



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1197980  
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
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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: \_\_\_\_\_

1197980

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Operator: Strata Exploration, Inc.  
 Address: P.O. Box 401  
 Fairfield, IL  
 62837

Thomas G. Pronold  
 Consulting Petroleum Geologist  
 2250 No. Rock Road, No. 118-1  
 Wichita, KS 67226  
 P/316-687-5758 M/316-461-8127  
[trpronold@scglobal.net](mailto:trpronold@scglobal.net)

Well Name: Leonard 2-21  
 Location: 335' E1/4 S 695' FEL Sec. 21 T29S R32W, Haskell County, KS  
 APT No.: 15-081-22053  
 Field Name: Lockport  
 Spud Date: 02/13/2014 Drilling Completed: 02/22/2014  
 Bottom Hole Location: As above  
 Ground Level: 2908' KB Elevation: 2919'  
 Logged Interval: 4000' TO: 5640'  
 Drilling Fluid Type: Freshwater/Gel to 3000', Chemical/Gel to 5640'

DST #1 Morrow 5253'-5355' 15"-45"-45"-90" Initial Open: Bottom of bucket in 7 min. Bled off for 5 min, no return blow. Final open: Built to 8" blow in 25 minutes. Slowly died to 6" blow, bled off for 5 min, no return blow. Rec. 20" Mud. IHP 2664#, IFP 29-38#, ISIP 55#, FFP 38-44#, FSIP 60#, FSIP 2629# BHT 131 Deg. F

DST #2 St. Louis 'A' 5476-5530 15"-45"-45"-90" Initial Open: Bottom of the bucket in 1 min., Bled off for 10 min and B.O.B. immediately upon closing 2" valve. Final open: B.O.B. immed upon open. Ga gas:

Min	PSIG	Orifice	Rate
15	20	1/4"	232
25	30	1/2"	266
35	30	3/4"	300
45	30	1/2"	300

Rec. 125' Mud, 5289' Gas in pipe, IHP 2748#, IFP 109-1151#, ISIP 965#, FFP 90-96#, FSIP 960#, FHIF 2710# BHT 133 Deg. F

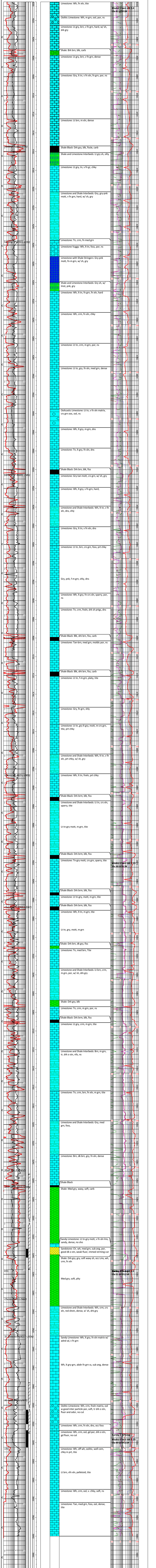
COMMENTS

02/13/2014 MIRU Sterling Drilling Rig 2, Spud 12 1/4" Surface hole at 09:15 PM. 02/14/2014 Drilling at 665'. 02/15/2014 Short Trip at 1837'. 02/16/2014 WOC 1837'. 02/17/2014 2555' Drilling ahead with 7 7/8" PDC Bit. 02/18/2014 3752'. Drilling ahead. 02/19/2014 4870' Drilling ahead. 02/20/2014 5355'. Tripping out for DST #1. 02/21/2014 5530'. TOH for DST #2. 02/22/13 5640' TOH for logs.

Set 8 5/8", 24# Surface casing at 1837' with 650 sacks Class 'A' Cmt, 6% gel, 3% CC, 25 1/4 Flo Seal tailed in w/200 sacks Class 'A', 3% CC, 25#/sk flo Seal (Allied Energy Services).

Surveys: 1.0 Deg. At 1837'; 3/4 Deg. At 5355'; 1 1/4 Deg. At 5530'.

