

12/14/12	SUSPENSE	ENGINEER	12/14/12	TYPE	APP NO.
		WVJ		429	1234939330

ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



### ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

#### Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☒ IPI ☐ EOR ☐ PPR

- [D] Other: Specify \_\_\_\_\_

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or X Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners  
 [B] ☐ Offset Operators, Leaseholders or Surface Owner  
 [C] ☐ Application is One Which Requires Published Legal Notice  
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F] ☐ Waivers are Attached

#### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ben Stone  
 Print or Type Name

Signature

Agent for Cameron O&G

Title  
 ben@sosconsulting.us  
 e-mail Address

12/14/12

Date

(181109)  
 Cameron Oil & Gas INC  
 SWD-1342-A 9/21/12  
 30-025-28425  
 CULF STATE #2  
 N/2/235/3TE  
 GURITA 5/3-5394  
 RL7ABO-6499-7049  
 1026PSC  
 1358PSC

**Jones, William V., EMNRD**

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**From:** Ben Stone <ben@sosconsulting.us>  
**Sent:** Friday, December 14, 2012 10:11 AM  
**To:** Jones, William V., EMNRD  
**Cc:** dsweeney@cameronoil.com  
**Subject:** IPI Request - Cameron O&G - Gulf St. No.2 SWD  
**Attachments:** GulfSt2\_StepRateAppPkg.pdf

Will,

Attached is Cameron Oil and Gas Company's request for an injection pressure increase on it's Gulf State Well No.2 SWD.

This well was recently permitted by SWD-1342<sup>A</sup> which allowed for a maximum surface injection pressure of 817<sup>1026</sup> psi.

The included step rate test, conducted by Cardinal Surveys Co. on 12/07/12, clearly indicates a [surface] frac pressure of 1408 psi.

Reducing that by 50 psi would allow for an surface injection pressure of 1358 psi. OK

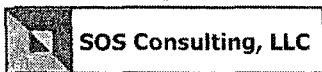
Cameron hereby requests that the pressure limit for the well be increased to that amount.

Hardcopies of this request package are being sent to your attention via U.S. mail.

Thank you for your attention to this matter.

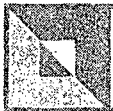
Best regards,

Ben



Ph: 903-488-9850 Fx: 866-400-7628  
P.O. Box 300 - Como, TX - 75431

**CONFIDENTIALITY NOTICE:** This message is confidential and may be privileged. If you believe that this email has been sent to you in error, please reply to the sender that you received the message in error; then please delete this email. Thank you.



## SOS Consulting, LLC

December 14, 2012

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Attn: Ms. Jami Bailey, Director

*Re: Request of Cameron Oil and Gas Company for an injection pressure increase  
in its Gulf State No.2 well located in Section 2, Township 23 South, Range 37  
East, NMPM, Lea County, New Mexico.*

Dear Ms. Bailey,

Please find enclosed a recent step rate test conducted on the subject well. The test was conducted by Cardinal Surveys Company on December 7, 2012 and includes all original data in support of this request.

Cameron Oil and Gas seeks to optimize efficiency, both economically and operationally, of its operations. Approval of this request will allow for an injection pressure of 1358 psi which, is 50 psi below the fracture pressure of 1408 psi, indicated clearly by the test.

I respectfully request that the approval of this injection pressure increase proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

Ben Stone, Partner  
SOS Consulting, LLC  
Agent for Cameron Oil and Gas Company

Cc: Application attachment and file

## Step Rate Test



### Cardinal Surveys Company

December 7, 2012

Cameron Oil & Gas  
Gulfstate # 2 SWD

Lea County, New Mexico  
File # 21062  
Tool # CSC101

Fracture @ 2830 BPD  
3947.4 BHPSIA,  
1408 Surf PSIA

Downhole PSI Tool Ser. No.  
Surface PSI Gauge Ser. No.  
Tool @ 6000'

	Start Time	End Time	Rate BPD	Comments
1	8:54 AM	9:15 AM		0 On Bottom
2	9:15 AM	9:45 AM	100	
3	9:45 AM	10:15 AM	200	
4	10:15 AM	10:45 AM	300	
5	10:45 AM	11:15 AM	500	
6	11:15 AM	11:45 AM	700	
7	11:45 AM	12:15 PM	900	
8	12:15 PM	12:45 PM	1400	
9	12:45 PM	1:15 PM	1900	
10	1:15 PM	1:45 PM	2400	
11	1:45 PM	2:15 PM	3400	
12	2:15 PM	2:45 PM	4400	
13	2:45 PM	3:15 PM	5400	
14	3:15 PM	3:45 PM		0 Fall Off

