



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1079141
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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

1079141

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| | | | | |
|---|--|------------------------------|----------------------------------|---------------------------------|
| Drill Stem Tests Taken <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Electric Log Run | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| List All E. Logs Run: | | | | |

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

| | | |
|--|---|---|
| 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 | Isaac Farms 1-36H |
| Doc ID | 1079141 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|--|-------|
| 5 | 8950-9169 | 5296 bbls water, 36 bbls acid, 100M lbs sd, 5332 TLTR | |
| 5 | 8472-8779 | 5366 bbls water, 36 bbls acid, 100M lbs sd, 10868 TLTR | |
| 5 | 8126-8389 | 5260 bbls water, 35 bbls acid, 100M lbs sd, 16283 TLTR | |
| 5 | 7736-7996 | 5332 bbls water, 36 bbls acid, 100M lbs sd, 21756 TLTR | |
| 5 | 7346-7609 | 5193 bbls water, 36 bbls acid, 100M lbs sd, 27075 TLTR | |
| 5 | 6938-7273 | 5258 bbls water, 36 bbls acid, 100M lbs sd, 32436 TLTR | |
| 5 | 6520-6751 | 5239 bbls water, 36 bbls acid, 100M lbs sd, 37770 TLTR | |
| 5 | 6203-6440 | 5403 bbls water, 36 bbls acid, 100M lbs sd, 43173 TLTR | |
| 5 | 5784-6093 | 5230 bbls water, 36 bbls acid, 100M lbs sd, 48478 TLTR | |
| 5 | 5395-5658 | 5294 bbls water, 36 bbls acid, 100M lbs sd, 53828 TLTR | |

| | |
|-----------|--|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Isaac Farms 1-36H |
| Doc ID | 1079141 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|--|-------|
| 5 | 5005-5268 | 5095 bbls water, 36 bbls acid, 100M lbs sd, 58972 TLTR | |

| | |
|-----------|--|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Isaac Farms 1-36H |
| Doc ID | 1079141 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|-------------------|-------------------|-----------------|--------|---------------|---|----------------------|--|
| Conductor | 24 | 20 | 75 | 120 | Mid-Continent Conductor, LLC 8 sack grout | 10 | none |
| Surface | 12.25 | 9.63 | 36 | 1264 | Halliburton extendacem and swiftcem systems | 500 | 3% Calcium Chloride, .25 lbm Poly-E-Flake |
| Intermediate | 8.75 | 7 | 26 | 5357 | Halliburton Econocem and Halcem systems | 265 | .4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite |
| Liner | 6.12 | 4.5 | 11.6 | 9271 | Halliburton Econocem System | 450 | .4% hald(R)-9, 2lbm Kol-Seal, 2% Bentonite |

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 18, 2012

Tiffany Golay
SandRidge Exploration and Production LLC
123 ROBERT S. KERR AVE
OKLAHOMA CITY, OK 73102-6406

Re: ACO1
API 15-055-22135-01-00
Isaac Farms 1-36H
NW/4 Sec.36-22S-31W
Finney County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Tiffany Golay

SHAMROCK GAS ANALYSIS

LABORATORY REFERENCE NUMBER : H24192b.Q03672

SANDRIDGE ENERGY, INC.

ID: **KS03R0038**
 AREA: **KANSAS**
 METER: **ISAAC FARMS 1-36H**
 LEASE: **ISAAC FARMS 1-36H**
 OPERATOR: **SANDRIDGE**
 STATION: **KS03R0038**
 SAMPLE DATE: **6/14/2012**
 SAMPLE OF: **GAS**

LINE PRESSURE: **63 PSI**
 LINE TEMPERATURE: **96 F**
 CYLINDER NUMBER: **8519**
 EFFECTIVE DATE: **6/1/2012**
 SAMPLED BY: **D. PATTON**
 ANALYZED BY: **BRENNAN**
 ANALYZED DATE: **6/15/2012**
 SAMPLE TYPE: **SPOT**

For: **SANDRIDGE ENERGY, INC.**
 Attn: **JULIE COSTELLO**
123 ROBERT S. KERR AVENUE
OKLAHOMA CITY, OK 73102-6406

Physical Properties per GPA 2145-09

Calculations per GPA 2172-09

Note: Zero = Less than detection limit

| | MOL% | GPM @ 14.696 |
|------------------|---------|--------------|
| HYDROGEN | 0.000 | 0.000 |
| HELIUM | 2.941 | 0.298 |
| | | |
| HYDROGEN SULFIDE | 0.160 | 0.022 |
| NITROGEN | 53.189 | 5.833 |
| CARBON DIOXIDE | 6.622 | 1.126 |
| METHANE | 19.136 | 3.234 |
| ETHANE | 5.191 | 1.384 |
| PROPANE | 6.085 | 1.671 |
| ISOBUTANE | 1.754 | 0.572 |
| N-BUTANE | 2.676 | 0.841 |
| ISOPENTANE | 0.729 | 0.266 |
| N-PENTANE | 0.632 | 0.228 |
| HEXANES PLUS | 0.885 | 0.394 |
| | 100.000 | 15.869 |

| | BTU | Vol. Ideal | Vol. Real | PREVIOUS BTU | 6/7/2012 | Vol. Ideal | Vol. Real |
|--|---------------------------|------------|-----------|---------------------------|----------|------------|-----------|
| | | Gas Fuel | Gas Fuel | | | Gas Fuel | Gas Fuel |
| | BTU @ 14.65 PSIA (DRY) | 682.7 | 684.3 | BTU @ 14.65 PSIA (DRY) | | 619.7 | 620.9 |
| | BTU @ 14.65 PSIA (SAT.) | 670.7 | 672.6 | BTU @ 14.65 PSIA (SAT.) | | 608.8 | 610.3 |
| | Specific Gravity | 1.0257 | 1.0277 | | | | |
| | Compressibility (Z) | 0.9976 | | | | | |

Gasoline Content (Gallons Per Thousand - GPM)

| | |
|-------------------------------------|-------|
| Ethane & Heavier | 5.356 |
| Propane & Heavier | 3.972 |
| Butane & Heavier | 2.301 |
| Pentane & Heavier | 0.888 |
| Total 26 psi Reid V.P. Gasoline GPM | 1.334 |

Secondary BTU Psia Base

| | Vol. IDEAL | Vol. Real |
|----------------------------------|------------|-----------|
| | Gas Fuel | Gas Fuel |
| BTU @ 14.73 PSIA (DRY) | 686.4 | 688.1 |
| BTU @ 14.73 PSIA (SAT.) | 674.4 | 676.3 |
| Compressibility (Z) at 14.73 = | 0.9976 | |

Remarks: Field H2S ppm = 1600 RUSH SAMPLE
Remarks: 47-36-17 HEXANES SPLIT AS PER K. HARPER 05/02/11

SHAMROCK GAS ANALYSIS

LABORATORY REFERENCE NUMBER : H24192a.Q03672

SANDRIDGE ENERGY, INC.