E-log Formation Tops: Heebner 4152, Lansing 'A' 4254, LKC 'H' 4499, Marmaton 4808, Cherokee Sh 4952, Atoka 5055, Morrow Sh 5264, Chester 5396, St. Genevieve 5428, St. Louis 5502







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Strata Exploration, Inc.  
PO Box 401  
Fairfield IL, 62837 - 0401  
ATTN: Tom Pronold

**21-29s-32w Haskell Co. KS**

**Leonard # 2-21**

Job Ticket: 54614 **DST#: 1**

Test Start: 2014.02.20 @ 07:15:00

## GENERAL INFORMATION:

Formation: **Morrow Sandstone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:59:30

Time Test Ended: 16:03:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

Interval: **5253.00 ft (KB) To 5355.00 ft (KB) (TVD)**

Reference Elevations: 2919.00 ft (KB)

Total Depth: 5355.00 ft (KB) (TVD)

2908.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 44.05 psig @ 5254.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.20 End Date: 2014.02.20

Last Calib.: 2014.02.20

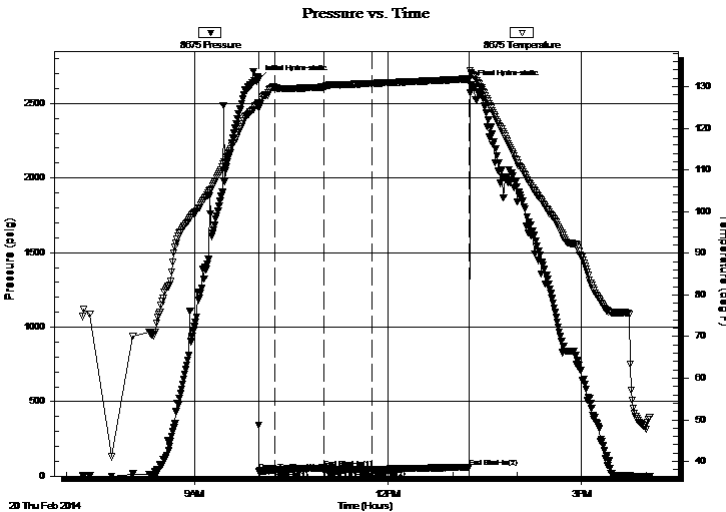
Start Time: 07:15:15 End Time: 16:03:30

Time On Btm: 2014.02.20 @ 09:59:00

Time Off Btm: 2014.02.20 @ 13:16:45

**TEST COMMENT:** B.O.B. in 7 min.  
Bled off for 5 min. No return blow  
Built to 8" blow in 25 min, slowly died to 6" blow  
Bled off for 5 min. No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2663.74	126.18	Initial Hydro-static
1	29.34	125.49	Open To Flow (1)
16	37.75	129.83	Shut-In(1)
61	55.09	129.90	End Shut-In(1)
61	38.10	129.91	Open To Flow (2)
106	44.05	130.78	Shut-In(2)
197	59.98	131.87	End Shut-In(2)
198	2628.53	133.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% Mud	0.10
0.00	620 Very Weak Gas In Pipe	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Strata Exploration, Inc.

**21-29s-32w Haskell Co. KS**

PO Box 401  
Fairfield IL, 62837 - 0401

**Leonard # 2-21**

Job Ticket: 54614

**DST#: 1**

ATTN: Tom Pronold

Test Start: 2014.02.20 @ 07:15:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100% Mud	0.098
0.00	620 Very Weak Gas In Pipe	0.000

