



GREAT WESTERN DRILLING COMPANY
Post Office Box 1659 • Midland, Texas 79702 • 915/682-5241

November 08, 1994

Mr. Jim Morrow, Chief Petroleum Engineer
State of New Mexico
Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

Dear Mr. Morrow:

On October 13, 1994 Great Western Drilling Company attended a hearing at the Commission on the South Carter San Andres Unit for unitization and EOR credits being case docket Nos. 11113 and 11114. During the proceedings you, as the presiding examiner, asked me, Great Western's engineer, about lined tubing for injection wells. For your information please find enclosed a brochure on the type of lining Great Western plans to use on the injection wells.

I hope this information is helpful to you.

Sincerely,

Dennis L. Hendrix
Manager of Operations

DLH/cc
enclosure

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Specifications

RICELINE 10 and DUOLINE 10 Lining - PVC for 150° F Maximum Working Temperature

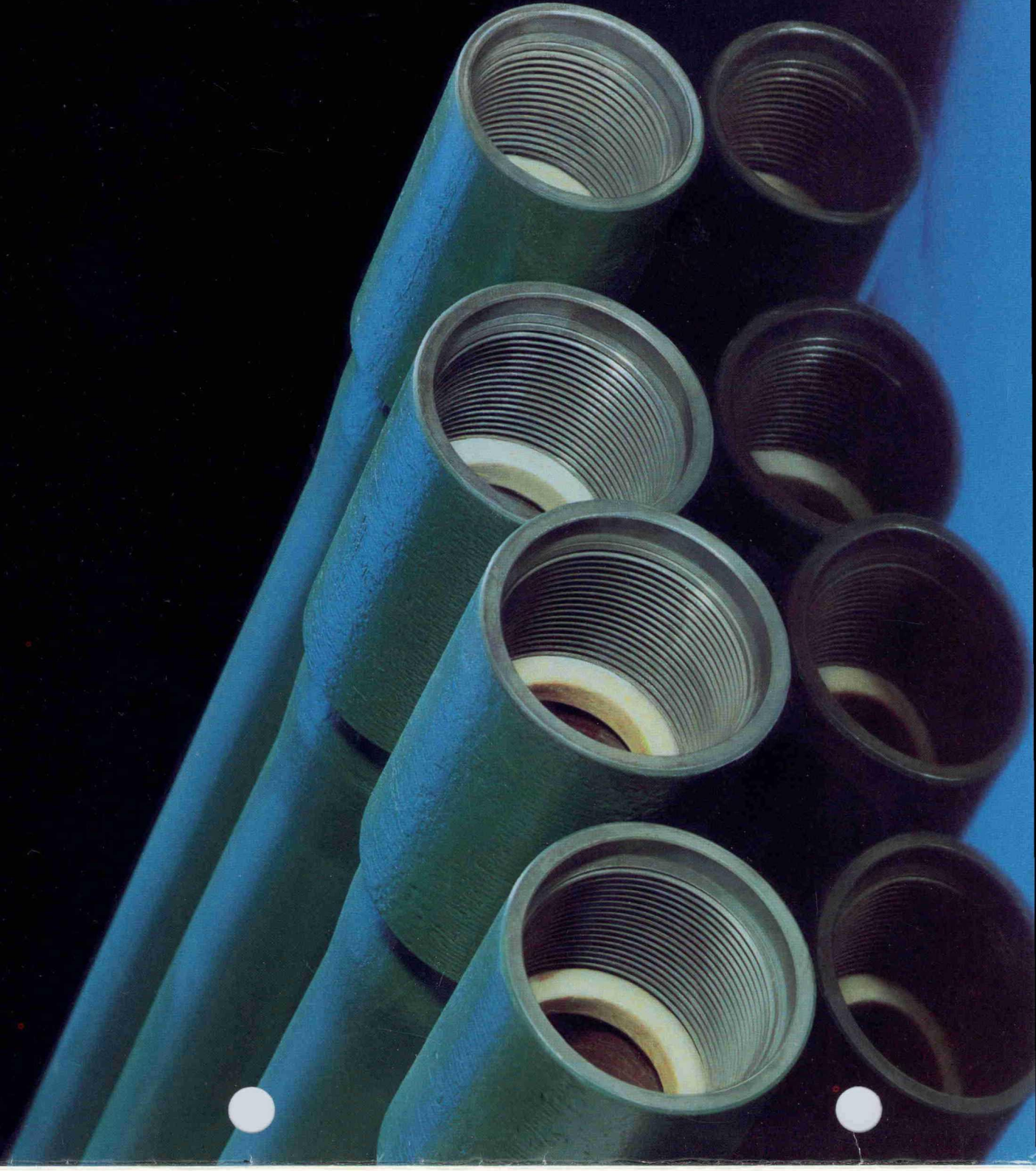
Steel Pipe Size-Inches Nominal	PVC Liner Thickness-Mils	Nominal DUOLINE I.D.-Inches	Lining Weight Lb./Ft.
1-1/4	63	1.18	.25
2	60	1.78	.50
2-1/2	73	2.20	.55