ID: **KS03R0038**
 AREA: **KANSAS**
 METER: **ISAAC FARMS 1-36H**
 LEASE: **ISAAC FARMS 1-36H**
 OPERATOR: **SANDRIDGE**
 STATION: **KS03R0038**
 SAMPLE DATE: **6/14/2012**
 SAMPLE OF: **GAS**

LINE PRESSURE: **63 PSI**
 LINE TEMPERATURE: **96 F**
 CYLINDER NUMBER: **8519**
 EFFECTIVE DATE: **6/1/2012**
 SAMPLED BY: **D. PATTON**
 ANALYZED BY: **BRENNAN**
 ANALYZED DATE: **6/15/2012**
 SAMPLE TYPE: **SPOT**

For: **SANDRIDGE ENERGY, INC.**
 Attn: **JULIE COSTELLO**
 123 ROBERT S. KERR AVENUE

OKLAHOMA CITY, OK 73102-6406

Physical Properties per GPA 2145-09

Calculations per GPA 2172-09

Note: Zero = Less than detection limit

| | <u>MOL%</u> | <u>GPM @ 14.696</u> |
|------------------|-------------|---------------------|
| HYDROGEN SULFIDE | 0.160 | 0.022 |
| NITROGEN | 54.805 | 6.011 |
| CARBON DIOXIDE | 6.823 | 1.161 |
| METHANE | 19.716 | 3.332 |
| ETHANE | 5.348 | 1.426 |
| PROPANE | 6.269 | 1.722 |
| ISOBUTANE | 1.807 | 0.589 |
| N-BUTANE | 2.758 | 0.867 |
| ISOPENTANE | 0.751 | 0.274 |
| N-PENTANE | 0.651 | 0.235 |
| HEXANES PLUS | 0.912 | 0.406 |
| | 100.000 | 16.045 |

| | <u>BTU</u> | <u>Vol. IDEAL</u> | <u>Vol. Real</u> | <u>PREVIOUS BTU</u> | <u>6/7/2012</u> | <u>Vol. Ideal</u> | <u>Vol. Real</u> |
|---------------------------|------------|-------------------|------------------|---------------------------|-----------------|-------------------|------------------|
| | | <u>Gas Fuel</u> | <u>Gas Fuel</u> | | | <u>Gas Fuel</u> | <u>Gas Fuel</u> |
| BTU @ 14.65 PSIA (DRY) | | 703.3 | 705.2 | BTU @ 14.65 PSIA (DRY) | | 634.1 | 635.5 |
| BTU @ 14.65 PSIA (SAT.) | | 691.0 | 693.1 | BTU @ 14.65 PSIA (SAT.) | | 623.0 | 624.6 |
| Specific Gravity | | 1.0526 | 1.0548 | | | | |
| Compressibility (Z) | | | 0.9974 | | | | |

Gasoline Content (Gallons Per Thousand - GPM)

| | |
|-------------------------------------|-------|
| Ethane & Heavier | 5.519 |
| Propane & Heavier | 4.093 |
| Butane & Heavier | 2.371 |
| Pentane & Heavier | 0.915 |
| Total 26 psi Reid V.P. Gasoline GPM | 1.375 |

Secondary BTU Psia Base

| | <u>Vol. IDEAL</u> | <u>Vol. Real</u> |
|----------------------------------|-------------------|------------------|
| | <u>Gas Fuel</u> | <u>Gas Fuel</u> |
| BTU @ 14.73 PSIA (DRY) | 707.2 | 709.0 |
| BTU @ 14.73 PSIA (SAT.) | 694.8 | 696.9 |
| Compressibility (Z) at 14.73 = | 0.9974 | |

Remarks: Field H2S ppm = 1600 RUSH SAMPLE HELIUM: 3.035%

Remarks: 47-36-17 HEXANES SPLIT AS PER K. HARPER 05/02/11

SHAMROCK GAS ANALYSIS

LABORATORY REFERENCE NUMBER : P09399.Q03668

SANDRIDGE ENERGY, INC.

ID: **KS03R0038**
 AREA: **KANSAS**
 METER: **ISAAC FARMS 1-36H**
 LEASE: **ISAAC FARMS 1-36H**
 OPERATOR: **SANDRIDGE**
 STATION: **KS03R0038**
 SAMPLE DATE: **6/7/2012**
 SAMPLE OF: **GAS**

LINE PRESSURE: **36.97 PSI**
 LINE TEMPERATURE: **68.47 F**
 CYLINDER NUMBER: **8950**
 EFFECTIVE DATE: **6/1/2012**
 SAMPLED BY: **ND-AMS**
 ANALYZED BY: **BRENNAN**
 ANALYZED DATE: **6/13/2012**
 SAMPLE TYPE: **SPOT**

For: **SANDRIDGE ENERGY, INC.**
 Attn: **JULIE COSTELLO**
 123 ROBERT S. KERR AVENUE
 OKLAHOMA CITY, OK 73102-6406

Physical Properties per GPA 2145-09

Calculations per GPA 2172-09

Note: Zero = Less than detection limit

| | MOL% | GPM @ 14.696 |
|----------------|---------|--------------|
| HYDROGEN | 0.000 | 0.000 |
| | | |
| NITROGEN | 58.481 | 6.411 |
| CARBON DIOXIDE | 5.176 | 0.880 |
| METHANE | 20.925 | 3.535 |
| ETHANE | 4.420 | 1.178 |
| PROPANE | 5.162 | 1.417 |
| ISOBUTANE | 1.498 | 0.488 |
| N-BUTANE | 2.275 | 0.715 |
| ISOPENTANE | 0.628 | 0.229 |
| N-PENTANE | 0.561 | 0.203 |
| HEXANES PLUS | 0.874 | 0.389 |
| | 100.000 | 15.445 |

| BTU | Vol. Ideal Gas Fuel | Vol. Real Gas Fuel |
|---------------------------|------------------------|-----------------------|
| BTU @ 14.65 PSIA (DRY) | 634.1 | 635.5 |
| BTU @ 14.65 PSIA (SAT.) | 623.0 | 624.6 |
| Specific Gravity | 1.0190 | 1.0207 |
| Compressibility (Z) | 0.9979 | |

