



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1106691  
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: \_\_\_\_\_



1106691

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	KU Endowment 1-20
Doc ID	1106691

All Electric Logs Run

MAI/MFE
MSS
MPD/MDN
MML

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	KU Endowment 1-20
Doc ID	1106691

Tops

Name	Top	Datum
Heebner	3972	-785
Lansing	4020	-833
Stark Shale	4329	-1142
Hushpuckney	4383	-1196
Base KC	4467	-1280
Marmaton	4501	-1314
Pawnee	4600	-1413
Ft. Scott	4623	-1436
Johnson	4735	-1548
Morrow	4834	-1647
Basal Penn	4926	-1739
Mississippian	4954	-1767
St. Louis	5005	-1818
Spergen	5223	-2036

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  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 12, 2013

Jay Schweikert  
Lario Oil & Gas Company  
301 S MARKET ST  
WICHITA, KS 67202-3805

Re: ACO1  
API 15-203-20196-00-00  
KU Endowment 1-20  
NW/4 Sec.20-19S-35W  
Wichita 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,  
Jay Schweikert



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 255392

Invoice Date: 12/17/2012 Terms: 15/15/30,n/30

Page 1

LARIO OIL & GAS  
P.O. BOX 1093  
GARDEN CITY KS 637846  
(316)265-5611

KU Endowment #1-20  
39204  
31-18-35  
12-14-2012  
KS

Drilling  
AFE 12-322  
CK 12/20/12

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	240.00	17.6500	4236.00
1102	CALCIUM CHLORIDE (50#)	678.00	.8900	603.42
1118B	PREMIUM GEL / BENTONITE	452.00	.2500	113.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-742.86
9995-130	CEMENT EQUIPMENT DISCOUNT	-305.79

Description	Hours	Unit Price	Total
399 CEMENT PUMP (SURFACE)	1.00	1085.00	1085.00
399 EQUIPMENT MILEAGE (ONE WAY)	40.00	5.00	200.00
566 TON MILEAGE DELIVERY	1.00	753.60	753.60

*Surf Coy*

*all  
OK*

*[Signature]*

Amount Due 7402.07 if paid after 01/16/2013

Parts:	4952.42	Freight:	.00	Tax:	349.39	AR	6291.76
Labor:	.00	Misc:	.00	Total:	6291.76		
Sublt:	-1048.65	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_ Date \_\_\_\_\_



**CONSOLIDATED**  
Oil Well Services, LLC

1 ET NUMBER 39204  
LOCATION Oakley KS  
FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

KU Endowment CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-14-12	4793	<del>Kross</del> <u>KU Endowment #1-31</u>	31	185	35W	Wichita
CUSTOMER <u>Larid Oil Gas</u>			Marianhol US E.S.			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			<u>399</u>	<u>Jerry Y</u>		
STATE			<u>526</u>	<u>Travis W</u>		
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 349 CASING SIZE & WEIGHT 1 7/8 23#  
 CASING DEPTH 346.5' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL 1.2' WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 20% bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting and rig up on well Drilling #2 Circulate Casings  
m.x 240sls common with 32 calcium chloride dis place 20% bbls Shut in  
Cement did Circulate 6bbls stop it

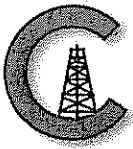
*Thanks Miles & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015		PUMP CHARGE	1085. <sup>00</sup>	1085. <sup>00</sup>
54076	40	MILEAGE	50 <sup>00</sup>	200. <sup>00</sup>
5407A	11.28 tons	Ton Mileage delivery	16.67	753.60
11045	240 sls	Class A cement	17.65	4236. <sup>00</sup>
1102	678 #	Calcium Chloride	.89	603.42
118B	45 #	Bentonite gel	.25	11.25
			Subtotal	6991.02
			less 158 dis count	1048.05
			Subtotal	5942.97
			SALES TAX	349.39
			ESTIMATED TOTAL	6291.76

