



WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:  
 Yes  No

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: \_\_\_\_\_

1077515

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	BEREXCO LLC
Well Name	Douglas 1X
Doc ID	1077515

All Electric Logs Run

Compact Photo Density Compensated Neutron Log
Array Induction Shallow Focused Electric Log
Compensated Sonic Log With Integrated Transit Time
Microresistivity Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Douglas 1X
Doc ID	1077515

Tops

Name	Top	Datum
Anhydrite	1398	+848
Heebner Shale	3791	-1545
Lansing	3847	-1601
Kansas City (Base)	4145	-1899
Marmaton	4210	-1964
Pawnee	4304	-2058
Fort Scott	4369	-2123
Cherokee Shale	4393	-2147
Mississippi	4554	-2208
RTD	4543	-2297

## Summary of Changes

Lease Name and Number: Douglas 1X

API/Permit #: 15-083-21742-00-00

Doc ID: 1077515

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	02/08/2012	03/29/2012
Completion Or Recompletion Date	01/26/2012	02/24/2012
Date of First or Resumed Production or SWD or Enhr Liner Run?		02/24/2012
Method Of Completion - Perf	No	Yes
Perf_Record_1	4456 - 4459	4456 - 4459 Mississippi
Producing Method Pumping	No	Yes
Production - Barrels Oil		60.3
Production - Barrels of Water		691
Production - MCF Gas		0

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Production - Oil Gravity		39
Production Interval #1		4456 - 4459
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1072594	../../../../kcc/detail/operatorEditDetail.cfm?docID=1077515
Tubing Packer At		no pkr
Tubing Record - Set At		4473
Tubing Size		2-7/8"



**CONFIDENTIAL**

**WELL COMPLETION FORM**

**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

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



1072594

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
---	---

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ 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 <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
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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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Douglas 1X
Doc ID	1072594

All Electric Logs Run

Compact Photo Density Compensated Neutron Log
Array Induction Shallow Focused Electric Log
Compensated Sonic Log With Integrated Transit Time
Microresistivity Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Douglas 1X
Doc ID	1072594

Tops

Name	Top	Datum
Anhydrite	1398	+848
Heebner Shale	3791	-1545
Lansing	3847	-1601
Kansas City (Base)	4145	-1899
Marmaton	4210	-1964
Pawnee	4304	-2058
Fort Scott	4369	-2123
Cherokee Shale	4393	-2147
Mississippi	4554	-2208
RTD	4543	-2297

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

January 23, 2012

Evan Mayhew  
BEREXCO LLC  
2020 N. BRAMBLEWOOD  
WICHITA, KS 67206-1094

Re: ACO1  
API 15-083-21742-00-00  
Douglas 1X  
SW/4 Sec.17-22S-22W  
Hodgeman 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,  
Evan Mayhew



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 33755  
LOCATION Oakley Ks  
FOREMAN Walt Dinkel

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

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-7-11	1707	Douglas #1 X	17	22	22	Hodgeman
CUSTOMER Berexco Inc			Jetmore Et #25 3/2N 1/2 E			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			528-127	Wes Flynn		
STATE						
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 260' CASING SIZE & WEIGHT 8 5/8 - 24#  
 CASING DEPTH 254' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 15 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Safety Meeting, rig up on Berexco #2, Circ casing on bottom  
Mix 17.5 SKs com, 3% CC - 2% cal, Displace 15 BBL H2O, Shut in

Cement Did Circ

Approx 5 BBL to P.T

4 P

Thank You  
Walt + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1,025.00	1,025.00
5406	35	MILEAGE	5.00	175.00
11045	175 SKs	Class A Cement	14.25	2493.75
1102	494#	Calcium Chloride	1.70	345.80
1118B	329#	Bentonite	1.20	65.80
5407	8.22	Ton Mileage Delivery	1.58	330.00
				4435.35
		Less 10% Disc		443.54
				3991.81
			SALES TAX	194.79
		246325	ESTIMATED TOTAL	4186.60

Ravin 3737

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.



