	71513 SUSPEN	SE ENGINEER	07/16/2013	TYPE LPI	APP NO. AXK 1319737286
DATE	NIC J SUSPEN	SE ENGINEER	LOGOED IN	448	APP NO. DAVE 151 75 CC86
				- 1	E STATE
		NEW MEXICO OIL - Engin	eering Bureau -	DIVISION	
		5	cis Drive, Santa Fe, NM	87505	1912 . 944
		ADMINISTRATI	VE APPLICAT	ION CHEC	(LIST
-	THIS CHECKLIST IS M		RATIVE APPLICATIONS FOR ROCESSING AT THE DIVISIO		SION RULES AND REGULATIONS
Appli	ication Acronym	S:			
	-	ndard Location] [NSP-N nhole Commingling] [(on-Standard Proration CTB-Lease Commingli		aneous Dedication] ease Commingling]
	-	ol Commingling] [OLS	- Off-Lease Storage]	[OLM-Off-Lease	Measurement]
		[WFX-Waterflood Expan: [SWD-Salt Water D	sion] [PMX-Pressure isposal] [IPI-Injectio		
	[EOR-Qua	lified Enhanced Oil Reco		[PPR-Positive Pro	duction Response]
[1]	TYPE OF AF	PLICATION - Check T	hose Which Apply for	[A] 20-0(S	-21748
	[A]	Location - Spacing Uni	t - Simultaneous Dedic	ation	-21748 no SUTO LL (A Fed 10
	Check	One Only for [B] or [C]		Getom	A Ed 10
	[B]	Commingling - Storage	- Measurement	Green	M LEE LE
		DHC CTB	PLC PC		OLM
	[C]	Injection - Disposal - P	ressure Increase - Enha		
	[D]	Other: Specify	IPI-4	23	
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Working, Royalty	Check Those Which A or Overriding Royalty		ot Apply
	[B]	Offset Operators,	Leaseholders or Surface	e Owner	
	[C]	Application is One	e Which Requires Publi	shed Legal Notice	
	[D]	Notification and/o U.S. Bureau of Land Manage	r Concurrent Approval ement - Commissioner of Public Lar	by BLM or SLO	
	[E]	For all of the abov	e, 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.

James B Campanella Print or Type Name

Signature Title

Member/Manager _____

7-11-2013 Date

jbc@judahoil.com e-mail Address Date: 7-11-2013

To: William V. Jones OCD

Reference: Step-Rate-Test on Green "A" Fed No 10 (F-29-T17S-R28E) API # 30-015-21748, Date June 19, 2012

Dear Sir,

Please find the certified report on the subject Step-Rate-Test report and prepared by Van S. Welch II, PE State of Texas # 66291. As presented in this report, the subject well did not fracture up to a surface pressure of 2850 psi and 5483 psi bottom-hole pressure (@ 9450' KB – mid perfs). Based on these results, Geronimo SWD, LLC, as operator of this well, respectfully requests the limiting surface pressure be increased from 1844 psi to 2800 psi (50 psi below the highest pressure recorded at the surface).

For information, a previous SRT was run on this well August 14, 2012 when it had 2-7/8 inch. coated tubing. From that SRT the BLM/OCD granted increasing the limiting pressure from 1844 psi to 2500 psi. Ultimately it was decided to keep the 1844 psi limit and run 3-1/2" Du-O-Line tubing and the well has been running at approximately 1700 psi since changing out the tubing. However, due to increased public demand in the is area for SWD, it was decide to run this new SRT to see if a higher injection pressure limit could be achieved without fracturing the formation.

The BLM is being advised simultaneously of this pressure increase request.

Geronimo SWD, LLC

James B. Campanella Member/Manager

= 6.303

P.O. Box 568 611 W Mahone, Suite D Artesia, NM 88211-0568 Office: (575) 746-1280 Fax: (575) 746-1290 E-Mail: judahoil@yahoo.com

