



**MAR OIL & GAS CORP
PO BOX 5155
SANTA FE, TX 87502**

Eumont Hardy #104

Lea County, New Mexico

Sales Order: 3222390

Final Post Job Report

For: Duane C Winkler

Date: 11-Aug-04

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HALLIBURTON

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1.0 EXECUTIVE SUMMARY

Mr. Duane C Winkler
MAR OIL & GAS CORP
PO BOX 5155
SANTA FE, TX 87502

12 August 2004
Eumont Hardy #104
Delta Frac 140-R(16)
HMA2390A5

Dear Mr. Winkler,

Halliburton Energy Services appreciates the opportunity to perform the Delta Frac 140-R(16) stimulation treatment on the Eumont Hardy #104 . A prejob safety meeting was held at 10:45 AM where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined. The maximum pressure for the job was set at 4,800 psi.

The proposed treatment for the Yates, Seven Rivers, Queen formation consisted of 76,000 gal of 2% kcl Delta Frac 140-R(16) carrying 1,080 lb of Premium Brown 16/30 and 700 lb of Premium CRC 16/30 at an average treating rate of 60 bpm. The treatment actually pumped consisted of 0 gal of Delta Frac 140-R(16) carrying 1,082 lb of Premium Brown 16/30 and 718 lb of Premium CRC 16/30 at an average treating rate and pressure of 63 bpm and 2,224 psi. The total liquid load to recover is 78,498 gal.

HES is strongly committed to quality control on location. Before and after each job all chemicals, proppants, and fluid volumes are measured to assure the highest level of quality control. Tank water analysis, crosslink time, and break tests are performed before each job in order to optimize the performance of the treatment fluids.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton Energy Services again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

James White
Associate Technical Professional
(432) 238-1431

2.0 WELL INFORMATION**2.1 Customer Information**

Customer MAR OIL & GAS CORP
Sales Order 3222390
Well Name Eumont Hardy
Stage 1
Well Number #104
Start Time 11-Aug-04 09:05:15
County Lea
State New Mexico
UWI/API AFEY0VOGIEITIURMAAA
Country United States of America
H2S Present Unknown
CO2 Present No
Customer Representative Dwayne Winkler
Halliburton Representative Willie Mims

2.2 Pipe Information

Equipment Name	Top MD ft	Bottom MD ft	OD in	ID in	Grade	Weight lbpf
Casing	0.0	3893.0	5.500	4.950	J-55	15.50

2.3 Perforation Intervals

Top MD ft	Bottom MD ft	Number of Shots	Perf Density spf	Perf Formation
2704.0	3806.0	2205	2.0	Yates,SR,Queen

2.4 Initial Conditions

Surface Fluid Temp	78.0	degF
Expected BH Treating Temperature	90.0	degF
Expected BH Treating Pressure	5000	psig

3.0 PUMPING SCHEDULE

3.1 Designed Pumping Schedule

Stage Number	Description	Fluid System	Clean Volume gal	Slurry Volume gal	Prop Conc Start lb/gal	Prop Conc End lb/gal	Prop Type	Prop Mass 100-lbm	Rate Stage Start bpm	Rate Stage End bpm	Stage Time min
1	1000 gal Load Well	WATER FRAC G - R (16)	1000	1000					60.0	60.0	0.40
2	30000 gal pad	Delta Frac 140 - R (16)	30000	30000	0.00	0.00			60.0	60.0	11.90
3	6000 gal 1 ppg	Delta Frac 140 - R (16)	6000	6274	1.00	1.00	Premium Brown-16/30	60.00	60.0	60.0	2.49
4	6000 gal 2 ppg	Delta Frac 140 - R (16)	6000	6547	2.00	2.00	Premium Brown-16/30	120.00	60.0	60.0	2.60
5	6000 gal 3 ppg	Delta Frac 140 - R (16)	6000	6821	3.00	3.00	Premium Brown-16/30	180.00	60.0	60.0	2.71
6	8000 gal 4 ppg	Delta Frac 140 - R (16)	8000	9459	4.00	4.00	Premium Brown-16/30	320.00	60.0	60.0	3.75
7	8000 gal 5 ppg	Delta Frac 140 - R (16)	8000	9824	5.00	5.00	Premium Brown-16/30	400.00	60.0	60.0	3.90
8	2000 gal 5 ppg	Delta Frac 140 - R (16)	2000	2463	5.00	5.00	CRC-16/30	100.00	60.0	60.0	0.98
9	10000 gal 6 ppg	Delta Frac 140 - R (16)	10000	12778	6.00	6.00	CRC-16/30	600.00	60.0	60.0	5.07
10	2619 gal Flush	Water Frac G - R (16)	2619	2619	0.00	0.00			60.0	60.0	1.04
Total			79619	87785				1780			