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

255392



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

MAIN OFFICE  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 255792

Invoice Date: 01/15/2013 Terms: 15/15/30,n/30

Page 1

LARIO OIL & GAS  
P.O. BOX 1093  
GARDEN CITY KS 637846  
(316)265-5611

KU ENDOWMENT 1-20  
39288  
20-19-35  
01-11-2013  
KS

*Drilling AFE 12-322  
1-12-13 LK*

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	250.00	22.5500	5637.50
1110A	KOL SEAL (50# BAG)	1250.00	.5600	700.00
1131	60/40 POZ MIX	620.00	15.1000	9362.00
1118B	PREMIUM GEL / BENTONITE	4264.00	.2500	1066.00
1107	FLO-SEAL (25#)	155.00	2.8200	437.10
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4253	TYPE A PACKER SHOE61/2X6	1.00	1760.0000	1760.00
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4130	CENTRALIZER 5 1/2"	16.00	58.0000	928.00
4104	CEMENT BASKET 5 1/2"	1.00	276.0000	276.00
4277	DV TOOL SIZE 5 1/2" (STA	1.00	4800.0000	4800.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-3905.04
9995-130	CEMENT EQUIPMENT DISCOUNT	-919.76

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3020.00	3020.00
399 EQUIPMENT MILEAGE (ONE WAY)	45.00	5.00	225.00
460 TON MILEAGE DELIVERY	1.00	962.25	962.25
T-127 TON MILEAGE DELIVERY	1.00	962.25	962.25
566 TON MILEAGE DELIVERY	1.00	962.25	962.25

*all*  
*OK TO PAY*  
JAN 22 2013

Amount Due 34326.14 if paid after 02/14/2013

Parts:	26033.60	Freight:	.00	Tax:	1836.67	AR	29177.22
Labor:	.00	Misc:	.00	Total:	29177.22		
Sublt:	-4824.80	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_ Date \_\_\_\_\_





**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

TICKET NUMBER 39288  
LOCATION Oakley Ks  
FOREMAN Miles Shaw  
Walt Dinkel

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																				
1-11-13	4793	KU Endowment 1-20	20	195	35W	Wichita																				
CUSTOMER <u>Lario Oil + Gas</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>399</td> <td>Jerry Yates</td> <td></td> <td></td> </tr> <tr> <td>566</td> <td>Tim Wadham</td> <td></td> <td></td> </tr> <tr> <td>528-T127</td> <td>Jeromey</td> <td></td> <td></td> </tr> <tr> <td>460</td> <td>Phillip</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	399	Jerry Yates			566	Tim Wadham			528-T127	Jeromey			460	Phillip		
TRUCK #	DRIVER	TRUCK #					DRIVER																			
399	Jerry Yates																									
566	Tim Wadham																									
528-T127	Jeromey																									
460	Phillip																									
MAILING ADDRESS																										
CITY																										
STATE																										
ZIP CODE																										

JOB TYPE Prod-2-Stage HOLE SIZE 7 7/8 HOLE DEPTH 5263' CASING SIZE & WEIGHT 5 1/2 - 14"  
CASING DEPTH 5130 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DY 2402'  
SLURRY WEIGHT 14.2, 12.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT In CASING Shoe 22.43'  
DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 6 BPM

REMARKS: Safety meeting, Rig up on W-W #2, Circ casing on bottom 1/2 hrs  
Pumped 5 BBL H<sub>2</sub>O, 500 gal mud flush, mixed 250 sks OWC, 5# Kalseal  
2 14.2 PPS, clear Pump + lines, release Plug + Displace 70 BBL H<sub>2</sub>O, 58 BBL mud  
2 1100# max, Landed Plug 2 1600#, release Pressure, Hold open Tool circ 3 hrs  
mix 20 sks in milk, 30 sks in R.H.  
mixed 570 sks 6940ppz, 8% Col 1/2# Flo-Seal, clear Pump + lines  
release Plug + displace 57 1/2 BBL H<sub>2</sub>O 2 800#, Landed 2 2000#, release Pressure  
Held

