

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1241761
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: _____

1241761

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 <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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Owens Trust 1-19
Doc ID	1241761

Tops

Name	Top	Datum
Niobrara	1096	+2087
Ft. Hays	1620	+1563
Carlile Sh.	1677	+1506
Dakota	1894	+1289
Cheyenne	2583	+600
Blaine	2941	+242
Cedar Hills	3020	+163
Stone Corral Anhydrite	3142	+41
Anhydrite (base)	3177	+ 6
Chase Limestone	3342	-159
Neva	3599	-416
Red Eagle	3662	-479
Foraker	3716	-533
Wabaunsee	3832	-649
Topeka	3938	-755
Deer Creek Lime	4017	-834
Oread	4071	-888
Heebner Sh.	4102	-919
Lansing/KS City A	4147	-964
LKC B	4210	-1027
LKC C	4261	-1078
LKC D	4302	-1119
LKC E	4350	-1167
LKC F	4392	-1209

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Owens Trust 1-19
Doc ID	1241761

Tops

Name	Top	Datum
Pawnee	4546	-1363
Ft. Scott	4580	-1397
Cherokee	4632	-1449
RTD	4750	-1567
LTD	4746	-1571

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 064827

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oatley KS

DATE <u>11-26-14</u>	SEC <u>19</u>	TWP <u>15</u>	RANGE <u>38W</u>	CALLED OUT	ON LOCATION <u>2:15 a.m.</u>	JOB START <u>2:30 a.m.</u>	JOB FINISH <u>3:00 a.m.</u>
LEASE <u>Owens</u>	WELL# <u>1-19</u>	LOCATION <u>Bird City into State line</u>		COUNTY <u>Cherokee</u>	STATE <u>K.S.</u>		
OLD OR NEW (Circle one) <u>NEW</u>		<u>NE 35 Winto</u>					

CONTRACTOR Beredco 2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 310
 CASING SIZE 8 5/8 DEPTH 308
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 18.5 bbl H2O

OWNER Same
 CEMENT AMOUNT ORDERED 225 sks Com 3 1/2 cc
2% gel

EQUIPMENT
 PUMP TRUCK CEMENTER Paul Beaver
 # 120 HELPER Tyler Flipse / Juan 3 (TWS)
 BULK TRUCK # 566/595 DRIVER Anthony (TWS)
 BULK TRUCK # _____ DRIVER Shawn Tatro

COMMON	<u>225 sks</u>	@ <u>17.96</u>	<u>4027.50</u>
POZMIX		@	
GEL	<u>423 #</u>	@ <u>.50</u>	<u>211.50</u>
CHLORIDE	<u>635 #</u>	@ <u>1.10</u>	<u>698.50</u>
ASC		@	
Material Total		@	<u>4937.50</u>

REMARKS:
Mix 225 sks
Displacement water
cement did circ.
 Thank You!
Paul + crew

CHARGE TO: Beredco
 STREET _____
 CITY _____ STATE _____ ZIP _____

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.

PRINTED NAME Mato Salinas
 SIGNATURE M. Salinas

HANDLING	<u>293.30 #</u>	@ <u>2.48</u>	<u>603.38</u>
MILEAGE	<u>11.10 hrs 4.50 mi x</u>	<u>2.75</u>	<u>1526.25</u>
TOTAL			

SERVICE

DEPTH OF JOB	<u>310'</u>
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE	@
MILEAGE MILV	<u>50 @ 7.70</u> <u>385.00</u>
MANIFOLD swedge	@ <u>N/C</u> <u>375.00</u>
MILV	<u>50 @ 4.40</u> <u>N/C</u>
TOTAL <u>4,026.88</u>	

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

SALES TAX (if Any) _____
 TOTAL CHARGES 2,964.38
 DISCOUNT 2,775.95 (31%) IF PAID IN 30 DAYS
6,185.42 Net.



CEMENTING LOG

STAGE NO.

Date 11-26-14 District Oakley KS Ticket No. 64827
 Company Beredro IIc Rig Beredro 2
 Lease Owens Well No. 1-19
 County Cheyenne State KS
 Location 19-1-38 Field _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type Com 37.00
2.1 gel Excess _____

Amt. 225 Skys Yield 1.36 ft³/sk Density 15.02 PPG

WATER: Lead 6.5 gals/sk Tail _____ gals/sk Total 34.82 Bbls.

Pump Trucks Used 120-Tyler / Joan S
 Bulk Equip. 566/595 - Anthony / Shawn T

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type New Weight _____ Collar _____

Casing Depths: Top KB Bottom 308

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 310 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbbls/Lin. ft. .0637 Lin. ft./Bbl. _____
 Open Holes: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type water Amt. 18.5 Bbbls. Weight _____ PPG
 Mud Type 60 vis Weight _____ PPG

COMPANY REPRESENTATIVE _____ CEMENTER Paul Beaver

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbls Min.	
2:30	400		34.82	34.82	7	Hold Safety meeting start cement mix 225 sks @ 15" stop cement wash-up pump & lines Displace w/ water
	0		10.0	44.82	4	
	300		8.5	53.32	6	
3:00						shot-in swedge cement did arc
						Hold Safety meeting
						Thank you

ALLIED OIL & GAS SERVICES, LLC 064834

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley KS

DATE <u>2-6-14</u>	SEC. <u>19</u>	TWP. <u>15</u>	RANGE <u>37 W</u>	CALLED OUT	ON LOCATION <u>1:00 p.m.</u>	JOB START <u>7:00 a.m.</u>	JOB FINISH <u>10:00 a.m.</u>
LEASE <u>owns</u>	WELL# <u>1-19</u>	LOCATION <u>Bird City W to State line,</u>			COUNTY <u>Cherokee</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)			<u>2 E, 30, Winto</u>				

CONTRACTOR <u>Beredco 2</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 7/8"</u>	T.D. <u>4750'</u>
CASING SIZE <u>5 1/2"</u>	DEPTH <u>4525'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42'</u>
CEMENT LEFT IN CSG. <u>42'</u>	
PERFS.	
DISPLACEMENT <u>706.70 bbl @ 11.00</u>	

CEMENT	AMOUNT ORDERED <u>450 sks lite 60/40</u>
	<u>8 1/2 gal 7/4" Flo-seal, 250 sks Com</u>
	<u>10% salt, 5" gilsomite, 2' gal</u>
COMMON	<u>250 sks @ 17.90 4475.00</u>
POZMIX	@
GEL	<u>470 @ .80 385.00</u>
CHLORIDE	@
ASC	@
Lite	<u>450 sks @ 19.89 8950.50</u>
Flo-seal	<u>338 @ 2.97 1003.86</u>
Salt	<u>1300 @ .68 884.00</u>
Gilsomite	<u>1200 @ .198 237.60</u>
	@
	<u>Material Total @ 16,725.96</u>
	<u>(5/99.24/3/2)</u>
	@
HANDLING	<u>815.24 @ 2.48 2046.60</u>
MILEAGE	<u>34.33 @ 2.75 94.41</u>
	<u>4720.31</u>
	TOTAL

EQUIPMENT	
PUMP TRUCK # <u>120</u>	CEMENTER <u>Paul Beaver</u>
	HELPER <u>Clay Flipse/Juan 3</u>
BULK TRUCK # <u>600</u>	DRIVER <u>George Grant 3</u>
BULK TRUCK # <u>890/241</u>	DRIVER <u>Jerry (TWS)</u>

REMARKS:
Run Pipe / Float equip, Drop ball, pumped ball through @ 300', circ 1 hr, mix 30 sks in R.H., mix 20 sks in M.H., mix 400 sks lite, total w/ 250 sks Com, wash up to pit, release plug, displace w/ water plug did land @ 2100', lift 1400', cement did circ (so bbl to pit)

SERVICE	
DEPTH OF JOB	<u>4525'</u>
PUMP TRUCK CHARGE	<u>2765.75</u>
EXTRA FOOTAGE	@
MILEAGE M/HR	<u>50 @ 7.76 388.00</u>
MANIFOLD Head	@
MILV	<u>50 @ 4.40 220.00</u>
	@
	<u>(3074.49/3/2) TOTAL 9917.73</u>

CHARGE TO: Beredco IIc
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT	
Industrial Rubber (5 1/2")	
API Float shoe	<u>5 @ 590.00 2950.00</u>
Latex down plug Assy	<u>6 @ 110.00 660.00</u>
Centralizers	<u>10 @ 57.00 570.00</u>
Recip Scrubbers	<u>20 @ 87.00 1740.00</u>
	@
	<u>(1102.05/3/2) TOTAL 3,355.00</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)	<u>1656.91</u>
TOTAL CHARGES	<u>30,246.09</u>
DISCOUNT	<u>9,376.28/3/2</u>
	<u>20,869.80 Net.</u>

PRINTED NAME _____
SIGNATURE [Signature]

3/4/15

316-681-4734

ALLIED OIL & GAS SERVICES, LLC 064834

Federal Tax I.D. # 20-9651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley, KS

DATE <u>12-6-14</u>	SEC. <u>19</u>	TWP. <u>15</u>	RANGE <u>37W</u>	CALLED OUT	ON LOCATION <u>1:00 a.m.</u>	JOB START <u>7:00 a.m.</u>	JOB FINISH <u>10:00 a.m.</u>
LEASE <u>Owens</u>	WELL# <u>1-19</u>	LOCATION <u>Bird City W to State line,</u>	COUNTY <u>Cherokee</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one)			<u>2E, 35, windo</u>				

CONTRACTOR Berexco 2 OWNER Same

TYPE OF JOB Production

HOLE SIZE 7 7/8 TD. 4750

CASINO SIZE 5 1/2 DEPTH 4525

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 42'

CEMENT LEFT IN CSG. 42'

PERFS.