Gasoline Content (Gallons Per Thousand - GPM)

| | |
|-------------------------------------|-------|
| Ethane & Heavier | 4.619 |
| Propane & Heavier | 3.441 |
| Butane & Heavier | 2.024 |
| Pentane & Heavier | 0.821 |
| Total 26 psi Reid V.P. Gasoline GPM | 1.243 |

Secondary BTU Psia Base

| | |
|----------------------------------|--------|
| BTU @ 14.73 PSIA (DRY) | |
| BTU @ 14.73 PSIA (SAT.) | |
| Compressibility (Z) at 14.73 = | 0.9978 |

| Vol. IDEAL Gas Fuel | Vol. Real Gas Fuel |
|------------------------|-----------------------|
| 637.6 | 639.0 |
| 626.4 | 628.0 |

Remarks: NO PREVIOUS BTU AVAILABLE RUSH SAMPLE
Remarks: RAW DATA: 2.338% HELIUM 47-36-17 HEXANES SPLIT AS PER K. HARPER 05/02/11

SHAMROCK GAS ANALYSIS

LABORATORY REFERENCE NUMBER : P09399.Q03668

SANDRIDGE ENERGY, INC.

ID: **KS03R0038**
 AREA: **KANSAS**
 METER: **ISAAC FARMS 1-36H**
 LEASE: **ISAAC FARMS 1-36H**
 OPERATOR: **SANDRIDGE**
 STATION: **KS03R0038**
 SAMPLE DATE: **6/7/2012**
 SAMPLE OF: **GAS**

LINE PRESSURE: **36.97 PSI**
 LINE TEMPERATURE: **68.47 F**
 CYLINDER NUMBER: **8950**
 EFFECTIVE DATE: **6/1/2012** ✓
 SAMPLED BY: **ND-AMS**
 ANALYZED BY: **BRENNAN**
 ANALYZED DATE: **6/13/2012**
 SAMPLE TYPE: **SPOT**

For: **SANDRIDGE ENERGY, INC.**
 Attn: **JULIE COSTELLO**
123 ROBERT S. KERR AVENUE
OKLAHOMA CITY, OK 73102-6406

Physical Properties per GPA 2145-09

Calculations per GPA 2172-09

Note: Zero = Less than detection limit

| | MOL% | GPM @ 14.696 |
|----------------|---------|--------------|
| HYDROGEN | 0.000 | 0.000 |
| HELIUM | 2.285 | 0.231 |
| | | |
| NITROGEN | 57.144 | 6.264 |
| CARBON DIOXIDE | 5.058 | 0.860 |
| METHANE | 20.447 | 3.454 |
| ETHANE | 4.319 | 1.151 |
| PROPANE | 5.044 | 1.385 |
| ISOBUTANE | 1.464 | 0.477 |
| N-BUTANE | 2.223 | 0.698 |
| ISOPENTANE | 0.614 | 0.224 |
| N-PENTANE | 0.548 | 0.198 |
| HEXANES PLUS | 0.854 | 0.380 |
| | 100.000 | 15.322 |

| BTU | Vol. Ideal Gas Fuel | Vol. Real Gas Fuel |
|---------------------------|------------------------|-----------------------|
| BTU @ 14.65 PSIA (DRY) | 619.7 | 620.9 |
| BTU @ 14.65 PSIA (SAT.) | 608.8 | 610.3 |
| Specific Gravity | 0.9988 | 1.0005 |
| Compressibility (Z) | 0.9980 | |

Gasoline Content (Gallons Per Thousand - GPM)

| | |
|-------------------------------------|-------|
| Ethane & Heavier | 4.513 |
| Propane & Heavier | 3.362 |
| Butane & Heavier | 1.977 |
| Pentane & Heavier | 0.802 |
| Total 26 psi Reid V.P. Gasoline GPM | 1.215 |

Secondary BTU Psia Base

| | |
|----------------------------------|--------|
| BTU @ 14.73 PSIA (DRY) | 623.0 |
| BTU @ 14.73 PSIA (SAT.) | 612.1 |
| Compressibility (Z) at 14.73 = | 0.9979 |

| Vol. IDEAL Gas Fuel | Vol. Real Gas Fuel |
|------------------------|-----------------------|
| 623.0 | 624.3 |
| 612.1 | 613.6 |

Remarks: NO PREVIOUS BTU AVAILABLE RUSH SAMPLE
Remarks: RAW DATA: 2.338% HELIUM 47-36-17 HEXANES SPLIT AS PER K. HARPER 05/02/11

Archer Directional Drilling Services

Sandridge Energy, INC.(mid-con.)
 Isaac Farms 1-36H - Archer Survey

Finney County (KS27S)
 Sec 36-T22S-R31W
 Your Ref:

| Measured Depth (ft) | Incl. | Azim. | Vertical Depth (ft) | Northings (ft) | Eastings (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) |
|---------------------------|-------|-------|---------------------------|-------------------|------------------|-----------------------------|-----------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 284 | 0.6 | 328.1 | 283.99 | 1.26 | -0.79 | -1.25 | 0.21 |
| 720 | 0.3 | 328.1 | 719.98 | 4.17 | -2.6 | -4.13 | 0.07 |
| 1186 | 0.8 | 328.1 | 1185.96 | 7.97 | -4.96 | -7.88 | 0.11 |
| 1391 | 0.8 | 328.1 | 1390.94 | 10.4 | -6.47 | -10.29 | 0 |
| 1861 | 0.9 | 320.9 | 1860.89 | 16.05 | -10.53 | -15.87 | 0.03 |
| 2327 | 0.9 | 294.5 | 2326.83 | 20.41 | -16.17 | -20.14 | 0.09 |
| 2796 | 0.8 | 284.7 | 2795.78 | 22.76 | -22.69 | -22.39 | 0.04 |
| 3272 | 0.5 | 281.5 | 3271.75 | 24.02 | -27.94 | -23.56 | 0.06 |
| 3749 | 0.3 | 283.1 | 3748.74 | 24.72 | -31.2 | -24.2 | 0.04 |
| 3909 | 0.3 | 254.9 | 3908.73 | 24.7 | -32.01 | -24.17 | 0.09 |
| 3941 | 0.3 | 165.4 | 3940.73 | 24.6 | -32.07 | -24.07 | 1.32 |
| 3973 | 1.5 | 153 | 3972.73 | 24.15 | -31.86 | -23.62 | 3.78 |
| 4005 | 3.6 | 166.4 | 4004.7 | 22.8 | -31.43 | -22.28 | 6.78 |
| 4037 | 6.3 | 172 | 4036.57 | 20.08 | -30.95 | -19.57 | 8.56 |
| 4068 | 9 | 172.2 | 4067.3 | 15.99 | -30.38 | -15.49 | 8.71 |
| 4100 | 11.3 | 170.6 | 4098.79 | 10.42 | -29.53 | -9.93 | 7.24 |
| 4132 | 13.4 | 171 | 4130.05 | 3.66 | -28.44 | -3.19 | 6.57 |
| 4164 | 15.9 | 171.5 | 4161.01 | -4.33 | -27.21 | 4.78 | 7.82 |
| 4196 | 18 | 170.8 | 4191.62 | -13.55 | -25.77 | 13.97 | 6.59 |
| 4228 | 20.3 | 172 | 4221.84 | -23.93 | -24.21 | 24.33 | 7.29 |
| 4260 | 22.5 | 174 | 4251.64 | -35.52 | -22.8 | 35.89 | 7.24 |
| 4291 | 24.7 | 175.3 | 4280.04 | -47.87 | -21.65 | 48.22 | 7.29 |
| 4323 | 26.2 | 176.7 | 4308.94 | -61.59 | -20.69 | 61.92 | 5.05 |
| 4355 | 27.9 | 177.8 | 4337.43 | -76.13 | -20 | 76.45 | 5.54 |
| 4387 | 29.9 | 178 | 4365.45 | -91.58 | -19.43 | 91.89 | 6.26 |
| 4419 | 31.7 | 178.4 | 4392.93 | -107.96 | -18.92 | 108.25 | 5.66 |
| 4451 | 33.7 | 178.6 | 4419.86 | -125.24 | -18.47 | 125.52 | 6.26 |
| 4483 | 35.7 | 178.7 | 4446.17 | -143.45 | -18.04 | 143.73 | 6.25 |
| 4515 | 37.1 | 179.2 | 4471.92 | -162.43 | -17.69 | 162.7 | 4.47 |
| 4547 | 39.3 | 178.9 | 4497.07 | -182.22 | -17.36 | 182.48 | 6.9 |
| 4579 | 42.3 | 178 | 4521.29 | -203.12 | -16.79 | 203.37 | 9.55 |

| | | | | | | | |
|------|------|-------|---------|----------|--------|---------|-------|
| 4611 | 44.4 | 177.5 | 4544.56 | -225.07 | -15.93 | 225.3 | 6.65 |
| 4643 | 46.1 | 177.3 | 4567.09 | -247.77 | -14.9 | 247.98 | 5.33 |
| 4675 | 48.2 | 177 | 4588.85 | -271.2 | -13.73 | 271.39 | 6.6 |
| 4707 | 50.8 | 176.5 | 4609.63 | -295.49 | -12.35 | 295.65 | 8.21 |
| 4739 | 51.6 | 176.6 | 4629.68 | -320.38 | -10.85 | 320.52 | 2.51 |
| 4771 | 51.8 | 176.2 | 4649.51 | -345.44 | -9.27 | 345.55 | 1.16 |
| 4803 | 52 | 175.8 | 4669.26 | -370.57 | -7.51 | 370.64 | 1.17 |
| 4835 | 51.8 | 176.2 | 4689 | -395.69 | -5.76 | 395.73 | 1.17 |
| 4867 | 51.9 | 175.5 | 4708.77 | -420.78 | -3.93 | 420.79 | 1.75 |
| 4899 | 52 | 175.8 | 4728.49 | -445.91 | -2.02 | 445.88 | 0.8 |
| 4931 | 53.5 | 176.4 | 4747.86 | -471.32 | -0.29 | 471.26 | 4.92 |
| 4963 | 56 | 176.7 | 4766.33 | -497.41 | 1.28 | 497.32 | 7.85 |
| 4995 | 58.5 | 177.8 | 4783.64 | -524.29 | 2.57 | 524.17 | 8.33 |
| 5027 | 61.6 | 178.1 | 4799.61 | -551.99 | 3.56 | 551.86 | 9.72 |
| 5059 | 66 | 178 | 4813.74 | -580.68 | 4.53 | 580.53 | 13.75 |
| 5091 | 69.7 | 177.9 | 4825.8 | -610.29 | 5.59 | 610.12 | 11.57 |
| 5123 | 71.7 | 177.8 | 4836.38 | -640.47 | 6.73 | 640.27 | 6.26 |
| 5155 | 74 | 177.9 | 4845.81 | -671.03 | 7.87 | 670.81 | 7.19 |
| 5187 | 77 | 177.7 | 4853.82 | -701.98 | 9.06 | 701.74 | 9.39 |
| 5218 | 80.4 | 177.3 | 4859.9 | -732.35 | 10.39 | 732.07 | 11.04 |
| 5250 | 83 | 177.9 | 4864.52 | -763.98 | 11.72 | 763.68 | 8.33 |
| 5282 | 84.8 | 178.4 | 4867.92 | -795.78 | 12.74 | 795.46 | 5.84 |
| 5310 | 87.3 | 178.5 | 4869.85 | -823.7 | 13.5 | 823.37 | 8.94 |
| 5379 | 90.9 | 177.2 | 4870.93 | -892.63 | 16.09 | 892.25 | 5.55 |
| 5411 | 91.2 | 177.2 | 4870.34 | -924.59 | 17.65 | 924.17 | 0.94 |
| 5443 | 90.9 | 178.3 | 4869.76 | -956.56 | 18.91 | 956.12 | 3.56 |
| 5474 | 90 | 178.8 | 4869.51 | -987.55 | 19.69 | 987.09 | 3.32 |
| 5506 | 89.9 | 179.4 | 4869.54 | -1019.54 | 20.19 | 1019.07 | 1.9 |
| 5538 | 90.1 | 179.2 | 4869.54 | -1051.54 | 20.58 | 1051.06 | 0.88 |
| 5570 | 90.3 | 179.4 | 4869.43 | -1083.54 | 20.97 | 1083.04 | 0.88 |
| 5602 | 90.5 | 179.4 | 4869.21 | -1115.54 | 21.31 | 1115.03 | 0.62 |
| 5634 | 90.8 | 179.7 | 4868.84 | -1147.53 | 21.56 | 1147.02 | 1.33 |
| 5666 | 90.9 | 179.7 | 4868.37 | -1179.53 | 21.73 | 1179.01 | 0.31 |
| 5698 | 91 | 180.1 | 4867.84 | -1211.52 | 21.78 | 1211 | 1.29 |
| 5730 | 90.9 | 179.9 | 4867.31 | -1243.52 | 21.78 | 1242.99 | 0.7 |
| 5762 | 91.1 | 179.7 | 4866.75 | -1275.51 | 21.9 | 1274.98 | 0.88 |
| 5794 | 90.4 | 180.1 | 4866.33 | -1307.51 | 21.95 | 1306.97 | 2.52 |
| 5858 | 90.8 | 180.7 | 4865.66 | -1371.51 | 21.5 | 1370.96 | 1.13 |
| 5953 | 91.2 | 180.3 | 4864 | -1466.49 | 20.68 | 1465.95 | 0.6 |
| 6049 | 90.5 | 180.5 | 4862.58 | -1562.47 | 20.01 | 1561.93 | 0.76 |
| 6144 | 91.8 | 181.2 | 4860.67 | -1657.44 | 18.6 | 1656.91 | 1.55 |
| 6240 | 89.8 | 181 | 4859.33 | -1753.41 | 16.75 | 1752.89 | 2.09 |
| 6336 | 89.6 | 181 | 4859.83 | -1849.39 | 15.08 | 1848.89 | 0.21 |
| 6431 | 89.8 | 181.8 | 4860.33 | -1944.36 | 12.76 | 1943.89 | 0.87 |
| 6527 | 89.7 | 182.1 | 4860.75 | -2040.31 | 9.49 | 2039.87 | 0.33 |
| 6623 | 90.4 | 182.2 | 4860.67 | -2136.24 | 5.89 | 2135.85 | 0.74 |
| 6719 | 90.6 | 181.5 | 4859.83 | -2232.18 | 2.79 | 2231.83 | 0.76 |