**CONSOLIDATED**  
OILFIELD SERVICES

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

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

TICKET NUMBER 33714  
LOCATION Oakley  
FOREMAN Kelly Gabe  
Shannon Feck  
KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-15-11	1707	Douglas #1 X	17	23 <sup>s</sup>	23 <sup>w</sup>	Hodgeman
CUSTOMER <u>Belexco</u>						
MAILING ADDRESS						
CITY		STATE	ZIP CODE			

TRUCK #	DRIVER	TRUCK #	DRIVER
399	Damon M		
566	Cody R		
57847137	Derrick G		

JOB TYPE DV-Prod HOLE SIZE 7 1/4 HOLE DEPTH 4550 CASING SIZE & WEIGHT 5 1/2 14 1/2  
CASING DEPTH 4543 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DV @ 2602  
SLURRY WEIGHT 125-142 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 42"  
DISPLACEMENT 110 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting, Rigged up on Beredco #2, Pumped 500gal Mud Flush, Mixed 200 SKS 60/40 Poz 8% gel 1/4" # Flo-seal followed by 150 SKS Com, Displaced with 50 bbl 4bl bbl mud, lift pressure 700 # & Plug end 1500 #. Dropped DV Bomb & waited 15 min & opened tool @ 1100 #, circulated 2 hrs, Mixed 30 SKS RH & 20 SKS MH, Mixed 300 SKS lite 1/4" # Flo-seal followed by 75 SKS Com, Released Plug & displaced with 6 3/2 bbl H2O released Pressure float held, Cent. on Jts, 1, 3, 5, 7, 9, 11, 13, 15, 17 & 49 Basket on #47, DV Tool on top of #46 approx 0 bbl to Pit Top stage lift 500 # Plug end 1500 #

*Thank You Kelly & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	2850 <sup>00</sup>	2850 <sup>00</sup>
5406	35 mi	MILEAGE	175 <sup>00</sup>	175 <sup>00</sup>
11045	225 SKS	class A cement	14 <sup>35</sup>	3206 <sup>75</sup>
1131	550 SKS	60/40 Poz	1195	6572 <sup>50</sup>
1118B	3784 #	Bentonite	.20	756 <sup>80</sup>
1110A	750 #	Kal-seal	.44	330 <sup>00</sup>
1107	138 #	Flo-seal	2.33	306 <sup>36</sup>
1111	723 #	salt	.35	253 <sup>05</sup>
5407A	34.23	Ton Mile legged delivery	158	1882 <sup>20</sup>
11446	500 gal	Mud flush	1 <sup>00</sup>	500 <sup>00</sup>
4159	1	5 1/2 AFH Floe & shoe	344 <sup>00</sup>	344 <sup>00</sup>
4130	10	5 1/2 Centralizers	48 <sup>00</sup>	480 <sup>00</sup>
4104	1	5 1/2 Basket	229 <sup>00</sup>	229 <sup>00</sup>
4283	1	5 1/2 DV Tool w/ latch down	3850 <sup>00</sup>	3850 <sup>00</sup>
4309	1	5 1/2 clamp	30 <sup>00</sup>	30 <sup>00</sup>
				21775 <sup>76</sup>
			246584	21775 <sup>8</sup>
				19598 <sup>18</sup>
			SALES TAX	1130.34
			ESTIMATED TOTAL	20728 <sup>52</sup>

5:30 PM

AUTHORIZATION Mal 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.

Douglas 1X

MACKLIN M. ARMSTRONG

Geologist

License Number 743

316-209-5047

Scale 1:240 Imperial

Well Name: Douglas No. 1X  
Surface Location: Sec 17 T22S R22W  
Bottom Location: 1570' FSL and 1847' FWL  
API: 15-083-21742  
License Number: 34317  
Spud Date: 12/7/2011 Time: 5:30 AM  
Region: Hodgeman County, Kansas  
Drilling Completed: 12/15/2011 Time: 6:18 AM  
Surface Coordinates:  
Bottom Hole Coordinates:  
Ground Elevation: 2233.00ft  
K.B. Elevation: 2246.00ft  
Logged Interval: 1300.00ft To: 4543.00ft  
Total Depth: 4550.00ft  
Formation: Mississippi  
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Berexco LLC  
Address: 2020 North Bramblewood  
Wichita, Kansas 67206  
Contact Geologist:  
Contact Phone Nbr: 316-337-8331  
Well Name: Douglas No. 1X  
Location: Sec 17 T22S R22W  
Pool: Oil  
State: Kansas  
API: 15-083-21742  
Field: Hanston-Oppy  
Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical  
Longitude: 99.76486 Latitude: 38.13522  
N/S Co-ord:  
E/W Co-ord:

LOGGED BY

Company: Macklin M. Armstrong  
Address: 100 South Ridge Road  
Wichita, Kansas 67209  
Phone Nbr: 316-209-5047  
Logged By: Macklin M. Armstrong Name: Kansas License Number 743

CONTRACTOR

Contractor: Beredco  
Rig #: 2  
Rig Type: mud rotary

Rig Type: mud rotary  
 Spud Date: 12/7/2011  
 TD Date: 12/15/2011  
 Rig Release: 12/16/2011

Time: 5:30 AM  
 Time: 6:18 AM  
 Time: 6:00 PM

**ELEVATIONS**

K.B. Elevation: 2246.00ft  
 K.B. to Ground: 13.00ft  
 Ground Elevation: 2233.00ft

**NOTES**

Date	Depth at 7 am	Activity
12-06-11	MIRU	
12-07-11	100	Drilling
12-08-11	345	Drilling
12-09-11	1609	Drilling
12-10-11	2520	Drilling
12-11-11	3160	Drilling
12-12-11	3861	Drilling
12-13-11	4266	Drilling
12-14-11	4468	TOH for DST No.1
12-15-11	4550	Cir for Log
12-16-11	4550	Set 5 1/2"

Surface Casing: 8 5/8" 20# at 260  
 Production Casing: 5 1/2" 14# at 4543

Deviation: 1234 - 1.5 deg; 2264 - 1.25 deg; 3327 - 1.5 deg; 4468 - 1.5 deg

Bit Record:	Make	Type	Depth In	Depth Out	Hours
	Smith	F27IX	260	4550	106

**Drill Stem Tests:**

DST No. 1 4402 to 4468 Formation: Mississippi  
 30-60-60-60  
 Recovery: 50' Oil (39 deg gravity)  
 445' GOMW (10%G, 10%O, 40%M, 40%W)  
 651' GOMW (10%G, 10%O, 30%M, 50%W)  
 1000' MW (Chlorides - 43,000 ppm)  
 IHP 2240 FHP 2083  
 FFP 41-544 FFP 556-964  
 ISIP 1310 FSIP 1307  
 Temp 132 deg

Formation	Sample	E-Log	Datum	Well 1	Well 2	Well 3
Anhydrite		1398	+848	+4	+4	+2
Heebner	3798	3791	-1545	+5	+4	+6
Lansing	3855	3847	-1601	+9	+7	+9
B/Kansas City	4153	4145	-1899	+7	+4	+11
Marmaton	4221	4210	-1964	+12	+13	+15
Pawnee	4322	4304	-2058	+10	+9	+15
Fort Scott	4381	4369	-2123	+11	+9	+15
Cherokee Shale	4404	4393	-2147	+10	+10	+15
Mississippi	4465	4554	-2208	+18	+5	+11
Total Depth	4550	4543	-2297			

Well 1: Sunray DX Oil Ewy No. 1 C NW SW Sec 17 T22S R22W  
 Well 2: Sunray DX Oil Ewy No. 2 C NE SW Sec 17 T22S R22W  
 Well 3: Sunray DX Oil Ewy No. 3 C SE SW Sec 17 T22S R22W

Pipe was set to further test the Mississippi Zone.

Respectfully submitted,  
 Macklin M. Armstrong

**ROCK TYPES**

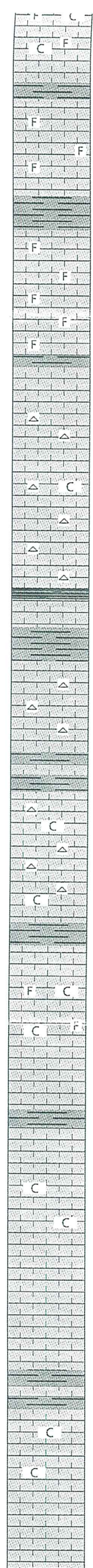
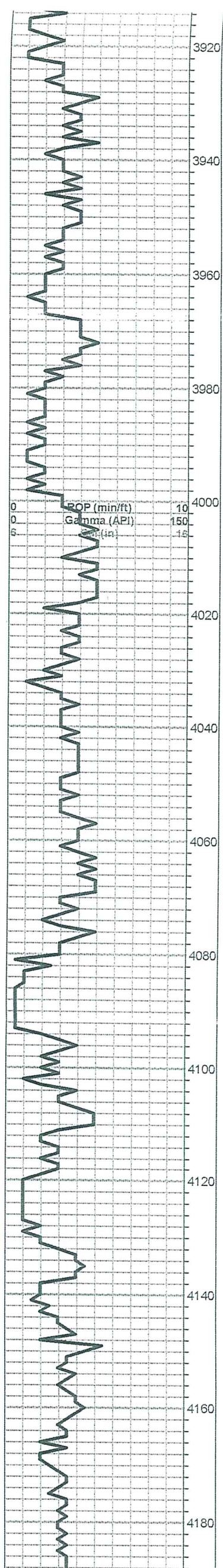
	Cht		Lmst fw7>		Carbon Sh
	Dolprim		shale, gry		