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

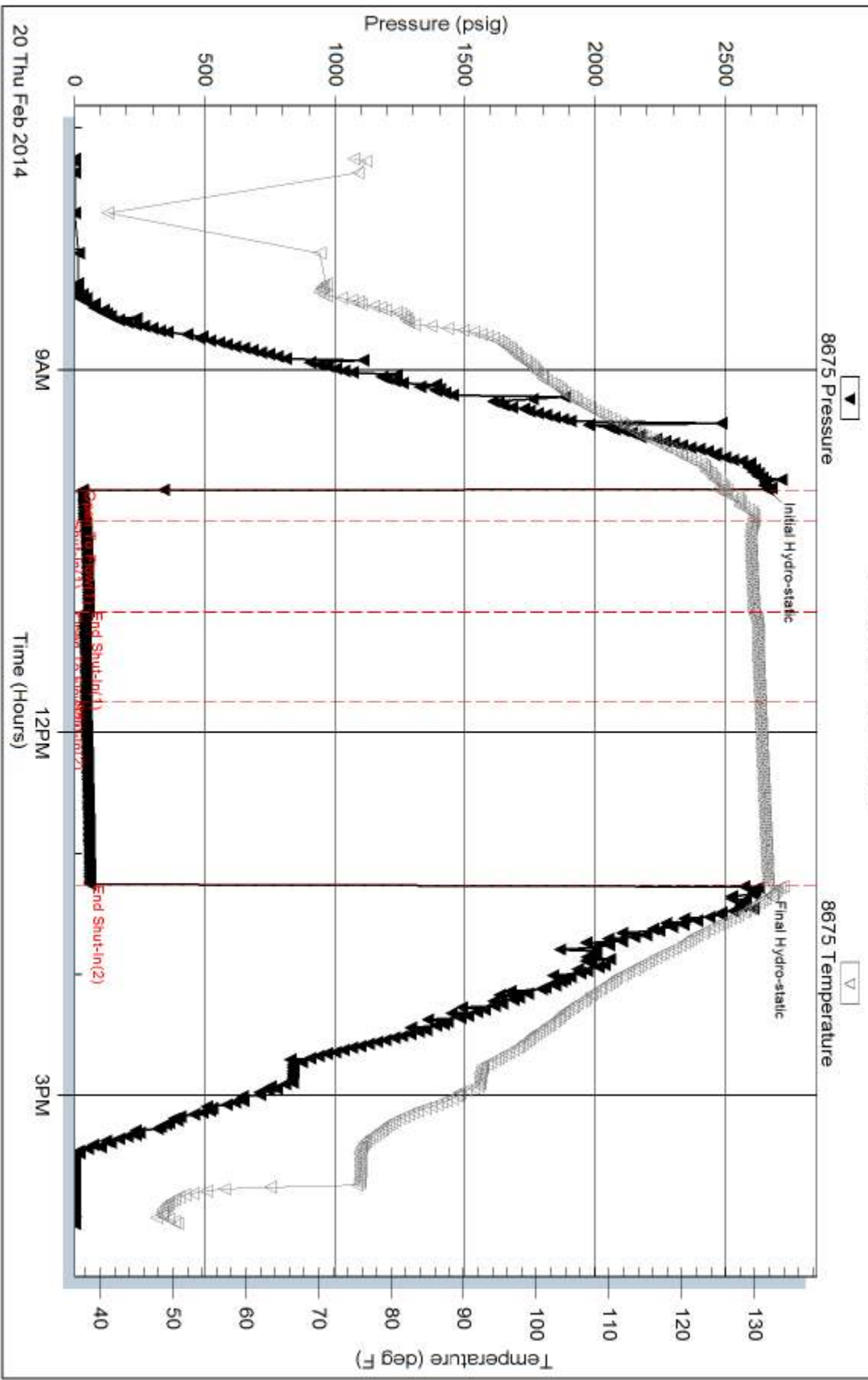
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Strata Exploration, Inc.  
PO Box 401  
Fairfield IL, 62837 - 0401  
ATTN: Tom Pronold

**21-29s-32w Haskell Co. KS**

**Leonard # 2-21**

Job Ticket: 54615

**DST#: 2**

Test Start: 2014.02.21 @ 09:00:00

## GENERAL INFORMATION:

Formation: **St. Louis 'A'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:25:30

Time Test Ended: 17:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

**Interval: 5476.00 ft (KB) To 5530.00 ft (KB) (TVD)**

Total Depth: 5530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2919.00 ft (KB)

2908.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8675**

**Inside**

Press @ Run Depth: 95.76 psig @ 5477.00 ft (KB)

Start Date: 2014.02.21

End Date: 2014.02.21

Start Time: 09:00:15

End Time: 17:29:30

Capacity: 8000.00 psig

Last Calib.: 2014.02.21

Time On Btm: 2014.02.21 @ 11:24:15

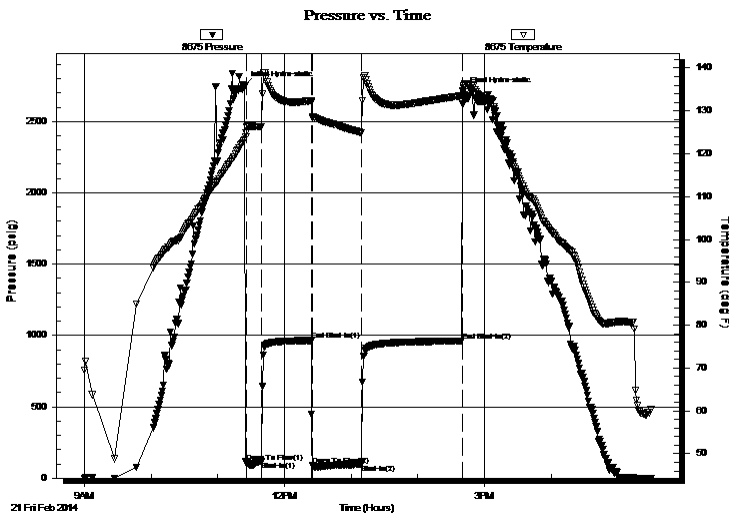
Time Off Btm: 2014.02.21 @ 14:40:45

**TEST COMMENT:** B.O.B. in 1 min.

Bled off for 10 min. B.O.B. as soon as I closed 2" valve

B.O.B. as soon as i opened, Gas To Service 5 min into

Beld off for 10 min. B.O.B as soon as I closed 2" valve



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2747.93	123.19	Initial Hydro-static
2	108.55	124.88	Open To Flow (1)
15	114.64	126.27	Shut-In(1)
60	964.63	132.37	End Shut-In(1)
61	90.13	128.29	Open To Flow (2)
105	95.76	124.89	Shut-In(2)
196	960.38	133.51	End Shut-In(2)
197	2709.54	135.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	100% Mud	0.61
0.00	5289 Feet Gas In Pipe	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	20.00	232.05
Last Gas Rate	0.50	30.00	299.51
Max. Gas Rate	0.50	30.00	299.51

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Strata Exploration, Inc.