4.0 ACTUAL STAGE SUMMARY

4.1 Stage Summary

Stage Number	Start Time	Max Treating Pressure psig	Avg Treating Pressure psig	Max Slurry Rate bpm	Avg Slurry Rate bpm	Avg Clean Rate bpm	Slurry Volume gal	Clean Volume gal	Proppant Mass 100-lbm	Avg HHP hp
1	10:56:53	1526	849	36.3	15.2	15.2	693	693	0.00	315
2	10:58:12	2585	2301	68.9	55.9	55.9	29698	29698	0.00	3152
3	11:10:51	2509	2405	65.1	62.4	59.5	6655	6341	68.84	3680
4	11:13:23	2318	2270	65.3	65.2	59.4	6587	5994	129.84	3628
5	11:15:48	2262	2218	65.5	65.5	57.5	6799	5968	182.34	3560
6	11:18:16	2206	2156	65.5	65.5	55.3	9419	7943	323.57	3462
7	11:21:41	2157	2110	65.6	65.6	53.3	10258	8337	421.27	3391
8	11:25:25	2116	2102	65.7	65.6	53.1	2396	1938	98.97	3379
9	11:26:17	2194	2082	67.5	65.8	52.9	17616	14180	741.99	3355
10	11:32:40	2363	2234	64.0	58.2	58.2	2696	2694	0.38	3189
Total							92816	78498	1967.20	

5.0 PERFORMANCE HIGHLIGHTS**5.1 Job Summary**

Start Time	10:56:53	
End Time	11:55:58	
Pump Time	36.65	min
Max Treating Pressure	2504	psig
Avg Treating Pressure	2224	psig
Clean Volume	78498	gal
Max Slurry Rate	67.84	bpm
Avg Slurry Rate	63.00	bpm
Max Proppant Concentration	6.12	lb/gal
Proppant Mass	1799.4	100-lbm
BH Max Pressure	3509	psig
BH Avg Pressure	3248	psig