DISPLACEMENT 1016.70 bbl @ 20

EQUIPMENT

PUMP TRUCK CEMENTER Paul Beaver

100 HELPER Mar Flipse/Juan

BULK TRUCK DRIVER George Grant 3

1000

BULK TRUCK DRIVER Jerry (Tus)

890/241

CEMENT

AMOUNT ORDERED 450 stks/lite, 60/40

3 1/2 gal, 3/4" Flo-seal, 250 stks Com

10% salt, 5" gilsomite, 2 1/2 gal

COMMON	<u>250 stks</u>	@ <u>17.90</u>	<u>4475.00</u>
POZMIX		@	
GEL	<u>470 #</u>	@ <u>.50</u>	<u>235.00</u>
CHLORIDE		@	
ASC		@	
Lite	<u>450 stks</u>	@ <u>19.89</u>	<u>8950.50</u>
Flo-seal	<u>338 #</u>	@ <u>2.97</u>	<u>1003.86</u>
Salt	<u>1300 #</u>	@ <u>.68</u>	<u>884.00</u>
Gilsomite	<u>1250 #</u>	@ <u>.98</u>	<u>1225.00</u>
Manifold Total			<u>16,772.36</u>
<u>(5199.24/31%)</u>			
HANDLING	<u>825.24 4t²</u>	@ <u>2.48</u>	<u>2046.60</u>
MILEAGE	<u>34.55 to 155 mi</u>	@ <u>2.95</u>	<u>4720.35</u>

REMARKS:

Run Pipe/Floater equip, Drop ball, prepared ball through @ 300', circ 1 hr, mix 30 stks in R.H., mix 20 stks in M.H., mix 400 stks lite, bail w/ 250 stks Com, wash up to pit, release plug, displace w/ water plug, did land @ 310' lift 1100' cement, did circ (so bbl to pit)

Thank you!
Paul + Crew

CHARGE TO: Berexco Ilc

STREET _____

CITY _____ STATE _____ ZIP _____

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.

PRINTED NAME _____

SIGNATURE [Signature]

1716.50

TOTAL

SERVICE

DEPTH OF JOB	<u>4525'</u>
PUMP TRUCK CHARGE	<u>2765.75</u>
EXTRA FOOTAGE	@
MILEAGE mi/Hr	<u>50 @ 7.70</u> <u>385.00</u>
MANIFOLD Head	@ <u>NK</u>
MILV	<u>50 @ 8.40</u> <u>NK</u>

(3074.49/31%) TOTAL 9917.23

PLUG & FLOAT EQUIPMENT

Industrial Rubber (5 1/2")

HFU Floater shoe	@	<u>540.00</u>
Calhdwn plug Assy	@	<u>660.00</u>
Centrolizers	<u>10 @ 57.00</u>	<u>570.00</u>
Kept Scrubbers	<u>20 @ 89.00</u>	<u>1780.00</u>

(1102.05/31%) TOTAL 3,550.00

SALES TAX (if Any) 1656.91

TOTAL CHARGES 30,246.09

DISCOUNT 9,376.28/31% IF PAID IN 30 DAYS

20,869.80 Net



CEMENTING LOG

STAGE NO.

Date 12-1-14 District Bally KS Ticket No. 64834
 Company Beraco Rig Beraco 2
 Lease Owens Well No. 1-19
 County Cherokee State KS
 Location 19-1-37 Field

CEMENT DATA:

Specor Type: _____
 Amt. _____ Skis Yield _____ It³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type new Weight 15.5 Collar _____

LEAD: Pump Time _____ hrs. Type 60/40/8 1/2 gel
5/4" Flo-sol Excess _____
 Amt. 450 Skis Yield 1.90 It³/sk Density 12.5 PPG

TAIL: Pump Time _____ hrs. Type Com 10 1/2 gel
5 Gilsonite 2 1/2 gel Excess _____
 Amt. 250 Skis Yield 1.56 It³/sk Density 14.5 PPG

WATER: Lead 10.7 gals/sk Tail 6.97 gals/sk Total _____ Bbls.

Casing Depth: Top KB Bottom 4525

Pump Trucks Used 120-Flork / Juan S
 Bulk Equip. 600-George G
890/211- Terry

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 1/8 T.D. 4750 ft. P.B. to _____ ft.

Float Equip: Manufacturer Industrial

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Shoe: Type AKU Depth _____
 Float: Type Latdown Depth _____
 Centralizers: Quantity 10 Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. 20 receipt scrapers
 Disp. Fluid Type water Amt/lb³ 7 Bbls. Weight _____ PPG
 Mud Type 40vis Weight _____ PPG

Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENTER Paul B

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASINO	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min.	
9:00	0		8.0	8.0	4	Hold Safety meeting Run pipe / float gauge / dip ball pumped full through shoe @ 300" circ 1 hrs mix 30 sks in R.H mix 20 sks in M.H mix 400 sks lite @ 12.5" mix 250 sks Com @ 14.5" wash up to pit / release plug Displace w/ water
	0		5.0	13.0	4	
	300		10.9	17.0	8	
	400		4.2	15.0	6	
	0		10.0	16.0	4	
	400		2.0	18.0	8	
	400		2.0	20.0	8	
	400		2.0	22.0	8	
	700		2.0	24.0	8	
	1100		1.0	25.0	8	
10:00	1400		1.0	26.0	6	plug did land @ 2100" float 1600" float did hold cement did arc 20 bbl to pit thank you! Hold Safety meeting
	1600		7	27.0	4	



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.
 2020 N. Bramblewood
 Wichita Ks 67206
 ATTN: Pete Vollmer

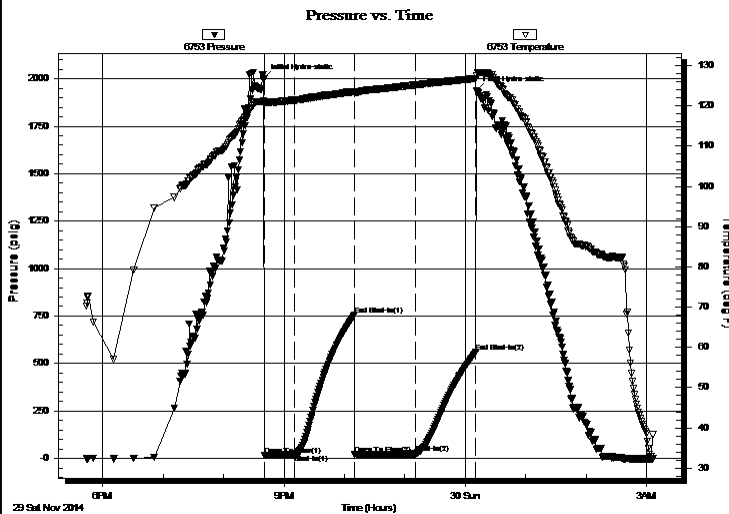
19-1S-37W
Owen Trust #1-19
 Job Ticket: 61012 **DST#: 1**
 Test Start: 2014.11.29 @ 17:44:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:40:15
 Time Test Ended: 03:05:45
 Interval: **4018.00 ft (KB) To 4090.00 ft (KB) (TVD)**
 Total Depth: 4090.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3183.00 ft (KB)
 3170.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6753 Outside
 Press @ RunDepth: 24.41 psig @ 4019.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.29 End Date: 2014.11.30 Last Calib.: 2014.11.30
 Start Time: 17:44:05 End Time: 03:05:45 Time On Btm: 2014.11.29 @ 20:40:00
 Time Off Btm: 2014.11.30 @ 00:10:45

TEST COMMENT: 30 - IF - Surface blow built to 3/4"
 60 - ISI - No Return
 60 - FF - No Surface blow
 60 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.72	121.10	Initial Hydro-static
1	16.33	120.48	Open To Flow (1)
31	19.22	121.43	Shut-In(1)
90	754.68	123.54	End Shut-In(1)
91	20.52	123.18	Open To Flow (2)
150	24.41	125.16	Shut-In(2)
211	559.47	126.78	End Shut-In(2)
211	1936.29	127.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM - 100M - Oil spots	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

19-1S-37W

2020 N. Bramblewood
Wichita Ks 67206

Owen Trust #1-19

Job Ticket: 61012

DST#: 1

ATTN: Pete Vollmer

Test Start: 2014.11.29 @ 17:44:00

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: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM - 100M - Oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