**21-29s-32w Haskell Co. KS**

PO Box 401  
Fairfield IL, 62837 - 0401

**Leonard # 2-21**

Job Ticket: 54615

**DST#: 2**

ATTN: Tom Pronold

Test Start: 2014.02.21 @ 09:00:00

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	100% Mud	0.615
0.00	5289 Feet Gas In Pipe	0.000

Total Length: 125.00 ft      Total Volume: 0.615 bbl

Num Fluid Samples: 0

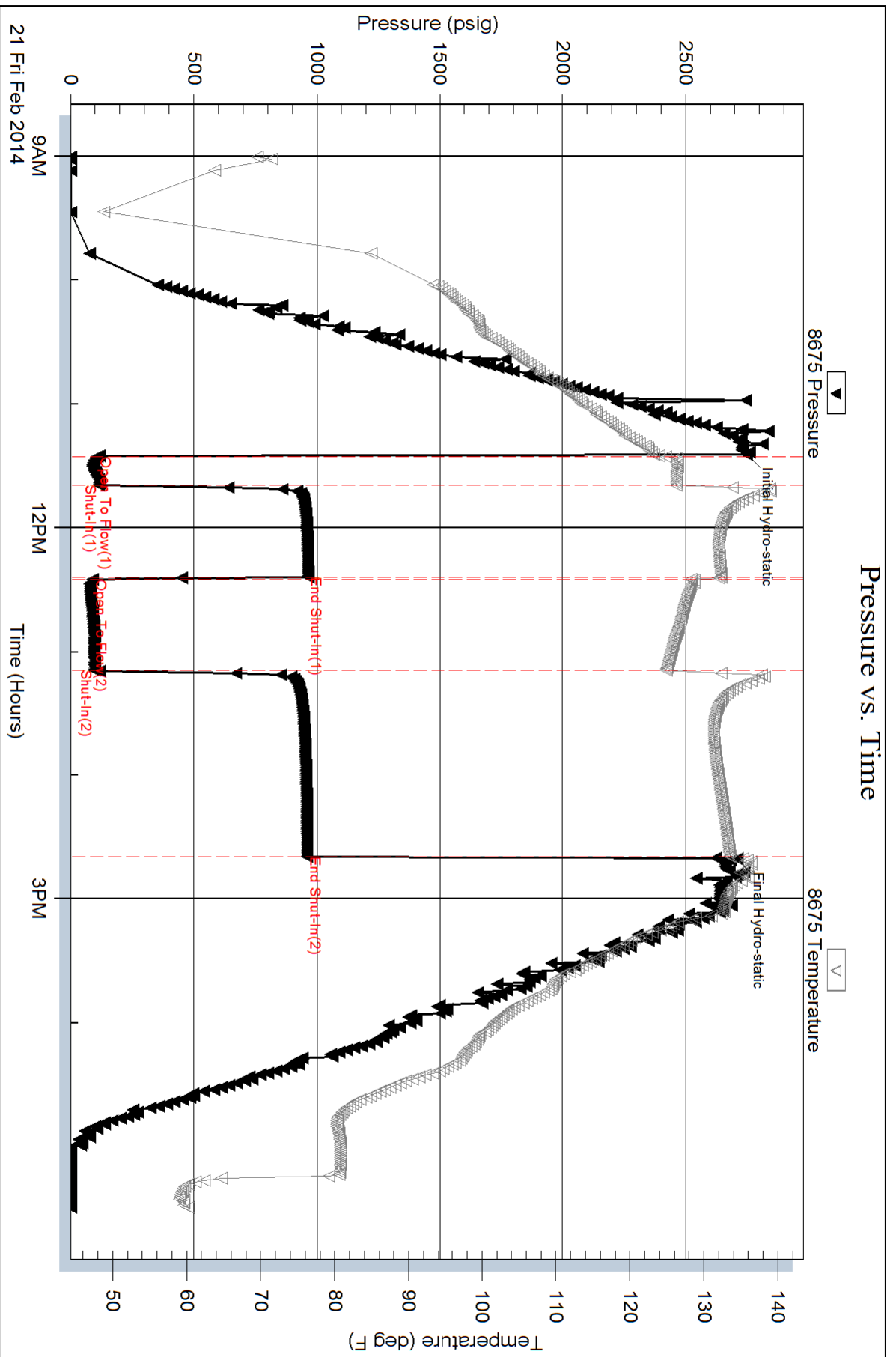
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

