ENGINEER P6

07/30/2013

PP NO JAKK137116/203

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 MA	ANDATORY FOR ALL ADMINISTRA	TIVE APPLICATIONS FOR EXCE		JLES AND REGULATIONS
App	ication Acronyms		CESSING AT THE DIVISION LEV	LL IN SANTA FE	
	[DHC-Down [PC-Po	ol Commingling] [OLS - [WFX-Waterflood Expansion	B-Lease Commingling] Off-Lease Storage] [Olon] [PMX-Pressure Mai Dosal] [IPI-Injection Pre	[PLC-Pool/Lease (LM-Off-Lease Meas ontenance Expansions of the Exp	Commingling] urement] on]
[1]	[A]	PLICATION - Check Tho Location - Spacing Unit -		OGRID API# Well Located	30-015-41009 Washington 34 state SWC N-34-178-28E
	Check [B]	One Only for [B] or [C] Commingling - Storage - DHC CTB	Measurement PLC PC	OLS OLM	14 01 110 202
	[C]	Injection - Disposal - Pres WFX PMX	ssure Increase - Enhanced SWD IPI		
	[D]	Other: Specify	SWD-1380-A		
[2]	NOTIFICATI [A]	ON REQUIRED TO: - C Working, Royalty or	heck Those Which Apply Overriding Royalty Intere		ply
	[B]	Offset Operators, Le	aseholders or Surface Ow	ner	
	[C]	Application is One V	Vhich Requires Published	Legal Notice	
	[D]	Notification and/or C	Concurrent Approval by Bent - Commissioner of Public Lands, Sta	LM or SLO ate Land Office	
	[E]	For all of the above,	Proof of Notification or P	ublication is Attach	ed, and/or,
	[F]	☐ Waivers are Attached	d		
ra1	CUDIATE A CA	CUDATE AND COMPLE	TEL INFORMATION D	EQUIDED TO DD	O CECC THE TUDE

[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.

Fatima Vasquez	2-	Regulatory Tech II	07/24/2013
Print or Type Name	Signature	Title	Date
		Fatima.Vasquez@apad	checorp.com



## 07/24/2013

Mr. Phillip Goetze
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Washington 34 State SWD #2

Mr. Phillip Goetze,

Based on the order SWD 1380-A issued on May 30, 2013 for Washington 34 State SWD #2, the maximum surface injection pressure is 1480 psi. Apache Corporation respectfully requests to increase the injection pressure. Step rate tests have been performed and the results are summarized below. More detailed information in regards to the test and wellbore are enclosed.

Well	API	Fracture Pressure	Requested Inj.	SRT Date
			Pressure Limit	
Washington 34	30-015-41009	2120	2050	07/23/2013
State SWD #2				

Please feel free to contact the engineer, Mark Thomas, at (432) 818-1071 or myself should you have any questions or need any other information. Thank you for your time and consideration.

Regards,

Fatima Vasquez Regulatory Tech II Apache Corporation

Fatima.Vasquez@apachecorp.com

(432) 818-1015

2050 PSi 7402'= 0.277 PSilft 0.28 PSilft

761 HE 29 D 2:5

## Apache Corp. Current

**GROUP:** 

Permian North

Washington 34 State SWD

FIELD:

Artesia

DATE: Jul. 24, 2013

LEASE/UNIT:

BY: HJG

WELL: #2

COUNTY:

**Eddy** 

STATE: **New Mexico** 

30-015-41009 API NUMBER:

Spud: 2/24/13

KB = 3686'

Rig Release: 3/25/13

GL = 3662'



17-1/2"

8-3/4"

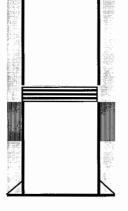
13-3/8" 48# H-40 Set @ 461' CMT W/ 900 SX (CIRC/SURF)

9-5/8" 40# J-55 Set @ 4527' CMT W/ 1650 SX (CIRC/SURF)

5-1/2" 26# L-80 Set @ 12,656' CMT W/ 1540 SX; TOC @ 688'

DVT @ 6,995'

Wolfcamp/Cisco (7/10/13) ' 7,402-9,136' (86 holes)