RICELINE 20 and DUOLINE 20 Lining - Fiberglass-Epoxy for 300° F Maximum Working Temperature

Steel Pipe Size-Inches Nominal	Schedule or Wt.-Lb.	Fiberglass Liner Wall- Mils	Nominal I.D.-Inches		Taper Flare	Lining Weight Lb./Ft.
			Liner I.D.	Std. Flare		
1-1/2	Sch 40, IJ & EUE Tbg	40	1.425	1.36		.30
2-1/16	I.J. Tbg	40	1.500	1.43		.40
2	Sch 40 & 4.7 Tbg	40	1.810	1.74	1.78	.50
	Sch 80 & 5.95 Tbg	40	1.744	1.67		.50
2-1/2	Sch 40 & 6.5 Tbg	40	2.251	2.14	2.20	.55
3	Sch 40 & 9.3 Tbg	45	2.777	2.67		.95
	Sch 80 & 10.2 Tbg		2.674	2.56		.95
4	Sch 40, 9.5 & 10.5 Csg	50	3.758	3.63		1.50
	Tbg, 11.6 & 13.5 Csg	50	3.691	3.56		1.50
	Sch 80 & 15 Csg	50	3.559	3.43		1.50
5-1/2	14 & 15.5 Csg	60	4.675	4.54		1.81
	17 & 20 Csg	60	4.520	4.38		1.81
6	Sch 40 & 20 Csg	70	5.800	5.66		4.00
	Sch 80, 24 & 28 Csg		5.486	5.35		4.00
7	17, 20 & 23 Csg	75	6.081	5.94		4.50
	32 Csg	75	5.800	5.66		4.50
	38 Csg	75	5.486	5.35		4.50

**Duoline® Lining and Riceline® Tubing
for internal corrosion resistance.**

RICEEngineering



RICEEngineering

MAIN OFFICE
1020 Hoover
GREAT BEND, KS 67530
316/793-5483
800/533-5480
FAX: 316/793-5521

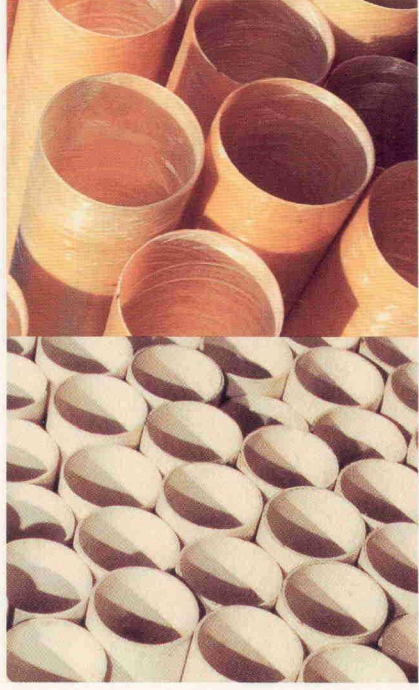
MIDLAND OFFICE & SALES
1030 Andrews Highway
Suite 101
MIDLAND, TX 79701-3807
915/520-5151
800/345-7423
FAX: 915/699-7269

DUOLINE LINING PLANT
9019 North County Road West
ODESSA, TX 79764
915/520-5151
800/345-7423

OKLAHOMA CITY PLANT & SALES
P.O. Box 569
16365 N. E. 23rd Street
CHOCTAW, OK 73020
405/390-2281
800/345-7423

HOUSTON SALES OFFICE
2000 Dairy Ashford
Suite 415
HOUSTON, TX 77077
713/952-4455
800/345-7423

The Duoline® Lining Process stops corrosion where other systems fail. Riceline® is protected tubing that's ready to install.



