30 | 2692.19 | 3 | |
| 104 | 7320.00 | 89.00 | 2.50 | 4846.69 | 2724.54 | -26.99 | 2724.17 | 1 | |
| 105 | 7352.00 | 89.70 | 1.50 | 4847.05 | 2756.52 | -25.87 | 2756.15 | 4 | |
| 106 | 7384.00 | 90.90 | 0.90 | 4846.88 | 2788.51 | -25.20 | 2788.15 | 4 | |
| 107 | 7416.00 | 91.60 | 0.90 | 4846.19 | 2820.50 | -24.70 | 2820.14 | 2 | |
| 108 | 7448.00 | 92.00 | 0.90 | 4845.18 | 2852.48 | -24.20 | 2852.12 | 1 | |
| 109 | 7480.00 | 92.30 | 359.80 | 4843.98 | 2884.46 | -24.00 | 2884.10 | 4 | |
| 110 | 7512.00 | 90.90 | 1.10 | 4843.09 | 2916.44 | -23.75 | 2916.09 | 6 | |
| 111 | 7544.00 | 89.90 | 0.80 | 4842.86 | 2948.44 | -23.22 | 2948.09 | 3 | |
| 112 | 7576.00 | 90.00 | 0.60 | 4842.89 | 2980.43 | -22.83 | 2980.09 | 1 | |
| 113 | 7608.00 | 90.10 | 359.90 | 4842.86 | 3012.43 | -22.69 | 3012.08 | 2 | |
| 114 | 7640.00 | 90.00 | | 4842.83 | 3044.43 | -22.72 | 3044.08 | 0 | |
| 115 | 7672.00 | 89.80 | 0.10 | 4842.89 | 3076.43 | -22.69 | 3076.08 | 1 | |
| 116 | 7704.00 | 89.80 | 359.50 | 4843.00 | 3108.43 | -22.80 | 3108.08 | 2 | |
| 117 | 7736.00 | 90.00 | 359.10 | 4843.06 | 3140.43 | -23.19 | 3140.07 | 1 | |
| 118 | 7768.00 | 90.50 | 359.10 | 4842.92 | 3172.43 | -23.69 | 3172.06 | 2 | |
| 119 | 7800.00 | 90.80 | 358.70 | 4842.56 | 3204.42 | -24.31 | 3204.05 | 2 | |
| 120 | 7832.00 | 90.90 | 359.20 | 4842.08 | 3236.41 | -24.89 | 3236.03 | 2 | |
| 121 | 7864.00 | 90.80 | 359.80 | 4841.61 | 3268.40 | -25.17 | 3268.02 | 2 | |
| 122 | 7896.00 | 91.30 | 359.40 | 4841.04 | 3299.40 | -25.39 | 3299.01 | 2 | |
| 123 | 7927.00 | 90.90 | 359.40 | 4840.42 | 3331.39 | -25.73 | 3331.00 | 1 | |
| 124 | 7959.00 | 91.10 | 359.50 | 4839.87 | 3363.38 | -26.03 | 3362.99 | 1 | |
