

out info. Commingled

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1  
September 1999  
Form Must Be Typed

ORIGINAL

RECEIVED  
NOV 10 2004  
KCC WICHITA

Operator: License # 33344  
 Name: Quest Cherokee, LLC  
 Address: P.O. Box 707  
 City/State/Zip: Howard, KS 67349  
 Purchaser: Bluestem Pipeline, LLC  
 Operator Contact Person: E. Wayne Willhite  
 Phone: (620) 374-2133  
 Contractor: Name: L & S Well Service  
 License: 9313  
 Wellsite Geologist: Michael Ebers & William Stout  
 Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, 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./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_  

<u>1/25/04</u>	<u>1/29/04</u>	<u>Not Completed</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-30466-00-00  
 County: Montgomery  
 N/2 - NW - NE - Sec. 16 Twp. 35 S. R. 14  East  West  
3150' feet from S N (circle one) Line of Section  
3300' feet from E W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE NW SW  
 Lease Name: Burrows Well #: 1-16  
 Field Name: Wayside-Havana  
 Producing Formation: \_\_\_\_\_  
 Elevation: Ground: 863' Kelly Bushing: \_\_\_\_\_  
 Total Depth: 1691' Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at 25' Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from surface  
 feet depth to 1691' w/ 150 sx cmt.

**Drilling Fluid Management Plan**  
 (Data must be collected from the Reserve Pit)  
 Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
 Dewatering method used Compressed air with injected water  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: E. Wayne Willhite  
 Title: Dist. Mgr. Date: 11-04-04  
 Subscribed and sworn to before me this 4<sup>th</sup> day of November,  
 20 04.  
 Notary Public: John P. Black  
 Date Commission Expires: 3/26/05



**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
A1+2 - RSP - 1/9/06

Operator Name: Quest Cherokee, LLC Lease Name: Burrows Well #: 1-16  
 Sec. 16 Twp. 35 S. R. 14  East  West County: Montgomery

**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 copy of all Electric Wireline 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  <b>Dual Induction, Temperature &amp; Density Log</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum  Sandstone 354'  <div style="text-align: center; font-size: 24px; font-weight: bold; transform: rotate(-15deg);">                     RECEIVED                      NOV 10 2004                      KCC WICHITA                 </div>
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CASING RECORD <input checked="" 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
surface	11'	8 5/8"		25'	portland	6	
production	6 3/4"	4 1/2"	10.5#	1245.85'	thickset	150	25# Floseal, 15 gal
							Sodium Silicate

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
None	Shut In at this time		

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <b>No decision has been made at this time</b>		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		None	None		

Disposition of Gas  Vented  Sold  Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

WILLIAM M. STOUT  
101 SOUTH STAR STREET  
EL DORADO, KANSAS 66042  
316 321-1270

Geologist Report

Burrows #1-15  
C N/2 NW NE Sec. 16-T35S-R14E  
Montgomery County, Kansas  
API# 15-12S-30466

Operator: Quest Cherokee LLC #33344

Contractor: L & S Drilling Co (Air Rig)

Commenced: 01-25-04

Completed

Surface Casing: 8 5/8" @ 20'

Production Casing: N/A

Ground Level Elevation: 863'

Test @ 336' 50# on 1 1/4" choke: 2,341 mcfg

600 - 632 Shale gray, sandy

Chain broke on pull down

Repaired Chain and drilled to 667'. Shut down overnight

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James D. Lorenz #9313  
543-A 22000 Rd.  
Cherryvale, KS 67335  
620-328-4433

DRILLER LOG  
QUEST CHEROKEE, LLC

Burrows #1-16  
S16, T35, R14E  
Montgomery County  
API#15-125-30466-00-00

0-5 DIRT  
5-20' SAND ROCK  
20-235 SHALE  
235-300 SAND (GAS)  
300-332 SHALE  
332-380 SAND (GAS)  
380-505 SHALE  
505-515 LIME  
515-520 SHALE  
520-525 LIME  
525-689 SHALE  
689-691 LIME  
691-710 SHALE  
710-717 LIME  
717-749 SAND  
749-799 SHALE  
799-846 LIME  
846-878 SAND  
878-932 SHALE  
932-958 LIME  
958-965 BLACK SHALE  
965-996 SAND  
996-1074 SHALE  
1074-1096 LIME  
1096-1102 BLACK SHALE  
1102-1124 LIME  
1124-1129 BLACK SHALE  
1129-1145 LIME  
1145-1214 SHALE  
1214-1260 SAND  
1260-1268 BLACK SHALE  
1268-1311 SHALE  
1311-1335 SAND  
1335-1348 SHALE  
1348-1360 SAND  
1360-1403 SHALE  
1403-1413 SAND  
1413-1624 SHALE  
1624-1691 LIME MISSISSIPPI

