



KANSAS CORPORATION COMMISSION 1074538
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33186
Name: LB Exploration, Inc.
Address 1: 2135 2ND RD
Address 2:
City: HOLYROOD State: KS Zip: 67450 + 9021
Contact Person: Michael Petermann
Phone: (785) 252-8034
CONTRACTOR: License # 34541
Name: Ninnescah Drilling LLC
Wellsite Geologist: Scott Alberg
Purchaser:

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
 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: Kedco Management Corp.

Well Name: Hopkin's #1 Twin

Original Comp. Date: 4/2/1974 Original Total Depth: 3920

- 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 #:

9/9/2011 9/14/2011 9/28/2011
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-007-20254-00-01

Spot Description: 110' S & 100' E NESW

NW SE NE SW Sec. 28 Twp. 32 S. R. 13 East West

1870 Feet from North / South Line of Section

3200 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Barber

Lease Name: Hopkin's Ranch 28 Well #: 1

Field Name:

Producing Formation: Mississippi

Elevation: Ground: 1649 Kelly Bushing: 1662

Total Depth: 5026 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 321 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: Deanna Garrisor Date: 06/11/2012



1074538

Operator Name: LB Exploration, Inc. Lease Name: Hopkin's Ranch 28 Well #: 1
 Sec. 28 Twp. 32 S. R. 13 East West County: Barber

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

| | | | | |
|---|---|---|----------------------------------|---------------------------------|
| Drill Stem Tests Taken (Attach Additional Sheets) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Kinderhook | 4642 | -2980 |
| Electric Log Run | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Mississippi | 4395 | -2733 |
| Electric Log Submitted Electronically (If no, Submit Copy) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| List All E. Logs Run: | | | | |
| Attached | | | | |

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, 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 |
| Production | 7.875 | 5.5 | 14 | 5003 | AA2 | 175 | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---------------------------------------|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| ___ Perforate | | | | |
| ___ Protect Casing | | | | |
| ___ Plug Back TD | - | | | |
| ___ Plug Off Zone | - | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|---|---|-----------|
| 2 | 4398-4426 | 2000 GAL 10% MCA | 4398-4426 |
| | | 6739 BBL SLICKWATER 130400# SAND | 4398-4426 |
| | | | |
| | | | |

| | | | | |
|---|---|---------------------|-------------|---|
| TUBING RECORD: | Size: <u>2.375</u> | Set At: <u>4387</u> | Packer At: | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR. | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ | | | |
| Estimated Production Per 24 Hours | Oil Bbbs. | Gas Mcf | Water Bbbs. | Gas-Oil Ratio |
| | | | | Gravity |

| | | |
|--|---|--|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.) | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|--|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | LB Exploration, Inc. |
| Well Name | Hopkin's Ranch 28 1 |
| Doc ID | 1074538 |

All Electric Logs Run

| |
|----------------------------|
| |
| Dual Induction |
| Dual Compensated Porosity |
| Microresistivity |
| Borehole Compensated Sonic |