5.2 Job Event Log

Time	Description	Comment	Treating Pr psig	Calc BH Pr psig	Slurry Rate bpm	Job Clean Vol gal	Job Prop Mass 100-lbm
04:30:00	Safety Meeting - Service Center or other Site						
04:45:00	Depart from Service Center or Other Site						
07:05:00	Arrive at Location from Other Job or Site						
07:20:00	Safety Meeting - Assessment of Location						
07:30:00	Safety Meeting - Pre Rig-Up						
07:45:00	Rig-Up Equipment						
09:45:00	Rig-Up Completed						
10:11:20	Start Job	Starting Job					
10:45:00	Safety Meeting - Pre Job						
10:56:53	Next Stage	1000 gal Load Well	-18	1239	35.2	5264	0.00
10:58:13	Next Stage	30000 gal pad	1511	2630	16.5	729	0.00
11:10:51	Next Stage	6000 gal 1 ppg	2388	3292	61.9	30478	0.00
11:13:23	Next Stage	6000 gal 2 ppg	2317	3305	65.1	36774	69.65
11:15:48	Next Stage	6000 gal 3 ppg	2259	3309	65.3	42768	200.49
11:18:16	Next Stage	8000 gal 4 ppg	2195	3305	65.5	48734	382.49
11:21:41	Next Stage	8000 gal 5 ppg	2139	3300	65.5	56677	706.23
11:25:24	Next Stage	2000 gal 5 ppg	2101	3313	65.6	65012	1127.79
11:26:18	Next Stage	10000 gal 6 ppg	2105	3311	65.7	66986	1228.78
11:32:39	Next Stage	2619 gal Flush	2194	3221	63.9	78498	1799.4
11:33:47	ISIP	1883 psi					
11:38:47	Shut-In Pressure @ 5 Minutes	1769 psi					
11:42:00	Safety Meeting - Pre Rig-Down						
11:42:47	Shut-In Pressure @ 10 Minutes	1718 psi					
11:42:47	Safety Meeting - Pre Rig-Down						
11:47:47	Shut-In Pressure @ 15 Minutes	1678 psi					
11:48:15	Other	Total Load- 78498 gals/1869 bbls	1681	2858	0.0	78498	1799.4
11:48:51	Other	Total Sand- 1799.4 sks	1678	2855	0.0	78498	1799.4

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Eumont Hardy #104 Stage 1
File Name: HMA2390A5

Time	Description	Comment	Treating Pr psig	Calc BH Pr psig	Slurry Rate bpm	Job Clean Vol gal	Job Prop Mass 100-lbm
11:53:07	Other	Pressure: Max-2504 psi , Avg-2224 psi	1665	2842	0.0	78498	1799.4
11:53:26	Other	Rate: Max-67.84 bpm , avg-63 bpm	1664	2841	0.0	78498	1799.4
11:55:58	End Job	Ending Job	1659	2836	0.0	78498	1799.4
13:15:00	Safety Meeting - Departing Location						
13:25:00	Depart Location for Service Center or Other Site						
15:15:00	Crew Return Yard						