1-25-04 Drilled 11" hole and  
Set 25' of 8 5/8" Surface pipe  
Set with 6 sacks of Portland Cement

1-26-04 Started drilling 6 3/4" hole

1-29-04 Finished drilling to T.D. 1691'

311' BLACK SHALE WATER

336' GAS TEST 32 LB. ON 1 1/2" ORIFICE

799' LIME ODOR TO 809'

888' GAS TEST 22 LB. ON 1 1/2" ORIFICE

1515' GAS TEST 18 LB. ON 1 1/2" ORIFICE

1641' GAS TEST 18 LB. ON 1 1/2" ORIFICE

1666' GAS TEST 18 LB. ON 1 1/2" ORIFICE

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1691' T.D.

## GEOLOGICAL REPORT

**Burrows #1-16**  
3150' FSL, 3300' FWL  
Section 16, T35S-R14E  
Montgomery Co., Kansas  
Feb. 14, 2004

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**Operator:** Quest Cherokee LLC, P.O. Box 100, Benedict, Kansas 66714

**Drilling Contractor:** L & S Well Service, Jim Lorenz, driller  
Ingersoll Rand air rotary drill rig with auxiliary air compressor

**Wellsite Geologists:** William Stout – On location above 662'  
Michael L. Ebers – On location from 662' to T.D.

**Dates Drilled:** Jan. 26, 28, and 29, 2004      **Size Hole:** 6¾"

**Total Depth:** 1691'      **Elevation:** 863' (Surveyed)

**Drilling Fluid:** Compressed air with injected water

**Surface Casing:** 25' of 8 5/8" surface casing cemented to the surface

**Electric Logs Run:** Gamma ray, neutron, induction, temperature, and density logs

**Formation Tops:** Formation tops were picked from the gamma ray and density logs. *Due to icy conditions during the logging of the well, all of the E-log footages are in error. The error varies from log to log and also varies with depth. The error varies from <2' up to 11'. No attempt was made to correct for this error since the formation tops in this report were picked from the gamma ray and density logs and the error from 800' to T.D. on these logs was <2 to 4'.*

**Rock Color Descr:** GSA Rock Color Chart

**Status:** Well currently being evaluated

**Gas Shows:** Sandstone      354-368'      ~2,000 mcf/day

**Oil Shows:** Altamont Limestone      799-838'      light show of oil

**Water Encountered:** See driller's log

**Canister Tests:** See separate report for the results of the canister desorption tests.

**Notes:** Well cuttings were examined at the drill rig and discarded. Select samples of coal and zones of interest were saved and examined in the laboratory with a binocular microscope and blacklight.

*Refer the William Stout's geological report for a description of the lithologies, gas shows, etc. above 662'*

**FIELD and LABORATORY SAMPLE EXAMINATION**

- 0-662' See William Stout's geological report
- 662-682' Shale, medium dark gray
- 682-692' Shale, grayish black, no flat joint faces, carbonaceous, scattered graptolites, scattered disseminated pyrite, few gas bubbles under 10x magnification
- 692-707' Shale, greenish gray laminated with limestone, light olive gray, fine grained
- 707-712' Limestone, light olive gray interbedded with shale, medium dark gray
- 712-718' Limestone, light olive gray, fine grained, dense
- 718-732' Sandstone, cuttings consisted of loose sand grains, no petroliferous odor
- 732-747' Sandstone, light greenish gray, fine grained, very silty, subrounded, friable, <6% porosity, no fluorescence, no petroliferous odor
- 747-799' Shale, medium dark gray

**Top of the Altamont Limestone at 799' (+64')**

- 799-805' Limestone, light olive gray and 20% medium brown oil staining, oil stained chips are granular with ~8% intergranular and pinpoint vuggy porosity, 20% speckled medium bright yellow fluorescence, oil odor, show of brown oil when washed, sheen on cuttings, sheen on pit
- 805-846' Limestone, light olive gray and medium gray, fine grained, dense, 1 to 2% pinpoint vuggy porosity, shale break @ 816', faint odor, trace hydrocarbon fluorescence
- 846-852' Sandstone, light bluish gray, fine grained, subrounded, tightly packed, <6% porosity, no fluorescence, no petroliferous odor or show
- 852-863' Sandstone, loose sand grains, no petroliferous odor or show
- 863-882' Sandstone, light gray, fine grained, subrounded, silty, estimate 8 to 10% porosity, carbonaceous partings, no odor or show, no fluorescence
- 882-933' Shale, medium gray and medium dark gray