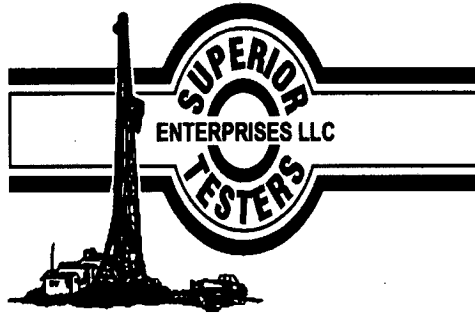
Cement Report

| Customer <i>L B Exploration</i> | | Lease No. | | Date <i>9-15-11</i> | | |
|----------------------------------|-----------------|------------------------|-------------------------|-----------------------------------|---|--------------|
| Lease <i>Heppkins Ranch</i> | | Well # <i>1</i> | | Service Receipt | | |
| Casing <i>5 5/8</i> Depth | | County <i>Franklin</i> | | State <i>Ks</i> | | |
| Job Type <i>2-42 Longshoring</i> | | Formation | | Legal Description <i>18-32-13</i> | | |
| Pipe Data | | | Perforating Data | | Cement Data | |
| Casing size <i>5 5/8</i> | | Tubing Size | | Shots/Ft | | |
| Depth <i>4991</i> | | Depth | | From To | | |
| Volume <i>121</i> | | Volume | | From To | | |
| Max Press <i>1000</i> | | Max Press | | From To | | |
| Well Connection | | Annulus Vol. | | From To | | |
| Plug Depth <i>4949</i> | | Packer Depth | | From To | | |
| | | | | Tail in <i>1755Ks</i> | | |
| | | | | AA-2 | | |
| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log | |
| <i>6:30</i> | | | | | <i>on location</i> | |
| <i>6:45</i> | | | | | <i>Rig up</i> | |
| <i>10:10</i> | | | | | <i>Drop Ball</i> | |
| <i>10:20</i> | | | | | <i>start circulating</i> | |
| <i>11:05</i> | | | | | <i>shut down circulation Hook to cmt 1804</i> | |
| <i>11:25</i> | <i>0</i> | | <i>12</i> | <i>1.7</i> | <i>plug Rat & mouse Hole</i> | |
| <i>11:40</i> | <i>0</i> | | <i>1</i> | <i>2.75</i> | <i>start cement for pipe 15.3"</i> | |
| <i>11:40</i> | <i>0</i> | | <i>1</i> | <i>0</i> | <i>shut down to fix recirculation pt. 11"</i> | |
| <i>12:35</i> | <i>200</i> | | <i>1</i> | <i>2.75</i> | <i>start cmt. 15.3"</i> | |
| <i>12:55</i> | <i>0</i> | | <i>44</i> | <i>0</i> | <i>shut down to wash up lines & pump</i> | |
| <i>1:05</i> | <i>0</i> | | <i>0</i> | <i>0</i> | <i>drop plug</i> | |
| <i>1:18</i> | <i>0</i> | | <i>1</i> | <i>4.0</i> | <i>start disp</i> | |
| <i>1:27</i> | <i>1500</i> | | <i>122</i> | <i>0</i> | <i>plug down</i> | |
| <i>1:35</i> | | | | | <i>Reverse Pressure Plug Holding</i> | |
| <i>2:55</i> | | | | | <i>Rig down</i> | |
| Service Units <i>27462</i> | | <i>14364</i> | | <i>191675</i> | | <i>17762</i> |
| Driver Names | | | | | | |

[Signature]
Customer Representative

[Signature]
Station Manager

[Signature]
Cementer
Taylor Printing, Inc.



DRILL STEM TEST REPORT

Prepared For: **LB Exploration Inc**

2135 2nd RD Holyrood KS 67450 + 9021

ATTN: Scott Alberg

28-32-13w Barber

Hopkins Ranch 28 #1

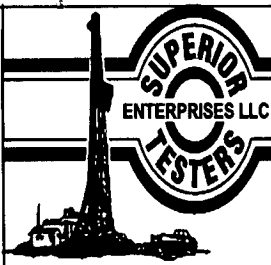
Start Date: 2011.09.11 @ 19:54:00

End Date: 2011.09.12 @ 04:36:00

Job Ticket #: 18633 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.09.12 @ 04:51:42



DRILL STEM TEST REPORT

LB Exploration Inc
 2135 2nd RD Holyrood KS 67450 + 9021
 ATTN: Scott Alberg

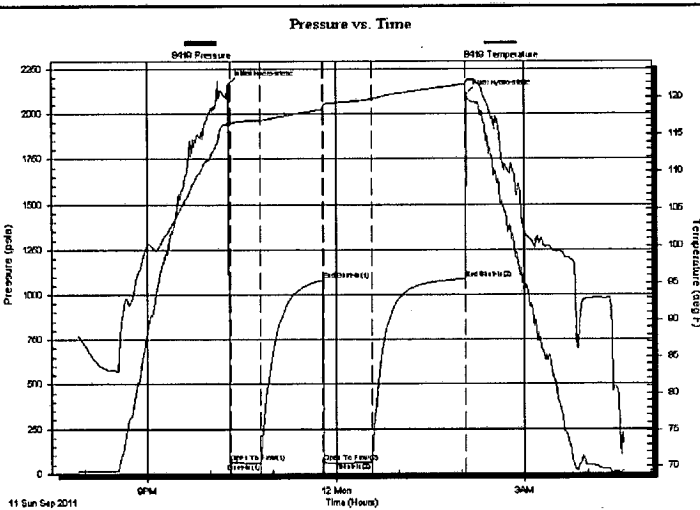
Hopkins Ranch 28 #1
28-32-13w Barber
 Job Ticket: 18633 **DST#: 1**
 Test Start: 2011.09.11 @ 19:54:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:19:00
 Tester: Jared Scheck
 Time Test Ended: 04:36:00
 Unit No: 3320-Pratt-
 Interval: **4391.00 ft (KB) To 4445.00 ft (KB) (TVD)**
 Reference Elevations: 1662.00 ft (KB)
 Total Depth: 4445.00 ft (KB) (TVD)
 1649.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 13.00 ft