GERONIMO SWD, LLC

Review of Step-Rate Test Dated June 19, 2013

Green "A" Federal No. 10

API # 30-015-21748

F-29-T17S-R28E

Date : June 2013

DISCLAIMER - THIS REVIEW IS BASED ON THE INFORMATION COLLECTED ON LOCATION BY VAN WELCH, PE, OF VSW2 E&P, LLC (VSW2), DURING A STEP-RATE-TEST ON THE GREEN "A" FED NO. 10. THE INFORMATION COLLECTED WAS FROM PACESETTER SERVICES (SURFACE RATES AND PRESSURES) AND PRO WELL TESTING \$ WIRELINE, INC (BHP DATA). ALL DATA WAS ACCEPTED AS TRUE AND VALID. VSW2 DOES NOT GUARANTEE THE RESULTS OF ANY ACTIONS TAKEN BASED ON THIS REVIEW NOR DOES VSW2 ACCEPT ANY RESPONSIBILITY FOR ANY DECISIONS OR ACTIONS TAKEN BY GERONIMO SWD, LLC. ANY PARTNERS TO GERONIMO SWD, LLC, ANY ASSOCIATES OF GERONIMO SWD, LLC AND/OR OTHER THIRD PARTIES OR AGENCIES (PRIVATE OR GOVERNMENTAL) WITH WHOM GERONIMO SWD, LLC MAY SHARE THIS REVIEW.

Prepared by:

Van S. Welch II, PE # 66291 State of Texas

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Table 1: SRT Pressure Data

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Preface

This is a review prepared by VSW2 E&P, LLC. (VSW2) of Duncan, Oklahoma. Mr. Van Welch, **Professional Engineer (No. 66291 State of Texas)** has performed the "Technical Review" of the Step-Rate-Test (SRT) conducted on the Green "A" Fed No. 10, Eddy Co. New Mexico on June 19, 2013. Mr. Welch was physically present to collect all necessary data and assure that the Step-Rate-Test was properly performed in accordance with industry standards. The SRT program and pressure data collection met industry standards.

Disclaimer – VSW2 does not accept any responsibility for any decisions or actions taken by Geronimo SWD, LLC (its Partners, any associates of Geronimo SWD, LLC, third-parties or governmental agencies) relative to this "Technical Review". Due to the many uncertainties relative to individual wells and reservoirs, VSW2 cannot make any guarantees as to the best practices for future reservoir performance on the Green "A" 10 as presented in this document.

Summary Result

As discussed in the review, the surface and bottom-hole pressure (BHP) data establish that the well has not fractured up to a surface pressure of 2850 psi or 5483 psi bottom-hole @9450' KB (9431' GL). During the test, the well-head started vibrating more than usual during the 4 BPM injection period and for safety reasons, that injection period was reduced from 30 minutes to 20 minutes. As a result, the ending pressure for this injection rate period is low as pointed out on the step-rate =-pressure graphs. The reduced injection period did not effect the interpretation showing that the formation did not fracture during the test.

Discussion

Mr., Welch collected surface and BHP data from a SRT conducted on June 19, 2013. The surface data set on the SRT are included as **Appendix I** which is a copy of Rising Star Services surface pressure and rates. **Appendix II** is a copy of Pro Well Testing & Wireline, Inc BHP report which is only presented in graphic form. VSW2 included an extraction of the critical ending BHP for each rate increase from Pro Well's extended file which records pressure every 6 seconds. If the BLM or OCD desire this extended pressure file, please advice.

The procedures used in the SRT were as follows:

- 1. Run Bottom-Hole Gauge to 9431 ft GL; 9450 ft KB (Perfs 9220-9600 ft KB)
- 2. Start Rate 2.0 BPM constant for approximately 30 Minutes and Record Pressures -
- 3. Increase Rate to 4.0 BPM for approximately 30 Minutes and Record Pressures 🧹
- 4. Increase Rate to 6.0 BPM for approximately 30 Minutes and Record Pressures
- 5. Increase Rate to 8.0 BPM for approximately 30 Minutes and Record Pressures
- 6. Increase Rate to 9.0 BPM for approximately 30 Minutes and Record Pressures 2
- 7. SI Record Surface ISIP and 5 Minute SIP's

Figure 1 illustrates the wellbore at the time of the SRT.

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VSW2 E&P, LLC.

