

STIMULATION TREATMENT REPORT



Date 15-DEC-11 District Brighton F.Receipt 1001874438 Customer NOBLE ENERGY INC - XML
 Lease BOOTH N #25-25 Well Name BOOTH N #25-25
 Field WATTENBERG Location 25-5N-67W
 County Weld State Colorado Stage No 1 Well API - API 05123227060000

WELL DATA		Well Type: <u>OLD</u>	Well Class: <u>GAS</u>		Depth TD/PB: <u>7238</u>		Formation: <u>NIOBRARA</u>	
Geometry Type	Tubular Type	OD	Weight	ID	Grade	Top	Bottom	Perf Intervals
TUBULAR	CSG	4.5	11.6	4	M-80	0	7278	Top Bottom SPF Diameter
								7146 7158 2 .73
								7226 7238 2 .73

Packer Type N/A Packer Depth 0 FT

TREATMENT DATA				LIQUID PUMPED AND CAPACITIES IN BBLs.	
Fluid Type	Fluid Desc	Pumped Volume(Gals)	Prop. Description	Volume Pumped(Lbs)	
PAD	Slickwater	43,008	Sand, White, 30/50	51,160	Tubing Cap. 0
PAD	Vistar 18 (Pad)	9,492	Sand, White, 40/70	199,760	Casing Cap. 111.1
TREATMENT FLUID	Vistar 18	97,818	Total Prop Qty: 250,920		Annular Cap. 0
					Open Hole Cap. 0
					Fluid to Load 0
					Pad Volume 1250
					Treating Fluid 2329
					Flush 111.1
					Overflush 0
					Fluid to Recover 3690
Previous Treatment N/A Previous Production N/A					
Hole Loaded With Slickwater Treat Via: Tubing <input type="checkbox"/> Casing <input checked="" type="checkbox"/> Anul. <input type="checkbox"/> Tubing & Anul. <input type="checkbox"/>					
Ball Sealers: 0 In 0 Stages Type					
Auxiliary Materials SEE REC.					

PROCEDURE SUMMARY

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs. Pumped		Slurry Rate BPM	Comments
	STP	Annulus	Stage	Total		
13:40	5994	0	0	0	0	safety meeting / pressure test
13:50	0	0	0	0	0	went over rec with customer
13:55	4660	0	199	0	32.89	start slickwater pad
14:06	2543	0	0	199	0	shutdown (for ISIP)
14:07	4769	0	825	199	40.46	resume slickwater pad
14:30	4608	0	226	1024	49.05	start xlink pad
14:36	4598	0	372	1250	46.09	start 1 psa 30/50 sand
14:46	4337	0	805	1622	41.93	start 2 psa 30/50 and 40/70 sand
15:05	4281	0	947	2427	4303	start 3 psa 40/70 sand
15:27	4182	0	477	3374	43.21	start 4 psa 40/70 sand
15:38	4133	0	111	3851	42.81	flush
15:41	3555	0	0	3962	0	shutdown

Treating Pressure		Injection Rates		Shut In Pressures		Customer Rep. Cesar Martinez	
Minimum	3794	Treating Fluid	42.34	ISDP	3555	BJ Rep.	STEVEN P OLSON
Maximum	4859	Flush	42.81	5 Min.	3324	Job Number	1001874438
Average	4202	Average	42.34	10 Min.	0	Rec. ID No.	
Operators Max. Pressure 5000				15 Min.	0	Distribution	
				Final	3324 In 5 Min.		
				Flush Dens. lb./gal.	8.34		