

11/20/12	SUSPENSE	ENGINEER WJS	LOGGED IN 11/20/12	TYPE IPI 427	APR. NO. PWV 234874466
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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 ☐ 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.

Fatima Vasquez		Regulatory Tech	10/18/12
Print or Type Name	Signature	Title	Date
		Fatima.Vasquez@apachecorp.com	
		e-mail Address	



10/18/12

Mr. Richard Inge
Oil Conservation Division
811 S. First St.
Artesia, NM 88210

RE: Apache State SWD #1

Mr. Richard Inge,

Based on the Administrative Order SWD-1271-A issued on May 29, 2012, the maximum surface injection pressure is 2471 psi. Apache Corporation respectfully requests to increase the injection pressure on the Apache State SWD #1. 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. Pressure Limit	SRT Date
Apache State SWD #1	30-015-38977	Did not reach fracture pressure on the SRT – see rate pressure curve.	3971 <i>3900</i>	10/12/12

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 I
Apache Corporation
Fatima.Vasquez@apachecorp.com
(432) 818-1015

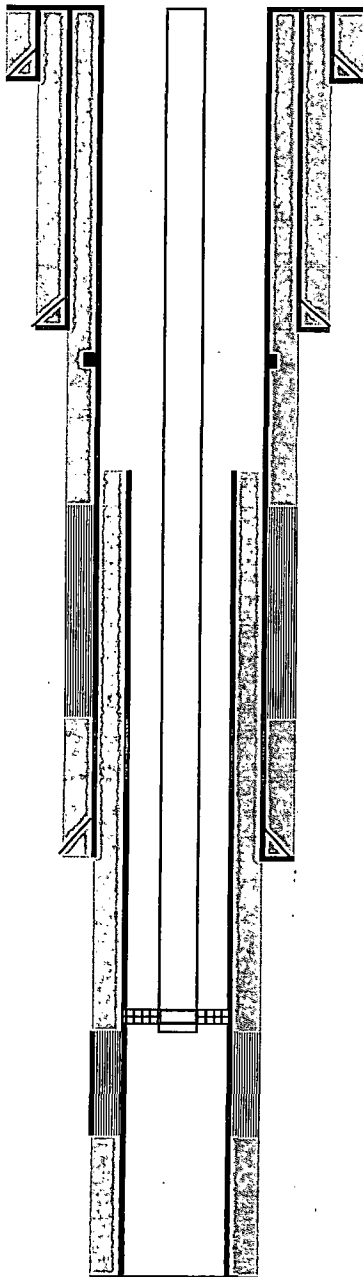
3900 psi

Apache Corp.

GROUP: Permian North
FIELD: Loco Hills
LEASE/UNIT: Apache State SWD
COUNTY: Eddy County
API #: 30-015-38977

DATE: Oct. 17, 2012
BY: SNH
WELL: #1
STATE: New Mexico

KB = 13'
GR = 3625'



13-3/8" H-40 48# set @ 491'
cmt w/ 520 sx to surface

9-5/8" J-55 40# set @ 4490'
cmt w/ 1475 sx to surface

DVT @ 6973'

WOLFCAMP

10/3/11: 8302'-8692' (1 JSPF, 166 holes)

WOLFCAMP/CISCO

10/3/11: 8827'-9098' (1 JSPF, 137 holes)

CISCO

9/28/11: 9200'-9604' (1 JSPF)

6/12: Sq'd perms w/475 sx cmt

7" L-80 26# set @ 9704'

cmt w/ 740 sx (1st Stage), 750 sx (2nd Stage) to surface

4-1/2" Duoline (212 jts), 3-1/2" Fiberlined (32 jts) & 2-7/8" Duoline w/turned down collars @ 12800'
w/ASE inj pkr @ 12799'

Devonian

9/27/12: 12844'-12994'

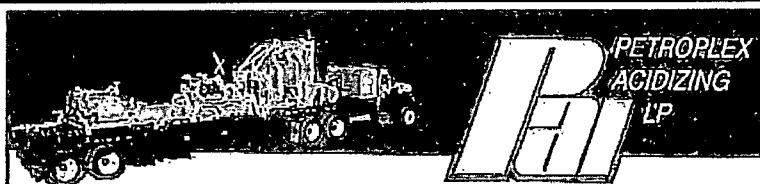
9/21/12: 13200'-13306'