**ACCESSORIES**

<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
△ Chert White	F Fossils < 20%		C Chalky

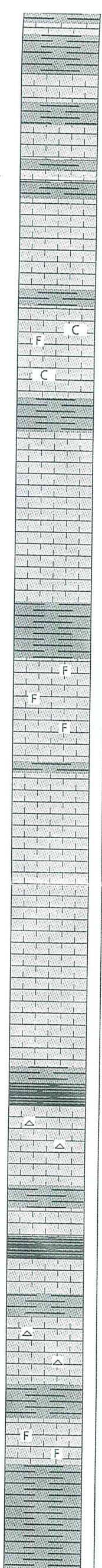
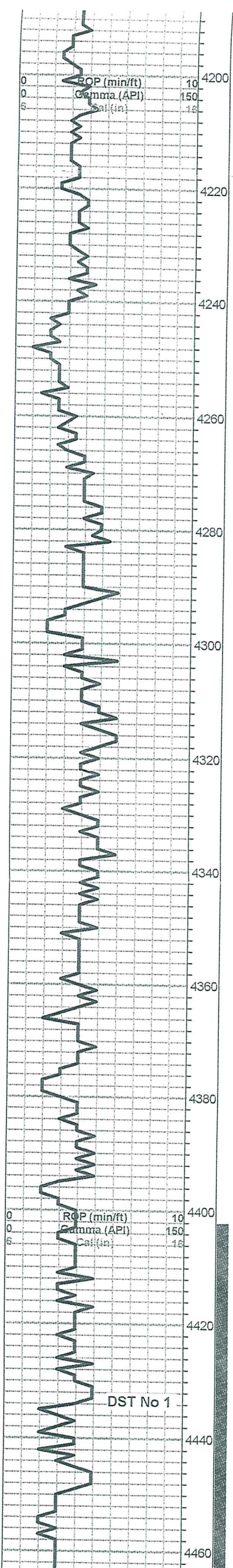






Ls-AA  
 Ls-crm/lt tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-crm/tan f/mxln mhd sl fos no por  
 Ls-AA  
 Sh-gry/dk gry  
 Ls-tan/lt gry f/mxln mhd sl fos no por  
 Ls-AA  
 Ls-tan fxln dns sl fos no por  
 Sh-gry/dk gry  
 Ls-crm/tan fxln dns no por  
 Ls-crm/lt tan fxln mhd no por sm Cht-wt fsh opac  
 Ls-AA sm Cht-AA  
 Ls-crm/lt tan fxln mhd sl clkly no por sm Cht-wt fsh opac  
 Ls-crm f/mxln dns no por sm Cht-AA  
 Ls-AA sm Cht-AA  
 Sh-blk carb  
 Ls-crm/tan fxln mhd no por  
 Sh-gry/dk gry  
 Ls-crm/tan f/mxln mhd no por sm Cht-wt fsh opac  
 Ls-AA sm Cht-AA  
 Sh-gry/dk gry  
 Sh-gry/dk gry  
 Ls-crm/lt tan fxln mhd sl clkly no por sm Cht-wt/gry wt fsh  
 Ls-AA sm Cht-AA  
 Ls-crm/tan fxln dns no por  
 Ls-crm lt tan fxln mhd clkly no por sm Cht-wt/gry wt fsh opac  
 Sh-gry/dk gry  
 Ls-crm/tan fxln mhd/dns no por  
 Ls-crm/lt tan fxln soft sl fos clkly fr inter xln por nsfo  
 Ls-AA  
 Ls-crm/tan fxln mhd/dns no por  
 Ls-crm/tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-crm/tan fxln mhd/dns no por  
 Ls-crm/lt tan f/mxln soft clkly fr interxln por nsfo  
 Ls-AA  
 Ls-tan fxln dns no por  
 Ls-tan f/mxln mhd trc interxln por nsfo  
 Ls-tan/brn fxln dns no por  
 -----B/KansasCity 4153 -1907-----  
 Sh-gry/dk gry  
 Ls-crm/lt tan fxln mhd clkly no por  
 Ls-AA  
 Ls-tan fxln dns no por  
 Ls-AA

