	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
Appli	ication 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 Image: Dedication in the second
	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
	[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.

Print or Type Name

Signature

Title

Date

e-mail Address

IGE OC CORPORATIC

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June 22, 2004

David Catanach New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

RE: Request for Surface Injection Pressure Amendment Argo No. 6 and Argo No. 7 Sec 15, 21S 37E Lea County, New Mexico

Dear Mr. Catanach,

Apache Corporation respectfully requests an amendment to the 780 psi surface pressure limitation for its Argo No. 6 (API 30-025-06603) and Argo No. 7 (API 30-025-09915) SWD wells. We would like to raise our surface pressure limitations based on the given data. The attached injection step rate test (Figure 1) for the Argo No. 6 supports a bottom hole pressure limitation of 3150 psi at 4930' or 2905 psi at 4375' (mid point of upper perforations). This correlates on Figure 2 to a surface pressure of approximately 1665 psi.

The friction pressure in the pipe was calculated at various rates and is attached in Figure 3. This calculated data is within 1% of our actual friction pressure losses. The surface pressures line indicates the point where our BHP at the mid point of the perfs is equal to the parting pressure of 2905 psi at the associated rate with friction losses included. The pressures range from 975 psi with no friction and a rate of 0 BW/d to 1665 psi at a max rate of 11,000 BW/d. We will be installing automatic choke assemblies to limit our pressures at the given rates to keep our BHP below the calculated parting pressures.

Your consideration in approving increased surface injection pressures for the Argo No. 6 and Argo No. 7 wells is greatly appreciated.

If you have any questions please feel free to contact me at (918) 491-4800 or by email at rick.crist@apachecorp.com

Very truly yours,

APACHE CORPORATION

Rick Crist Production Engineer

cc: Doug O'Neil Bill Baswell Well file



FIGURE 1 - ARGO 6 STEP RATE TEST BHP vs. RATE



FIGURE 2 - ARGO 6 STEP RATE TEST SURFACE PRESSURE vs. RATE



