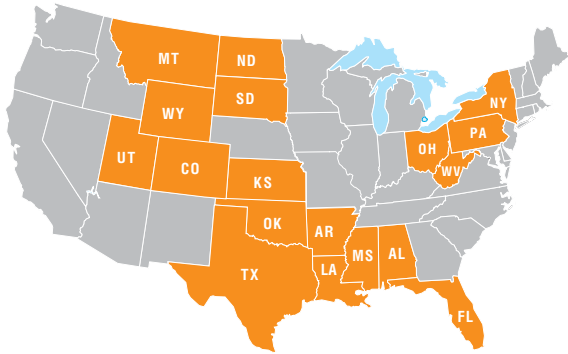


Geographic Diversity
With Local Expertise



Cased Hole Services

- Logging
- Pipe Recovery
- Stuck Pipe Logging
- Mechanical Services
- Perforating
- Tubing Conveyed Perforating (TCP)

Open Hole Services

- Formation Analysis
- Resistivity
- Porosity
- Acoustic
- Temperature

Contact us:



Texas

Graham, TX Open Hole
(940) 549-7914
Graham, TX Cased Hole
(940) 549-7912
Laredo, TX
(956) 718-3100
Rosharon, TX
(281) 431-2222
Victoria, TX
(361) 578-8851

Competition Wireline Services

Billings, MT
(406) 652-4400
Cut Bank, MT
(406) 873-2262
Havre, MT
(406) 265-7919
Casper, WY
(307) 472-6100

Rocky Mountain Phoenix Surveys, Inc. (PSI)

Brighton, CO
(303) 659-6581
Fort Morgan, CO
(970) 867-5171
Wray, CO
(303) 659-6581
Roosevelt, UT
(435) 725-1256

Louisiana

Bossier City, LA
(318) 742-9114
Broussard, LA
(337) 364-9391
Houma, LA
(985) 655-5463

Penkota Wireline Services

Williston, ND
(701) 572-1087
Dickinson, ND
(701) 483-7613

Marcellus

Buckhannon, WV
(304) 473-0184

Pioneer Log-Tech

Hays, KS
(785) 625-3858
Pratt, KS
(620) 672-3200
Liberal, KS
(620) 626-4466

Mississippi

Laurel, MS
(601) 428-1126

City Sales Offices

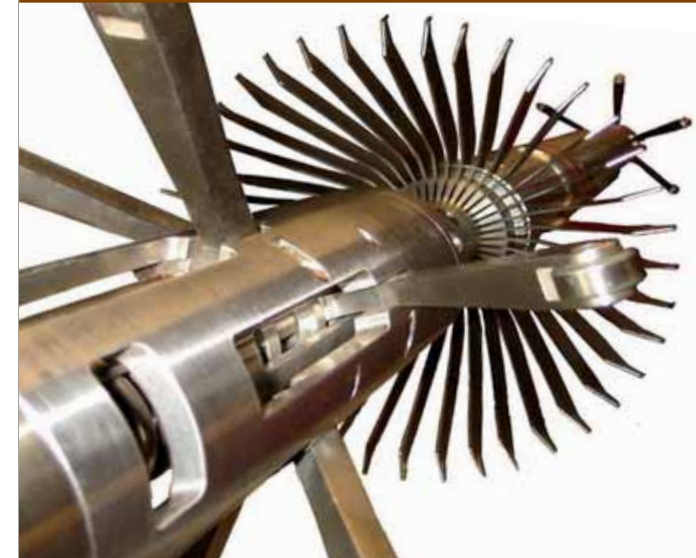
Dallas, TX
(817) 913-3936
Denver, CO
(303) 704-1936
Houston, TX
(713) 397-4614