Mud Data at 3931'  
 10:55 am 12-12-11  
 Wt 9  
 Vis 44  
 WL 9.6  
 pH 10  
 Chl 10,200  
 Sol 4.4%  
 YP 13  
 LCM 1#



Sh-gry/dk gry

Sh-gry/dk gry

Ls-tan fxln dns no por

Sh-gry/dk gry

Ls-tan/brn fxln dns no por

Sh-gry/dk gry/gry grn

-----Marmaton 4221 -1975-----

Ls-tan/brn fxln dns no por

Ls-AA

Sh-gry/dk gry/gry grn

F C

Ls-frm/tan f/mxln mhd sl fos sl clky trc inter xln por nsfo

C

Ls-frm/lt tan fxln mhd sl clky no por

Sh-gry/dk gry

Ls-frm/tan fxln dns no por

Ls-AA

Ls-frm/tan fxln dns no por

Ls-AA

Sh-gry/dk gry

F

Ls-frm/tan fxln dns fos no por

F

Ls-AA

-----Pawnee 4322 -2076-----

Ls-tan fxln dns no por

Ls-AA

Ls-tan fxln dns no por

Ls-AA

Ls-tan fxln dns no por

Ls-frm/tan fxln dns no por

Ls-tan/brn fxln dns no por

Sh-blk carb

-----Fort Scott 4381 -2135-----

Ls-tan/brn fxln dns no por sm Cht-wt/gry wt fsh opac

Ls-AA

Sh-gry/dk gry

Ls-frm/tan/lt gry fxln mhd no por

-----Cherokee Shale 4404 -2158-----

Sh-gry/dk gry

Ls-frm/tan fxln dns no por

Sh-gry/dk gry

Ls-tan/frm fxln dns no por sm Cht-wt/gry wt fsh opac

Sh-gry/dk gry/grn/mar sm red brn

F F

Ls-tan fxln dns sl fos no por

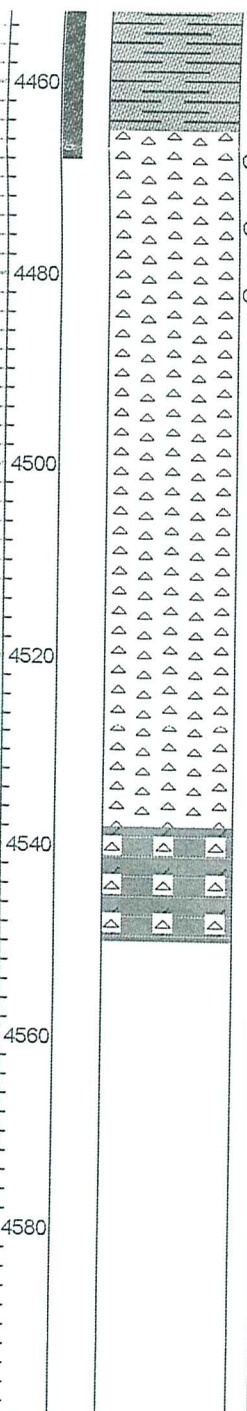
Sh-gry/dk gry/grn/mar

Sh-AA

CFS at 4270' - 45"

Mud Data at 4296'  
 10:30 am 12-13-11  
 Wt 9.4  
 Vis 51  
 WL 9.6  
 pH 11  
 Chl 8200  
 Sol 7.4%  
 YP 17  
 LCM 1#

DST No. 1 4402 to 4468  
 1st Open: BOB in 4'15"  
 2nd Open: BOB in 6"30"  
 Rec: 50' Oil (39 deg grav)  
 1096' GOMW  
 1000' MW (43,000 ppm)  
 IHP 2240 FHP 2083  
 IFP 41-544 FFP 556-964  
 ISIP 1310 FSIP 1307  
 Temp 132 deg



Sh-AA

-----Mississippi 4465 -2219-----

① Cht-wt/gry wt fsh sm sl weat trc stn fr fluor fr cut in few pcs faint odor ssfo