DUOLINE—When corrosion starts in steel tubing, the tubing soon fails. But DUOLINE linings give steel tubing an internal barrier that resists oil field corrosion. Our system of inserting a separate tube into your steel tubing also eliminates pinholes and holidays inherent in other lining techniques, such as spray coating. RICE Engineering's DUOLINE process can be applied to customer-owned new or used tubing. Plus, it is the same process used to manufacture all our in-stock RICELINE products.

The DUOLINE process starts by inserting a PVC or fiberglass-epoxy tube into steel pipe. The annular space between the rough inner wall of the steel pipe and the outer surface of the liner is completely filled with a special mortar that is applied with pressure. Ends of the tube are flared, creating a corrosion resistant surface that is protected in the collar by a corrosion barrier ring. This allows only the corrosion barrier ring and the inner PVC or fiberglass-epoxy surface to come in contact with corrosive fluids.

For additional corrosion protection and electrical insulation, external fiberglass wrapping can also be supplied by RICE Engineering.

RICELINE—RICE Engineering has RICELINE tubing, made with the DUOLINE process, in stock and ready for quick delivery and installation. The same DUOLINE protection is built into RICELINE 10 and RICELINE 20. Also part of this protection is our complete line of RICELINE fittings that meet any installation requirement.

While any oil field crew can install RICELINE, RICE Engineering offers technical installation services for your convenience.

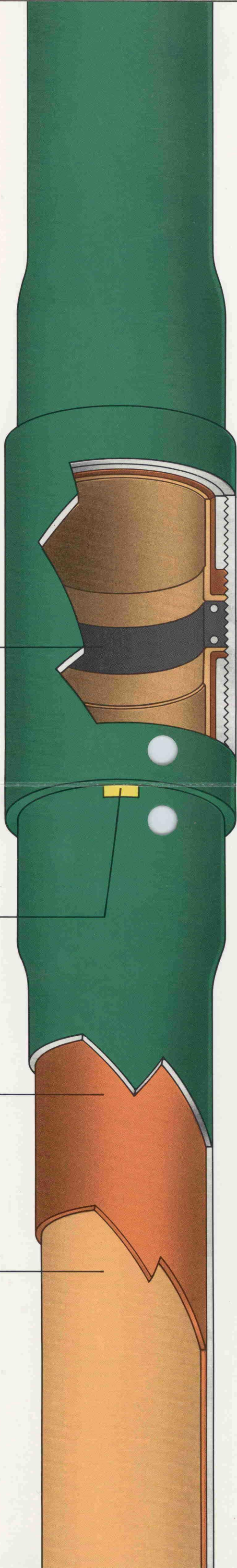
The PVC lining works under pressure—DUOLINE 10 lining, used in RICELINE 10 tubing, uses PVC to give full working pressure of steel in environments between -20°F and +150°F. The interior maintains a "C" factor of 150.

The Fiberglass-Epoxy lining can take the heat—DUOLINE 20 lining, used in RICELINE 20 tubing, uses fiberglass-epoxy to handle applications in more severe environments. It works in temperatures up to 300°F, and can survive in H₂S and CO₂ environments. It also gives the full working pressure of steel and maintains a "C" factor of 150.

Mortar

A Reference Band—on our RICELINE tubing makes installation easy and exact. The position of the band (in relation to the top of the collar) indicates the proper ring compression.

The RICE Corrosion Barrier Ring completes the protection package—RICE Corrosion Barrier Rings, made of oil resistant rubber, are not dislodged by pressure or vacuum. They assure complete protection for pipe collars and pins. No special installation tools are required; simply insert the RICE Corrosion Barrier Ring into the collar and make up the joint in the normal manner.





STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

November 22, 1994

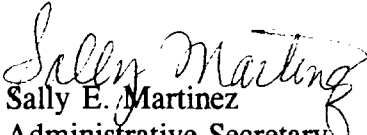
KELLAHIN AND KELLAHIN
Attorneys at Law
P. O. Drawer 2265
Santa Fe, New Mexico 87504

RE: CASE NO. 11113
ORDER NO. R-10251

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,


Sally E. Martinez
Administrative Secretary

cc: BLM - Carlbad
David Abbey