

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: 2/2
Frac Valve (size/company): 5K (Big Red) Packer/Frac String: N/A
Sand on location (design): 118,350 (design) Weight ticket: 111,000 (visual) Size/type: 20/40 Brady
Fluid on location : No. of Tanks: 10 Strap: 117" Amount: 2,340 bbls Usable: 2,140 bbls
(2nd Stage Job requires: 1,711 bbls)

Perforations: Depth: 3,361-3,372'; 3,388-3,395; 3,434-3,444'; Total Holes: 112 PBTD: 3,460'
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 - 2,276 psi Rate: 15 bpm to displacement Note:
Broke to 1,715 psi Displaced w/ gals of water, overdisplaced by gals

Stimulation: ATP: 2,046 psi AIR: 30.0 bpm
MTP: 2,161 psi MIR: 30.4 bpm

Start Job: 10:20hrs - initial WH pressure: 32 psi	Stage	Rate (bpm)	STP (psi)	Clean Vol (gals)	Cum Vol (gals)	Sand (lbs)
ISIP: 2,118 psi	Pad	30	2059	11,851	11,851	0
5 min: 1,872 psi	0.5 ppg	29.3	2151	5,203	17,054	2846
10 min: 1,746 psi	1.0 ppg	28.7	2140	10,751	27,805	11980
15 min: 1,652 psi	2.0 ppg	27.5	2022	10,866	38,671	23140
	3.0 ppg	26.4	1951	8,523	47,194	26600
	4.0 ppg	25.4	1953	7,814	55,008	32520
	5.0 ppg	24.4	2246	6,705	61,713	33525
	Flush	30.0	2488	7,033	68,746	Total Sand 130611

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: 21:23 hrs. Date: 6/22/2015 Start flow back: RU WOR to DO plug
Total Fluid Pumped: 1,756 bbls (including acid job)
Total Sand Pumped: 130,611 lbs Total Sand on Formation: 130,611 lbs
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