Liner @ 7915'-13486'

4-1/2" 13.5# HCL-L80 (3 jts), 4-1/2" 13.5# HCL-80 (80 jts), 4-1/2" 13.5# HCL-80 (39 jts)
cmt w/ 630 sx to top of liner

TD = 13500'

PBTD = 13320'



APACHE

JAVIER BERDOZA

Treater: DAVID JUAREZ

10/12/2012

Well: 1

Field: APACHE STATE SWD

EDDY, NM



Treatment Report

page 1

Customer:	APACHE	Ticket#	64707	
Well Name & No.:	APACHE STATE SWD #1	Formation:	0.00	
County:	EDDY	Date:	October 12, 2012	
State:	NM	Welltype:	Oil / New / Stim.	
Customer Information				
Address:	0.00			
City, State:	0.00			
Zip Code:	0			
Customer Representative:	JAVIER BERDOZA			

Remarks

Arrive on Location: 11:00 AM
Depart Location: 2:00 PM
Total Hours: 3.00

	Depth	O.D.	Weight	I.D.	Volume	Bbls/linear ft.
Tubing 1 length ft.	N/A		0	0.000	0.00 BBLs.	0.00000
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!				BBLs.	0.00000
Annular Vol:						

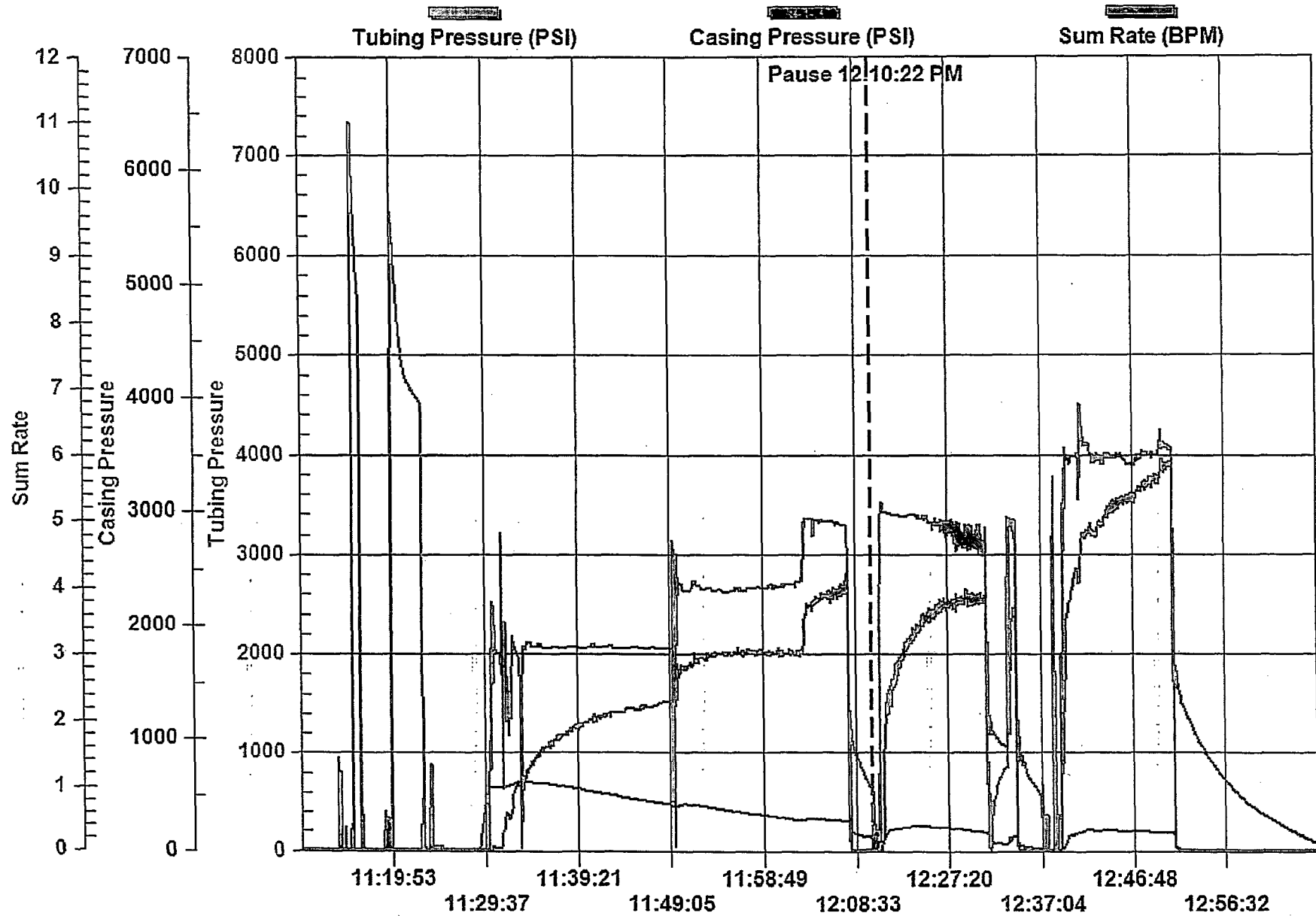
Top Perf/Open Hole:	N/A	#VALUE!	Maximum Pressure:	3971	ISIP:	1760
Bottom Perf/Open Hole:	N/A	#VALUE!	Average Pressure:	2367	5 min:	694
Number of Perfs:	N/A		Maximum Rate:	6.1	10 min:	436
Perf Size:	0.31	in.	Average Rate:	4.7	15 min:	125
Packer Depth:	N/A	ft.	Fluid to Recover:	271.6	Proppant Total:	

