

# 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: 2/2  
 Frac Valve (size/company): 5K (Big Red) Packer/Frac String: N/A

Sand on location (design): 90,204 (design) Weight ticket: 218,700 (visual&ticke Size/type: 20/40 Brady

Fluid on location : No. of Tanks: 10 Strap: 154' Amount: 3,080 Usable: 2,980  
 (2nd Stage Job requires: 1,326 bbls)

Perforations:  
 Depth: 3,023' - 3,028'; 2,986 - 2,995' Total Holes: 56 PBTd: 3,046'  
 Shots per foot: 4 spf EHD: 0.42" CPB:

Breakdown:  
 Acid: 15% HCl w/ Cl and Fe Control  
 Balls: 85 bio balls NOTE:  
 Pressure: Max - 2,256 psi Rate: 5 bpm Note:  
 Broke to 992 psi Displaced w/ 5,247 gals of water, overdisplaced by 448 gals

Stimulation:  
 ATP: 2,479 psi AIR: 27.0 bpm Note: had minor pump problems at beginning of stage  
 MTP: 2,924 psi MIR: 30.2 bpm

Start Job:	16:18 hrs - initial WH pressure: 4 psi before acid job	Stage	Rate (bpm)	STP (psi)	Clean Vol (gals)	Cum Vol (gals)	Sand (lbs)
ISIP:	2,209 psi	Pad	30	1,103	8,321	8,321	0
5 min:	2,056 psi	0.5 ppg	29.3	2,440	4,028	12,349	1,714
10 min:	2,000 psi	1.0 ppg	28.7	2,157	8,057	20,406	5,939
15 min:	1,866 psi	2.0 ppg	27.5	2,523	8,072	28,478	15,470
		3.0 ppg	26.4	2,722	7,025	35,503	21,010
		4.0 ppg	25.4	2,716	5,392	40,895	18,580
		5.0 ppg	24.4	2,435	6,449	47,344	26,290
		Flush	30.0	2,209	5,440	52,784	Total Sand 89,003

Frac Gradient: 1.109 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: 18:45 hrs. Date: 6/22/2015 Start flow back: MIRU WOR to DO plug

Total Fluid Pumped: 1,451 bbls (including acid job)

Total Sand Pumped: 89,003 lbs Total Sand on Formation: 89,003 lbs

Total Nitrogen Pumped: N/A

Notes:  
 Chem Adds Used:  
 LGC (gel): 240 gals  
 BC-140 (Crosslinker): 107 gals  
 GasPerm 1000M: 185 gals  
 ER-25(Sandwedge component): 80 gals  
 GBW-30 (Breaker): 117 lbs  
 Opti-Flo THE (Breaker): 97 lbs  
 Opti-Clean (FR breaker): 11 lbs  
 Sandwedge (Conductivity Enhancer): 179 gals  
 FR (Friction Reducer): 12 gals  
 Clayweb (Clay control): 88 gals  
 ScaleChek- 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°