| | | | | | | | |
|------|------|-------|---------|----------|--------|---------|------|
| 6815 | 90.1 | 182.2 | 4859.24 | -2328.13 | -0.31 | 2327.82 | 0.9 |
| 6911 | 90.2 | 182.3 | 4858.99 | -2424.06 | -4.08 | 2423.79 | 0.15 |
| 7007 | 90.6 | 182.9 | 4858.32 | -2519.96 | -8.43 | 2519.75 | 0.75 |
| 7102 | 89.6 | 182.9 | 4858.15 | -2614.83 | -13.24 | 2614.69 | 1.05 |
| 7198 | 90.3 | 183.4 | 4858.24 | -2710.69 | -18.51 | 2710.62 | 0.9 |
| 7294 | 90.9 | 183.6 | 4857.23 | -2806.5 | -24.37 | 2806.52 | 0.66 |
| 7390 | 89.8 | 182.7 | 4856.65 | -2902.35 | -29.65 | 2902.45 | 1.48 |
| 7485 | 89.6 | 182.6 | 4857.14 | -2997.25 | -34.04 | 2997.4 | 0.24 |
| 7580 | 88.2 | 182.3 | 4858.97 | -3092.14 | -38.1 | 3092.35 | 1.51 |
| 7676 | 88.7 | 181.4 | 4861.56 | -3188.06 | -41.2 | 3188.3 | 1.07 |
| 7771 | 90.1 | 179.3 | 4862.56 | -3283.04 | -41.78 | 3283.28 | 2.66 |
| 7867 | 91 | 180.1 | 4861.64 | -3379.03 | -41.28 | 3379.25 | 1.25 |
| 7963 | 91.6 | 179.6 | 4859.46 | -3475.01 | -41.03 | 3475.21 | 0.81 |
| 8058 | 92.2 | 179.4 | 4856.31 | -3569.95 | -40.2 | 3570.13 | 0.67 |
| 8154 | 91.7 | 179.6 | 4853.04 | -3665.89 | -39.36 | 3666.04 | 0.56 |
| 8250 | 89.7 | 179.5 | 4851.87 | -3761.88 | -38.61 | 3762 | 2.09 |
| 8345 | 89.3 | 179.6 | 4852.7 | -3856.87 | -37.86 | 3856.97 | 0.43 |
| 8441 | 89.4 | 180 | 4853.79 | -3952.86 | -37.52 | 3952.94 | 0.43 |
| 8537 | 89.1 | 180.2 | 4855.04 | -4048.85 | -37.69 | 4048.92 | 0.38 |
| 8633 | 90.5 | 180.2 | 4855.38 | -4144.85 | -38.03 | 4144.91 | 1.46 |
| 8729 | 90.5 | 180.6 | 4854.54 | -4240.84 | -38.7 | 4240.91 | 0.42 |
| 8824 | 90.4 | 180.5 | 4853.8 | -4335.84 | -39.61 | 4335.9 | 0.15 |
| 8919 | 90.5 | 179.6 | 4853.05 | -4430.83 | -39.69 | 4430.88 | 0.95 |
| 9015 | 91.1 | 178.6 | 4851.71 | -4526.81 | -38.18 | 4526.82 | 1.21 |
| 9111 | 91.5 | 178.4 | 4849.53 | -4622.75 | -35.67 | 4622.71 | 0.47 |
| 9217 | 91.9 | 177.3 | 4846.39 | -4728.63 | -31.7 | 4728.51 | 1.1 |
| 9271 | 91.9 | 177.3 | 4844.6 | -4782.54 | -29.15 | 4782.37 | 0 |

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to WELL. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 180.946° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), Kansas South 1 Central meridian is -98.500°.