PAY BEFORE  
3-12-14

Reimbursement # 726  
Inv. 3-5-14

# INVOICE

Invoice Number: 141400  
Invoice Date: Feb 15, 2014  
Page: 1

Bill To:
Strata Exploration, Inc. P O Box 401 Fairfield, IL 62837-2757

Paid

3-5-14  
FNB 3361

Customer ID	Field Ticket #	Payment Terms	
Strata	52417	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Liberal	Feb 15, 2014	3/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Leonard #2-21		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
8.00	CEMENT MATERIALS	Chloride	64.00	512.00
650.00	CEMENT MATERIALS	Light Weight Class A	16.50	10,725.00
22.00	CEMENT MATERIALS	Calcium Chloride	64.00	1,408.00
163.00	CEMENT MATERIALS	Flo Seal	2.97	484.11
962.15	CEMENT SERVICE	Cubic Feet Charge	2.48	2,386.13
2,029.15	CEMENT SERVICE	Ton Mileage Charge	2.60	5,275.79
1.00	CEMENT SERVICE	Surface	2,213.75	2,213.75
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Waiting on Location	440.00	440.00
1.00	EQUIPMENT SALES	8-5/8 Guide Shoe	460.00	460.00
1.00	EQUIPMENT SALES	8-5/8 AFU Float Valve	447.00	447.00
1.00	EQUIPMENT SALES	8-5/8 Top Rubber Plug	131.00	131.00
1.00	EQUIPMENT SALES	8-5/8 Basket	560.00	560.00
5.00	EQUIPMENT SALES	8-5/8 Centralizer	75.00	375.00
1.00	CEMENT SUPERVISOR	Edgar Rodriguez		
1.00	EQUIPMENT OPERATOR	Heriberto Valenzuela		
1.00	OPERATOR ASSISTANT	Ricardo Landa		

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
<b>TOTAL</b>	<b>Continued</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 8,365.78

ONLY IF PAID ON OR BEFORE

Mar 12, 2014



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 141400

Invoice Date: Feb 15, 2014

Voice: (817) 546-7282

Page: 2

Fax: (817) 246-3361

**Bill To:**

Strata Exploration, Inc.  
P O Box 401  
Fairfield, IL 62837-2757

Customer ID	Field Ticket #	Payment Terms	
Strata	52417	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Liberal	Feb 15, 2014	3/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	OPERATOR ASSISTANT	Alejandro Ayala		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 8,365.78

ONLY IF PAID ON OR BEFORE

Mar 12, 2014

Subtotal	29,877.78
Sales Tax	1,242.36
Total Invoice Amount	31,120.14
Payment/Credit Applied	
<b>TOTAL</b>	<b>31,120.14</b>

Discount (8,365.78)

22,754.36



# ALLIED OIL & GAS SERVICES, LLC 052417

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Liberal, ks

DATE <u>2/15/14</u>	SEC. <u>21</u>	TWP. <u>29S</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:15</u>	JOB FINISH <u>7:40</u>
LEASE <u>Leasand</u>		WELL# <u>2-21</u>		LOCATION <u>Sablette, ks 3 East, 1 North</u>		COUNTY <u>Haskell</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)				West into location			

CONTRACTOR Stirling #2  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 1837  
 CASING SIZE 8 5/8 24# DEPTH 1837  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 1500 MINIMUM  
 MEAS. LINE SHOE JOINT 43.33  
 CEMENT LEFT IN CSG. 43.33 ft  
 PERFS.  
 DISPLACEMENT 114 bbls fresh water

OWNER Strata Exploration

**EQUIPMENT**

PUMP TRUCK CEMENTER Edgar A. Rodriguez  
 # 549-550 HELPER Heriberto Valenzuela  
 BULK TRUCK  
 # 774-744 DRIVER Ricardo Landa  
 BULK TRUCK  
 # 869-841 DRIVER Alex Ayala

CEMENT  
 AMOUNT ORDERED 650 sks Class A 6% gel, 3% cc,  
0.25 #/sk fl-sol. 200 sks Class A-NAF, 3% cc,  
0.25 #/sk fl-sol.