Time	STP	Casing	Rate	Stage	Total	Comments
8:00:56 AM	0					SAFETY MEETING
11:15:26 AM	7338	0.0	0.0		0.5	PRESSURE TESTED LINES
11:32:35 AM	654	612.0	3.0		8.5	3 BPM
11:34:01 AM	850	611.0	3.1		13.6	PSI & RATE CHECK
11:35:58 AM	1078	596.0	3.1		18.5	PSI & RATE CHECK
11:39:17 AM	1278	552.0	3.1		28.6	PSI & RATE CHECK
11:42:32 AM	1383	503.0	3.1		38.6	PSI & RATE CHECK
11:45:49 AM	1469	453.0	3.1		48.6	PSI & RATE CHECK
11:48:44 AM	1509	418.0	3.1		58.6	PSI & RATE CHECK
11:49:48 AM	1854	418.0	4.1		61.4	4 BPM
11:52:54 AM	1966	387.0	4.0		71.4	PSI & RATE CHECK
11:54:53 AM	2020	360.0	4.0		82.8	PSI & RATE CHECK
11:57:23 AM	2028	328.0	4.0		92.6	PSI & RATE CHECK
11:59:53 AM	2011	297.0	4.0		103.7	PSI & RATE CHECK
12:02:28 PM	2046	271.0	4.0		112.8	PSI & RATE CHECK
12:20:21 PM	1260	148.0	5.0		139.8	5 BPM
12:22:01 PM	1909	203.0	5.0		149.5	PSI & RATE CHECK
12:23:58 PM	2260	211.0	5.0		159.4	PSI & RATE CHECK
12:25:58 PM	2450	203.0	5.0		169.4	PSI & RATE CHECK
12:30:10 PM	2571	167.0	5.0		189.6	PSI & RATE CHECK
12:39:44 PM	2521	132.0	6.0		205.0	6 BPM
12:40:44 PM	2802	156.0	6.0		210.0	PSI & RATE CHECK
12:41:36 PM	3206	176.0	6.1		217.0	PSI & RATE CHECK
12:42:19 PM	3242	171.0	6.0		222.0	PSI & RATE CHECK
12:43:34 PM	3375	174.0	6.0		229.5	PSI & RATE CHECK
12:45:02 PM	3537	171.0	6.0		238.0	PSI & RATE CHECK
12:47:32 PM	3701	164.0	6.0		253.0	PSI & RATE CHECK
12:48:43 PM	3741	158.0	6.0		260.0	PSI & RATE CHECK
12:49:38 PM	3971	163.0	6.1		271.6	SHUTDOWN
12:54:26 PM	694	0.0	0.0		271.6	5 MIN.
12:59:20 PM	436	0.0			271.6	10 MIN.