6.0 ATTACHMENTS

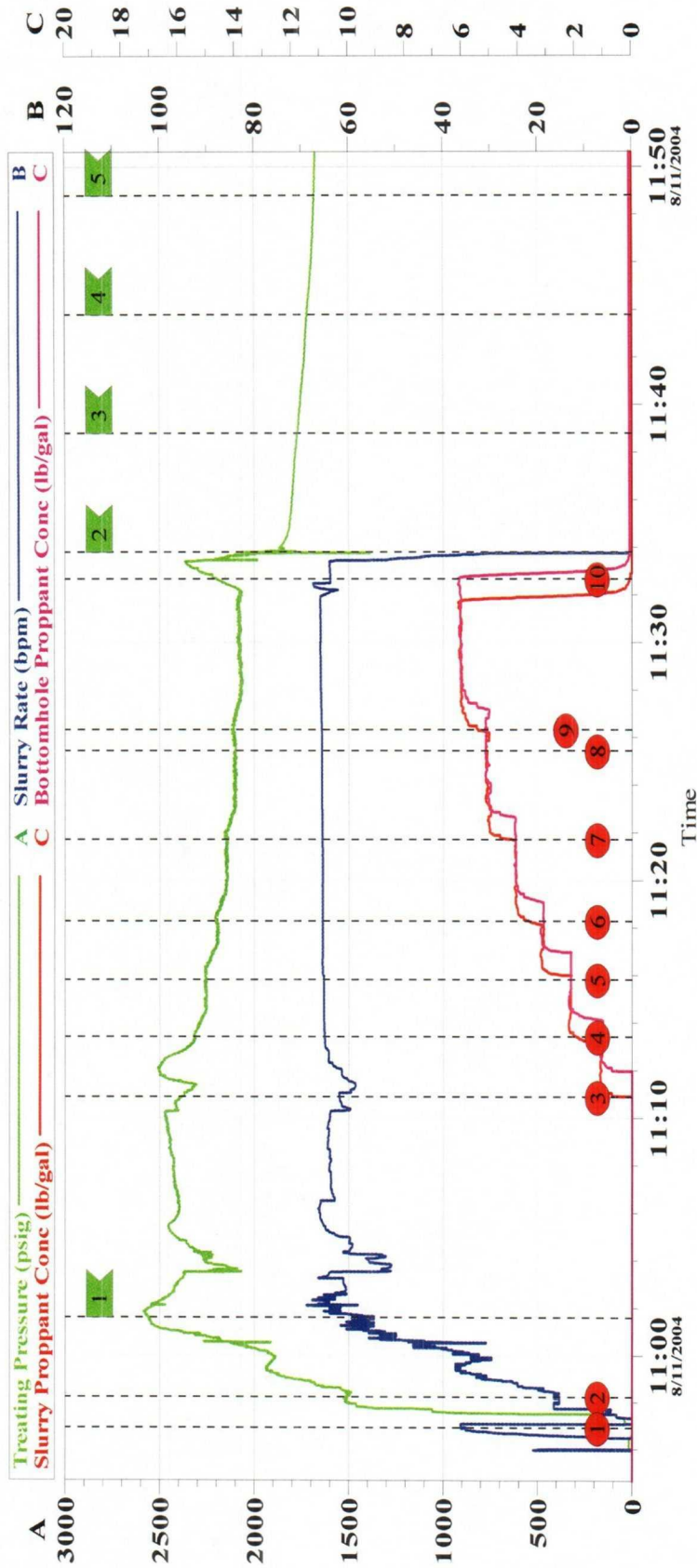
6.1 Job Summary - Test Lines



TG Version G2.8.0
11-Aug-04 10:49

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6.2 Job Summary - Main Treatment