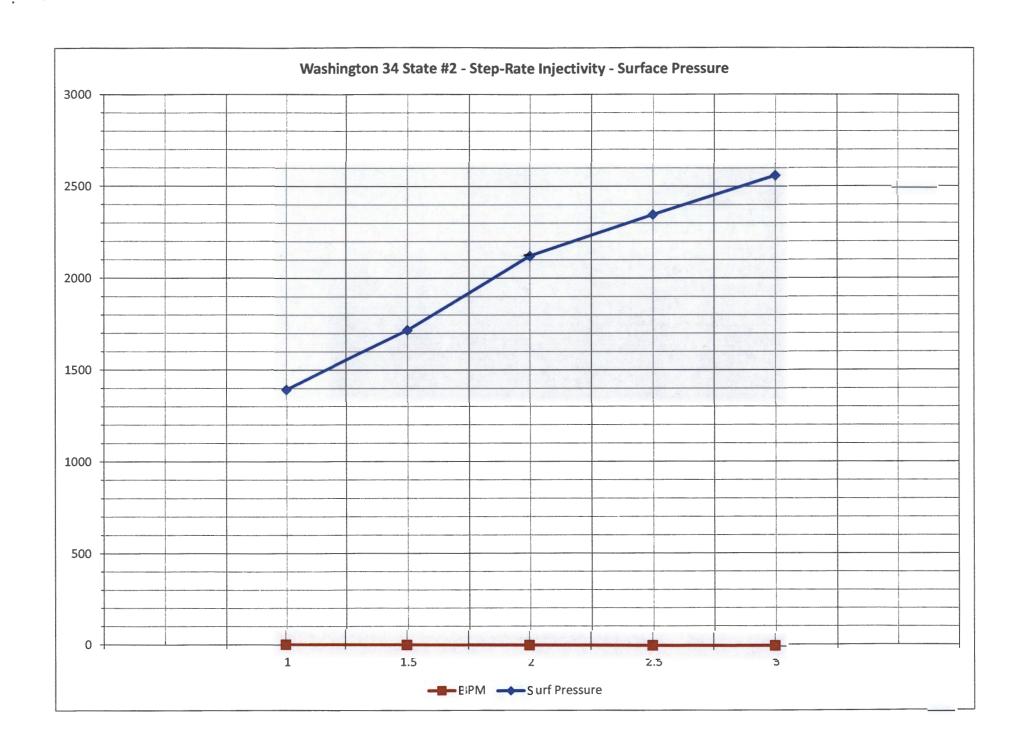


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4/4/13: Set CIBP @ 12,210' w/50' CMT

Simpson/Ellenburger (4/3/13) 12,254-236', 298-308', 332-336' (4 SPF, 184 holes)

TD = 12,656'PBTD = 12,160'



· · · **Treatment Report** page 1 Ticket # 65687 Customer: APACHE Well Name & No.: WASHINGTON 34 STATE #2 Formation: 0.00 County: EDDY Date: July 23, 2013 State: NM Well type: Disposal. Old Stim. **Customer Information** PETROPLEX Address: 0.00 AGIDIZING City, State: 0.00 Į P Zip Code: 0 Customer Representative: DAVID PEDROZA Remarks Arrive on Location: 6:00 AM Depart Location: 10:00 AM **Total Hours:** 4.00 Bbls/linear ft. Weight Depth O.D I.D Volume 0.00 BBLS. 0.00000 Tubing 1 length ft.: N/A 0.000 Tubing 2 length ft.: 0.00 BBLS. 0.00000 Casing 1 length ft.: N/A 5 1/2 0.00 0.000 ###### BBLS. 0.00000 Casing 2 length ft.: 0.00 BBLS. 0.00000 Open Hole length ft.: N/A N/A 0.00 BBLS. 0.00000 Combined Depth ft.: #VALUE! Annular Vol.: BBLS. 0.00000 Depth Vol. Top Perf/Open Hole: N/A **#VALUE!** Maximum Pressure: 4125 ISIP: 3470 **Bottom Perf/Open Hole:** N/A **#VALUE!** Average Pressure: 3532 5 min: 2981 **Number of Perfs:** N/A Maximum Rate: 9.0 10 min: 2614 15 min: 2256 Perf Size: 0.31 in. Average Rate: 6.3 Packer Depth: N/A Fluid to Recover: 482.9 **Proppant Total:** ft. Total Comments STP Casing Rate Stage Time SAFETY MEETING 6:00:09 AM 0 PRESSURE TESTED LINES 0.0 0.0 1.2 7:20:20 AM 4932 ON WATER STEP RATE .8BPM 7:22:13 AM 576 21.0 0.8 0.1 20.0 10.0 10 BBLS 1074 0.8 7:35:07 AM 18.0 20.0 20 BBLS 1141 0.8 7:48:16 AM 17.0 0.7 25.0 25 BBLS 7:54:58 AM 1152 1 BPM 7:56:22 AM 1210 17.0 1.0 26.0 16.0 36.0 10 BBLS B:06:07 AM 1342 1.0 15.0 1.0 46.0 20 BBLS 8:15:56 AM 1381 8:21:01 AM 1393 15.0 51.0 25 BBLS 1.0 57.9 1.5 BPM 8:27:11 AM 1282 14.0 1.5 67.9 10 BBLS B:34:19 AM 1636 13.0 1.5 12.0 77.9 20 BBLS B:41:05 AM 1696 1.4 8:44:37 AM 1717 13.0 1.4 82.9 25 BBLS 12.0 2.0 84.4 2 BPM 8:45:37 AM 1854 94.4 10 BBLS 8:50:24 AM 2008 12.0 2.0 8:55:36 AM 2093 12.0 2.0 104.4 20 BBLS 12.0 2.0 109.4 25 BBLS 8:57:55 AM 2120 2.5 BPM 12.0 110.3 8:58:33 AM 2178 2.5 10 BBLS 120.3 9:02:52 AM 2279 12.0 2.5 130.5 20 BBLS 2317 12.0 9:06:27 AM 2.5 135.3 25 BBLS 2345 11.0 2.5. 9:08:50 AM 3 BPM 137.5 3.0 9:09:35 AM 2417 11.0 10 BBLS 11.0 3.0 147.5 2505 9:12:42 AM 2555 11.0 3.0 157.5 20 BBLS 9:16:05 AM 11.0 3.0 162.5 25 BBLS 9:17:44 AM 2559 3.5 BPM 164.0 11.0 3.5 9:18:23 AM 2646 10 BBLS 174.0 3.5 9:21:03 AM 2666 11.0 184.0 20 BBLS 3.5 2737 11.0 9:23:57 AM 189.0 25 BBLS 2746 9:25:24 AM 11.0 3.5 4 BPM 191.8 2825 11.0 4.0 9:26:12 AM