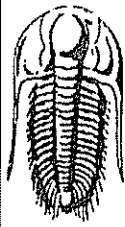
Cement Did Circ Thank You  
Walt Miles + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3020 <sup>00</sup>	3,020 <sup>00</sup>
5406	45	MILEAGE	5 <sup>00</sup>	225 <sup>00</sup>
1126	250 sks	OWC	22 <sup>55</sup>	5,637 <sup>50</sup>
1110A	1250 #	Kalseal	56	700 <sup>00</sup>
1131	620 sks	6940ppz	15 <sup>10</sup>	9,362 <sup>00</sup>
1118B	4264 #	Gal	.25	1,066 <sup>00</sup>
1107	155 #	Flo-Seal	2 <sup>82</sup>	437 <sup>10</sup>
1144 6	500 gal	mud Flush	1 <sup>00</sup>	500 <sup>00</sup>
5407A	38.41	Ton Mileage Delivery	1 <sup>87</sup>	2,886 <sup>75</sup>
4253	1	5 1/2 Packer Shoe	1760 <sup>00</sup>	1,760 <sup>00</sup>
4454	1	5 1/2 Latch down Plugassy	567 <sup>00</sup>	567 <sup>00</sup>
4130	16	5 1/2 Centralizers	58 <sup>00</sup>	928 <sup>00</sup>
4104	1	5 1/2 Basket	276 <sup>00</sup>	276 <sup>00</sup>
4277	1	5 1/2 DY Tool	4800 <sup>00</sup>	4,800 <sup>00</sup>
				32,165 <sup>35</sup>
		Less 15% Disc		- 4,824 <sup>81</sup>
				27,340 <sup>55</sup>
		SALES TAX		1836.67
		ESTIMATED TOTAL		29177.22

AUTHORIZATION Darin L. Dinkel TITLE \_\_\_\_\_ DATE 1/11/13

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

255792



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company  
 301 S Market St.  
 Wichita KS  
 67202  
 ATTN: Tim Lauer

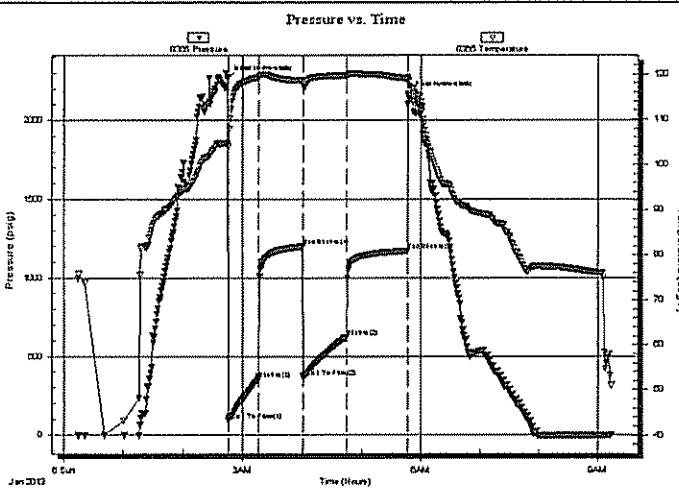
**20-19-35 Wichita Co KS**  
**KU Endowment 1-20**  
 Job Ticket: 51323      DST#: 1  
 Test Start: 2013.01.06 @ 00:14:15

**GENERAL INFORMATION:**

Formation: **Marmaton A**  
 Deviated: **No Whipstock:**                      ft (KB)  
 Time Tool Opened: **02:45:15**  
 Time Test Ended: **09:13:45**  
 Interval: **4509.00 ft (KB) To 4530.00 ft (KB) (TVD)**  
 Total Depth: **4530.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Mike Roberts**  
 Unit No: **65**  
 Reference Elevations: **3186.00 ft (KB)**  
    **3181.00 ft (CF)**  
    **KB to GR/CF: 5.00 ft**

**Serial #: 8365**      **Outside**  
 Press@RunDepth: **625.99 psig @ 4510.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2013.01.06**      End Date: **2013.01.06**      Last Callb.: **2013.01.07**  
 Start Time: **00:14:15**      End Time: **09:13:45**      Time On Btm: **2013.01.06 @ 02:44:45**  
    **09:13:45**      Time Off Btm: **2013.01.06 @ 05:47:00**