COMMON <u>Class A 200 sks</u>	@ <u>17.90</u>	<u>3580.00</u>
POZMIX	@	
GEL	@	
CHLORIDE	<u>8 sks</u> @	<u>64.00</u> <u>512.00</u>
ASC	@	
<u>Alum Class A 650 sks</u>	@ <u>16.50</u>	<u>10725.00</u>
<u>Calcium Chloride 72 sks</u>	@ <u>64.00</u>	<u>4608.00</u>
<u>fl-sol 163#</u>	@ <u>2.47</u>	<u>404.11</u>
	@	
	@	
	@	
	@	
HANDLING <u>962.15 ft<sup>3</sup></u>	@ <u>2.48</u>	<u>2386.12</u>
MILEAGE <u>2029.15 ton mile</u>	<u>2.60</u>	<u>5275.79</u>
TOTAL		<u>24371.02</u>

**REMARKS:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CHARGE TO: Strata Exploration  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB	<u>1837'</u>
PUMP TRUCK CHARGE	<u>1 2213.75 2213.75</u>
EXTRA FOOTAGE	@
MILEAGE <u>Light Vehicle mile</u>	@ <u>4.40</u> <u>220.00</u>
MANIFOLD	<u>1 275.00 275.00</u>
<u>Heavy Vehicle 50 mile</u>	@ <u>7.70</u> <u>385.00</u>
<u>Additional Hrs</u>	<u>1 440.00 440.00</u>
TOTAL <u>3533.75</u>	

**PLUG & FLOAT EQUIPMENT**

<u>Guide Shoe</u>	<u>1</u> @ <u>460.00</u>	<u>460.00</u>
<u>AFU Float Valve</u>	<u>1</u> @ <u>447.00</u>	<u>447.00</u>
<u>Top Rubber Plug</u>	<u>1</u> @ <u>131.00</u>	<u>131.00</u>
<u>Cement Basket</u>	<u>1</u> @ <u>560.00</u>	<u>560.00</u>
<u>Centralizer</u>	<u>5</u> @ <u>75.00</u>	<u>375.00</u>
TOTAL		<u>1973.00</u>

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 29877.77  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_

Net = 21,511.99



PAGE	CUST NO	INVOICE DATE
1 of 1	1004072	02/25/2014
INVOICE NUMBER		
1717 - 91420047		

Liberal (620) 624-2277  
 B STRATA EXPLORATION  
 I PO Box: 401  
 L FAIRFIELD  
 T IL US 62837  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Leonard #2-21  
 B LOCATION Haskell  
 S COUNTY KS  
 T STATE  
 F JOB DESCRIPTION Cement-New Well  
 F JOB CONTACT

**PAID**  
 3-24-14  
 FNBSA  
 Ck# 4848  
 10019

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40695261	19919		Net - 30 days	03/27/2014

For Service Dates: 02/23/2014 to 02/23/2014

QTY	U OF M	UNIT PRICE	INVOICE AMOUNT
325.00	EA	7.90	2,566.50 T
1,365.00	EA	0.54	734.95 T
784.00	EA	1.08	844.25 T
1,950.00	EA	0.48	937.94 T
137.00	EA	8.97	1,229.41 T
69.00	EA	2.87	198.14 T
1.00	EA	258.44	258.44
1.00	EA	287.16	287.16
20.00	EA	53.84	1,076.85
2.00	EA	685.60	1,371.19
1.00	EA	3,445.93	3,445.93
1,000.00	EA	0.62	617.40 T
10.00	EA	31.59	315.88 T
70.00	Mi	5.03	351.77
325.00	BAG	1.01	326.65
477.75	EA	1.15	548.76
1.00	EA	2,067.56	2,067.56
1.00	EA	179.48	179.48
35.00	MI	3.05	106.79
1.00	EA	125.63	125.63
1.00	EA	394.85	394.85

LEASE 10025  
 DES HASKELL 2-21 5 3/10 P/P  
 DRL DON CEMENT LONG STRUG 3/14 P/P  
 73551/18480.59  
 18480.59

171704889A Cement-New Well Casing/Pi 02/23/2014  
 5 1/2" Longstring  
 50/50 POZ  
 Gypsum  
 KCL  
 Gilsontite  
 C-15  
 C-41P  
 "Auto Fill Float Shoe 5 1/2" (Blue)"  
 "Latch Down Plug & Baffle, 5 1/2" (Blu  
 Antelope 5 1/2 X 7 7/8 Turbo  
 "Cmt Basket, Canvas 5 1/2"  
 "Cement Port Collar, 5 1/2" (Red)"  
 Mud Flush  
 CC-1  
 Heavy Equipment Mileage  
 Blending & Mixing Service Charge  
 "Proppant & Bulk Del. Chgs., per ton mil  
 Depth Charge: 5001-6000"  
 Plug Container Util. Chg.  
 "Unit Mileage Chg (PU, cars one way)"  
 "Service Supervisor, first 8 hrs on loc.  
 Cement Data Acquisition Monitor