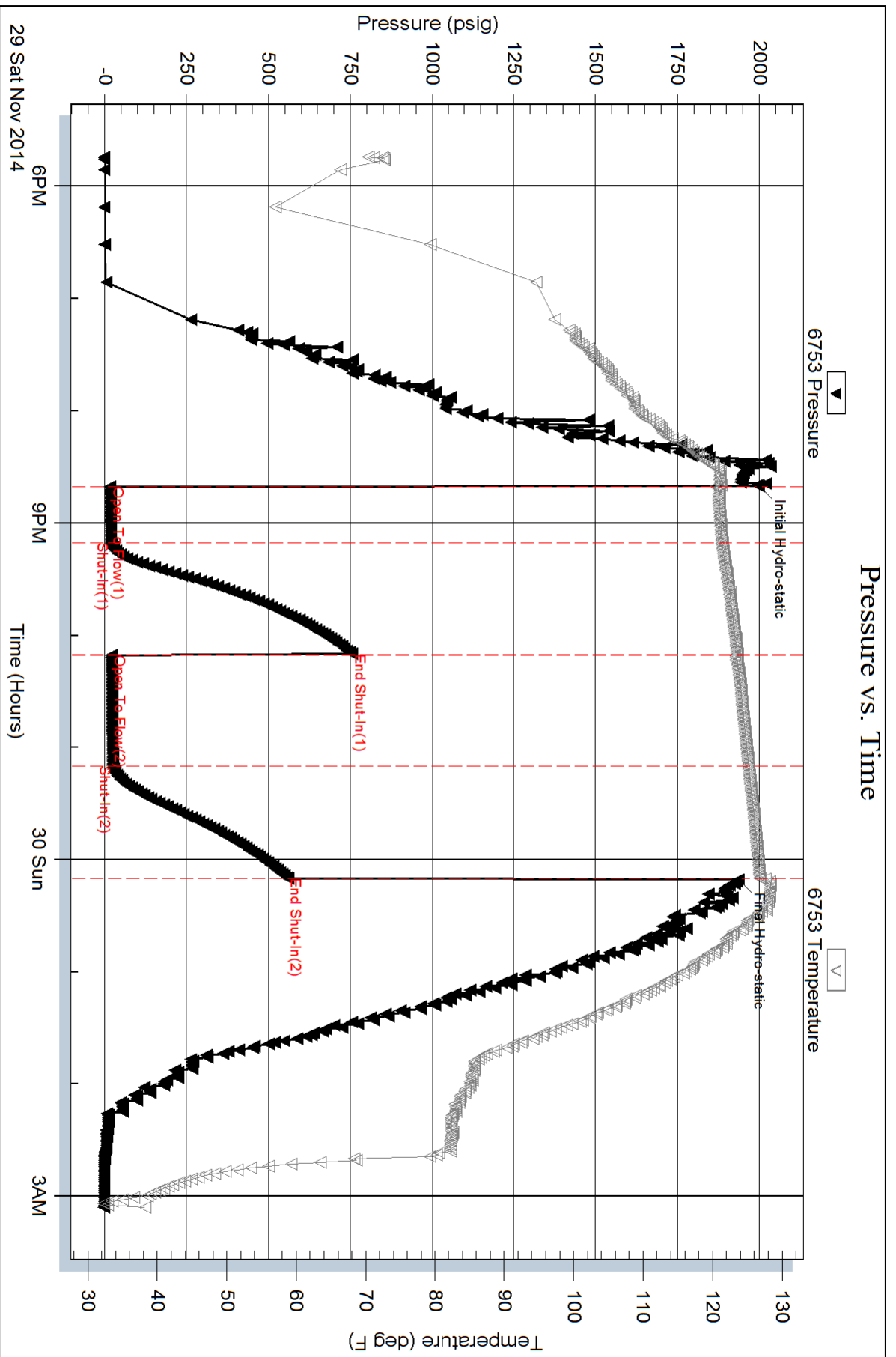
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berexco LLC.

19-1S-37W

2020 N. Bramblewood
Wichita Ks 67206

Owen Trust #1-19

Job Ticket: 61013

DST#: 2

ATTN: Pete Vollmer

Test Start: 2014.11.30 @ 21:44:00

GENERAL INFORMATION:

Formation: **LKC - 'B'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:16:45

Time Test Ended: 08:57:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4170.00 ft (KB) To 4240.00 ft (KB) (TVD)

Reference Elevations: 3183.00 ft (KB)

Total Depth: 4240.00 ft (KB) (TVD)

3170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6753 Outside

Press@RunDepth: 264.95 psig @ 4171.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.30

End Date: 2014.12.01

Last Calib.: 2014.12.01

Start Time: 21:44:05

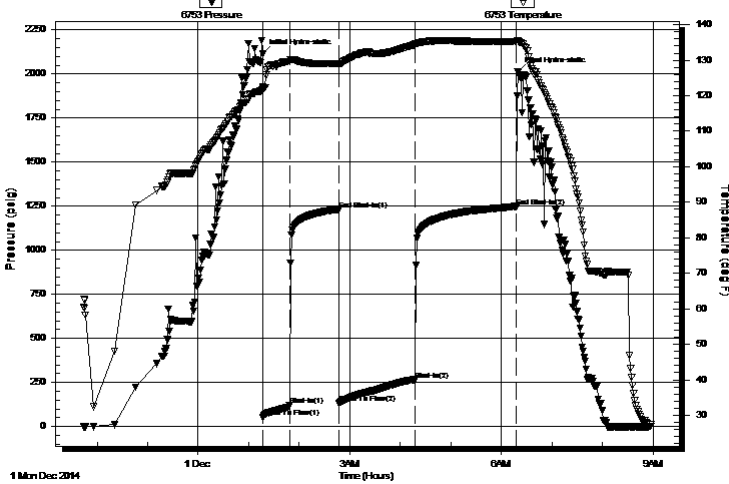
End Time: 08:57:45

Time On Btm: 2014.12.01 @ 01:16:30

Time Off Btm: 2014.12.01 @ 06:19:15

TEST COMMENT: 30 - IF - Surface blow built to 8"
60 - ISI - No Return
90 - FF - Surface blow started 4 mins. in and built to 10 1/2"
120 - FSI - No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.94	122.59	Initial Hydro-static
1	50.15	121.54	Open To Flow (1)
32	121.08	129.67	Shut-In(1)
91	1227.45	129.11	End Shut-In(1)
91	131.33	128.63	Open To Flow (2)
181	264.95	134.31	Shut-In(2)
302	1248.96	135.30	End Shut-In(2)
303	2011.38	135.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	OCWM - 55M - 30W - 15o	0.84
180.00	OCM - 65M - 35o	0.89
180.00	OCM - 80M - 20o	0.92

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

19-1S-37W

2020 N. Bramblewood
Wichita Ks 67206

Owen Trust #1-19

Job Ticket: 61013

DST#: 2

ATTN: Pete Vollmer

Test Start: 2014.11.30 @ 21:44:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	OCWM - 55M - 30W - 15o	0.836
180.00	OCM - 65M - 35o	0.885
180.00	OCM - 80M - 20o	0.918

Total Length: 530.00 ft

Total Volume: 2.639 bbl

Num Fluid Samples: 0

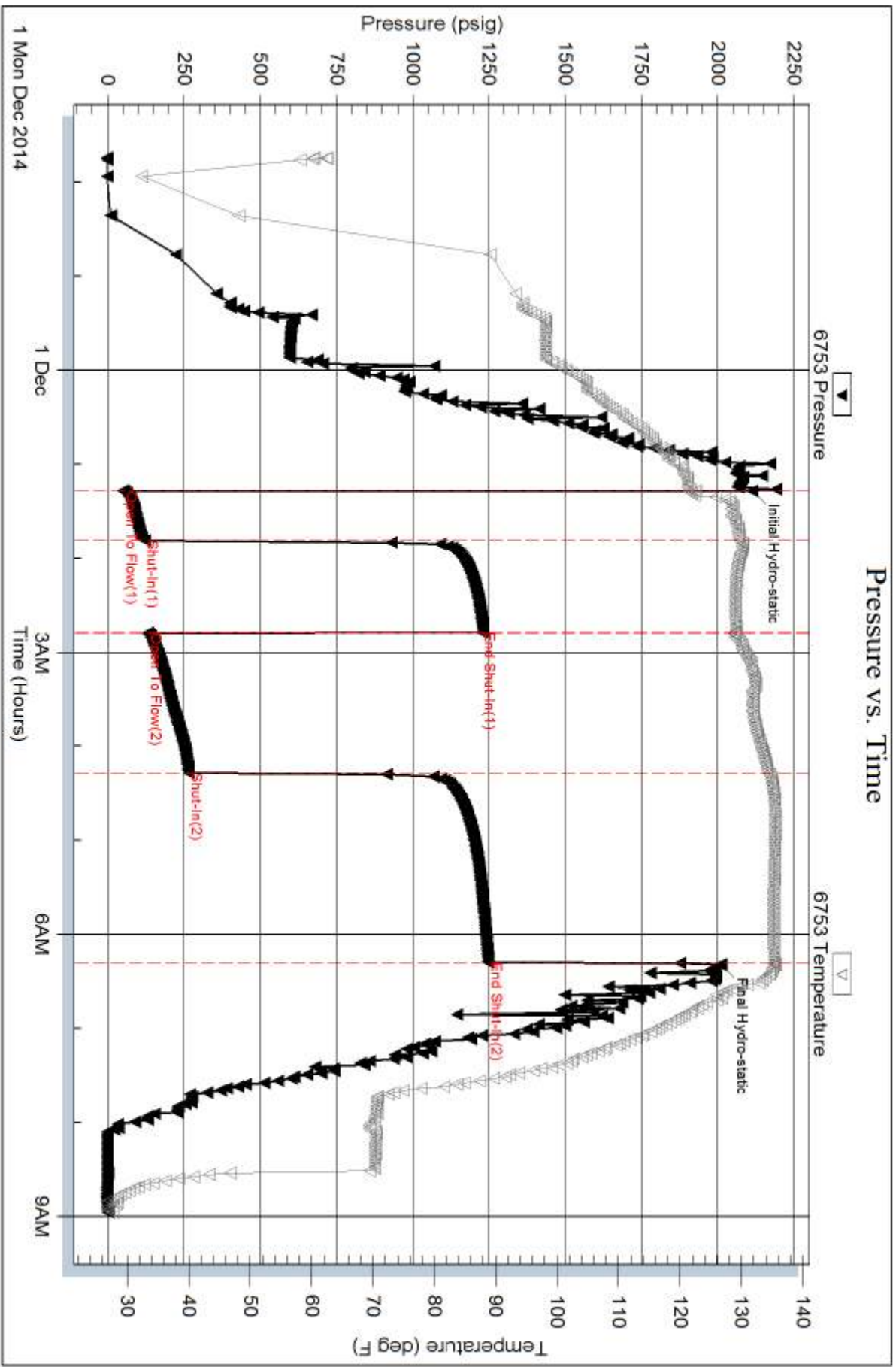
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Berexco LLC.**

2020 N. Bramblewood
Wichita Ks 67206

ATTN: Pete Vollmer

Owen Trust #1-19

19-1S-37W

Start Date: 2014.12.01 @ 20:25:00

End Date: 2014.12.02 @ 08:24:45

Job Ticket #: 61014 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.04 @ 10:42:22

Berexco LLC. 19-1S-37W Owen Trust #1-19 DST # 3 KCL - 'C' 2014.12.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.
 2020 N. Bramblewood
 Wichita Ks 67206
 ATTN: Pete Vollmer