Serial #: 8419 **Inside**
 Press@RunDepth: 61.85 psia @ 4441.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.09.11 End Date: 2011.09.12 Last Calib.: 2011.09.12
 Start Time: 19:54:00 End Time: 04:36:00 Time On Btm: 2011.09.11 @ 22:17:30
 Time Off Btm: 2011.09.12 @ 02:04:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 1 1/2 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket less then 1 minute gas to surface in 5 minutes see gas report
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

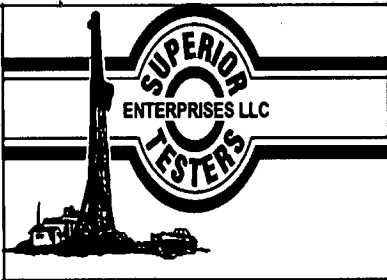
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2163.52 | 116.82 | Initial Hydro-static |
| 2 | 61.82 | 116.39 | Open To Flow (1) |
| 30 | 60.14 | 116.84 | Shut-In(1) |
| 90 | 1080.45 | 118.40 | End Shut-In(1) |
| 91 | 63.96 | 118.94 | Open To Flow (2) |
| 137 | 61.85 | 119.72 | Shut-In(2) |
| 226 | 1084.51 | 121.75 | End Shut-In(2) |
| 227 | 2107.09 | 122.25 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 30.00 | Mud | 0.42 |
| 0.00 | 4358 feet gas in pipe | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 3.40 | 5.39 |
| Last Gas Rate | 0.25 | 7.60 | 12.06 |
| Max. Gas Rate | 0.25 | 7.60 | 12.06 |



DRILL STEM TEST REPORT

LB Exploration Inc
 2135 2nd RD Holyrood KS 67450 + 9021
 ATTN: Scott Alberg

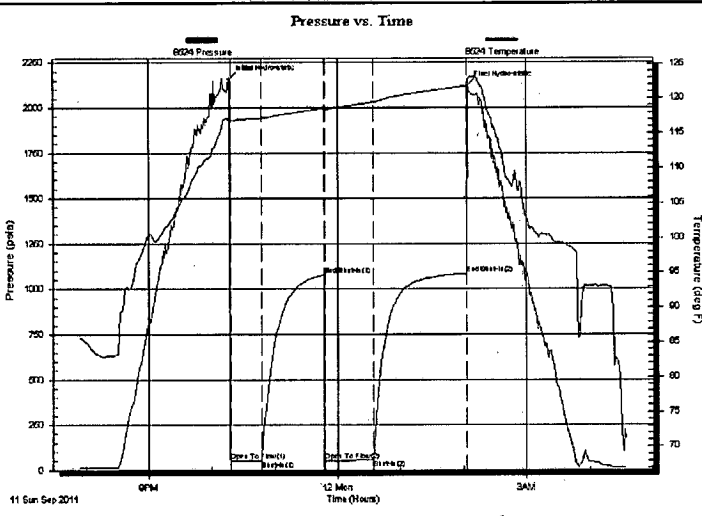
Hopkins Ranch 28 #1
28-32-13w Barber
 Job Ticket: 18633 **DST#: 1**
 Test Start: 2011.09.11 @ 19:54:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 22:19:00
 Time Test Ended: 04:36:00
 Interval: **4391.00 ft (KB) To 4445.00 ft (KB) (TVD)**
 Total Depth: **4445.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Jared Scheck**
 Unit No: **3320-Pratt-**
 Reference Elevations: **1662.00 ft (KB)**
1649.00 ft (CF)
 KB to GR/CF: **13.00 ft**

Serial #: 8524 **Outside**
 Press@RunDepth: **1084.79 psia @ 4442.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.09.11** End Date: **2011.09.12** Last Calib.: **2011.09.12**
 Start Time: **19:54:00** End Time: **04:35:00** Time On Btm: **2011.09.11 @ 22:17:00**
 Time Off Btm: **2011.09.12 @ 02:03:30**

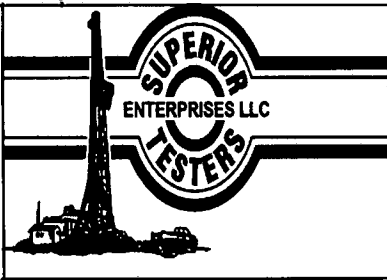
TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 1 1/2 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket less than 1 minute gas to surface in 5 minutes see gas report
 2nd Shut-in 90 Minutes-No blow back