PLEASE REMIT TO: SEND OTHER CORRESPONDENCE TO:  
 BASIC ENERGY SERVICES, LP BASIC ENERGY SERVICES, LP  
 PO BOX 841903 801 CHERRY ST, STE 2100  
 DALLAS, TX 75284-1903 FORT WORTH, TX 76102  
 SUB TOTAL 17,985.53  
 TAX 495.06  
 INVOICE TOTAL 18,480.59



**BASIC**<sup>SM</sup>  
ENERGY SERVICES

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 04889 A

PRESSURE PUMPING & WIRELINE

DATE OF JOB: 02-23-14 DISTRICT: 1717 Liberal, KS

CUSTOMER: STRATA

ADDRESS: LEASE Leonard

CITY: COUNTY Haskell STATE KS

AUTHORIZED BY: Jonny Bennett JRB

SERVICE CREW: Roger Brown

DATE: 02-23-14 TICKET NO. 2-21

NEW WELL  OLD WELL  PROD  INJ  WDW  CUSTOMER ORDER NO.:

WELL NO. 2-21

EQUIPMENT# HRS EQUIPMENT# HRS EQUIPMENT# HRS

21753 6

38117-19919 6

13025-14284 6

JOB TYPE: 242 - 5 1/2' Long String

TRUCK CALLED 02-22-14 DATE AM PM TIME 2200

ARRIVED AT JOB 02-23-14 AM PM 0200

START OPERATION 02-23-14 AM PM 1020

FINISH OPERATION 02-23-14 AM PM 1135

RELEASED 02-23-14 AM PM 1230

MILES FROM STATION TO WELL 35

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *Michael Polley*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
C1104	50/50 702				
C113	Gypsum	sk	325		3575 00
M 700	KCL Potassium Chloride	lb	1365		1023 75
C201	Gilsonite	lb	784		1176 00
C103	C-15	lb	1950		1306 50
C105	C-41P	lb	137		1712 50
F1251	Auto Fill Float Valve 5 1/2"	EA	1		276 00
F607	Lotch Draw Plug Bottle 5 1/2"	EA	1		360 00
F4V52	Economizer (Hinged) Welded Centralizer	EA	20		400 00
E4552	Convent Baskets CARVAS 5 1/2"	EA	2		1500 00
E471	Convent Post Collar 5 1/2"	EA	1		1910 00
E151	Mud Flush	EA	1		4800 00
101	Heavy Equipment Mileage	gal	1000		860 00
E240	Blending Mixing Service Charge	mi	70		490 00
113	Passport and Bulk Delivery Charge	sk	325		4550 00
E206	Depth Change 5001-6000'	hr	478		764 40
E504	Mud Containment Utilization Charge	4 hrs	1		2580 00
100	Unit Mileage Charge - Pickup	job	1		250 00
03	Service Supervisor, First 8 hrs on loc	mi	35		148 75
		EA	1		175 00

CHEMICAL/ACID DATA:


SUB TOTAL	17,985	53
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

AGENT: Roger Brown

SERVICE ORDER NO.

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Michael Polley*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

5.53  
5.06  
0.59



**Cement Report**

Customer **STRATA**

Lease No.

Date **02-23-14**

Lease **LEONARD**

Well # **2-21**

Service Receipt **1717-04899A**

Casing **5 1/2"**

Depth **5625'**

County **HASKELL**

State **K5**

Job Type **242 LS**

Formation

Legal Description **21-29-39**

**Pipe Data**

**Perforating Data**

**Cement Data**

Casing size <b>5 1/2"</b>	Tubing Size	<b>Shots/Ft</b>		<b>Lead</b>
Depth <b>5625'</b>	Depth	From	To	
Volume <b>135</b>	Volume	From	To	<b>Tail in 275 sks</b> 50/50 Poz 5% W-60 1/4" De Form 5% KCL 6# Gilsomite 5% C-15
Max Press	Max Press	From	To	
Well Connection	Annulus Vol.	From	To	
Plug Depth <b>5604'</b>	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0200					ON LOCATION
					Safety Meeting
					Make up Head & Whitford - Circ
1020					200psi Test Lines to Rig Floor
1010	100		7	4	Pump 7 BBLs Rat hole
1015			5	4	Pump 5 BBLs Mouse Hole
1025					Mix & Pump Tail cement
1020	100		68	6	13.8ppg (68 BBLs)
					Pump 24 BBLs Mud Flush
					Finished mixing cement
					Wash up lines & unit
					Drop Top Plug
1100			134	6	Start Displacement 134
1135					Land Plug 800 PSI over 2 hrs
1138					Released
					Plug held
					Back up
					Job Completed