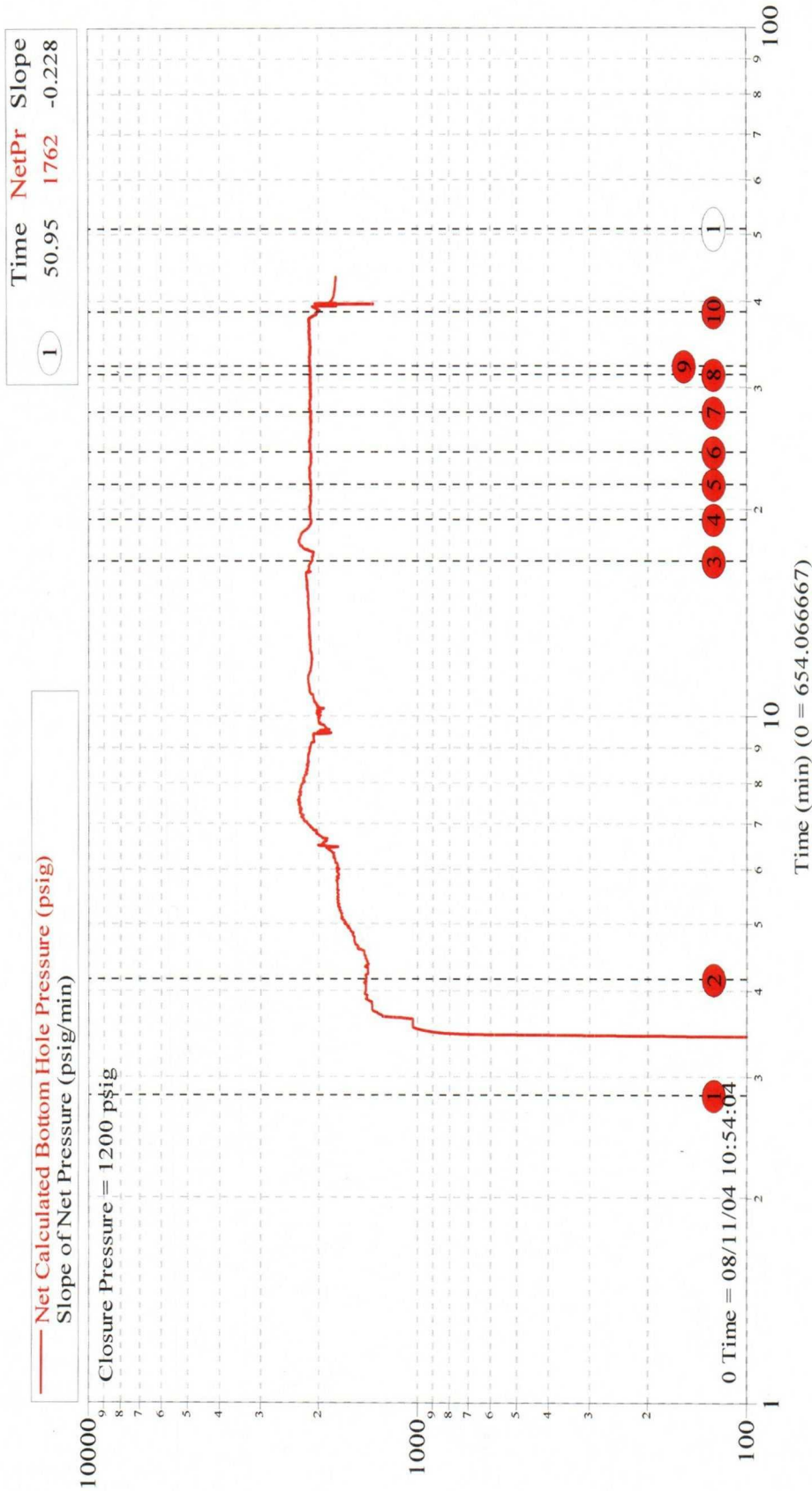


Local Event Log											
Intersection		TP	Intersection	TP	Intersection	TP					
1	Breakdown	11:01:35	2	2559	ISIP	11:33:47	1883	3	5 min	11:38:47	1769
4	10 min	11:43:47	5	1718	15 min	11:48:47	1678				