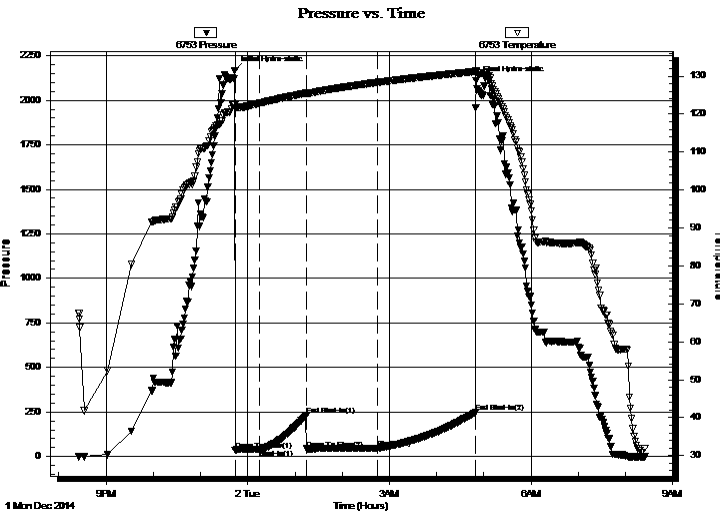
19-1S-37W
Owen Trust #1-19
 Job Ticket: 61014 **DST#: 3**
 Test Start: 2014.12.01 @ 20:25:00

GENERAL INFORMATION:

Formation: **KCL - 'C'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:43:45
 Time Test Ended: 08:24:45
 Interval: **4238.00 ft (KB) To 4290.00 ft (KB) (TVD)**
 Total Depth: 4290.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3183.00 ft (KB)
 3170.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6753 Outside
 Press @ Run Depth: 46.98 psig @ 4239.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.12.01 End Date: 2014.12.02 Last Calib.: 2014.12.02
 Start Time: 20:25:05 End Time: 08:24:45 Time On Btm: 2014.12.01 @ 23:43:30
 Time Off Btm: 2014.12.02 @ 04:50:00

TEST COMMENT: 30 - IF - Surface blow built to 2"
 60 - ISI - Return started in 10 mins. and built to 1 1/4"
 90 - FF - Surface blow started in 5 mins. and built to 1 3/4"
 120 - FSI - Return started in 13 mins. and built to 1 1/4"



PRESSURE SUMMARY

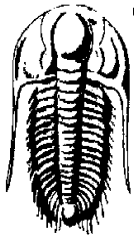
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.56	122.55	Initial Hydro-static
1	36.22	121.60	Open To Flow (1)
32	40.53	122.93	Shut-In(1)
91	228.98	125.48	End Shut-In(1)
91	42.33	125.34	Open To Flow (2)
181	46.98	128.32	Shut-In(2)
306	246.42	131.17	End Shut-In(2)
307	2112.05	131.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM - 100M - Oil spots	0.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.
2020 N. Bramblewood
Wichita Ks 67206
ATTN: Pete Vollmer

19-1S-37W
Owen Trust #1-19
Job Ticket: 61014 **DST#: 3**
Test Start: 2014.12.01 @ 20:25:00

GENERAL INFORMATION:

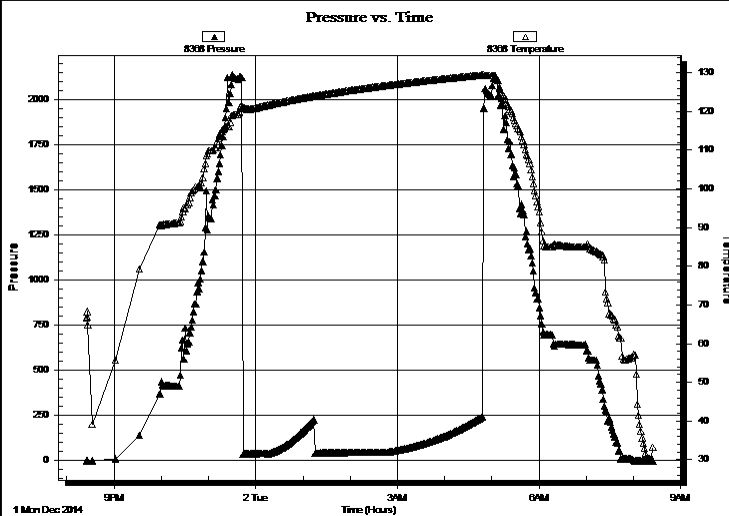
Formation: **KCL - 'C'**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 23:43:45 Tester: Royal Fisher
Time Test Ended: 08:24:45 Unit No: #54

Interval: **4238.00 ft (KB) To 4290.00 ft (KB) (TVD)** Reference Elevations: 3183.00 ft (KB)
Total Depth: 4290.00 ft (KB) (TVD) 3170.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 13.00 ft

Serial #: 8368

Press @ Run Depth: psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2014.12.01 End Date: 2014.12.02 Last Calib.: 2014.12.02
Start Time: 20:25:05 End Time: 08:24:45 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built to 2"
60 - ISI - Return started in 10 mins. and built to 1 1/4"
90 - FF - Surface blow started in 5 mins. and built to 1 3/4"
120 - FSI - Return started in 13 mins. and built to 1 1/4"



PRESSURE SUMMARY

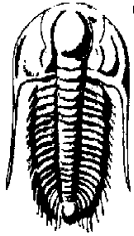
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM - 100M - Oil spots	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

19-1S-37W

2020 N. Bramblewood
Wichita Ks 67206

Owen Trust #1-19

Job Ticket: 61014

DST#: 3

ATTN: Pete Vollmer

Test Start: 2014.12.01 @ 20:25:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM - 100M - Oil spots	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