A subsidiary of Pioneer Drilling Company

Geographic Diversity
With Local Expertise

Multifinger Caliper Imaging



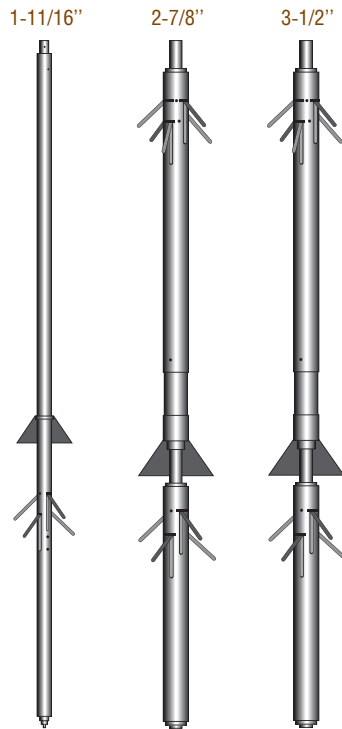
Unsurpassed Service. Premium Equipment. The Best People.



1250 NE Loop 410
Suite 1000
San Antonio, TX 78209
t. 210.828.7689
www.pioneerdrilg.com

Pioneer Wireline Services is a subsidiary of Pioneer Drilling Company. Pioneer Drilling Company is a diverse oil field service provider offering drilling, well services, wireline, and fishing and rental services. Pioneer Drilling Company operates in all key oil and gas producing areas throughout the United States and internationally in Colombia.

Technical Specifications

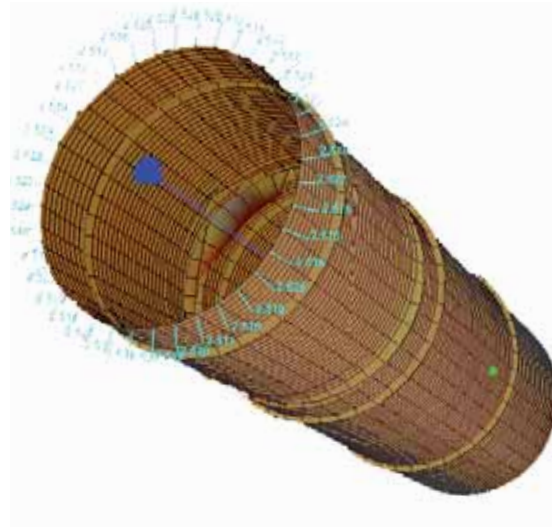


Length	75.98"	73.86"	73.86"
Diameter	43 mm	73 mm	89 mm
Weight	28 lbs	89 lbs	101 lbs
Arms	24	40	56
Pressure Rating	15000 psi	15000 psi	15000 psi
Temp. Rating	350° F	350° F	350° F
Measuring Range	2.2-5.7"	3.2-8.3"	4-10"
Sensitivity	0.003"	0.004"	0.004"
Accuracy	.05"	.04"	.04"
Deviation Range	-	0-180°	0-180°
Deviation Accuracy	-	5°	5°
Azimuth Range	-	0-360°	0-360°
Azimuth Accuracy	-	5°	5°
Logging Speed	30 ft/min	30 ft/min	30 ft/min

Output Signal - Digital communication compatible with Warrior Logging System

Multifinger Caliper Imaging

Pioneer Wireline Services uses the latest in high resolution Multifinger Caliper tool (MFC). The MFC gathers information on internal casing condition and identifies damage and wear to the casing.



On-site Results

Customers have the option to receive on-site 3-D images of log data. The 3-D images can be provided on hard copy or on a CD which allows us to process logging data output to customer's specifications.

Multifinger Caliper Log

The MFC sends an I.D. image (one sensor for each finger) plus additional curves: deviation and relative bearing for orientation and control curves such as cablehead voltage and temperature. In addition, there are calculated curves derived from the image: average I.D., Maximum I.D. and Minimum I.D.

www.pioneerdrilg.com

Multifinger Caliper Logging

Advantages

- Individual measuring fingers detect metal loss of the inner wall due to corrosion or erosion
- Casing is analyzed for
 - deformation
 - bending
 - fracture
 - holes
 - pits
 - slots
 - cracks
 - splits
- Measures internal diameter and its concentricity
- Identifies casing joints with differing weight or wall thickness
- Finds and evaluates defects due to mechanical failure
- Reveals scale and paraffin buildup
- Exposes separated collars
- Detects distorted or collapsed sections
- Real-time logging
- Provides fast, accurate onsite evaluations