② Cht-wt/gry wt fsh and trip brn stn fr fluor fr cut faint odor ssfo

③ Cht-wt/gry wt fsh and sl trip opac sl brn stn vssfo

Cht-wt/gry wt fsh opac no stn nsfo

Cht-AA

Cht-wt/gry wt fsh opac nsfo

Cht-AA

Cht-wt/gry wt fsh opac to semi trans nsfo

Cht-AA

Dolo-wt fsuc dns no por sm Cht-wt fsh opac

-----RTD 4550 -2304-----

CFS at 4468' - 60"

Pulled 20 Stand Short Trip at 4468' then Cir for Test - 60"

Mud Data at 4468'  
11:45 am 12-14-11  
Wt 9.3  
Vis 45  
WL 9.2  
pH 9.5  
Chl 6900  
Sol 6.7%  
LCM trc

Finished Drilling at 6:19 am on 12-15-11  
Cir for Log - 90"

Finished Logging at 3:45 pm on 12-15-11



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco LLC

**17/22S/22W-Hodgeman**

2020 N. Bramblewood  
Wichita, KS 67206

**Douglas #1X**

Job Ticket: 44226

**DST#: 1**

ATTN: Mac Armstrong

Test Start: 2011.12.14 @ 08:20:30

## GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:37:00

Time Test Ended: 20:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

**Interval: 4402.00 ft (KB) To 4468.00 ft (KB) (TVD)**

Reference Elevations: 2246.00 ft (KB)

Total Depth: 4468.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8354 Inside**

Press @ Run Depth: 963.53 psig @ 4441.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.14

End Date:

2011.12.14

Last Calib.: 2011.12.14

Start Time: 08:30:30

End Time:

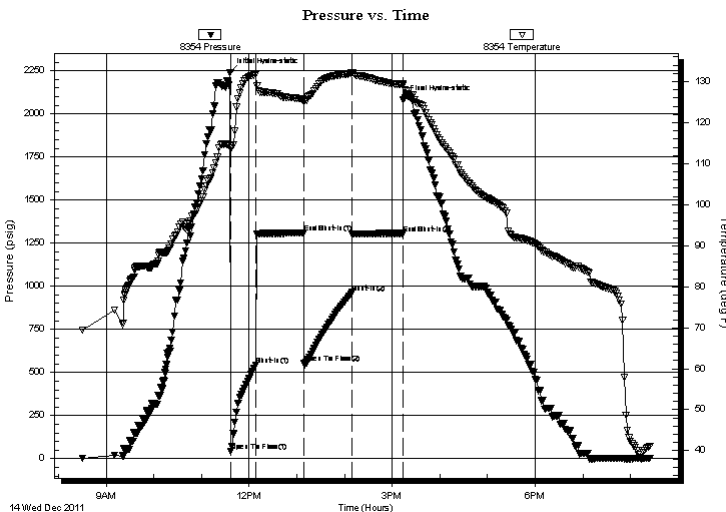
20:25:30

Time On Btm: 2011.12.14 @ 11:36:00

Time Off Btm: 2011.12.14 @ 15:14:00

**TEST COMMENT:** IF-Strong building blow . BOB in 4 minutes 15 seconds.  
 ISI-Weak surface return for 6 minutes 30 seconds.  
 FF-Strong building blow . BOB in 5 minutes.  
 FSI-Return @ 2 minutes. Built to 1&1/2 inches.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2240.45	114.46	Initial Hydro-static
1	41.46	113.93	Open To Flow (1)
32	543.61	131.66	Shut-In(1)
93	1310.07	125.64	End Shut-In(1)
94	555.78	125.20	Open To Flow (2)
154	963.53	132.15	Shut-In(2)
218	1306.68	129.17	End Shut-In(2)
218	2082.88	129.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1000.00	90%Water/10%Mud	8.31
651.00	10%Gas/10%Oil/50%Water/30%Mud	9.13
445.00	10%Gas/10%Oil/40%Water/40%Mud	6.24
50.00	100%Oil	0.70

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco LLC

**17/22S/22W-Hodgeman**

2020 N. Bramblewood  
Wichita, KS 67206

**Douglas #1X**

Job Ticket: 44226

**DST#: 1**

ATTN: Mac Armstrong

Test Start: 2011.12.14 @ 08:20:30

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

43000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.31 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1000.00	90%Water/10%Mud	8.307
651.00	10%Gas/10%Oil/50%Water/30%Mud	9.132
445.00	10%Gas/10%Oil/40%Water/40%Mud	6.242
50.00	100%Oil	0.701

