

STIMULATION TREATMENT REPORT



Date 13-SEP-04 District Brighton F.Receipt 225126100 Customer Prima Oil & Gas
 Lease HARLESS PM C 17-2 Well Name HARLESS PM C 17-2
 Field WATTENBERG Location 17-4N-64W
 County Weld State Colorado Stage No 1 Well API - API 05123142100000

WELL DATA		Well Type:	OLD	Well Class:	GAS	Depth TD/PB:	7500	Formation:	CODELL
Geometry Type	Tubular Type	OD	Weight	ID	Grade	Top	Bottom	Perf Intervals	
TUBULAR	CSG	4.5	11.6	4		0	7500	Top	Bottom
TUBULAR	TBG	2.875	6.4	2.441		0	6598	6978	6990
TUBULAR	TBG	2.375	4.7	1.995		6598	6913	4	.38

Packer Type RETRIEVABLE Packer Depth 6913 FT

TREATMENT DATA				LIQUID PUMPED AND CAPACITIES IN BBLs.	
Fluid Type	Fluid Desc	Pumped Volume(Gals)	Prop. Description	Volume Pumped(Lbs)	
TREATMENT FLUID	Vistar 26	32.844	Sand, White, 20/40	260,200	Tubing Cap. 39.41
TREATMENT FLUID	Vistar 27	24.990			Casing Cap. 1.01
TREATMENT FLUID	Vistar 28	30.744			Annular Cap. 52.7
PAD	Vistar 26	32.130			Open Hole Cap. 0
Total Prop Qty:				260,200	Fluid to Load 33
Previous Treatment NA			Previous Production NA		
Hole Loaded With VISTAR 26			Treat Via: Tubing <input checked="" type="checkbox"/> Casing <input type="checkbox"/> Anul. <input type="checkbox"/> Tubing & Anul. <input type="checkbox"/>		
Ball Sealers: 0 In 0 Stages Type					
Auxiliary Materials GS-1A, GBW-5, GBW-23L, HIGHPERM CRB, INFLO-150, NE 940, CLAYTREAT 3C					
					Pad Volume 765
					Treating Fluid 2109
					Flush 39.9
					Overflush -.5
					Fluid to Recover 2914

PROCEDURE SUMMARY

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLs. Pumped		Slurry Rate BPM	Comments
	STP	Annulus	Stage	Total		
08:25	8900	5100	0	0	0	PRESSURE TEST
09:00	0	0	0	0	0	DISCUSS RECOMENDATION
10:00	5250	204	40	0	4.3	START PAD
10:06	5720	260	81	40	14.1	PAD ON FORMATION
10:14	3981	286	0	121	0	SHUT DOWN ISDP 5 MINUTE@3869 PSI
10:19	5560	300	644	121	14.1	RESUME
11:06	5409	214	40	765	14	START 1 PSA
11:09	5265	311	207	805	14	1 PSA ON FORMATION
11:24	5231	264	40	1012	14	START 2 PSA
11:27	5095	189	347	1052	14	2 PSA ON FORMATION
11:52	5114	186	40	1399	14	START 3 PSA
11:55	5020	252	932	1439	14	3 PSA ON FORMATION
01:01	5233	256	40	2371	14	START 4 PSA
01:04	5115	291	746	2411	14	4 PSA ON FORMATION
01:58	5288	270	39.9	3157	14	START FLUSH
02:01	4063	177	0	3196	0	SHUT DOWN ISDP
02:06	3880	0	0	3196	0	5 MINUTE SIP

Treating Pressure		Injection Rates		Shut In Pressures		Customer Rep.	Mr. Randy Williams
Minimum	5008	Treating Fluid	14.03	ISDP	4063	BJ Rep.	KEVIN A LOYD
Maximum	6000	Flush	14	5 Min.	3880	Job Number	225126100
Average	5228	Average	14.03	10 Min.	0	Rec. ID No.	
Operators Max. Pressure 8000				15 Min.	0	Distribution	
				Final	3880 In 5 Min.		
				Flush Dens.	lb./gal. 8.34		