Service Units	<b>21755</b>	<b>38117-19919</b>	<b>13025-14204</b>		
Driver Names	<b>RAGER</b>	<b>GABRIEL</b>	<b>SANTIAGO</b>		

Mike Panley  
Customer Representative

Terry Bennett  
Station Manager

Ragen Brown  
Cementer





**PAID**  
4-8-14  
INB SA CR#  
10068

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 142066

Invoice Date: Mar 18, 2014

Voice: (817) 546-7282  
Fax: (817) 246-3361

Page: 1

**Bill To:**  
Strata Exploration, Inc.  
P O Box 401  
Fairfield, IL 62837-2757

10025  
4/3 LEV 5  
4/3 LEONARD #2-21 5  
PORT COLLAR CEMENT/100  
X COM LCE G/L 73550/10832  
DVD 9256 13

Customer ID	Field Ticket #	Payment Terms	
Strata	52431	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Liberal	Mar 18, 2014	4/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Leonard #2-21		
230.00	CEMENT MATERIALS	ALWC Class A	16.50	3,795.00
58.00	CEMENT MATERIALS	Flo Seal	2.97	172.26
50.00	CEMENT MATERIALS	Class A Common	17.90	895.00
303.84	CEMENT SERVICE	Cubic Feet Charge	2.48	753.52
649.20	CEMENT SERVICE	Ton Mileage Charge	2.60	1,687.92
1.00	CEMENT SERVICE	Port Collar	2,600.47	2,600.47
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	Edgar Rodriguez		
1.00	EQUIPMENT OPERATOR	Heriberto Valenzuela		
1.00	OPERATOR ASSISTANT	Ricardo Landa		

Subtotal	10,509.17
Sales Tax	323.34
Total Invoice Amount	10,832.51
Payment/Credit Applied	
<b>TOTAL</b>	<b>10,832.51</b>

ALL PRICES ARE NET. PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1,576.38

DISC. \$1576.38

ONLY IF PAID ON OR BEFORE

Apr 12, 2014

BAL \$ 9256.13

# ALLIED OIL & GAS SERVICES, LLC 052431

Federal Tax I.D.# 20-5975604

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Liberal, KS

DATE <u>3-18-14</u>	SEC <u>21</u>	TWP. <u>29 S</u>	RANGE <u>32 W</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30 pm</u>	JOB FINISH <u>2:10 pm</u>
LEASE <u>Leonard</u>		WELL# <u>2-21</u>	LOCATION <u>Sublette KS, 3 east, 1 north</u>		COUNTY <u>Haskell</u>	STATE <u>KS</u>	
<input checked="" type="radio"/> OLD <input type="radio"/> NEW (Circle one)			<u>West into</u>				

CONTRACTOR IV Energy (Workover) OWNER Strata Exploration Inc

TYPE OF JOB Post Cellar  
 HOLE SIZE 7 7/8 T.D.  
 CASING SIZE 5 1/2 DEPTH 5602  
 TUBING SIZE 2 3/8 DEPTH 3151  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 1500 psi MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT 11 bbls fresh water

CEMENT  
 AMOUNT ORDERED 230 SKS A1WC Class A 670gel,  
0.25 #/sk Pl Seal, 50 SKS CLASS A NEAT

EQUIPMENT  
 PUMP TRUCK CEMENTER Edgar Rodriguez  
 # 530-541 HELPER Heriberto Valenzuela  
 BULK TRUCK  
 # 562-467 DRIVER Ricardo Landa  
 BULK TRUCK  
 # DRIVER

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
A1WC Class A	<u>230 SKS</u>	<u>11.50</u>	<u>2645.00</u>
Pl Seal	<u>50 #</u>	<u>2.97</u>	<u>148.50</u>
Class A Common	<u>50 SKS</u>	<u>17.90</u>	<u>895.00</u>
	@		
	@		
	@		
	@		
HANDLING <u>303.84 FTB</u>	@	<u>2.48</u>	<u>752.58</u>
MILEAGE <u>649.20 Ton m.l</u>	<u>2.60</u>		<u>1687.92</u>
TOTAL			<u>7303.70</u>

REMARKS:

SERVICE

CHARGE TO: Strata Exploration Inc  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 3205.47

PLUG & FLOAT EQUIPMENT

<u>NA</u>	@		
	@		
	@		
	@		
	@		
TOTAL			<u>0</u>

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) \_\_\_\_\_  
 TOTAL CHARGES 10509.19  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME Michael Polley  
 SIGNATURE Michael Polley

Net = 8932.79