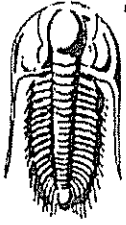
**TEST COMMENT:** IF:BOB in 2 min.  
 IS:BOB in 9 min.  
 IS:BOB in 3 min.  
 FF:BOB in 14 min.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2266.40	104.46	Initial Hydro-static
1	94.19	103.83	Open To Flow (1)
32	356.17	119.30	Shut-In(1)
76	1198.97	118.57	End Shut-In(1)
77	368.45	117.94	Open To Flow (2)
120	625.99	119.64	Shut-In(2)
182	1171.11	118.98	End Shut-In(2)
183	2164.58	118.63	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1620.00	gco 10%g 90%o	21.59
224.00	mcgo 5% m 10%g 85%o	3.14
0.00	GIP= 720 feet	0.00

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-19-35 Wichita Co KS

301 S Market St.  
Wichita KS  
67202  
ATTN: Tim Lauer

**KU Endowment 1-20**  
Job Ticket: 51323      DST#: 1  
Test Start: 2013.01.06 @ 00:14:15

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

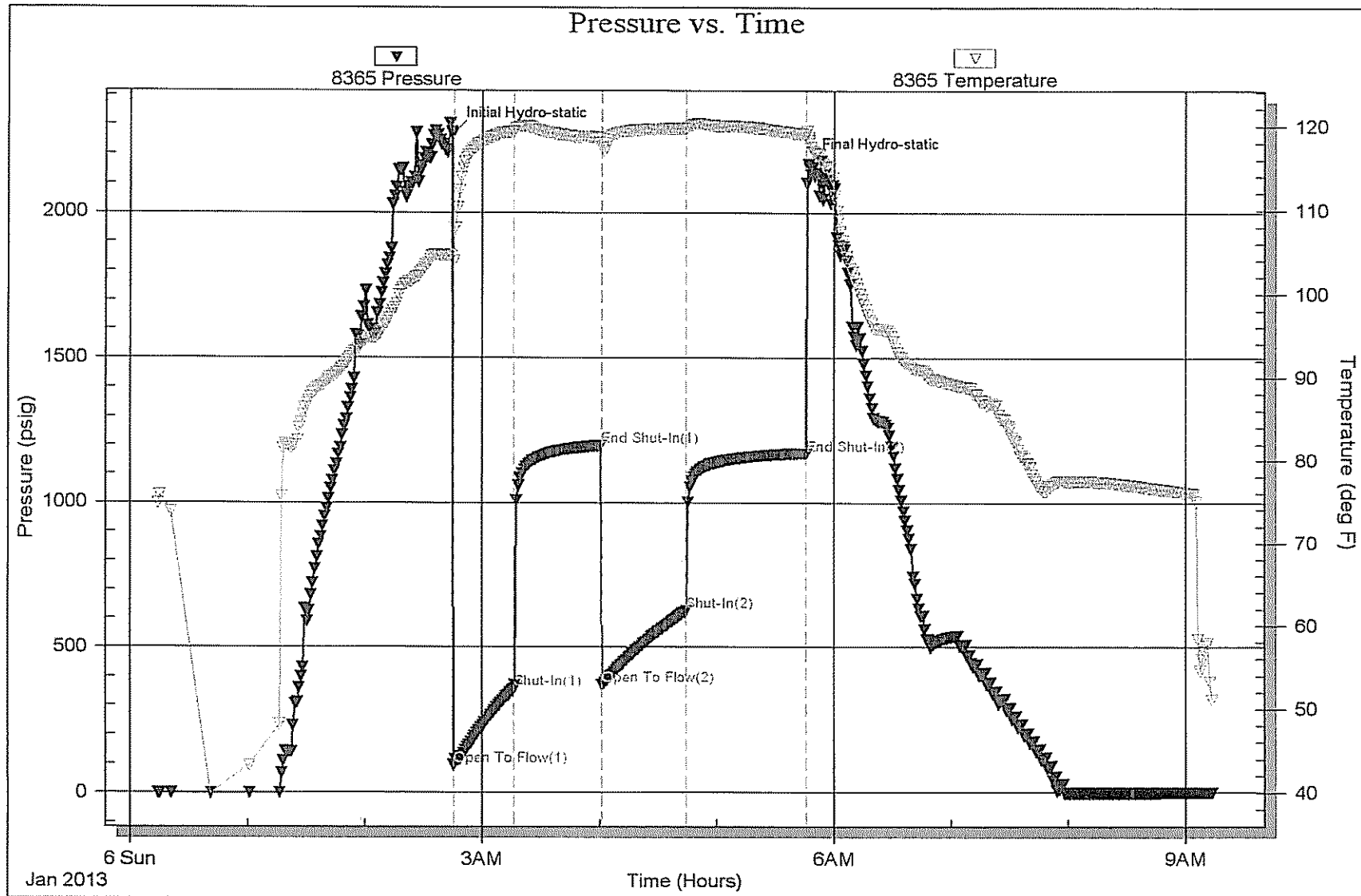
Length ft	Description	Volume bbl
1620.00	gco 10%g 90%o	21.595
224.00	mcgo 5%m 10%g 85%o	3.142
0.00	GIP= 720 feet	0.000