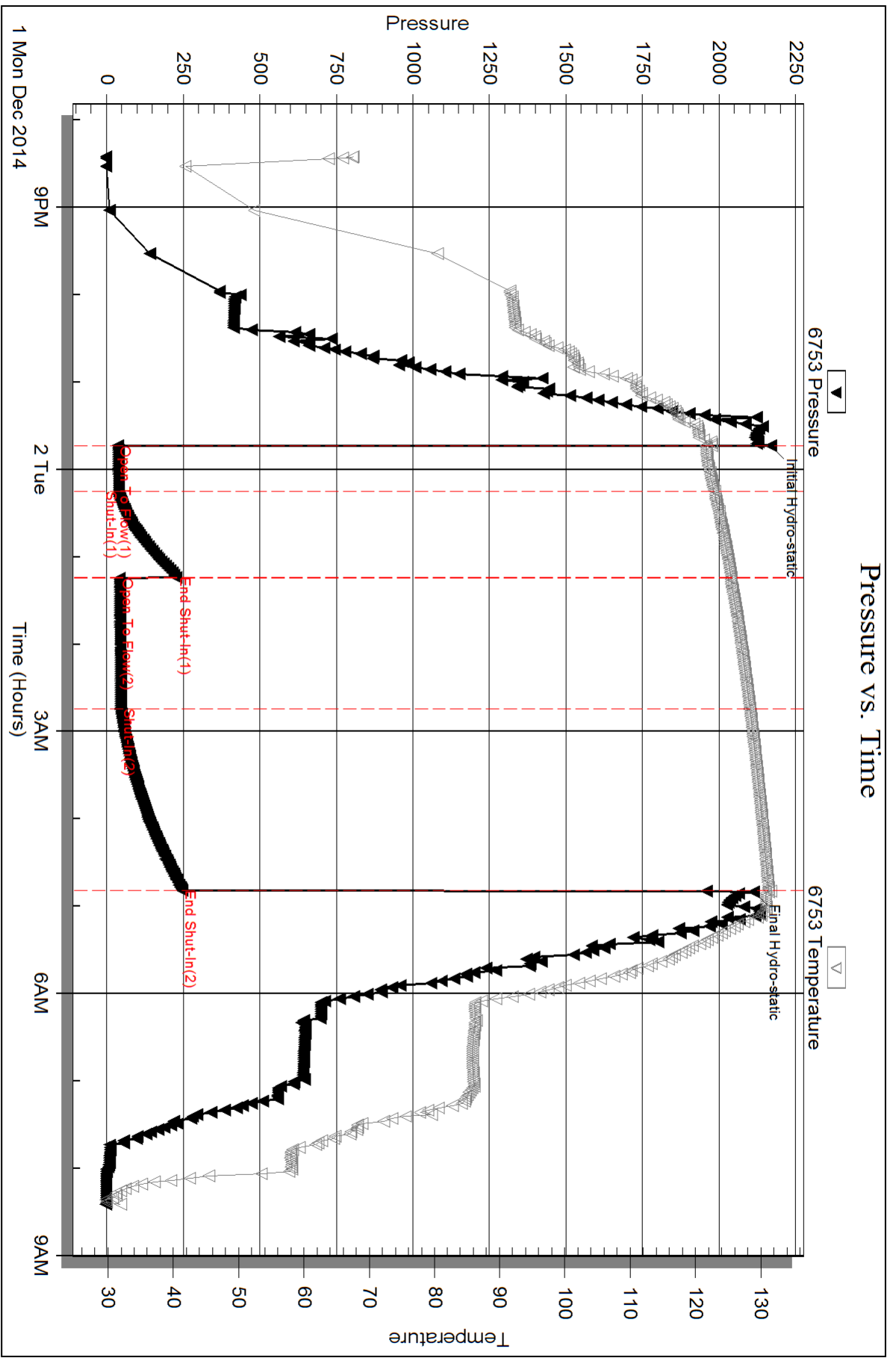
Num Gas Bombs: 0

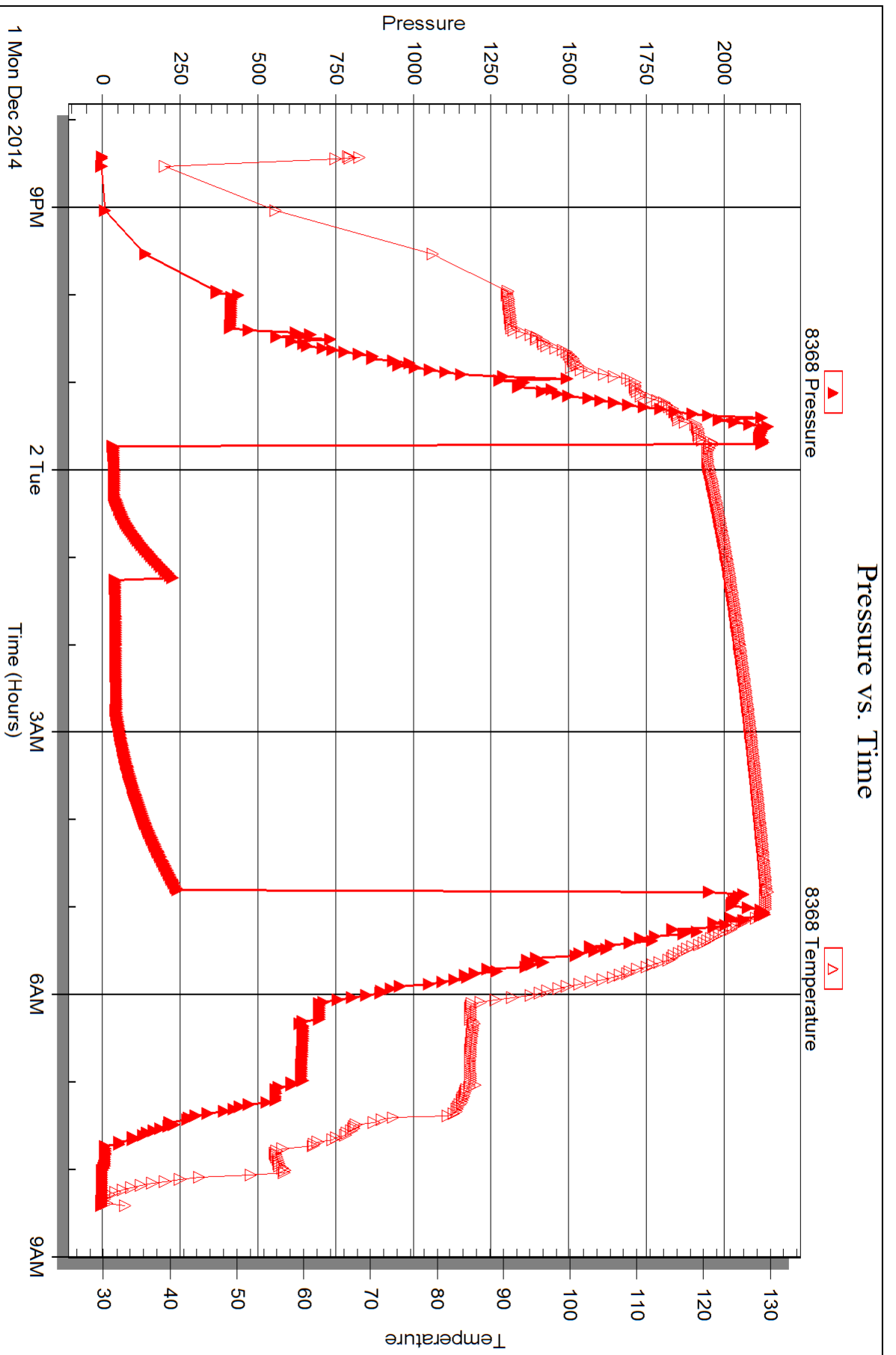
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Berexco LLC.
 2020 N. Bramblewood
 Wichita Ks 67206
 ATTN: Pete Vollmer

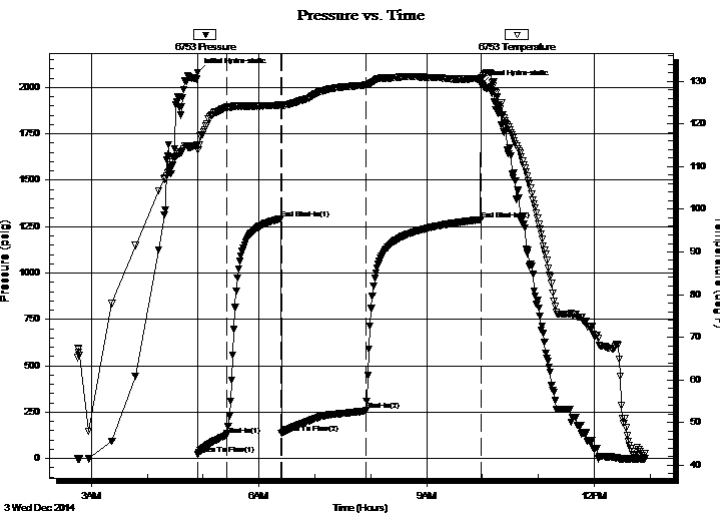
19-1S-37W
Owen Trust #1-19
 Job Ticket: 61015 **DST#: 4**
 Test Start: 2014.12.03 @ 02:45:00

GENERAL INFORMATION:

Formation: **KCL - 'D & E'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:54:30
 Time Test Ended: 12:54:45
 Interval: **4280.00 ft (KB) To 4380.00 ft (KB) (TVD)**
 Total Depth: 4380.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3183.00 ft (KB)
 3170.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6753 Outside
 Press@RunDepth: 258.25 psig @ 4281.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.12.03 End Date: 2014.12.03 Last Calib.: 2014.12.03
 Start Time: 02:45:05 End Time: 12:54:45 Time On Btm: 2014.12.03 @ 04:54:15
 Time Off Btm: 2014.12.03 @ 09:59:00

TEST COMMENT: 30 - IF - Surface blow built to 11"
 60 - ISI - No Return
 90 - FF - Surface blow built to bottom of the bucket in 30 mins.
 120 - FSI - Return Started in 20 mins and built to 1 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.60	115.18	Initial Hydro-static
1	23.38	113.93	Open To Flow (1)
31	125.42	123.98	Shut-In(1)
90	1292.96	124.53	End Shut-In(1)
90	135.11	124.13	Open To Flow (2)
181	258.25	129.15	Shut-In(2)
305	1288.07	130.59	End Shut-In(2)
305	2014.01	130.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
439.00	GMCO - 25M - 50o - 25G	2.16
150.00	GHMCO - 40M - 40o - 20G	1.31

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

19-1S-37W

2020 N. Bramblewood
Wichita Ks 67206

Owen Trust #1-19

Job Ticket: 61015

DST#: 4

ATTN: Pete Vollmer

Test Start: 2014.12.03 @ 02:45:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
439.00	GMCO - 25M - 50o - 25G	2.159
150.00	GHMCO - 40M - 40o - 20G	1.307

Total Length: 589.00 ft

Total Volume: 3.466 bbl

Num Fluid Samples: 0

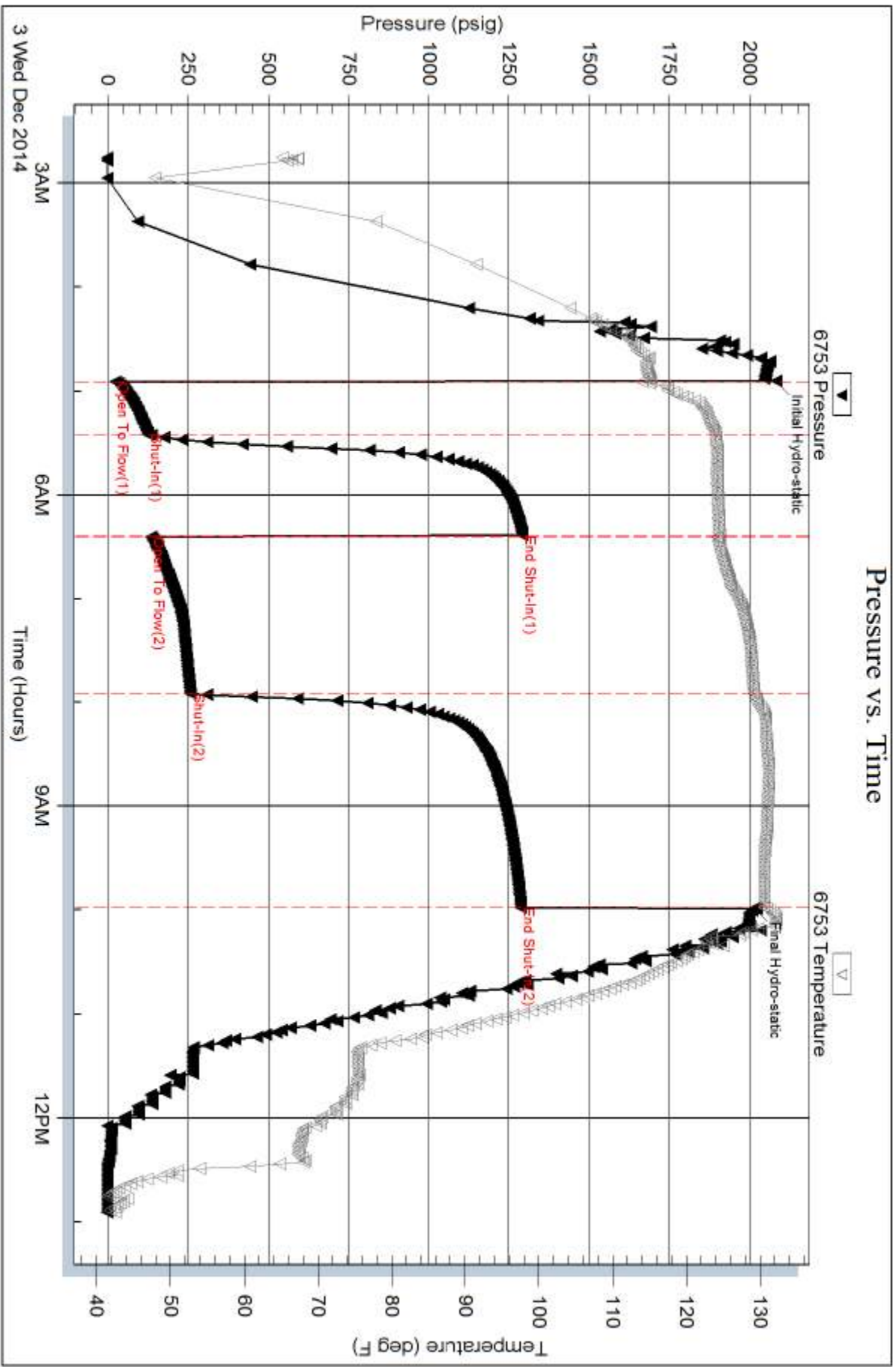
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.