Treatm	ent Rep	ort Cor	<u>ıt./APA</u>	CHE-WASHII	NGTON 34 STATE #2	7/23
Time	STP		Rate	Stage Total	Comments	
:28:37 AM	2883	11	4	201.8	10 BBLS	
:31:06 AM	2907	11	4	211.8	20 BBLS	
:32:21 AM	2949	11	4	216.8	25 BBLS	
:33:05 AM	2993	11	4.5	219.6	4.5 BPM	
:35:12 AM	3058	11	4.5	229.6	10 BBLS	
:37:27 AM	3082	11	4.5	239.6	20 BBLS	
:38:32 AM	3065	11	4.5	244.6	25 BBLS	
:39:09 AM	3180	11	5	247.2	5 BPM	
:41:04 AM	3180	11	5	257.2	10 BBLS	
:43:01 AM	3225	11	5	267.2	20 BBLS	
:44:01 AM	3241	11	5	272.2	25 BBLS	
:44:37 AM	3309	11	5.5	274.7	5.5 BPM	
:46:21 AM	3311	11	5.5	284.7	10 BBLS	
:48:08 AM	3384	11	5.5	294.7	20 BBLS	
:49:04 AM	3359	11	5.5	299.7	25 BBLS	
:49:31 AM	3423	11	6	301.5	6 BPM	
:51:02 AM	3449	11	6	311.5	10 BBLS	
:52:44 AM	3470	11	6	321.5	20 BBLS	
:53:34 AM	3460	11	6	326.5	25 BBLS	
:53:58 AM	3512	11	6.5	328.4	6.5 BPM	
55:24 AM	3560	11	6.5	338.4	10 BBLS	
57:00 AM	3584	11	6.5	348.4	20 BBLS	
57:42 AM	3598	11	6.5	353.4	25 BBLS	
58:49 AM	3649	11	7	359.7	7 BPM	
:00:10 AM	3662	11	7	369.4	10 BBLS	
:01:29 AM	3710	11	7	379.7	20 BBLS	
:02:12 AM	3700	11	7	384.7	25 BBLS	
:03:03 AM	3775	11	7.5	389.5	7.5 BPM	
:04:18 AM	3797	11	7.5	399.5	10 BBLS	
:05:40 AM	3804	11	7.5	409.5	20 BBLS	
:06:19 AM	3801	11	7.5	414.5	25 BBLS	
:06:51 AM	3921	11	8	418.0	8 BPM	
:08:00 AM	3916	11	8	428.0	10 BBLS	
:09:17 AM	3945	11	8	438.0	20 BBLS	
:09:50 AM	4002	11	8	443.0	25 BBLS	
:10:19 AM	4046	11	8.5	446.0	8.5 BPM	
:11:21 AM	4043	11	8.5	456.0	10 BBLS	
:12:29 AM	4102	11	8.5	466.0	20 BBL\$	
:13:01 AM	4116	11	8.5	471.0	25 BBLS	
:13:57 AM	4125	11	9	438.0	9 BPM	
:16:37 AM	3500	11	0	482.9	SHUT DOWN	

Smi

Zmn