Total Length: 1844.00 ft      Total Volume: 24.737 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: APF= 29@30 corrected to 32 @ 60





**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-19-35 Wichita Co KS

301 S Market St.  
Wichita KS  
67202  
ATTN: Tim Lauer

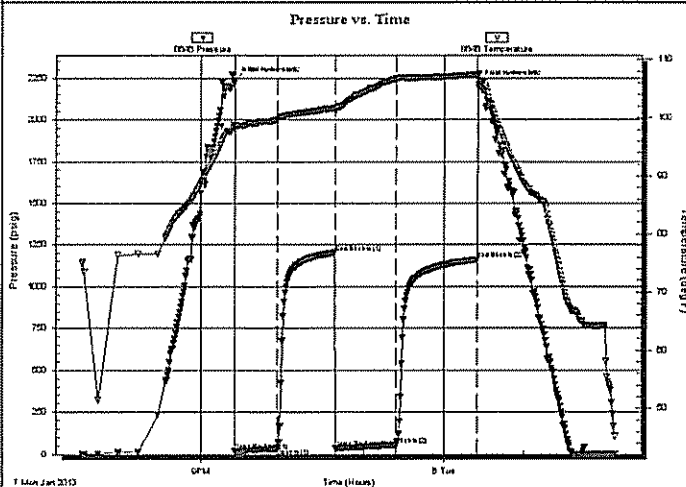
**KU Endowment 1-20**  
Job Ticket: 51324      DST#: 2  
Test Start: 2013.01.07 @ 19:31:15

### GENERAL INFORMATION:

Formation: **Marmaton B**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 21:25:15  
 Time Test Ended: 02:09:00  
 Interval: **4529.00 ft (KB) To 4555.00 ft (KB) (TVD)**  
 Total Depth: **4555.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 65  
 Reference Elevations: **3186.00 ft (KB)**  
**3181.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

Serial #: **8646**      Inside  
 Press@RunDepth: **57.79 psig @ 4530.00 ft (KB)**  
 Start Date: **2013.01.07**      End Date: **2013.01.08**  
 Start Time: **19:31:15**      End Time: **02:09:00**  
 Capacity: **8000.00 psig**  
 Last Calib.: **2013.01.08**  
 Time On Btm: **2013.01.07 @ 21:24:45**  
 Time Off Btm: **2013.01.08 @ 00:25:30**

TEST COMMENT: IF: Built to 1/2" blow  
 IS: No return blow  
 FF: Built to weak surface blow  
 FS: No return blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.55	98.79	Initial Hydro-static
1	19.20	98.18	Open To Flow (1)
32	35.96	99.73	Shut-In(1)
75	1204.16	101.73	End Shut-In(1)
75	37.76	101.24	Open To Flow (2)
120	57.79	106.77	Shut-In(2)
180	1162.49	107.45	End Shut-In(2)
181	2215.04	107.57	Final Hydro-static

