

# High Performance UOE Linepipes<sup>+</sup>

HRGHJ@V@Mnatxtjh<sup>0</sup> DMCN Rghfdqt<sup>1</sup> JNMCN Ind<sup>2</sup>

## Abstract:

Recent construction location of natural gas pipelines is expanding toward remote regions and regions under severe environmental conditions. This requires linepipe materials to have higher strength with properties suitable for the environment, such as high deformability or sour gas resistances? e nce is oo

“HOP,” heat-treatment on-line process by induction heating. This paper introduces characteristics of the recently developed UOE linepipes and metallurgical controlling technologies.

## 0- Hmsqnc t bshnm

Qdbdmskx+ sgd cd l`mc enq m`stq`k f`r g`r addm dwo`mchmf `r ` bkd`m dmdqfx qdrntqbd vhsq ` khsskd dwg`trs ne BN<sub>1</sub>- I`o`m hr h l onqshmf sgd m`stq`k f`r `r khptd@dc m`stq`k f`r 'KMF(+ vghkd ohodkhmd hr trdc enq sq`mronqs`shnm ne m`stq`k f`r eqn l f`r @dkc sn bnmrt l o, shnm qdfhnm nq KMF a`rd- @r sgd dwoknq`shnm ne m`stq`k f`r @dkc hr dwo`mchmf snv`qc qd l nsd qdfhnmr+ knmf chr, s`mbd ohodkhmdr g`ud addm `bshudkx cdudknocd `qntmc sgd vnqkc- hm nqcdq sn qdctbd sgd sns`k bnrs ne knmf chrs`mbd ohodkhmd+ mdde enq ghfg rsqdmfsg khmdohodr g`r addm hmbqd`rdc adb`trd l`sdqh`k `mc vdkchmf bnrs b`m ad qdctbdc ax sghmmdq ohod v`kk `mc f`r sq`mronqs`shnm de@, bhdmbx b`m ad h l oqnuce ax hmbqd`rdc nodq`shnm oqdrtrtqd- @bbnqchmfkx+ sgd `ookhb`shnm ne ghfg rsqdmfsg khmdohodr rtbg `r @OH W6/ ne W7/ fq`cd g`ud addm hmbqd`rdc hm qdbdms xd`qr+ `mc W0// v`r ots sn oq`bshb`k trd enq sgd @qrs sh l d hm 1//1-

Nm sgd nsgdq g`mc+ bnmsqt bshnm ne sgd ohodkhmd g`r dwo`mcdc sn sgd dmuhqnm l dms`kkx rdudqd qdfhnmr rtbg `r bnkc qdfhnm+ rdhr l hb qdfhnm+ cddov`sdq `mc rntq f`r dmuhqnm l dms- Ghfgdq cdenq l`ahkhsx hr qdpthqdc enq sgd khmdohod hms`kkdc hm sgd rdhr l hb nq odq l`eqnrs fqntmc+ `r vdkk `r ghfg rsqdmfsg- Lnqdnudq+ W6/ fq`cd khmdohod eg`r addm oas sn oq`bshb`k trd enq oei l`hko rntq dmuhqnm, l dms vhsq knvdq G<sub>1</sub>R bnmsdms nq ghfgdq oG+ vghkd W5/ nq W54 fq`cd hr l`hmxx trdc enq M@BD rntq dmuhqnm l dms- Rntq qdrhrs`ms khmdohod rsddk `qd `u`hk`akd ax `ookxhmf `cu`mbdc rsddk l`jhmf `mc sgdq l n, l dbg`mhb`k bnm, sqnkdc oqnbdrhmf 'SLBO( sdbgmknfhdr+ `mc sgd rs`akd l`sdqh`k oqnodqshdr sg`s kd`c sn qdkh`ahkhsx ne sgd ohodkhmd `qd qdpthqdc- Lnqdnudq+ sgd cd l`mc enq ghfgdq rsqdmfsg gd`ux v`kk khmdohod g`r addm hmbqd`rdc enq cddo v`sdq ohodkhmd+ `r vdkk- `r r r

enq khmdohod+ drodbh`kkx+ hm nqcdq sn rdbtqd sntfgmdrr `mc vdkc`ahkhsx `r vdkk `r ghfg rsqdmfsg+ `bbdkd`sdcbnkn,

<sup>±</sup> Nqhfhm`kkx ot akhrgdc hm JFE GIHO Mn- 8 '@tf 1//4(+ o- 08°13

<sup>0</sup> Cq- Dmf+  
Rdmhnq Qdrd`qbgdq L`m`fdq+  
Ok`sd % Rg`odr Qdr- Cdos+  
Rsddk Qdr- K`a+  
IED Rsddk

<sup>1</sup> Cq- Dmf+  
Rdmhnq Qdrd`qbgdq Cdotx Fdmdq`k L`m`fdq+  
Ok`sd % Rg`odr Qdr- Cdos+  
Rsddk Qdr- K`a+  
IED Rsddk

<sup>2</sup> Rs`ee L`m`fdq+  
Vdkcdc Ohod Rdb+ Oqnc tbsr Cdrhfm % Pt`khsx Bnmsqnk  
enq Rsddk Oqnc tbsr Cdos+  
Vdrs I`o`m Vnqj r+  
IED Rsddk

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ghfgdq sg`m bnmudhnm`k ohodr-

Lnqd sg`m, 2 /// ldsqhb snmr ne W54 fq`cd IED,  
GHODQ vdqd l`mte`bstqdc enq cn ldrshb f`r ohodkhmd-  
Enq sgd`k nudqrd` ohodkhmd oqnidbs hm rdhr lhb qdfhnm+  
sn`d` lntms ne `ants 33 /// ldsqhb snmr ne W41 `mc  
W5/ fq`cd IED, GHODQ m \_ \_ D, I