Grid Convergence at Surface is -1.340°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 9271.00ft., the Bottom Hole Displacement is 4782.63ft., in the Direction of 180.946° (Grid).



Invoice

P.O. Box 1570
Woodward, OK 73802

Phone: (580)254-5400
Fax: (580)254-3242

| Date | Invoice # |
|-----------|-----------|
| 4/11/2012 | 1280 |

| |
|--|
| Bill To |
| SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102 |

| Ordered By | Terms | Date of Service | Lease Name/Legal Desc. | Drilling Rig |
|------------|--------|-----------------|------------------------------------|--------------|
| Lawrence | Net 45 | 4/11/2012 | Isaac Farms 1-36H, Finney Cnty, KS | Lariat 3 |

| Item | Quantity | Description |
|------------------------|----------|---|
| Conductor Hole | 102 | Drilled 102 ft. conductor hole. |
| 20" Pipe | 102 | Furnished 102 ft. of 20 inch conductor pipe. |
| Mouse Hole | 80 | Drilled 80 ft. mouse hole. |
| 16" Pipe | 80 | Furnished 80 ft. of 16 inch mouse hole pipe. |
| Cellar Hole | 1 | Drilled 6x6 cellar hole. |
| 6' X 6' Tinhorn | 1 | Furnished and set 6x6 tinhorn. |
| Mud and Water | 1 | Furnished mud and water. |
| Mud, Water, & Trucking | 1 | Transport mud and water to location. |
| Grout & Trucking | 10 | Furnished 10 yards of grout and trucking to location. |
| Grout Pump | 1 | Furnished grout pump. |
| Welder & Materials | 1 | Furnished welder and materials. |
| Dirt Removal | 1 | Labor and equipment for dirt removal. |
| Cover Plate | 1 | Furnished cover plates. |
| Permits | 1 | Permits |

| | |
|-------------------------|-------------|
| Subtotal | \$24,014.00 |
| Sales Tax (0.0%) | \$0.00 |

| | |
|--------------|--------------------|
| Total | \$24,014.00 |
|--------------|--------------------|

The Road to Excellence Starts with Safety

| | | | |
|--|-------------------------|--------------------------------------|------------------------|
| Sold To #: 305021 | Ship To #: 2922622 | Quote #: | Sales Order #: 9454506 |
| Customer: SANDRIDGE ENERGY INC EBUSINESS | | Customer Rep: Ivey, Ronnie | |
| Well Name: Isaac Farms | Well #: 1-36H | API/UWI #: 15-055-22135 | |
| Field: | City (SAP): GARDEN CITY | County/Parish: Finney | State: Kansas |
| Legal Description: Section 36 Township 22S Range 31W | | | |
| Contractor: Lariat | | Rig/Platform Name/Num: 3 | |
| Job Purpose: Cement Surface Casing | | | |
| Well Type: Development Well | | Job Type: Cement Surface Casing | |
| Sales Person: NGUYEN, VINH | | Srvc Supervisor: VILLANUEVA, EDUARDO | MBU ID Emp #: 341956 |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|------------------------|---------|--------|--------------------------|---------|--------|-------------------|---------|--------|
| MENDOZA, VICTOR | 26 | 442596 | MOORE, JEFFREY Dustin | 26 | 491132 | RAMIREZ, JORGE M. | 26 | 498481 |
| VILLANUEVA, EDUARDO | 26 | 341956 | | | | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10243558 | 178 mile | 10741245 | 178 mile | 10804587 | 178 mile | 10825440 | 178 mile |
| 10924982 | 178 mile | 11706682 | 178 mile | 11715799 | 178 mile | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|--------------|-------------------|-----------------|---|-------------------|-----------------|------|-------------------|-----------------|
| 4-20-2012 | 14 | | 4-21-2012 | 12 | 3 | | | |
| TOTAL | | | <i>Total is the sum of each column separately</i> | | | | | |

Job

Job Times

| Formation Name | Top | Bottom | Called Out | Date | Time | Time Zone |
|------------------------|----------|-------------------|---------------|-----------------|-------|-----------|
| Formation Depth (MD) | | | On Location | 20 - Apr - 2012 | 06:30 | CST |
| Form Type | BHST | | Job Started | 20 - Apr - 2012 | 13:00 | CST |
| Job depth MD | 1315. ft | Job Depth TVD | Job Started | 21 - Apr - 2012 | 07:30 | CST |
| Water Depth | | Wk Ht Above Floor | Job Completed | 21 - Apr - 2012 | 10:00 | CST |
| Perforation Depth (MD) | From | To | Departed Loc | 21 - Apr - 2012 | 12:00 | CST |

Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| 12.25" Open Hole | | | | 12.25 | | | | . | 1000. | | |
| 12.25" Open Hole- Lower | | | | 12.25 | | | | 1000. | 1315. | | |
| 9.625" Surface Casing | Unknown | | 9.625 | 8.921 | 36. | LTC | J-55 | . | 1315. | | |

Sales/Rental/3rd Party (HES)

| Description | Qty | Qty uom | Depth | Supplier |
|--|-----|---------|-------|----------|
| PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA | 1 | EA | | |

Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|------|-----|------|
| Guide Shoe | | | | | Packer | | | | | Top Plug | | | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| Stage Tool | | | | | | | | | | Centralizers | | | |