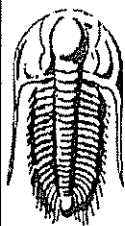
### Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w 100% mth oil spots	0.30

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-19-35 Wichita Co KS

301 S Market St.  
Wichita KS  
67202  
ATTN: Tim Lauer

**KU Endowment 1-20**  
Job Ticket: 51324      DST#: 2  
Test Start: 2013.01.07 @ 19:31:15

### Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	9.58 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4300.00 ppm				
Filter Cake:	1.00 inches				

### Recovery Information

Recovery Table

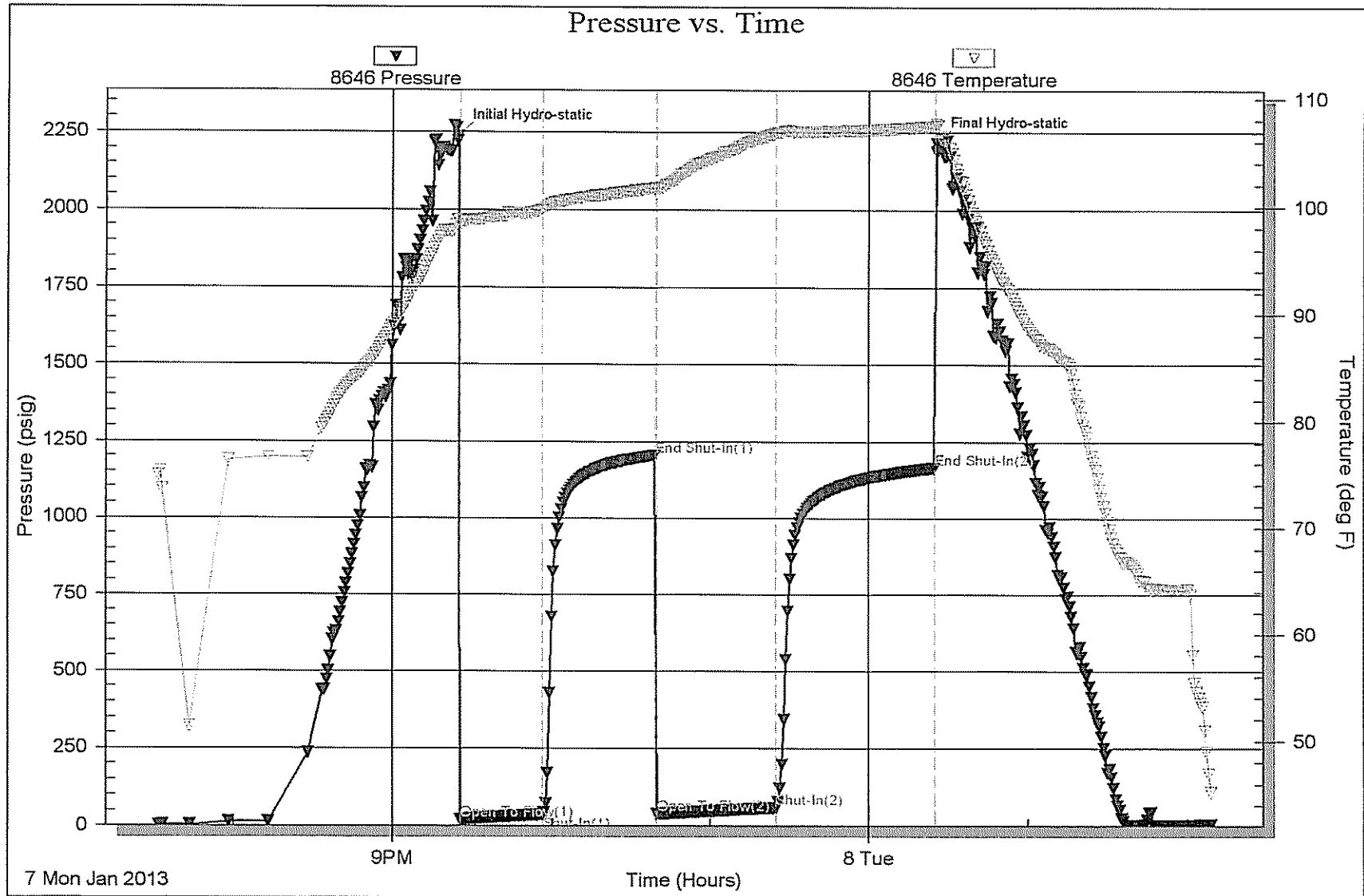
Length ft	Description	Volume bbbl
60.00	mud w 100% mth oil spots	0.295

