

Coleman Oil & Gas, Inc.

FRACTURE TREATMENT REPORT

Operator: Coleman Oil & Gas Well Name: La Plata 34-7-34 #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): 153,250 (design) Weight ticket: 328,420 (visual & tick) Size/type: 20/40 Brady

Fluid on location : No. of Tanks: 16 Strap: 185' Amount: 3,700 Usable: 3,380
(1st Stg Job requires: 2,113 bbls)

Perforations:
Depth: 3,488-3,490; 3,497-3,525' Total Holes: 120 PBDT: 3,749'
Shots per foot: 4 spf 90 deg EHD: 0.42 CPB: N/A

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

Stimulation:
ATP: 2,192 psi AIR: 29.0 bpm
MTP: 2,476 psi MIR: 30.2 bpm

Start Job:	11:52 hrs - initial WH pressure: 110 psi	Stage	Rate (bpm)	STP (psi)	Clean Vol (gals)	Cum Vol (gals)	Sand (lbs)
ISIP:	2,108 psi	Pad	30	1,313	14,618	14,618	0
5 min:	1,989 psi	0.5 ppg	29.3	2,237	12,058	26,676	6752
10 min:	1,862 psi	1.0 ppg	28.7	2,342	15,599	42,275	14510
15 min:	1,732 psi	2.0 ppg	27.5	2,212	15,516	57,791	30270
		3.0 ppg	26.4	2,158	12,989	70,780	37000
		4.0 ppg	25.4	2,184	8,177	78,957	31620
		5.0 ppg	24.4	2,158	8,246	87,203	34830
		Flush	30.0	2,156	5,614	92,817	Total Sand 154982

Frac Gradient: 1.004 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: 1 MIN- 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: 13:38 hrs. Date: 6/22/2015 Start flow back: WL for stage 2
Total Fluid Pumped: 2210
Total Sand Pumped: 154,982 Total Sand on Formation: 154,982
Total Nitrogen Pumped: N/A

Notes:

Chem Adds Used:
LGC (gel): 345 gals
BC-140 (Crosslinker): 148 gals
GasPerm 1000D: 153 gals
ER-25 (Sandwedge component): 89 gals
GBW-30 (Breaker): 150 lbs
Opti-Flo THE (Breaker): 123 lbs
Sandwedge (Conductivity Enhancer): 264 gals
FR (Friction Reducer): 12 gals
Clayweb (Clay control): 88 gals
Optikleen (FR breaker): 12 gals
Scalechek (scale inhibitor): 150 lb

Note: All Tanks loaded w/ fresh water (Ignacio) All tanks treated w/ 3 lbs BE-3

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

Maximum Allowable Treating Pressure: 4,000 psi (80% of new)
Tank Temp: 63 deg F