| 125 | 7991.00 | 91.50 | 358.80 | 4839.14 | 3395.37 | -26.51 | 3394.97 | 3 | |
| 126 | 8023.00 | 90.70 | 358.60 | 4838.53 | 3427.36 | -27.23 | 3426.95 | 3 | |
| 127 | 8055.00 | 89.80 | 359.10 | 4838.39 | 3459.35 | -27.87 | 3458.93 | 3 | |
| 128 | 8087.00 | 88.00 | 358.90 | 4839.00 | 3491.34 | -28.43 | 3490.91 | 6 | |
| 129 | 8119.00 | 88.00 | 359.40 | 4840.12 | 3523.31 | -28.91 | 3522.89 | 2 | |
| 130 | 8151.00 | 88.30 | 358.90 | 4841.15 | 3555.29 | -29.38 | 3554.86 | 2 | |
| 131 | 8183.00 | 88.40 | 359.30 | 4842.07 | 3587.28 | -29.88 | 3586.84 | 1 | |
| 132 | 8215.00 | 88.40 | 359.30 | 4842.96 | 3619.26 | -30.28 | 3618.82 | | |
| 133 | 8246.00 | 88.90 | 359.20 | 4843.69 | 3650.25 | -30.68 | 3649.80 | 2 | |
| 134 | 8278.00 | 88.90 | 359.00 | 4844.31 | 3682.24 | -31.18 | 3681.78 | 1 | |
| 135 | 8310.00 | 89.00 | 358.50 | 4844.90 | 3714.23 | -31.88 | 3713.76 | 2 | |
| 136 | 8342.00 | 91.00 | 358.40 | 4844.90 | 3746.21 | -32.75 | 3745.74 | 6 | |
| 137 | 8374.00 | 92.70 | 358.20 | 4843.86 | 3778.18 | -33.70 | 3777.70 | 5 | |
| 138 | 8406.00 | 92.80 | 357.30 | 4842.33 | 3810.12 | -34.95 | 3809.62 | 3 | |
| 139 | 8438.00 | 93.20 | 357.90 | 4840.65 | 3842.05 | -36.29 | 3841.54 | 2 | |
| 140 | 8470.00 | 93.10 | 357.60 | 4838.89 | 3873.98 | -37.54 | 3873.45 | 1 | |
| 141 | 8502.00 | 92.40 | 357.30 | 4837.36 | 3905.91 | -38.97 | 3905.37 | 2 | |
| 142 | 8534.00 | 92.60 | 356.80 | 4835.96 | 3937.83 | -40.61 | 3937.28 | 2 | |
| 143 | 8566.00 | 92.20 | 358.20 | 4834.62 | 3969.77 | -42.01 | 3969.20 | 5 | |
| 144 | 8598.00 | 92.00 | 357.50 | 4833.45 | 4001.73 | -43.20 | 4001.14 | 2 | |