TG Version G2.8.0
11-Aug-04 11:51

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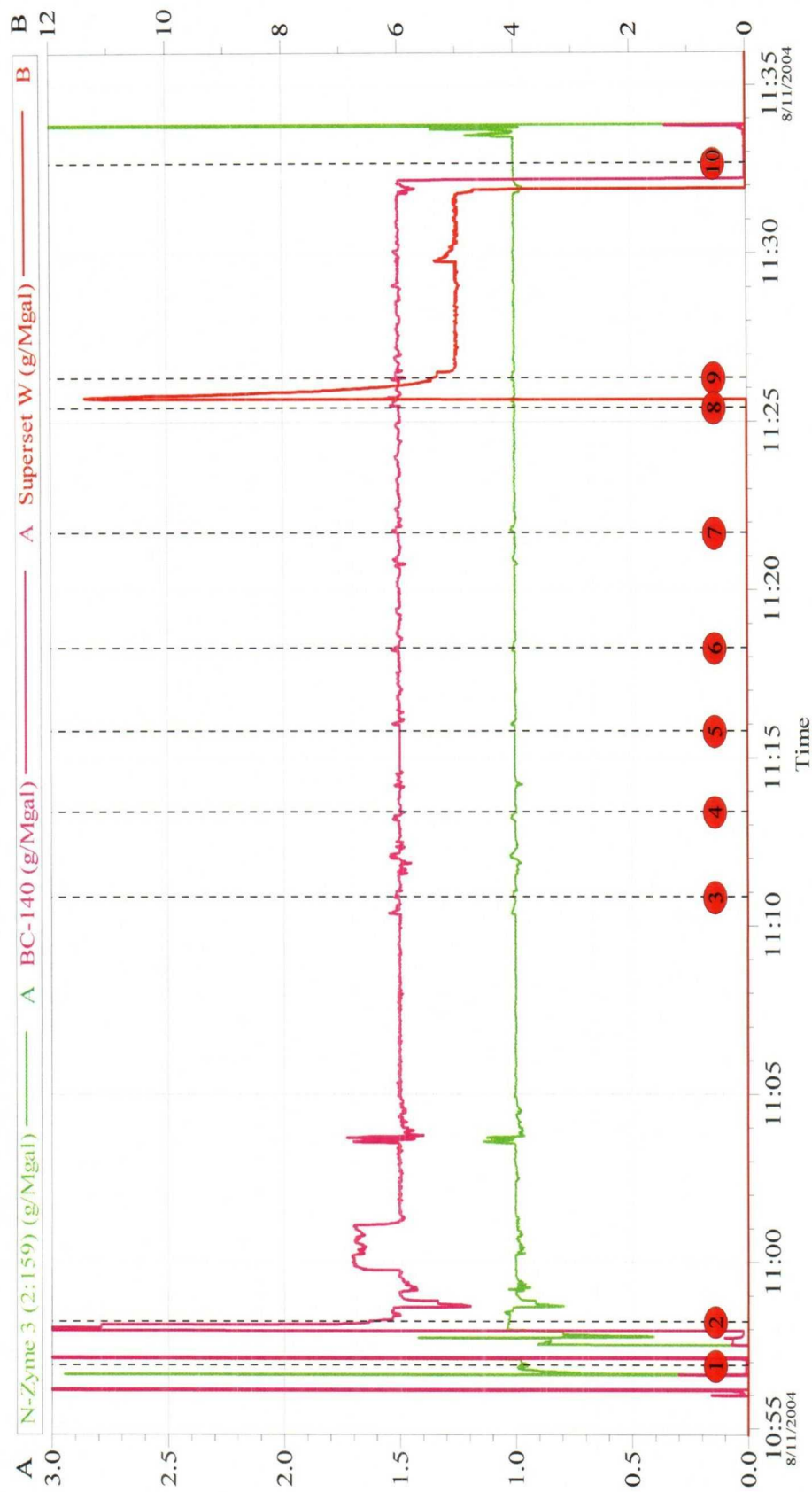
6.3 Net Pressure Plot



Net Pressure Plot v1.1.2
 11-Aug-04 11:37

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6.4 Chemical Additives - Slurry



TG Version G3.2.2
11-Aug-04 11:37

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7.0 QUALITY ASSURANCE

7.1 Additive Volume

Description	Additive	Quantity Unit	Initial Quantity	Final Quantity	Used Quantity	Proposed Quantity	Conc.	Units
Gelling Agents	LGC-35	gal	700.00	264.00	436	439	5	gal/M
Biocides	BE-6	lb	15.00	0.00	15	15	0.15	lb/M
Breaking Agents	N Zyme 3	qt	6.00	2.00	4	4	1	gal/M
Buffering Agents	BA-20	gal	333.00	333.00	0	0	0	gal/M
Buffering Agents	BA-40L	gal	363.00	363.00	0	0	0	gal/M
Clay Control	KCL	lb	18000.00	3000.00	15000	15000	167	lb/M
Cross Linkers	BC-140	gal	329.00	214.00	115	114	1.5	gal/M
Proppant Stabilizers	SuperSet W	gal	337.00	273.00	64	60	5	gal/M
Surfactants	LOSURF-300	gal	326.00	240.00	86	86	1	gal/M

Comments: HES is strongly committed to quality control on location. Before and after each job all chemicals volumes are measured to assure the highest level of quality control.