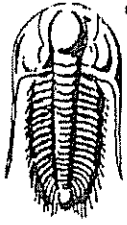
Total Length: 60.00 ft      Total Volume: 0.295 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larlo Oil & Gas Company  
 301 S Market St.  
 Wichita KS  
 67202  
 ATTN: Tim Lauer

**20-19-35 Wichita Co KS**

**KU Endowment 1-20**

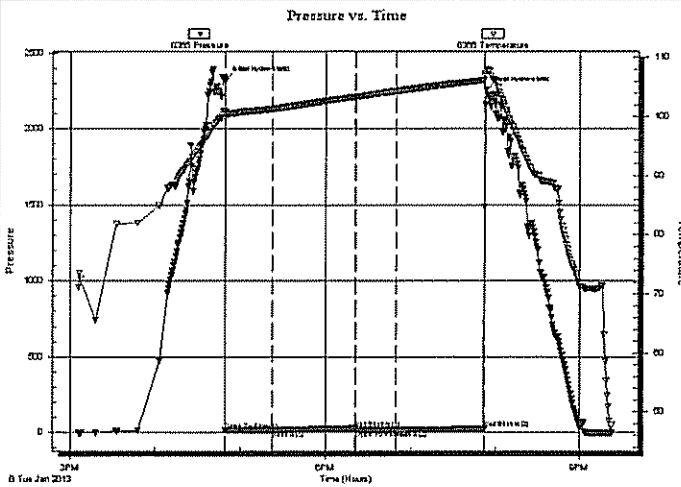
Job Ticket: 51325      DST#: 3  
 Test Start: 2013.01.08 @ 15:06:15

**GENERAL INFORMATION:**

Formation: **Ft. Scott**  
 Deviated: **No Whipstock:**      ft (KB)  
 Time Tool Opened: 16:49:30  
 Time Test Ended: 21:23:15  
 Interval: **4616.00 ft (KB) To 4640.00 ft (KB) (TVD)**  
 Total Depth: **4640.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Mike Roberts**  
 Unit No: **65**  
 Reference Elevations: **3186.00 ft (KB)**  
**3181.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

**Serial #: 8365**      **Outside**  
 Press@RunDepth: **17.02 psig @ 4617.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2013.01.08**      End Date: **2013.01.08**      Last Calib.: **2013.01.08**  
 Start Time: **15:06:15**      End Time: **21:23:15**      Time On Btm: **2013.01.08 @ 16:49:15**  
 Time Off Btm: **2013.01.08 @ 19:53:30**

**TEST COMMENT:** IF:Weak surface blow died in 10 min.  
 IS:No return blow  
 FF:No blow  
 FS:No return blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2321.95	100.94	Initial Hydro-static
1	15.12	99.75	Open To Flow (1)
33	16.69	101.31	Shut-In(1)
91	29.17	103.36	End Shut-In(1)
92	16.09	103.37	Open To Flow (2)
121	17.02	104.33	Shut-In(2)
183	23.96	106.17	End Shut-In(2)
185	2257.56	108.03	Final Hydro-static

**Recovery**

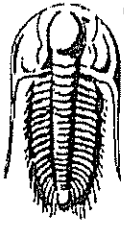
Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

\* Recovery from multiple tests

**Gas Rates**

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas Company  
301 S Market St.  
Witchita KS  
67202  
ATTN: Tim Lauer

**20-19-35 Wichita Co KS**  
**KU Endowment 1-20**  
Job Ticket: 51325      DST#: 3  
Test Start: 2013.01.08 @ 15:06:15

**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: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filler Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft      Total Volume: bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