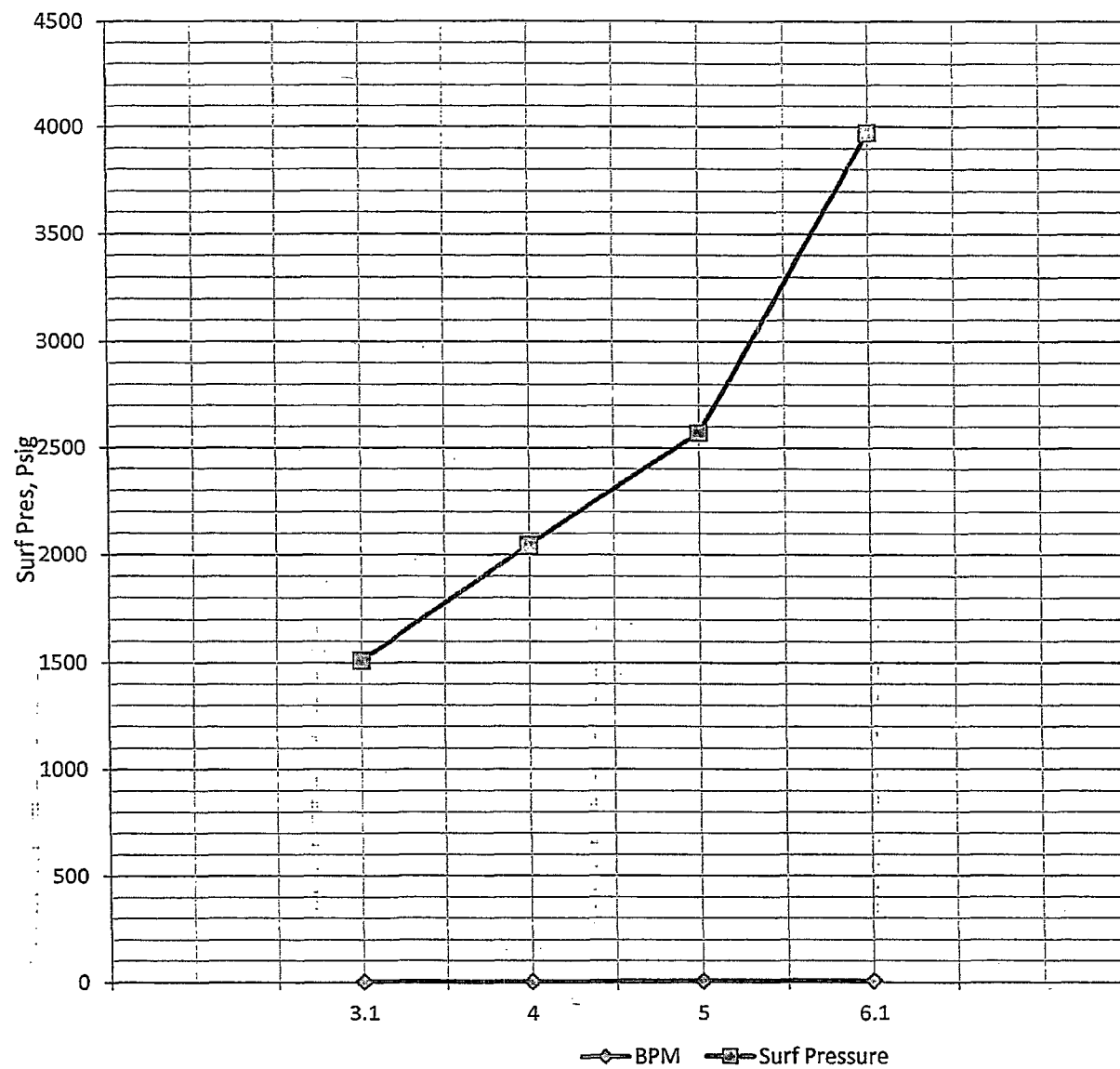
Page 2

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APACHE-APACHE-STATE-SWD-1---10-12-12



Apache St. SWD #1 - Step-Rate Injectivity - Surf Pres (4 1/2" x 3 1/2" x 2 1/2" Tapered Tubing String)



1509 Psig	4,464 Bpd
2046 Psig	5,760 Bpd
2571 Psig	7,200 Bpd
3971 Psig	8,784 Bpd