7.2 Fluid Summary

Description	Unit	Initial	Final	Used	Proposed
R 16	gal	85680	6972	78708	79619
Total			78708	78708	79619

7.3 Fluid Testing

Sample Source	Base Fluid Temp (deg F)	Base Fluid pH	Base Gel Viscosity (cp)	Base Gel pH	Chlorides (mpl)	Specific Gravity	Acid Percentage (%)	API Gravity (deg API)
Tank 1	78.0	741.00	16.0	7.8	<500	1.000		
Tank 2	78.0	7.45	17.0	7.8	<500	1.000		
Tank 3	78.0	7.32	16.0	7.8	<500	1.000		
Tank 4	78.0	7.45	16.0	7.8	<500	1.000		

Tank 5	78.0	7.35	17.0	7.8	<500	1,000	
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Comments: HES is strongly committed to quality control on location. Source water analysis are performed before each job in order to optimize the performance of the treatment fluids. Because gel quality is extremely important to the success of any fracture treatment HES has an individual dedicated to fluid quality control throughout the job. This testing includes pilot tests before the job and monitoring pH, viscosity, temperature, and crosslink time of the fluids during the fracture treatment.

7.4 Crosslink Test

Test No:	Gel pH	Gel Temp. (deg F)	X Linker 1	X Linker 2	Buffer 1	Buffer 2	X Link pH	X Link Time (mm:ss)
1	7.74	79	BC-140				8.50	7SS

7.5 Break Test

Test No:	Test Temp. (deg F)	Breaker 1	Breaker 2	Breaker 3	Options	Break Time (HH:MM)
1	90	N Zyme 3				+2:30
2	90	1				2:30
3	90	2				2:00

Comments: HES is strongly committed to quality control on location. Crosslink test (if applicable), and break tests are performed before each job in order to optimize the performance of the treatment fluids.

7.6 Proppant Summary

Description	Unit	Initial	Final	Used	Proposed
SAND-PREMIUM BROWN-16/30	lb	1082	0	1082	1080
SAND-CRC-16/30	lb	718	0	718	700
		Total		1799	1780

7.7 Sieve Analysis

Test	1	
Source		
Proppant	SAND-PREMIUM BROWN-16/30	
Percent Retained In Primary Sieve		96.31
Sample	PASSES	API Specifications

Sieve Size	Weight (gm)	Percent
12	0.0	0.0
16	2.9	2.9
20	72.8	72.6
25	19.6	19.5
30	4.2	4.2
40	0.8	0.8
Pan	0.0	0.0
Total	100.3	

Test	2	
Source		
Proppant	SAND-CRC PREMIUM-16/30	
Percent Retained In Primary Sieve		96.19
Sample	PASSES	API Specifications

Sieve Size	Weight (gm)	Percent
12	0.0	0.0
16	2.0	2.0
20	71.3	71.4
25	21.6	21.6
30	3.2	3.2
40	1.7	1.7
Pan	0.1	0.1
Total	99.9	

Legal Notice

MAR OIL & GAS CORP, Post Office Box 5155, Santa Fe, NM 87502, has filed an application with the New Mexico Oil Conservation Division seeking authorization to inject produced salt water in the Eumont Hardy Unit No 36 located 1980 FNL, 660 FEL, Section 5, Township 21S, Range 37E and Eumont Hardy Unit No 26 located 660 FNL, 1980 FWL, Section 5, Township 21S, Range 37E, NMPM, Lea County, New Mexico. The source of the injected water will be from wells within this Unit, which produce from the Yates, Seven Rivers, and Queen formation at a disposal depth of 3521 feet to 3780 feet. A maximum surface injection pressure of 2000 psig and a maximum injection rate of 500 bwpd. Any interested party with questions or comments may contact Duane C Winkler at MAR Oil & Gas Corp, Post Office Box 5155, Santa Fe, NM 87502 or call (505) 989-1977. Objections to this application or request for hearing must be filed with the Oil Conservation Division, 1220 south Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date publication of this notice. Published in the Hobbs News Sun, Hobbs, New Mexico.