**Gas Check @ 888' -- 22 lbs. on 1½" choke = 2,075 mcf/day**

**Top of the Pawnee Limestone at 933' (-70')**

- 933-936' Limestone, dark gray
- 936-958' Limestone, tan, locally trace petroliferous odor @~950'
- 958-960' Shale, dark gray

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960-964' Lexington Shale, dark gray and grayish black

*Canister #105 -- Lexington Shale @ 960-964'*

964-984' Shale, medium dark gray, locally sandy

984-998' Sandstone, light gray, scattered shale partings, medium gray, no petroliferous odor

998-1072' Shale, medium dark gray

Top of the Oswego Limestone at 1072' (-209')

1072-1094' Limestone, olive gray, fine grained, dense, black shale break @ 1087', no petroliferous odor

1094-1096' Summit Shale, dark gray

*Canister #74 -- Summit Shale @ 1094-1096'*

1096-1100' Summit Shale, grayish black and black

*Canister #126 -- Summit Shale @ 1096-1100'*

1100-1122' Limestone, light olive gray, fine grained, massive

1122-1126' Shale, medium dark gray, calcareous

1126-1130' Mulky Shale, grayish black to black, no flat joint faces, carbonaceous

*Canister #78 -- Mulky Shale @ 1126-1130'*

1130-1144' Limestone, light brown, light olive gray, and dove gray, fine grained, dense

1144-1153' Shale, dark gray

1153-1166' Shale, dark gray with thin medium brown limestone laminations, trace coal @ ~1160'

1166-1178' Sandstone, light gray, fine grained, no petroliferous odor or show

1178-1182' Shale, dark gray

1182-1183' Shale, medium dark gray, sandy

Top of the Verdigris Limestone at 1183' (-320')

1183-1186' Limestone

1186-1188½' Croweburg Shale, grayish black, <1% flat joint faces, thin vitreous coal at base

*Canister #49 -- Croweburg Shale & Coal @ 1186-1188½'*

1188½-1191' Limestone, brown

1191-1197' Sandstone, light gray, very fine grained, silty, tight, laminated with shale, medium dark gray

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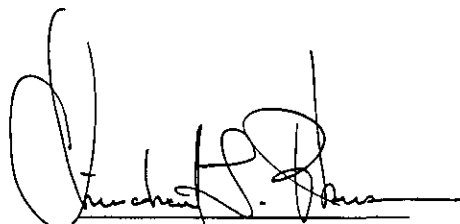
Burrows #1-16  
2/14/04

1640-1660' Chert, white. all cotton rock, no oil staining, <2% porosity, no fluorescence, no petroliferous odor or show

1660-1691' Chert, mottled white and light olive gray, mostly massive/flinty, <5% cotton rock, <1% porosity, no fluorescence, no petroliferous odor or show

Gas Check @ 1665' -- same as above

T.D. 1691'



Michael L. Ebers, PG, CPGS  
Petroleum Geologist

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# CONSOLIDATED OIL WELL SERVICES, INC.

.....  
AN INFINITY COMPANY

211 W. 14th, P.O. Box 884 Chanute, KS 66720 • (620)431-9210 • 1-800-467-8676

INVOICE DATE	INVOICE NO.
02/24/04	00189040

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TERMS: Net 30 Days  
A Finance Charge computed at 1% per month (annual percentage rate of 12%) will be added to balances over 30 days.

SOLD TO  
QUEST CHEROKEE, LLC  
P.O. BOX 100  
BENEDICT, KS 66714

PLEASE REFER TO THIS ACCOUNT NUMBER WHEN MAKING INQUIRIES

ACCOUNT NO.	P.O. NO.	LOCATION	LEASE AND WELL NO.	DATE OF JOB	JOB TICKET NO.		
5401			BURROWS 1-16	02/23/2004	3946		
LINE NUMBER			DESCRIPTION	UNITS	UNIT PRICE	UNITS MEAS	EXTENDED PRICE
5402			CEMENT PUMPER	1.0000	525.0000	EA	525.00
1107			CASING FOOTAGE	1245.0000	.0000	EA	.00
1105			FLO-SEAL (25#)	3.0000	37.7500	SK	113.25
1123			COTTONSEED HULLS	2.0000	12.9500	SK	25.90
11			CITY WATER	5.0000	11.2500	EA	56.25
11			4 1/2" RUBBER PLUG	1.0000	27.0000	EA	27.00
5407			SODIUM SILICATE (WATER GLASS)	15.0000	10.0000	GA	150.00
5501			BULK CEMENT DELIVERY/MIN BULK DEL	1.0000	190.0000	EA	190.00
5502			WATER TRANSPORT	4.0000	80.0000	HR	320.00
0123			80 BBL VACUUM TRUCK	4.0000	75.0000	HR	300.00
			OIL WELL CEMENT	150.0000	11.3000	SK	1695.00