GERONIMO SWD, LLC GREEN "A" FED NO 10 API # 30-015-21748 1980' FSL - 1980 FWL F-29-T17S-R28E NMPM, EDDY CO, NM

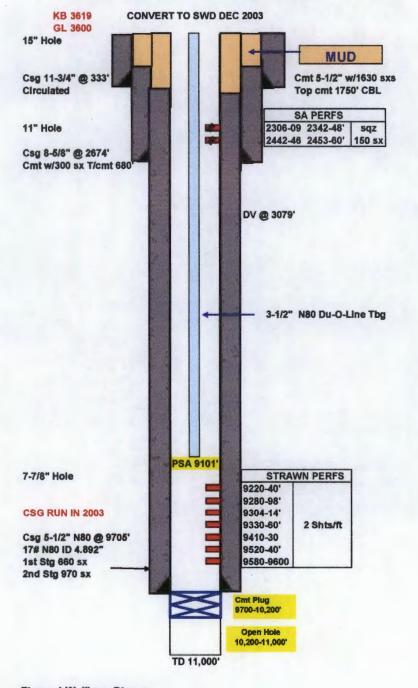


Figure 1 Wellbore Diagram

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This review included graphing the data collected by Mr. Welch in a standard SRT format of plotting the surface and BHP at the end of each 30 minute (approx) injection period as a function of injection rate. Data used for these plots are shown in **Table 1**. Note that there was a slight discrepancy between the surface and down-hole pressure gauge times, the times shown are from the BHP gauge.

GREEN "A" FED No 10				
Ending Time	Rate BPM	Surface Final PSI	BHP Final PSI	
9:19	0	355	4848	
9:47	2	506	4895	
10:07	4.4	950	4981	
10:36	6.2	1575	5144	
11:05	8.3	2275	5326	
11:34	9.3	2850	5483	

The surface and bottom-hole graphs of this data are shown in Figure 2, surface pressure, and Figure 3, bottom-hole pressure.

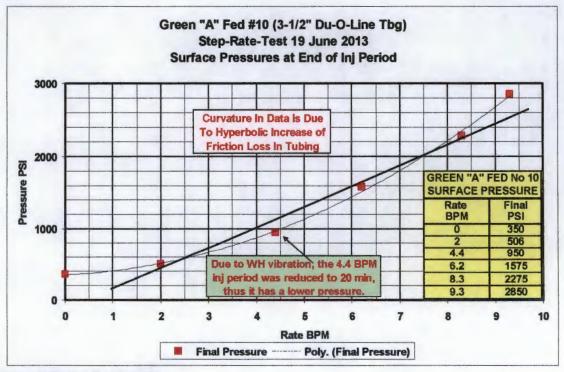


Figure 2: Surface Pressure SRT

Mr. Welch received the complete BHP data file from Pro Well which had pressures on 6 second readings. The report attached from Pro Well only has graphical data. Mr. Welch extracted the starting and end pressures for each strep rate and included it in **Appendix II**.

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VSW2 E&P, LLC.

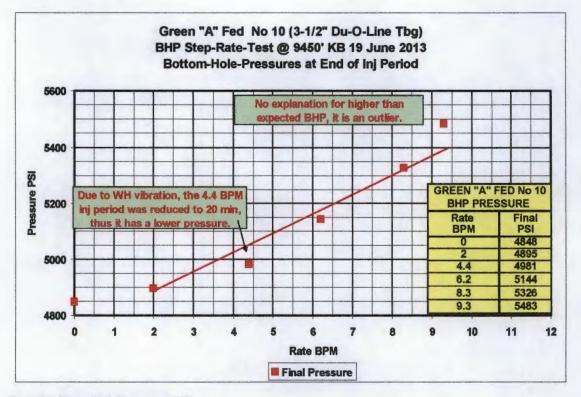


Figure 3: Bottm-Hole Pressure SRT

Both pressure graphs are representative of a typical SRT illustrating a continued straight-line increase in pressure with each rate increase. Neither graph illustrates the characteristic break associate with fracturing the reservoir in which the pressure increase is significantly reduced with each incremental increase in rate.

For information, a previous SRT was run on this well August 14, 2012 when it had 2-7/8 inch coated tubing. From that SRT the BLM/OCD granted increasing the limiting pressure from 1844 — psi to 2500 psi. Ultimately it was decided to keep the 1844 psi limit and run 3-1/2" Du-O-Line tubing and the well has been running at approximately 1700 psi since changing out the tubing. However, due to public demand in the is area, it was decide to run this new SRT to see if a higher injection pressure limit could be achieved without fracturing the formation.

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Vaň S. Welch II, PE V&C Properties, LLC. President Professional Engineer State of Texas (PE No. 66291)