19-1S-37W

2020 N. Bramblewood
Wichita Ks 67206

Owen Trust #1-19

Job Ticket: 61016

DST#: 5

ATTN: Pete Vollmer

Test Start: 2014.12.04 @ 06:34:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:51:30

Time Test Ended: 14:36:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4518.00 ft (KB) To 4564.00 ft (KB) (TVD)

Reference Elevations: 3183.00 ft (KB)

Total Depth: 4564.00 ft (KB) (TVD)

3170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6753 Outside

Press@RunDepth: 19.65 psig @ 4519.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.04

End Date:

2014.12.04

Last Calib.:

2014.12.04

Start Time: 06:34:05

End Time:

14:36:44

Time On Btm:

2014.12.04 @ 08:51:15

Time Off Btm:

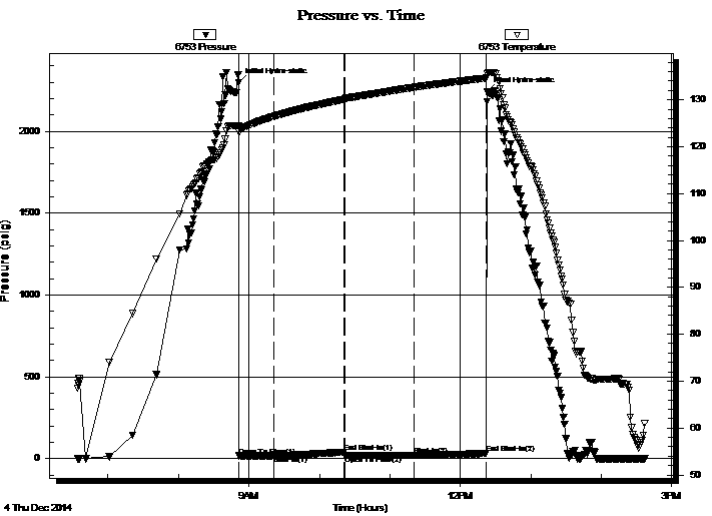
2014.12.04 @ 12:23:00

TEST COMMENT: 30 - IF - Surface blow built to 1/2" and then died to a weak surface blow

60 - ISI - No Return

60 - FF - No Surface blow

60 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.50	124.20	Initial Hydro-static
1	16.25	123.06	Open To Flow (1)
30	17.75	126.46	Shut-In(1)
90	39.90	130.07	End Shut-In(1)
90	18.18	130.10	Open To Flow (2)
150	19.65	132.68	Shut-In(2)
211	31.62	134.64	End Shut-In(2)
212	2244.15	135.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM - 100M - Oil Spots	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

19-1S-37W

2020 N. Bramblewood
Wichita Ks 67206

Owen Trust #1-19

Job Ticket: 61016

DST#: 5

ATTN: Pete Vollmer

Test Start: 2014.12.04 @ 06:34:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM - 100M - Oil Spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

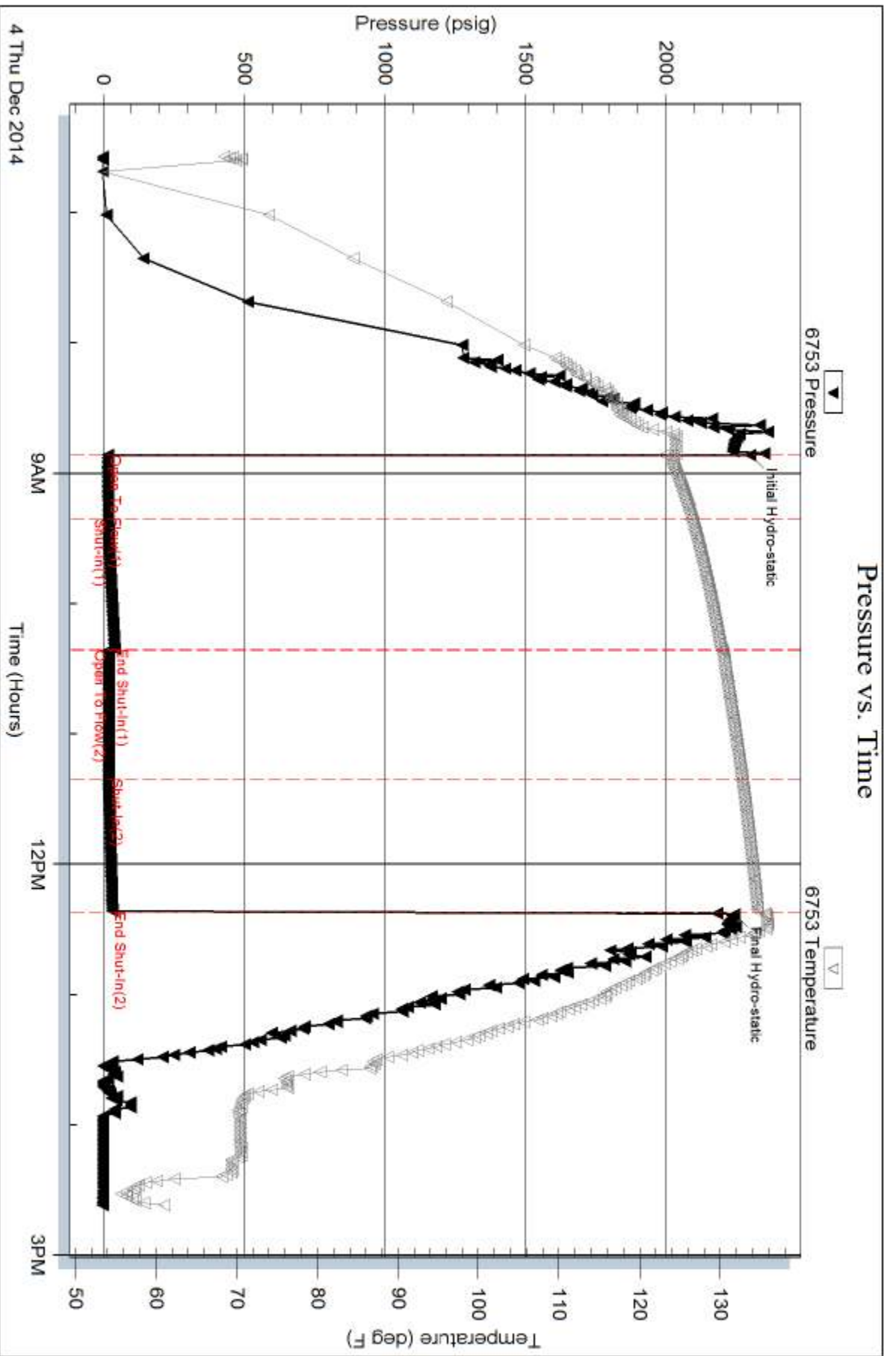
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



BEREXCO LLC

OWENS TRUST 1-19

E/2 W/2 NE NW SEC 19 T1S R37W

CHEYENNE COUNTY, KANSAS

SUMMARY	1
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LITHOLOGY & SHOWS	4
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SUMMARY

The Berexco LLC Owens Trust 1-19 in Cheyenne County, Kansas spud November 25, 2014 and reached a total depth of 4750' on December 5, 2014. Wellsite geological supervision commenced at 3000'. The primary objectives of the wildcat were the Pennsylvanian Missourian Lansing-Kansas City limestones. Secondary zones of interests were the Foraker, Oread, and Pawnee limestones. The Owens Trust 1-19 was drilled using seismic and nearby well control.

On-site evaluation was by drill stem testing after sample analysis and consideration of structural position. Five DSTs were run.

Foraker, Wabaunsee, Topeka, and Oread

The Foraker was clean non-porous limestone with no sample shows. Minor oil shows in tight limestone were found in the Wabaunsee and Topeka but these did not merit drill stem testing. Oread samples were fossiliferous grainstone and mudstone with trace interparticle and vuggy porosity, scattered black oil staining, live oil in vugs, and good cuts. DST 1 in the Oread recovered 5 ft of oil spotted mud.

Lansing-Kansas City, Pawnee, and Cherokee

Minor oil shows and no visible porosity were observed in the Lansing-Kansas City A.

DST 2 in the B recovered 530 ft of oil cut mud. Poor interparticle and vuggy porosity with spotty black oil stain were observed in cuttings.

DST 3 in the C recovered 15 ft of oil spotted mud. Samples displayed scattered black oil stain, good fluorescence and cuts, but only poor porosity. During DST 3 drilling fluid was lost above the test tool. After the test more fluid was lost for a total of 50 bbl. It is believed the fluid was lost in the B porosity.

DST 4 in the combined D and E recovered 589 ft of gas and mud cut oil. The D was mudstone with very poor shows and no visible porosity. No DST was warranted in the D alone. The E samples displayed very spotty oil stain with good fluorescence and cut from oolitic grainstone and mudstone.

The F was nonporous limestone with no sample shows.

DST 5 in the Pawnee recovered 10 ft of drilling mud with very poor flow pressures from chalky mudstone and occasional grainstone with minor porosity and shows.

The Fort Scott was nonporous limestone. The Cherokee displayed dead oil staining in nonporous chalky limestone and tight sandstone.