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
| 0 | 2159.12 | 117.04 | Initial Hydro-static |
| 1 | 50.99 | 116.87 | Open To Flow (1) |
| 30 | 54.69 | 117.16 | Shut-in(1) |
| 90 | 1077.59 | 118.58 | End Shut-in(1) |
| 91 | 52.13 | 118.36 | Open To Flow (2) |
| 137 | 56.93 | 119.44 | Shut-in(2) |
| 226 | 1084.79 | 121.75 | End Shut-in(2) |
| 227 | 2120.90 | 122.49 | Final Hydro-static |

| Recovery | | |
|-------------|-----------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 30.00 | Mud | 0.42 |
| 0.00 | 4358 feet gas in pipe | 0.00 |
| | | |
| | | |

| Gas Rates | | | |
|----------------|----------------|-----------------|------------------|
| | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
| First Gas Rate | 0.25 | 3.40 | 5.39 |
| Last Gas Rate | 0.25 | 7.60 | 12.06 |
| Max. Gas Rate | 0.25 | 7.60 | 12.06 |



DRILL STEM TEST REPORT

TOOL DIAGRAM

LB Exploration Inc
 2135 2nd RD Holyrood KS 67450 + 9021
 ATTN: Scott Alberg

Hopkins Ranch 28 #1
28-32-13w Barber
 Job Ticket: 18633 **DST#: 1**
 Test Start: 2011.09.11 @ 19:54:00

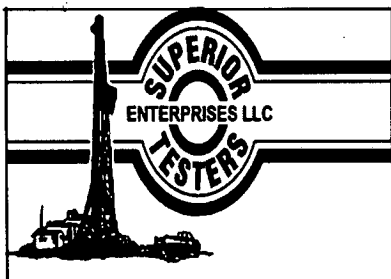
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4388.00 ft | Diameter: 3.80 inches | Volume: 61.55 bbl | Tool Weight: 1000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 57000.00 lb |
| | | | <u>Total Volume: 61.55 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 25.00 ft | | | String Weight: Initial 51000.00 lb |
| Depth to Top Packer: | 4391.00 ft | | | Final 51000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 54.00 ft | | | |
| Tool Length: | 82.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| SHut-InTool | 5.00 | | Inside | 4368.00 | |
| Hydraulic Tool | 5.00 | | | 4373.00 | |
| Jars | 6.00 | | | 4379.00 | |
| Safety Joint | 2.00 | | | 4381.00 | |
| Packer | 5.00 | | | 4386.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4391.00 | |
| Anchor | 0.00 | | | 4391.00 | |
| Change Over Sub | 0.75 | | | 4391.75 | |
| Drill Pipe | 30.50 | | Outside | 4422.25 | |
| Change Over Sub | 0.75 | | Outside | 4423.00 | |
| Anchor | 17.00 | | | 4440.00 | |
| Recorder | 1.00 | 8419 | Inside | 4441.00 | |
| Recorder | 1.00 | 8524 | Outside | 4442.00 | |
| Bullnose | 3.00 | | | 4445.00 | 54.00 Bottom Packers & Anchor |

Total Tool Length: 82.00



DRILL STEM TEST REPORT

FLUID SUMMARY

LB Exploration Inc
 2135 2nd RD Holyrood KS 67450 + 9021
 ATTN: Scott Alberg

Hopkins Ranch 28 #1
28-32-13w Barber
 Job Ticket: 18633 **DST#: 1**
 Test Start: 2011.09.11 @ 19:54:00

Mud and Cushion Information

| | | | |
|-----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 49.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 10.39 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psia | | |
| Salinity: 7800.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

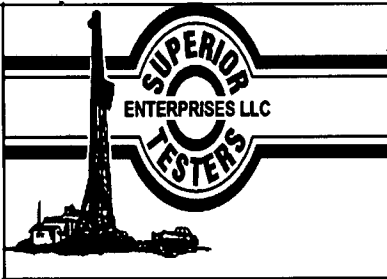
| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 30.00 | Mud | 0.421 |
| 0.00 | 4358 feet gas in pipe | 0.000 |

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: gas to surface 5 minutes into the 2nd open



DRILL STEM TEST REPORT

GAS RATES

LB Exploration Inc
2135 2nd RD Holyrood KS 67450 + 9021
ATTN: Scott Alberg

Hopkins Ranch 28 #1
28-32-13w Barber
Job Ticket: 18633 **DST#: 1**
Test Start: 2011.09.11 @ 19:54:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 2 | 10 | 0.25 | 3.40 | 5.39 |
| 2 | 20 | 0.25 | 5.10 | 8.09 |
| 2 | 30 | 0.25 | 7.20 | 11.42 |
| 2 | 40 | 0.25 | 7.60 | 12.06 |