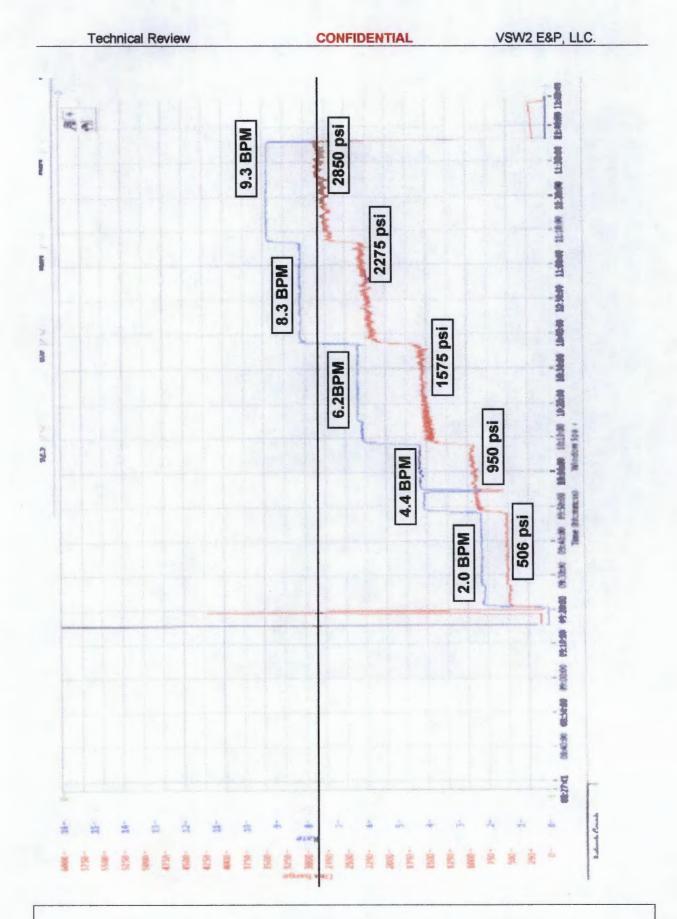
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Appendix :1 Pacesetter Surface Rate and Pressure Report

F	PAC R E S	S L R E	Ŷ	ч P			Field	d Receipt	C20130658
	.		- • •		• •			Lease:	GREEN "A" FED
Cust	omer:		Judai	h Oil				Well:	10
Date 6/19/2013		Job Type:		Job Type:	STEP RATE TEST				
		Injection	Rate:		Job P	res t	sures		Job Log
<u>Fime</u>	Rate:	8	bls in		Tbg psi.	C	sg psi		JUD LUY
MA00:00						Ι			SAFETY MEETING
09:18AM							4309		TEST LINE
09:19AM					L				OPEN WELLHEAD
09:20AM	2		60				505		START TEST
09:50AM	4.4		80	60	ļ		850		INCREASE RATE
10:08AM	6.3		180	140	ļ	+	1510		INCREASE RATE
10:37AM	8.:		240	390		1	2213		INCREASE RATE
11:01AM	9.3	·	270	530	 	X	2639		NCREASE RATE
11:36AM	ł			830		4	258 200		SHUTDOWN ISIP=968 5 MINUTE
11:40AM	+-					+	710		10MINUTE
11:46AM	 					┿	700	eu	IUT IN WELL RIG DOWN
				E: The	se are	ac			
				t of Inj			-	ALL RATES AR	E THE AVERAGE FOR THAT STAGE
	t		1 7	•					
	1		1	re re	ssures	5			GOOD JOB BY CREW

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Appendix :2 Pro Well Testing Bottom-Hole Pressure Report