Oil Well Completion

After wireline logs 5 ½" production casing was run for completion of the Owens Trust 1-19 as an oil well.

Peter J. Vollmer
Consulting Wellsite Geologist, WPG #3369
December 2014

Berexco LLC
Owens Trust 1-19

WELL DATA

OPERATOR: Berexco LLC
2020 North Bramblewood Drive
Wichita, Kansas 67206

WELL NAME: Owens Trust 1-19

SURFACE LOCATION: 660' FNL & 1830' FWL
E/2 W/2 NE NW Sec. 19, T1S, R37W
Cheyenne County, KS

LATITUDE & LONGITUDE: 39.9577495, -101.5158958 (From State, calculated from footages)

BOTTOM HOLE LOCATION: Vertical hole

ELEVATIONS: 3170' GL 3183' KB

API NUMBER: 15-023-21416

BASIN: Mid-Continental Arch

FIELD: Wildcat

HOLE SIZE: 12 ¼" to 310'; 7 7/8" to 4750'

CASING: 8 5/8" J-55 24# STC set to 310' KB

SPUD DATE: November 25, 2014

TD DATE: December 5, 2014

TOTAL DEPTH: 4750' Rig TD 4746' Log TD

LAST FORMATION: Pennsylvanian Cherokee

WELL STATUS: Ran 5 ½" production casing

OPERATOR
REPRESENTATIVE: Dana Wreath - Vice President

WELLSITE GEOLOGIST: Peter J. Vollmer

FORMATION TOPS

Formation	Sample Top	Log Top	Log TVD	Log Subsea
KB				3183
Pierre Sh	Cased	Cased	N/A	N/A
Niobrara Fm	N/A	1096	1096	+2087
Fort Hays Ls Mbr	N/A	1620	1620	+1563
Carlile Sh	N/A	1677	1677	+1506
Dakota	N/A	1894	1894	+1289
Cheyenne	N/A	2583	2583	+600
Blaine	N/A	2941	2941	+242
Cedar Hills	N/A	3020	3020	+163
Stone Corral Anhydrite	3145	3142	3142	+41
Base Anhydrite	3179	3177	3177	+6
Chase Limestone	3347	3342	3342	-159
Neva	3605	3599	3599	-416
Red Eagle	3665	3662	3662	-479
Foraker	3719	3716	3716	-533
Wabaunsee	3832	3832	3832	-649
Topeka	3933	3938	3938	-755
Deer Creek Lime	4009	4017	4017	-834
Oread	4075	4071	4071	-888
Heebner Sh	4104	4102	4102	-919
Lansing-Kansas City				
"A"	4154	4147	4147	-964
"B"	4216	4210	4210	-1027
"C"	4269	4261	4261	-1078
"D"	4310	4302	4302	-1119
"E"	4356	4350	4350	-1167
"F"	4399	4392	4392	-1209
Pawnee	4547	4546	4546	-1363
Ft Scott	4586	4580	4580	-1397
Cherokee	4638	4632	4632	-1449
TD Driller	4750			
TD Logger		4746	4746	-1563

LITHOLOGY AND SHOWS

The following descriptions are interpretive. Rig crew members collected unlagged samples from 3500' to 4750' TD. Depths are rig depths except where noted as wireline.

3500' - 3538'	SHALE: light reddish brown to reddish orange, firm to soft, fissile to subblocky, very silty, sandy in part, non to slightly calcareous.
3538' - 3554'	LIMESTONE: white to light gray to light brown, occasional reddish brown mottled, firm to hard, mudstone, occasional fossil fragments, chalky, slightly argillaceous in part, reddish brown Shale partings, tight, no show.
3554' - 3605'	SHALE: reddish brown to brownish orange, soft to firm, sub blocky, non calcareous, occasional silty, with interbedded LIMESTONE: white to light gray, firm to hard, mudstone, tight, no shows.
NEVA	SAMPLE TOP: 3605' LOG TOP: 3599' SUBSEA: -416'
3605' - 3613'	LIMESTONE: white to light gray, hard, mudstone, slightly chalky, fossil fragments, occasional black Algal stain, tight, no show.
3613' - 3618'	SANDSTONE: very light gray to white, friable to firm, very fine grained, sub rounded to rounded, well sorted, calcareous cement, predominant clay filled/matrix, no visible porosity, no shows.
3618' - 3655'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional moderately to very silty.
3655' - 3665'	SANDSTONE: reddish brown to light gray to light brown, friable, very fine grained, subrounded to subangular, fair to well sorted, weak calcareous cement, predominant clay fill, no visible porosity, no shows.
RED EAGLE	SAMPLE TOP: 3665' LOG TOP: 3662' SUBSEA: -479'
3665' - 3684'	LIMESTONE: light gray to tan to light grayish brown, hard, mudstone to wackestone, scattered fossil fragments, occasional black Algal material, occasional slightly argillaceous, occasional reddish brown SHALE partings, tight, no shows.
3684' - 3719'	SHALE: reddish brown to light brown, soft to firm, subblocky, non calcareous, occasional moderately to very silty, Sandstone stringers.

LITHOLOGY AND SHOWS

FORAKER	SAMPLE TOP: 3719'	LOG TOP: 3716'	SUBSEA: -533'
3719' - 3724'	LIMESTONE: light gray to dark gray to tan, mottled in part, hard, packstone to grainstone, fragmented in part, abundant fossil fragments, dark gray pellets, tight, no shows.		
3724' - 3732'	SHALE: dark gray to gray, firm, subfissile, non calcareous.		
3732' - 3758'	LIMESTONE: white to light gray to light brown, firm to hard, wackestone to packstone, fragment texture, fossil fragments, abundant opaque to light tan chert, tight, no shows.		
3758' - 3768'	SANDSTONE: very light gray to white, friable, very fine grained, subangular to subrounded, well sorted, calcareous cement, clay fill, black specks, tight to trace porosity, no shows.		
3768' - 3780'	SHALE: reddish brown to light grayish orange, mottled, soft to firm, subblocky, non calcareous, occasional silty, occasional light gray chalky Limestone stringers.		
3780' - 3792'	SHALE: dark gray to gray, firm, platy to fissile, non to slightly calcareous, occasional slightly carbonaceous, pyrite.		
3792' - 3832'	SHALE: reddish brown to light gray to light orange, mottled, soft to firm, sub blocky, non calcareous, occasional silty, gummy to clayey, occasional light gray chalky Limestone stringers.		
WABAUNSEE	SAMPLE TOP: 3832'	LOG TOP: 3832'	SUBSEA: -649'
3832' - 3862'	LIMESTONE: white to light gray, with occasional light reddish brown mottled, soft to hard, mudstone to wackestone, occasional chalky texture, reddish brown SHALE interbeds, occasional fossil fragments, trace black heavy oil material (dead oil), no visible porosity, no fluorescence, residual slow pale green white cut.		
3862' - 3902'	SHALE: reddish brown to very light gray, occasional mottled, soft to firm, sub blocky, non calcareous, gummy to sticky.		
3902' - 3933'	SHALE: reddish brown, soft to firm, sub blocky, non calcareous, occasional moderately to very silty, occasional Silty to Sandy stringers, gummy to sticky.		

LITHOLOGY AND SHOWS

TOPEKA	SAMPLE TOP: 3933'	LOG TOP: 3938'	SUBSEA: -755'
3933' - 3940'	LIMESTONE: white to light gray, with light reddish brown mottled, soft to firm, grainstone, ooliths, fossil fragments, spotty black dead oil material, no visible porosity, no shows.		
3940' - 3950'	SHALE: gray to dark gray, firm, platy to fissile, non to slightly calcareous, dull.		
3950' - 3972'	LIMESTONE: light gray to white, hard to firm, cryptocrystalline, fossil fragments, opaque chert, occasional dark gray SHALE stringers, tight, no shows.		
3972' - 4009'	SHALE: reddish brown to light gray to lavender, soft to firm, sub blocky, non calcareous, occasional silty, clayey, occasional white Limestone stringers.		
DEER CREEK LIME	SAMPLE TOP: 4009'	LOG TOP: 4017'	SUBSEA: -834'
4009' - 4020'	LIMESTONE: white to light gray, hard to firm, mudstone, chalky, fossil fragments (Fusilinid), rare black dead oil (Algal stain), tight, no shows.		
4020' - 4075'	SHALE: reddish brown, brownish maroon, gray grain to lavender, firm, blocky, occasional slightly calcareous, very slightly silty in part, occasional thin SANDSTONE stringers, waxy in part, occasional clayey to sticky, occasional LIMESTONE: light brown, hard, mudstone, tight, no shows.		
OREAD	SAMPLE TOP: 4075'	LOG TOP: 4071'	SUBSEA: -888'
4075' - 4086'	LIMESTONE: very light gray to white, firm to hard, mudstone to grainstone, fossil fragments (Brachiopod, Fusulinids), occasional ooliths, occasional patchy black heavy oil stain, black free oil in vugs, predominant tight to trace interparticle porosity and vuggy porosity, bright yellowish white fluorescence, immediate blooming yellowish white cuts, with slow streaming yellowish white cuts, good show.		
4086' - 4104'	LIMESTONE: white to light gray, firm to hard, mudstone, chalky, occasional fossil, occasional pyrite, tight, no show.		