RIG: Lariat Rig 45

WELL: Bernice 1-17H
 LOCATION: 200' FSL & 1,980' FWL of 17-T35S-R7W
 BHL: 1,720' FSL & 1,980' FWL of 8-T35S-R7W

Target Direction: 359 deg
 North/South Hard Line: -200
 East/West Hard Line: -1980



| STATION NUMBER | SURVEY DEPTH | INC | AZMTH | TVD | N-S | E-W | VERT. SECTION | DLS/100 |
|----------------|--------------|-------|--------|---------|---------|--------|---------------|---------|
| 145 | 8629.00 | 90.50 | 358.00 | 4832.77 | 4032.70 | -44.42 | 4032.10 | 5 |
| 146 | 8661.00 | 89.70 | 357.70 | 4832.72 | 4064.67 | -45.62 | 4064.06 | 3 |
| 147 | 8693.00 | 89.60 | 357.30 | 4832.91 | 4096.64 | -47.02 | 4096.02 | 1 |
| 148 | 8725.00 | 89.20 | 357.70 | 4833.25 | 4128.61 | -48.41 | 4127.97 | 2 |
| 149 | 8757.00 | 88.90 | 357.90 | 4833.78 | 4160.58 | -49.64 | 4159.93 | 1 |
| 150 | 8789.00 | 88.70 | 357.50 | 4834.45 | 4192.55 | -50.93 | 4191.88 | 1 |
| 151 | 8821.00 | 89.10 | 357.90 | 4835.06 | 4224.52 | -52.21 | 4223.84 | 2 |
| 152 | 8853.00 | 89.00 | 357.50 | 4835.59 | 4256.49 | -53.49 | 4255.80 | 1 |
| 153 | 8885.00 | 89.40 | 358.40 | 4836.04 | 4288.46 | -54.64 | 4287.76 | 3 |
| 154 | 8917.00 | 90.00 | 358.10 | 4836.21 | 4320.45 | -55.62 | 4319.73 | 2 |
| 155 | 8949.00 | 89.50 | 358.40 | 4836.35 | 4352.43 | -56.59 | 4351.71 | 2 |
| 156 | 8981.00 | 89.20 | 357.90 | 4836.71 | 4384.41 | -57.63 | 4383.68 | 2 |
| 157 | 9013.00 | 88.40 | 357.10 | 4837.38 | 4416.38 | -59.02 | 4415.62 | 4 |
| 158 | 9045.00 | 88.60 | 358.50 | 4838.22 | 4448.34 | -60.25 | 4447.58 | 4 |
| 159 | 9077.00 | 89.90 | 358.20 | 4838.64 | 4480.32 | -61.17 | 4479.55 | 4 |
| 160 | 9109.00 | 89.30 | 358.70 | 4838.86 | 4512.31 | -62.04 | 4511.53 | 2 |
| 161 | 9141.00 | 91.10 | 358.80 | 4838.75 | 4544.30 | -62.73 | 4543.51 | 6 |
| 162 | 9173.00 | 90.50 | 359.00 | 4838.30 | 4576.29 | -63.35 | 4575.49 | 2 |
| 163 | 9205.00 | 91.30 | 358.80 | 4837.80 | 4608.28 | -63.96 | 4607.48 | 3 |
| 164 | 9236.00 | 90.90 | 358.10 | 4837.21 | 4639.27 | -64.80 | 4638.45 | 3 |
| 165 | 9268.00 | 90.60 | 358.40 | 4836.79 | 4671.25 | -65.78 | 4670.42 | 1 |
| 166 | 9300.00 | 89.80 | 358.40 | 4836.67 | 4703.24 | -66.67 | 4702.40 | 2 |
| 167 | 9332.00 | 90.00 | 358.90 | 4836.73 | 4735.23 | -67.43 | 4734.38 | 2 |
| 168 | 9364.00 | 90.70 | 358.40 | 4836.54 | 4767.22 | -68.18 | 4766.36 | 3 |
| 169 | 9396.00 | 90.10 | 358.20 | 4836.31 | 4799.20 | -69.13 | 4798.34 | 2 |
| 170 | 9440.00 | 90.10 | 358.20 | 4836.23 | 4843.18 | -70.51 | 4842.30 | |
| 171 | 9486.00 | 90.10 | 358.20 | 4836.15 | 4889.16 | -71.96 | 4888.26 | |
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| 188 | | | | | | | | |

Summary of Changes

Lease Name and Number: Bernice 1-17H

API/Permit #: 15-077-21739-01-00

Doc ID: 1244714

Correction Number: 1

Approved By: NAOMI JAMES

| Field Name | Previous Value | New Value |
|--------------------------------|---|---|
| Approved Date | 11/08/2011 | 03/04/2015 |
| CasingNumbSacksUse dPDF_1 | 245 | 425 |
| CasingPurposeOfString PDF_3 | Prod Liner | Liner |
| Contractor Name | Lariat Services, Inc. | Lariat Services, Inc. dba Chaparral, Drilling, Fluids |
| Fracturing Question 1 | | Yes |
| Fracturing Question 2 | | Yes |
| Fracturing Question 3 | | Yes |
| LocationInfoLink | https://solar.kgs.ku.edu/ kcc/detail/locationInform ation.cfm?section=17&t | https://kolar.kgs.ku.edu/ kcc/detail/locationInform ation.cfm?section=17&t |
| Operator's Contact Name | Karen Sharp | Tiffany Golay |
| Save Link | ../../kcc/detail/operatorE ditDetail.cfm?docID=10 62041 | ../../kcc/detail/operatorE ditDetail.cfm?docID=12 44714 |

Summary of Attachments

Lease Name and Number: Bernice 1-17H

API: 15-077-21739-01-00

Doc ID: 1244714

Correction Number: 1

Attachment Name

Cement Reports



CONFIDENTIAL

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____