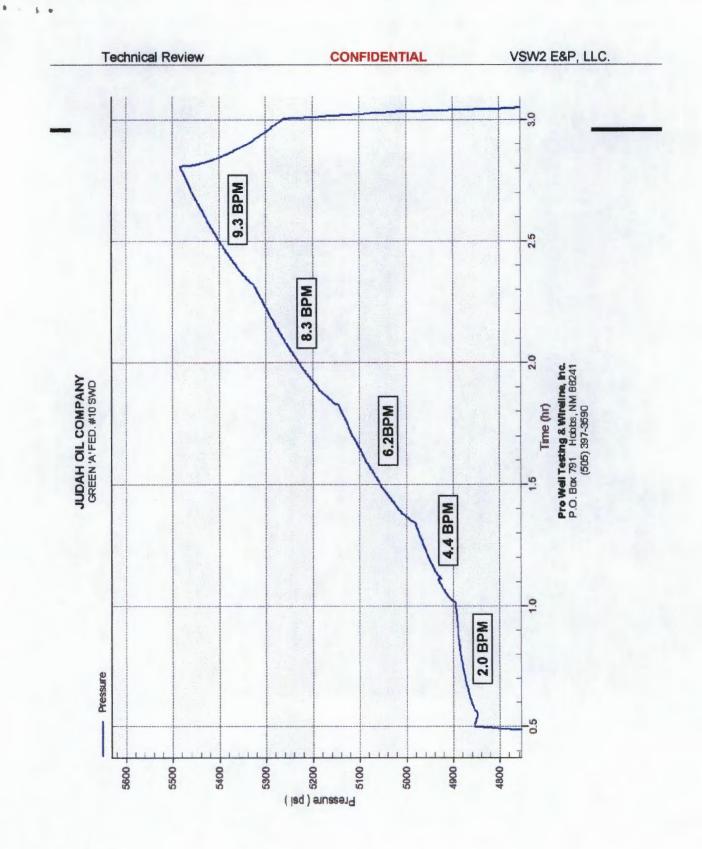
BUILDUP JOB INFORMATION SHEET

PROYESHMO & WIRELINE

Company Information								
Company Name:	JUDAH OIL COMPANY							
Address								
Well Information								
Weil Name:	GREEN 'A' FED. #10 SWD							
Location								
Field - Pool:								
Status	SHUTIN							
	Test Information							
Type of Test:	STEP RATE TEST							
Gauge Depth:	9431 ft	1						
Production Interval:	NOT AVAILABLE							
Production Through:	3.5" TUBING							
Tubing Pressure:								
Casing Pressure:								
Shutin Time								
Status	SHUTIN							
Temperature @ Run Depth	109.02 degF							
Surface Temperature:	75.87 degF							
	Gauge Information							
	Top Recorder	Bottom Recorder						
Serial Number.	75871	76173						
Calibration Date:	10/29/12	10/29/12						
Pressure Range:	6009 psi	6009 psi						
	Comments							
		-						

Pro Well Testing & Wireline, Inc. P.O. Box 791 Hobbs, NM 88241 (505) 397-3590

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GREEN "A" FED NO 10 SRT JUNE 19, 2013 ENDING INJECTION BHP's @9450' KB DATA FROM PRO WELL TESTING & WIRELINE (Complete 6 sec reading data file available on request)

Line	Date	T	Time	Rate	Pressure	Temp
No.	M/d/yyyy	h:mm:ss	hr	BPM	psi	degF
113	6/19/2013	8:57:06	0.183611	0	354.59	87.68
332	6/19/2013	9:19:00	0.548611	0	4847.25	102.47
333	6/19/2013	9:19:06	0.550278	ŏ	4846.97	102.46
334	6/19/2013	9:19:12	0.551944	Ő	4846.64	102.46
335	6/19/2013	9:19:18	0.553611	Ő	4847.44	102.47
336	6/19/2013	9:19:24	0.555278	0	4848.14	102.47
607	6/19/2013	9:46:30	1.006944	2	4894.55	102.82
608	6/19/2013	9:46:36	1.008611	2	4894.35	102.81
609	6/19/2013	9:46:42	1.010278	2	4894.44	102.81
610	6/19/2013	9:46:48	1.011944	2	4894.47	102.81
611	6/19/2013	9:46:54	1.013611	2	4894.68	102.81
804	6/19/2013	10:06:12	1.335278	4.4	4979.65	103.46
805	6/19/2013	10:06:18	1.336944	4.4	4979.97	103.46
806	6/19/2013	10:06:24	1.338611	4.4	4980.16	103.46
807	6/19/2013	10:06:30	1.340278	4.4	4980.52	103.45
808	6/19/2013	10:06:36	1.341944	4.4	4981.09	103.45
1093	6/19/2013	10:35:06	1.816944	6.2	5142.08	104.85
1094	6/19/2013	10:35:12	1.818611	6.2	5142.36	104.85
1095	6/19/2013	10:35:18	1.820278	6.2	5142.70	104.85
1096	6/19/2013	10:35:24	1.821944	6.2	5143.12	104.86
1097	6/19/2013	10:35:30	1.823611	6.2	5143.51	104.86
1390	6/19/2013	11:04:48	2.311944	8.3	5323.78	107.32
1391	6/19/2013	11:04:54	2.313611	8.3	5324.18	107.33
1392	6/19/2013	11:05:00	2.315278	8.3	5324.69	107.33
1393	6/19/2013	11:05:06	2.316944	8.3	5325.12	107.33
1394	6/19/2013	11:05:12	2.318611	8.3	5325.52	107.32
1682	6/19/2013	11:34:00	2.798611	9,3	5482.00	109.00
1683	and the second	11:34:06	2.800278	9.3	5482.49	109.00
1684	6/19/2013	11:34:12	2.801944	9.3	5482.77	108.99
1685	6/19/2013	11:34:18	2.803611	9.3	5483.17	108.99
1686	6/19/2013	11:34:24	2.805278	9.3	5483.80	108.98

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