# Step Rate Test

Cameron Oil & Gas  
Gulfstate # 2 SWD

Lea County , New Mexico



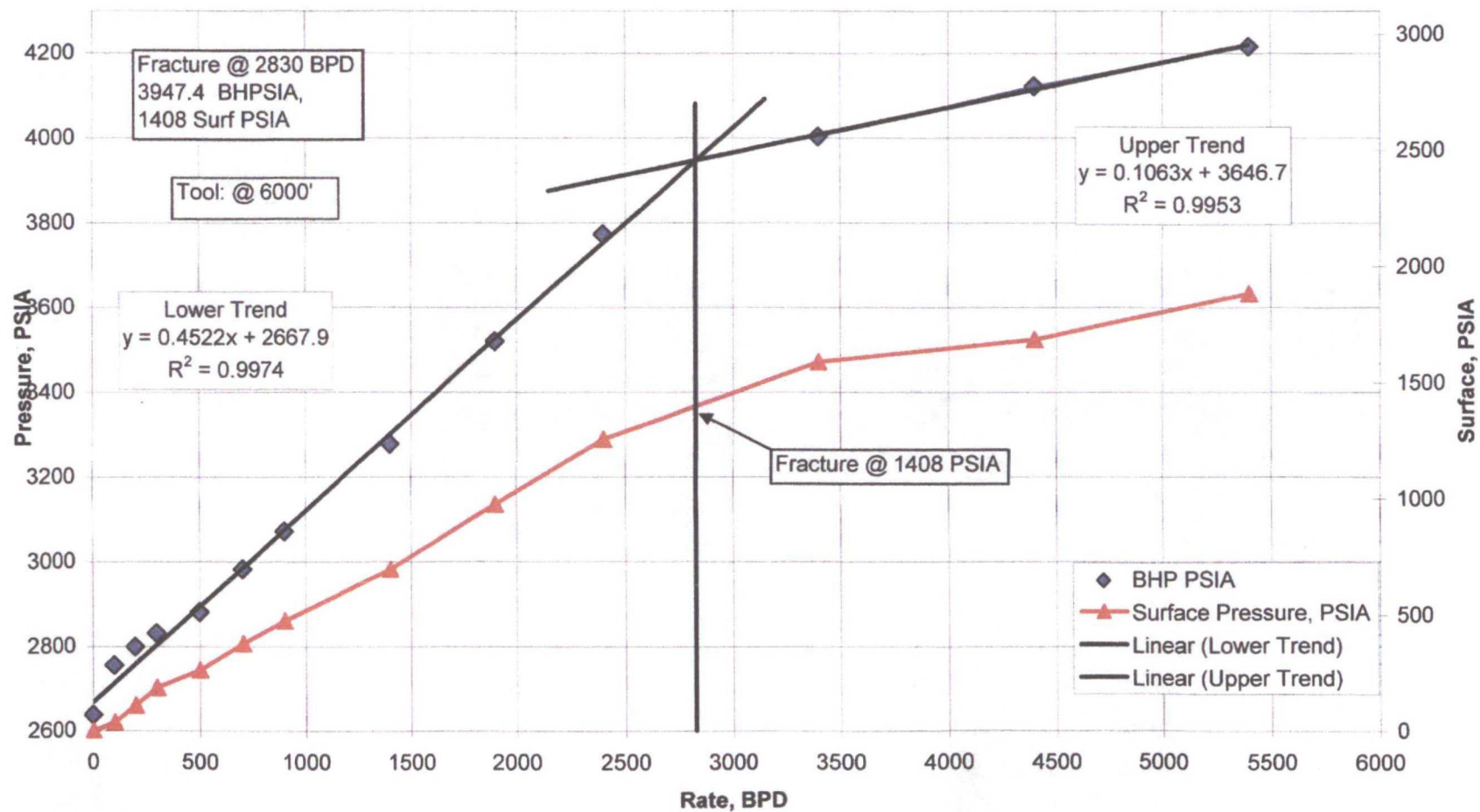
	S Time	E Time	D Time	Last Rate	Step	B. H. Pressure	Surf	Cum	Delta	Avg.		Lower	Upper
			Min	BPD	BPD	PSIA	PSIA	BBL	BBL	BPD		Trend	Trend
1	8:54 AM	9:15 AM	21	0	0	2638.2	0	0	0.00	0			
2	9:15 AM	9:45 AM	30	100	100	2756.2	37.7	5	5.00	240			
3	9:45 AM	10:15 AM	30	200	100	2800	111.3	11	6.00	288			
4	10:15 AM	10:45 AM	30	300	100	2831.6	187.1	18	7.00	336		2831.6	
5	10:45 AM	11:15 AM	30	500	200	2881.4	264.5	29	11.00	192		2881.4	
6	11:15 AM	11:45 AM	30	700	200	2982.2	378.1	44	15.00	192		2982.2	
7	11:45 AM	12:15 PM	30	900	200	3072	475.9	62	18.00	864		3072	
8	12:15 PM	12:45 PM	30	1400	500	3277.9	697.2	90	28.00	1344		3277.9	
9	12:45 PM	1:15 PM	30	1900	500	3520.3	976.4	129	39.00	1872		3520.3	
10	1:15 PM	1:45 PM	30	2400	500	3773	1255.9	181	52.00	2496		3773	
11	1:45 PM	2:15 PM	30	3400	1000	4003.7	1590.4	257	76.00	3648			4003.7
12	2:15 PM	2:45 PM	30	4400	1000	4122.6	1685.1	345	88.00	4224			4122.6
13	2:45 PM	3:15 PM	30	5400	1000	4216.2	1882.8	459	114.00	5472			4216.2
14	3:15 PM	3:45 PM	30	0	-5400	4045.6	1280.3	459	0.00	0			

0.4522 2667.9  
0.1063 3646.7

int point: 2829.7196 BPD  
3947.4992 Psia



Cameron Oil & Gas Gulfstate # 2 SWD  
Step Rate Test 12-07-2012





Cameron Oil & Gas Gulfstate # 2 SWD  
Step Rate Test 12-07-2012