GROSS INVOICE	TAX
3402540	109.57

REMITTANCE COPY

PLEASE PAY
3511.97



**CONSOLIDATED**

**OIL WELL SERVICES**

AN INFINITY COMPANY

211 W. 14TH STREET, CHANUTE, KS 66720  
620-431-9210 OR 800-467-8676

TICKET NUMBER 23946

LOCATION B'ville

**FIELD TICKET**

DATE	CUSTOMER ACCT #	WELL NAME	QTR/OTR	SECTION	TWP	RGE	COUNTY	FORMATION
2-23-04	16028 6602	BURROWS #1-16		16	35	14	MG	
CHARGE TO				OWNER				
MAILING ADDRESS				OPERATOR				
CITY & STATE				CONTRACTOR				
Quest Cherokee LLC								

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	UNIT PRICE	TOTAL AMOUNT
5401	1 1245'	PUMP CHARGE LONG STRING		525.00
1107	3 SX	FLO SEAL	*	113.25
1105	2 SX	HULLS	*	25.90
1123	5000 GAL	CITY H <sub>2</sub> O	*	56.25
4404	1 SQ.	4 1/2 RUBBER PLUG	*	27.00
1111B	75 GAL	SODIUM SILICATE	*	150.00
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5407	MIN	BLENDING & HANDLING TON-MILES STAND BY TIME MILEAGE		190.00
5501	4 HR	WATER TRANSPORTS		320.00
5502	4 HR	VACUUM TRUCKS FRAC SAND		300.00
1126	150 SX	CEMENT OWC	*	1695.00
			* SALES TAX	109.57
ESTIMATED TOTAL				3511.97

Ravin 2790

CUSTOMER or AGENTS SIGNATURE

CIS FOREMAN

*JAR Graham*  
189040

CONSOLIDATED OIL WELL SERVICES, INC.  
 211 W. 14TH STREET, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676

TICKET NUMBER 30043  
 LOCATION Bullle  
 FOREMAN JJF

TREATMENT REPORT

DATE	CUSTOMER #	WELL NAME	FORMATION
2-23-04	6602	BURROWS #1-16	
SECTION	TOWNSHIP	RANGE	COUNTY
16	35	14	MG
CUSTOMER			
QUEST			
MAILING ADDRESS			
CITY			
STATE		ZIP CODE	
TIME ARRIVED ON LOCATION			

TRUCK #	DRIVER	TRUCK #	DRIVER
393	Kent		
413	Dale		
235	MARK		
174	Dennis		

WELL DATA	
HOLE SIZE	PACKER DEPTH
6 3/4	Type B
TOTAL DEPTH	PERFORATIONS
1780	0
	SHOTS/FT
	OPEN HOLE
CASING SIZE	CASING DEPTH
4 1/2	1245
CASING WEIGHT	TUBING SIZE
	TUBING DEPTH
CASING CONDITION	TUBING WEIGHT
	TUBING CONDITION
TREATMENT VIA	

TYPE OF TREATMENT	
<input type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input checked="" type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISF. PUMP	<input type="checkbox"/>
<input type="checkbox"/> OTHER	<input type="checkbox"/>

PRESSURE LIMITATIONS		
	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

DROPPED TRIP BALL FOR TYPE B PACKER SHOE - LOADED CASING - PRESSURED UP TO 800# + SET SHOE - RAN 15 GALS SODIUM SILICATE IN 4 BBL  
 H<sub>2</sub>O followed by 15 BBL clean H<sub>2</sub>O flush - pumped 150 SB OWC w/ flo seal + hulls @ 14.7 PPG - shut down - washed out lines + pump - dropped plug - displaced to bottom + set - shut in <sup>TITLE</sup> (chased plug to TD w/ wireline) <sup>DME</sup> -  
 - circulated cement to surface -

TIME AM/PM	STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
							BREAKDOWN PRESSURE
							DISPLACEMENT
							MIX PRESSURE
							MIN PRESSURE
							ISIP
							15 MIN.
							MAX RATE
							MIN RATE

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