Miscellaneous Materials

| Gelling Agt | Conc | Surfactant | Conc | Acid Type | Qty | Conc | % |
|---------------|------|------------|------|-----------|------|------|---|
| Treatment Fld | Conc | Inhibitor | Conc | Sand Type | Size | Qty | |

| Fluid Data | | | | | | | | | | |
|---|--------------|---|--------|-----------------------------------|------------------------|---------------------------|---------------------|--------------|------------------------|-----------|
| Stage/Plug #: 1 | | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk | |
| 1 | Fresh Water | | 10.00 | bbl | 8.33 | .0 | .0 | .0 | | |
| 2 | Lead Cement | EXTENDACEM (TM) SYSTEM (452981) | 350.0 | sacks | 12.4 | 2.12 | 11.68 | | 11.68 | |
| | 3 % | CALCIUM CHLORIDE, PELLET, 50 LB (101509387) | | | | | | | | |
| | 0.25 lbm | POLY-E-FLAKE (101216940) | | | | | | | | |
| | 11.676 Gal | FRESH WATER | | | | | | | | |
| 3 | Tail Cement | SWIFTCEM (TM) SYSTEM (452990) | 150.0 | sacks | 15.6 | 1.2 | 5.32 | | 5.32 | |
| | 2 % | CALCIUM CHLORIDE, PELLET, 50 LB (101509387) | | | | | | | | |
| | 0.125 lbm | POLY-E-FLAKE (101216940) | | | | | | | | |
| | 5.319 Gal | FRESH WATER | | | | | | | | |
| 4 | Displacement | | 98.00 | bbl | 8.33 | .0 | .0 | .0 | | |
| Calculated Values | | Pressures | | | Volumes | | | | | |
| Displacement | 98 | Shut In: Instant | | | Lost Returns | NO | Cement Slurry | | 164 | Pad |
| Top Of Cement | SURFACE | 5 Min | | | Cement Returns | 50 | Actual Displacement | | 98 | Treatment |
| Frac Gradient | | 15 Min | | | Spacers | 10 | Load and Breakdown | | | Total Job |
| Rates | | | | | | | | | | |
| Circulating | 5 | Mixing | | 5.5 | Displacement | 5.5 | Avg. Job | | 5 | |
| Cement Left In Pipe | Amount | 42 ft | Reason | Shoe Joint | | | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | | |

The Road to Excellence Starts with Safety

| | | | |
|--|--------------------------|--|------------------------|
| Sold To #: 305021 | Ship To #: 2922622 | Quote #: | Sales Order #: 9469169 |
| Customer: SANDRIDGE ENERGY INC EBUSINESS | | Customer Rep: Ivey, Ronnie | |
| Well Name: Isaac Farms | Well #: 1-36H | API/UWI #: 15-055-22135 | |
| Field: | City (SAP): GARDEN CITY | County/Parish: Finney | State: Kansas |
| Legal Description: Section 36 Township 22S Range 31W | | | |
| Contractor: Lariat | Rig/Platform Name/Num: 3 | | |
| Job Purpose: Cement Intermediate Casing | | | |
| Well Type: Development Well | | Job Type: Cement Intermediate Casing | |
| Sales Person: NGUYEN, VINH | | Srcv Supervisor: RALSTON, ANTHONY MBU ID Emp #: 448065 | |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|-------------------------|---------|--------|-----------------------------|---------|--------|------------------|---------|--------|
| HAGEE, MILES Killion | 12 | 427231 | RALSTON, ANTHONY Kenneth | 12 | 448065 | RAMIREZ, JORGE M | 12 | 498481 |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10866807 | 70 mile | 10990703 | 270 mile | 10995019 | 270 mile | 11133700 | 270 mile |
| 11748315 | 70 mile | | | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|---------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 4/29/12 | 12 | 2.5 | | | | | | |

TOTAL Total is the sum of each column separately

Job

Job Times

| Formation Name | Top | Bottom | Called Out | Date | Time | Time Zone |
|------------------------|----------|-------------------|---------------|-----------------|-------|-----------|
| Formation Depth (MD) | | | On Location | 28 - Apr - 2012 | 23:00 | CST |
| Form Type | | BHST | On Location | 29 - Apr - 2012 | 06:00 | CST |
| Job depth MD | 5357. ft | Job Depth TVD | Job Started | 29 - Apr - 2012 | 14:14 | CST |
| Water Depth | | Wk Ht Above Floor | Job Completed | 29 - Apr - 2012 | 15:16 | CST |
| Perforation Depth (MD) | From | To | Departed Loc | 29 - Apr - 2012 | 18:00 | CST |

Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|------------------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| 8.75" Open Hole | | | | 8.75 | | | | 1266. | 5357. | | |
| 7" Intermediate Casing | Unknown | | 7. | 6.276 | 26. | LTC | P-110 | . | 5360 | | |
| 9.625" Surface Casing | Unknown | | 9.625 | 8.921 | 36. | LTC | J-55 | . | 1266. | | |

Sales/Rental/3rd Party (HES)

| Description | Qty | Qty uom | Depth | Supplier |
|--|-----|---------|-------|----------|
| PLUG,CMTG, TOP, 7,HWE,5.66 MIN/6.54 MAX CS | 1 | EA | | HES |

Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|------|-----|------|
| Guide Shoe | | | | | Packer | | | | | Top Plug | 7 | 1 | HES |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | 7 | 1 | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | 7 | 1 | HES |
| Stage Tool | | | | | | | | | | Centralizers | | | |

Miscellaneous Materials

| Gelling Agt | Conc | Surfactant | Conc | Acid Type | Qty | Conc | % |
|---------------|------|------------|------|-----------|------|------|---|
| Treatment Fld | Conc | Inhibitor | Conc | Sand Type | Size | Qty | |

Fluid Data

Stage/Plug #: 1

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|---|--------------|-------------------------------|--------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| 1 | Fresh Water | | 10.00 | bbl | 8.33 | .0 | .0 | 3.5 | |
| 2 | Lead Cement | ECONOCEM (TM) SYSTEM (452992) | 165.0 | sacks | 13.6 | 1.54 | 7.36 | 6.1 | 7.36 |
| | 0.4 % | HALAD(R)-9, 50 LB (100001617) | | | | | | | |
| | 2 lbm | KOL-SEAL, BULK (100064233) | | | | | | | |
| | 2 % | BENTONITE, BULK (100003682) | | | | | | | |
| | 7.356 Gal | FRESH WATER | | | | | | | |
| 3 | Tail Cement | HALCEM (TM) SYSTEM (452986) | 100.0 | sacks | 15.6 | 1.18 | 5.2 | 5.5 | 5.2 |
| | 0.4 % | HALAD(R)-9, 50 LB (100001617) | | | | | | | |
| | 5.197 Gal | FRESH WATER | | | | | | | |
| 4 | Displacement | | 201.00 | bbl | 8.33 | .0 | .0 | 6.5 | |
| Calculated Values | | Pressures | | | Volumes | | | | |
| Displacement | 201.5 | Shut In: Instant | | Lost Returns | 0 | Cement Slurry | 66 | Pad | |
| Top Of Cement | 3006 | 5 Min | | Cement Returns | 0 | Actual Displacement | 201 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 10 | Load and Breakdown | | Total Job | |
| Rates | | | | | | | | | |
| Circulating | | Mixing | 6 | Displacement | 6.5 | Avg. Job | | | 6 |
| Cement Left In Pipe | Amount | 45.25ft | Reason | Shoe Joint | | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | |

The Road to Excellence Starts with Safety

| | | | |
|--|-----------------------------------|----------------------------|------------------------|
| Sold To #: 305021 | Ship To #: 2922622 | Quote #: | Sales Order #: 9494300 |
| Customer: SANDRIDGE ENERGY INC EBUSINESS | | Customer Rep: Ivey, Ronnie | |
| Well Name: Isaac Farms | Well #: 1-36H | API/UWI #: 15-055-22135 | |
| Field: | City (SAP): GARDEN CITY | County/Parish: Finney | State: Kansas |
| Legal Description: Section 36 Township 22S Range 31W | | | |
| Contractor: Lariat | Rig/Platform Name/Num: 3 | | |
| Job Purpose: Cement Production Liner | | | |
| Well Type: Development Well | Job Type: Cement Production Liner | | |
| Sales Person: NGUYEN, VINH | Srvc Supervisor: JIMENEZ, JESUS | MBU ID Emp #: 221813 | |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|------------------|---------|--------|---------------------------|---------|--------|----------------|---------|--------|
| CLEMENS, JASON | 13.5 | 198516 | JIMENEZ, JESUS Medrano | 13.5 | 221813 | LAYNE, OLANDIS | 13.5 | 517538 |
| MCCLELLAU, JAMES | 13.5 | 496019 | WIFA, HENRY Neniebari | 13.5 | 491916 | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| | | | | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|--------------|-------------------|-----------------|---|-------------------|-----------------|------|-------------------|-----------------|
| 5/6/2012 | 13.5 | 3 | | | | | | |
| TOTAL | | | <i>Total is the sum of each column separately</i> | | | | | |

Job

Job Times

| Formation Name | Formation Depth (MD) | Top | Bottom | Called Out | Date | Time | Time Zone |
|------------------------|----------------------|-----|-------------------|---------------|-----------------|-------|-----------|
| | | | | | 05 - May - 2012 | 15:45 | CST |
| Form Type | | | BHST | On Location | 05 - May - 2012 | 22:30 | CST |
| Job depth MD | 9266. ft | | Job Depth TVD | Job Started | 06 - May - 2012 | 08:30 | CST |
| Water Depth | | | Wk Ht Above Floor | Job Completed | 06 - May - 2012 | 10:00 | CST |
| Perforation Depth (MD) | From | | To | Departed Loc | 06 - May - 2012 | 12:00 | CST |

Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|------------------------|------------|-------------------|---------|-------|---------------|---------|-------|-----------|--------------|------------|---------------|
| 6.125" Open Hole | | | | 6.125 | | | | 5299. | 9266. | | |
| 4.5" Production Liner | Unknown | | 4.5 | 4. | 11.6 | LTC | P-110 | 4897. | 9266. | | |
| 7" Intermediate Casing | Unknown | | 7. | 6.276 | 26. | LTC | P-110 | . | 5299. | | |
| 4" Drill Pipe | Unknown | | 4. | 3.34 | 14. | Unknown | | . | 4897. | | |

Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|------|-----|------|
| Guide Shoe | | | | | Packer | | | | | Top Plug | | | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| Stage Tool | | | | | | | | | | Centralizers | | | |

Miscellaneous Materials

| Gelling Agt | Conc | Surfactant | Conc | Acid Type | Qty | Conc | % |
|---------------|------|------------|------|-----------|------|------|---|
| Treatment Fld | Conc | Inhibitor | Conc | Sand Type | Size | Qty | |

Fluid Data

| |
|-----------------|
| Stage/Plug #: 1 |
|-----------------|

HALLIBURTON

Cementing Job Summary

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|---|--------------------------|-------------------------------|--------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| 1 | Rig Caustic Water Spacer | | 10.00 | bbl | 8.5 | .0 | .0 | 3 | |
| 2 | Primary Cement | ECONOCEM (TM) SYSTEM (452992) | 450.0 | sacks | 13.6 | 1.54 | 7.36 | 4 | 7.36 |
| | 0.4 % | HALAD(R)-9, 50 LB (100001617) | | | | | | | |
| | 2 lbm | KOL-SEAL, BULK (100064233) | | | | | | | |
| | 2 % | BENTONITE, BULK (100003682) | | | | | | | |
| | 7.356 Gal | FRESH WATER | | | | | | | |
| 3 | Displacement | | 112.00 | bbl | 8.33 | .0 | .0 | 5 | |
| Calculated Values | | Pressures | | | Volumes | | | | |
| Displacement | 112 | Shut In: Instant | | Lost Returns | NO | Cement Slurry | 123 | Pad | |
| Top Of Cement | 2518 | 5 Min | | Cement Returns | NO | Actual Displacement | 112 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 10 | Load and Breakdown | | Total Job | |
| Rates | | | | | | | | | |
| Circulating | | Mixing | 4 | Displacement | 5 | Avg. Job | | | 4 |
| Cement Left In Pipe | Amount | 80 ft | Reason | Shoe Joint | | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | |

Section 26
22S 31W

Section 25
22S 31W

ISAAC FARMS 1-36H



Miss Entry: 4998'
-101 38.102319

Top Perf: 5005'
-101 38.102319

Section 35
22S 31W

Section 36
22S 31W

Bottom Perf: 8950'
-101 38.091702

729' FWL

BHL: 9271'
-101 38.090749

394' FSL

Section 2
23S 31W

Section 1
23S 31W



Actual Bottom-Hole Location of Isaac Farms 1-36H
Finney County, Kansas
T&R: 22S 31W
Section: 36, 729' FWL & 394' FSL
Long/Lat: -101 38.090749
1 in = 833 ft

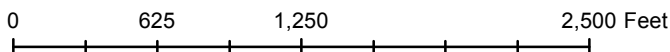


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 8/7/2012

Drawing Name/Number:

Addendum_IsaacFarms_1-36H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502