

# Coleman Oil & Gas, Inc.

## FRACTURE TREATMENT REPORT

Operator: Coleman Oil & Gas Well Name: La Plata 34-7-33 #1  
Date: 22-Jun-15  
Field: Location: County: La Plata State: Colorado  
Stimulation Company: Halliburton Supervisor: Bob O'Donovan  
GPS coordinates:

Well Head Connection: 6" - 1002 Stage: 1/2  
Frac Valve (size/company): 5K (Big Red) Packer/Frac String: N/A  
Sand on location (design): 155,000 (design) Weight ticket: 510,220 lbs (tickets) Size/type: 20/40 Brady  
Fluid on location : No. of Tanks: 16 Strap: 320' Amount: 6,400 bbls Usable: 6,080 bbls  
(1st Stg Job requires: 2,236 bbls)

Perforations:  
Depth: 3,101-3,105;3,087-3,099;3,073-3,076;3,057-3,069' Total Holes: 124 PBDT: 3,281'  
Shots per foot: 4 spf EHD: 0.42" CPB: N/A

Breakdown:  
Acid: N/A  
Balls: N/A  
Pressure: 1000 psi Rate: 5 bpm

Stimulation:  
ATP: 2,247 psi AIR: 29.0 bpm  
MTP: 2,422 psi MIR: 29.7 bpm

Start Job:	08:55 hrs - Initial WH pressure: 35 psi	Stage	Clean Rate (bpm)	STP (psi)	Clean Vol (gals)	Cum Vol (gals)	Sand (lbs)
ISIP:	2,243 psi	Pad	30	1,987	20,072	20,072	-
5 min:	2,237 psi	0.5 ppg	29.3	2,308	15,932	36,004	8,384
10 min:	2,048 psi	1.0 ppg	28.7	2,348	15,768	51,772	14,690
15 min:	2,969 psi	2.0 ppg	27.5	2,372	15,573	67,345	28,180
		3.0 ppg	26.4	2,356	13,084	80,429	35,670
		4.0 ppg	25.4	2,369	9,888	90,317	36,360
		5.0 ppg	24.4	2,427	8,843	99,160	32,340
		Flush	30.0	2,579	4,924	104,084	Total Sand 155,624

Frac Gradient: 1.07 psi/ft

### Fluid Info & Breaker Test:

Temp 63, pH 7.41, 8.35  
PH of base gel 9.0, 16 cP (actual not bench)  
Hydration Time: 1MIN- 12; 3 MIN- 14; 6 MIN- 16 all in cP  
Test #1: Optiflow-HTE (2.0 ppt), GBW-30 (4 ppt) Broke in 30 mins  
Test #2: Optiflow-THE (2.0 ppt), GBW-30 (2.0 ppt) Broke in 70 mins

Job Complete at: 10:52 hrs. Date: 6/22/2015 Start flow back: Perf stage 2  
Total Fluid Pumped: 2,478 bbls  
Total Sand Pumped: 155,624 lbs Total Sand on Formation: 155,624 lbs  
Total Nitrogen Pumped: N/A

### Notes:

Chem Adds Used:  
LGC (gel): 420 gals  
BC-140 (Crosslinker): 155 gals  
GasPerm 1000M: 220 gals  
ER-25(Sandwedge component): 101 gals  
GBW-30 (Breaker): 230 lbs  
Opti-Flo THE (Breaker): 150 lbs  
Opti-Clean (FR breaker): 20 lbs  
Sandwedge (Conductivity Enhancer): 305 gals  
FR (Friction Reducer): 18 gals  
Clayweb (Clay control): 101 gals  
ScaleCheck- 150 lbs  
Note: All Tanks loaded w/ fresh water (f' Ignacio). All tanks treated w/ 3 lbs BE-3 (Biocide).

Lowest Rated Casing in Well: 7", 26#, J55; 4,980 psi

Maximum Allowable Treating Pressure: 4,000 psi (80% of new)

Tank Temp: 63°