Total Length: 2146.00 ft

Total Volume: 24.382 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

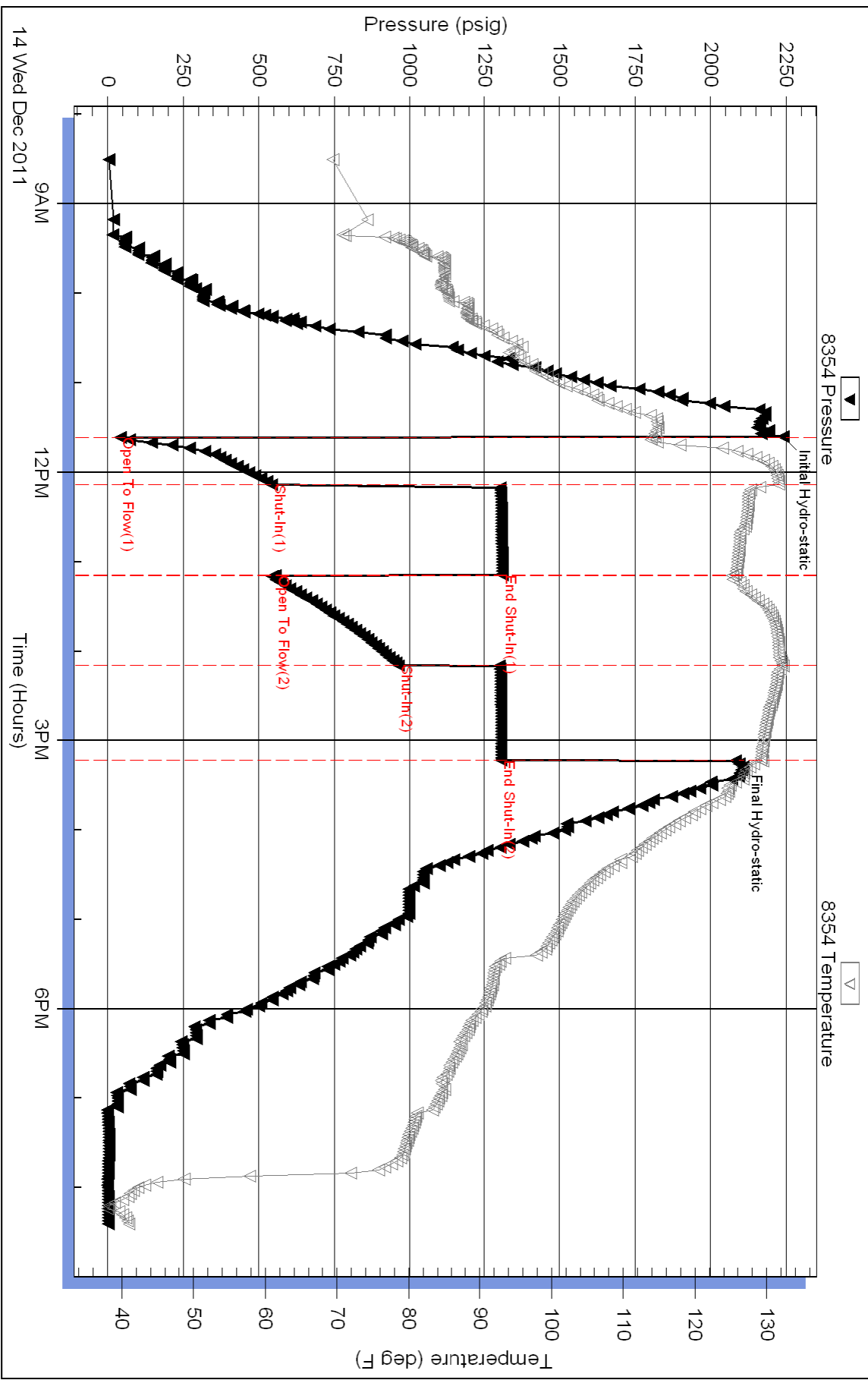
Inside

Berexco LLC

Douglas #1X

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44226

Printed: 2011.12.15 @ 08:08:02

Serial #: 8520

Outside Berexco LLC

Douglas #1X

DST Test Number: 1

