

# STIMULATION TREATMENT REPORT



Date 28-MAR-01 District Brighton F. Receipt 225117442 Customer Patina Oil & Gas Corporation  
 Lease ECKHARDT 33-15 Well Name ECKHARDT 33-15  
 Field Wattenberg Location SWSE S33-T5N-R64W  
 County Weld State Colorado Stage No 1 Well API - API 05123178150000

WELL DATA		Well Type:	Well Class:		Depth TD/PB:		Formation:	
Geometry Type	Tubular Type	OD	Weight	ID	Grade	Top	Bottom	Perf Intervals
TUBULAR	CSG	3.5	7.7	3.068		0	7012	Top Bottom SPF Diameter
TUBULAR	TBG	2.375	4.7	1.995		0	6452	
TUBULAR	TBG	2.063	4.5	1.613		6452	6752	6835 6849 4 .34

Packer Type Arrow Set Packer Depth 6752 FT

## TREATMENT DATA

Fluid Type	Fluid Desc	Pumped Volume(Gals)	Prop. Description	Volume Pumped(Lbs)
PAD	Vistar 22	40,824	Sand, White, 20/40	245,880
TREATMENT FLUID	Vistar 22 1-4 ppg 20/40	83,370		
TREATMENT FLUID	Vistar 22 4 PPG 20/40	8,988	Total Prop Qty:	245,880

## LIQUID PUMPED AND CAPACITIES IN BBLs.

Tubing Cap.	25.7
Casing Cap.	.72
Annular Cap.	25
Open Hole Cap.	0
Fluid to Load	18
Pad Volume	972
Treating Fluid	2174
Flush	26.45
Overflush	-2
Fluid to Recover	3171

Previous Treatment N/A Previous Production N/A  
 Hole Loaded With Linear 22 Vistar Treat Via: Tubing ☒ Casing ☐ Anul. ☐ Tubing & Anul. ☐  
 Ball Sealers: 0 In 0 Stages Type   
 Auxiliary Materials VSP-1, XLW-14, BF-9L, CLAYTREAT-3C, NE-940, FLO-BACK 20, GBW-23L, GS-1A, GBW-5, CRB

## PROCEDURE SUMMARY

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs. Pumped		Slurry Rate BPM	Comments
	STP	Annulus	Stage	Total		
07:10	0	0	0	0	0	START PRESSURE TEST
07:38	0	0	0	0	0	GOOD TEST
08:58	95	51	0	0	0	START LINEAR PAD
09:16	7470	324	0	130	12.76	START REVERSE STEP RATE TEST
09:19	2889	220	0	149	0	SHUT DOWN ISDP-2757
09:28	1521	53	0	149	0	RESUME WITH X-LINKED PAD
09:53	328	90	0	472	0	SHUT DOWN LOST VISCOSITY ON SPC UNIT 8017
10:13	2383	44	972	472	0	RESUME PAD
10:51	7219	305	247	972	14.05	START 1.00 PPG 20/40
11:09	7173	241	756	1219	14.07	START 2.00 PPG 20/40
12:03	7431	441	1148	1975	14.1	START 3.00 PPG 20/40
01:25	7420	360	277	3123	14.04	START 4.00 PPG 20/40
01:44	7812	360	24	3400	14	START FLUSH
01:48	3971	315	0	3424	0	SHUT DOWN ISDP-3840

Treating Pressure		Injection Rates		Shut In Pressures		Customer Rep.	
Minimum	7045	Treating Fluid	14.03	ISDP	3840	BJ Rep.	Craig Miley
Maximum	7781	Flush	14	5 Min.	3546	Job Number	Billy Myers
Average	7366	Average	14.03	10 Min.	0	Rec. ID No.	225117442 A
Operators Max. Pressure 8000				15 Min.	0	Distribution	
				Final	3546 In 5 Min.		
				Flush Dens. lb./gal.	8.34		