LITHOLOGY AND SHOWS

HEEBNER SH	SAMPLE TOP: 4104'	LOG TOP: 4102'	SUBSEA: -919'
4104' - 4108'	SHALE: dark gray to black, firm, fissile, slightly carbonaceous in part, non to slightly calcareous, pyrite.		
4108' - 4114'	LIMESTONE: gray to light gray, firm to hard, mudstone, black dead oil, tight, no show.		
4114' - 4154'	SHALE: gray to reddish brown to maroon, variegated, firm, blocky, non to slightly calcareous, occasional silty.		
LANSING- KANSAS CITY "A"	SAMPLE TOP: 4154'	LOG TOP: 4147'	SUBSEA: -964'
4154' - 4160'	LIMESTONE: white to light gray to cream, hard, mudstone to wackestone, rare fossil fragments, few pieces with spotty black oil stain, no visible porosity, bright yellowish white fluorescence, instant blooming yellowish white cuts, limited fair show with no porosity.		
4160' - 4182'	LIMESTONE: gray to light gray to cream, hard, mudstone, occasional fossil, predominant chalky texture, clean, tight, no show.		
4182' - 4184'	SANDSTONE: white to light gray to light brown, firm to friable, very fine grained, well rounded, well sorted, calcareous cement, clay filled, clean, no visible porosity, no show.		
4184' - 4216'	SHALE: reddish brown, soft to firm, subblocky, non to slightly calcareous, clayey, occasional argillaceous LIMESTONE stringers.		
LANSING- KANSAS CITY "B"	SAMPLE TOP: 4216'	LOG TOP: 4210'	SUBSEA: -1027'
4216' - 4230'	LIMESTONE: white to very light gray, firm to hard, grainstone to wackestone, occasional fossil fragment, rare ooliths, occasional free live heavy black oil, predominant tight with trace intergranular porosity and trace vuggy porosity, bright yellowish white fluorescence, instant blooming bright yellowish white cuts, good show from limited pieces.		
4230' - 4238'	LIMESTONE: white to light gray, hard, mudstone, occasional fossil, chalky texture, dark gray Shale partings, tight, no show.		
4238' - 4245'	SHALE: gray to dark gray, firm to hard, blocky to fissile, calcareous, disseminated pyrite.		

LITHOLOGY AND SHOWS

4245' - 4253'	SILTSTONE: light brown to reddish brown, friable to soft, argillaceous matrix, slightly calcareous.
4253' - 4269'	SHALE: dark reddish brown to gray, soft to firm, blocky to platy, n calcareous, disseminated pyrite.
LANSING- KANSAS CITY "C"	SAMPLE TOP: 4269' LOG TOP: 4261' SUBSEA: -1078'
4269' - 4290'	LIMESTONE: white to very light gray, firm to hard, grainstone to mudstone, fossil fragments, ooliths, occasional free live black oil, occasional trace intergranular porosity and trace vuggy porosity, bright yellowish white fluorescence, instant blooming bright yellowish white cuts, good show, no show at base.
4290' - 4398'	SHALE: dark gray to gray, firm, fissile to blocky, non to slightly calcareous, slightly carbonaceous in part, pyrite, Limestone stringers.
4298' - 4302'	LIMESTONE: white, hard, mudstone, tight.
4302' - 4310'	SHALE: reddish brown to gray, firm, blocky, non calcareous.
LANSING- KANSAS CITY "D"	SAMPLE TOP: 4310' LOG TOP: 4302' SUBSEA: -1119'
4310' - 4322'	LIMESTONE: light gray to white, firm, mudstone to wackestone, fossil fragment, very chalky texture, trace black oil stain, no visible porosity, occasional yellowish white fluorescence, moderate streaming yellowish white cuts from a few cuttings.
4322' - 4340'	SHALE: dark gray to gray to reddish brown, firm, fissile to blocky, non to slightly calcareous, slightly carbonaceous in part, pyrite, Limestone stringers.
4340' - 4344'	SANDSTONE: light brown, hard, very fine grained grading to silt, rounded, well sorted, clay fill, tight, no shows.
4344' - 4356'	SHALE: reddish brown, soft to firm, subblocky, non to slightly calcareous, clayey, occasional Siltstone and SANDSTONE stringers.

LITHOLOGY AND SHOWS

LANSING- KANSAS CITY "E"

SAMPLE TOP: 4356' LOG TOP: 4350' SUBSEA: -1167'

4356' - 4370'

LIMESTONE: white to very light gray, firm to hard, mudstone to grainstone, peloids, fossil fragments, occasional patchy black oil stain, occasional free oil in micro vugs, trace to fair interparticle and vuggy porosity, bright yellowish white fluorescence, immediate blooming yellowish white cuts, fair show.

4370' - 4376'

SHALE: dark gray to gray to black, firm, blocky, calcareous, very to slightly carbonaceous in part, trace pyrite.

4376' - 4391'

SILTSTONE: maroon to light brown, friable, grading to very fine grained sand, clay fill, tight, no show.

4391' - 4399'

SHALE: dark reddish brown to reddish brown to maroon, firm, blocky to platy, non calcareous, moderately to very silty.

LANSING- KANSAS CITY "F"

SAMPLE TOP: 4399' LOG TOP: 4392' SUBSEA: -1209'

4399' - 4407'

LIMESTONE: white to light gray, firm to hard, mudstone, very chalky texture, occasional fossil fragments, occasional sandy, trace black dead oil specks, tight, no shows.

4407' - 4420'

SHALE: gray to dark gray to black to reddish brown, firm, platy, n to slightly calcareous, occasional slightly carbonaceous, trace pyrite, plant remains.

4420' - 4426'

LIMESTONE: white to light gray, firm to hard, mudstone, slightly chalky texture, fossil fragments, tight, no shows.

4426' - 4454'

SHALE: brownish red, firm, blocky, non calcareous, with interbedded white Limestone stringers.

4454' - 4460'

LIMESTONE: white to cream, with reddish brown mottled, mudstone, fossil, chalky, occasional reddish brown SHALE partings, tight, no shows.

4460' - 4482'

SHALE: dark reddish brown, firm to hard, blocky to platy, non calcareous, moderately to very silty.

4482' - 4490'

LIMESTONE: white to cream to light gray, mudstone, sandy, chalky, occasional reddish brown SHALE partings, tight, no shows.

4490' - 4507'

SHALE: brownish red, firm, blocky, non calcareous, with interbedded white Limestone stringers.

4507' - 4522'

LIMESTONE: light gray to white to cream, hard, cryptocrystalline, fossil fragments, gray Shale partings, tight, no shows.

LITHOLOGY AND SHOWS

4522' - 4547'	SHALE: gray to dark gray to dark gray green, hard to firm, sub blocky, non to slightly calcareous.
PAWNEE	SAMPLE TOP: 4547' LOG TOP: 4546' SUBSEA: -1363'
4547' - 4570'	LIMESTONE: white to cream to very light gray, firm to hard, grainstone to mudstone, occasional peloids, fossil fragment, trace live black oil stain, trace vuggy porosity, trace interparticle porosity, occasional live black oil in micro vugs, bright yellowish white fluorescence, instant blooming yellowish white cuts, good show from a few cuttings.
4570' - 4586'	SHALE: gray to dark gray to black, hard to firm, sub blocky to fissile, non calcareous, fossil (Brachiopod), carbonaceous in part.
FORT SCOTT	SAMPLE TOP: 4586' LOG TOP: 4580' SUBSEA: -1397'
4586' - 4610'	LIMESTONE: light gray to light brown, firm, mudstone, rare fossil fragment, chalky, trace patchy black dead oil stain, no visible porosity, no shows.
4610' - 4620'	SHALE: gray to dark gray, firm, blocky to fissile, occasional carbonaceous at top, disseminated pyrite, occasional coal.
4620' - 4638'	LIMESTONE: white to light gray to cream, firm to hard, mudstone to wackestone, chalky, fossil fragments, occasional very sandy, tight, no shows.
CHEROKEE	SAMPLE TOP: 4638' LOG TOP: 4632' SUBSEA: -1449'
4638' - 4650'	SHALE: black to dark gray to gray, firm, blocky to fissile, occasional carbonaceous, trace pyrite, plant remains, thin black slightly argillaceous Coal stringers.
4650' - 4670'	LIMESTONE: white to light gray, firm to hard, mudstone to wackestone, occasional fossil fragment (Brachiopod), slightly sandy in part, slightly argillaceous in part, light gray Shale stringers, tight, no shows.
4670' - 4684'	LIMESTONE: gray to light gray, firm to hard, mudstone to wackestone, very chalky, occasional fossil fragment (Brachiopod), slightly argillaceous in part, opaque chert, tight, no shows.

LITHOLOGY AND SHOWS

4684' - 4714'	SHALE: gray to dark gray, firm, platy, non to slightly calcareous, occasional slightly carbonaceous, pyrite, occasional LIMESTONE: white, hard, mudstone, dead oil, tight, no show.
4714' - 4728'	SANDSTONE: white to very light gray, friable to very hard, fine grained, well rounded, well sorted, weak siliceous cement, occasional black dead oil specks, tight, no shows.
4728' - 4744'	SHALE: gray to dark gray, firm, platy, non to slightly calcareous, occasional slightly carbonaceous, pyrite, with Limestone stringer, white, mudstone, sandy, chalky, dead oil, tight, no show.
4744' - 4750' TD	SANDSTONE: white, very friable, very fine grained, rounded, well sorted, weak calcareous cement, no visible porosity, no shows.

SERVICES

CONTRACTOR:	Beredco Drilling Inc., Rig 2	
Toolpusher:	Milo Salinas	
DRILLING FLUIDS:	Morgan Mud, Inc.	McCook, ND
Mud Type:	Freshwater Chemical	308-340-5946
Engineer:	Dave Lines, Dave Korte	
MUD LOGGING:	None	
WELLSITE GEOLOGY:	T. M. McCoy & Co., Inc. Peter J. Vollmer	Wilson, WY 307-733-4332
DRILL STEM TESTING:	Trilobite Testing, Inc. Royal Fisher DST 1: 4018' - 4090' Oread DST 2: 4170' - 4240' LKC "B" DST 3: 4238' - 4290' LKC "C" DST 4: 4280' - 4380' LKC "D & E" DST 5: 4518' - 4564' Pawnee	Hays, KS 785- 625-4778
DIRECTIONAL DRILLING:	None	
WIRELINE LOGS:	Pioneer Energy Services RAG: Surface casing - TD Micro-resistivity, Sonic: 3500' - TD Daylon Kerr	Hays, KS 785-625-3858