

# STIMULATION TREATMENT REPORT



Date 28-NOV-00 District Brighton F.Receipt 225116695 Customer Patina Oil & Gas Corporation  
 Lease BOHLENDER 22-14 Well Name BOHLENDER 22-14 Field WATTENBERG Location SESW SEC.22-4N-65W  
 County Weld State Colorado Stage No 1 Well API - API 05123177860000

WELL DATA		Well Type:	Well Class:		GAS		Depth TD/PB:		Formation:	
Geometry Type	Tubular Type	OD	Weight	ID	Grade	Top	Bottom		Perf Intervals	
TUBULAR	CSG	3.5	7.7	3.068	M-75	0	7245		Top	Bottom
TUBULAR	TBG	2.375	4.6	1.995		0	6718		7112	7121
TUBULAR	TBG	2.063	3.4	1.75		6718	7018		SPF	Diameter
									4	.34

Packer Type Retrievable Packer Depth 7018 FT

## TREATMENT DATA

Fluid Type	Fluid Desc	Pumped Volume(Gals)	Prop. Description	Volume Pumped(Lbs)
PAD	Vistar 22 LHT	40992	Sand, White, 20/40	245520
TREATMENT FLUID	Vistar 22/20	91770	Total Prop Qty:	245520

## LIQUID PUMPED AND CAPACITIES IN BBLs.

Tubing Cap.	25.34
Casing Cap.	.84
Annular Cap.	26.05
Open Hole Cap.	0
Fluid to Load	14
Pad Volume	976
Treating Fluid	2185
Flush	25
Overflush	-1.2
Fluid to Recover	3185

Previous Treatment N/A Previous Production N/A

Hole Loaded With 22# Vistar linear Treat Via: Tubing ☒ Casing ☐ Anul. ☐ Tubing & Anul. ☐

Ball Sealers: 0 In 0 Stages Type

Auxiliary Materials VSP-1 5.5GPT/5GPT/XLW-14 1.1GPT/1GPT/BF-9L 1GPT/FLO-NE 1.5GPT/CLAYTREAT-3C 1GPT/GBW-2  
3L 1GPT/GS-1A 3PPT/ULTRA PERM CRB 1PPT/GBW-5 1PPT/2PPT/4PPT.

## PROCEDURE SUMMARY

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs. Pumped		Slurry Rate BPM	Comments
	STP	Annulus	Stage	Total		
08:45	0	0	0	0	0	GOOD TEST ALL B.J. LINES
09:05	6870	254	976	0	13	START PAD LINEAR 22# VISTAR
09:21	3900	281	117	117	0	SHUT DOWN ISDP-2671
09:27	1521	267	117	117	14	RESUME PAD ALL CHEMICALS 2:27 X-LINK
10:30	6729	377	249	976	14	START 1PPG 20/40 2:17 X-LINK
10:48	6758	362	753	1225	14	START 2PPG 20/40 2:10 X-LINK
11:42	6885	382	1154	1978	14	START 3PPG 20/40 2:08 X-LINK
13:06	7445	378	114	3132	13.7	START 4PPG 20/40
13:15	7435	364	71	3246	13.3	START 3PPG 20/40
13:20	7249	379	91	3317	13.6	START 3.5PPG 20/40
13:26	7475	987	25	3408	13.8	START FLUSH
13:29	4575	1612	0	3433	0	SHUT DOWN ISDP-3681

Treating Pressure		Injection Rates		Shut In Pressures		Customer Rep.	
Minimum	4258	Treating Fluid	14	ISDP	3681	BJ Rep.	Mr. Dave Ponto
Maximum	7689	Flush	13.8	5 Min.	3366	David Archuleta	
Average	6985	Average	14	10 Min.	0	Job Number	225116695
Operators Max. Pressure 8000				15 Min.	0	Rec. ID No.	179952915 A
				Final	3366 In 5 Min.	Distribution	PATINA OIL + GAS
				Flush Dens. lb./gal.	8.34		