

Submit a Copy To Appropriate District  
Office  
District I – (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II – (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III – (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV – (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO.
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator		6. State Oil & Gas Lease No.
3. Address of Operator		7. Lease Name or Unit Agreement Name
4. Well Location Unit Letter _____: _____ feet from the _____ line and _____ feet from the _____ line Section _____ Township _____ Range _____ NMPM _____ County _____		8. Well Number
		9. OGRID Number
		10. Pool name or Wildcat
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Sorina L Flores TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Type or print name \_\_\_\_\_ E-mail address: \_\_\_\_\_ PHONE: \_\_\_\_\_

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

# GERONIMO 28 STATE COM 2 - SWD

## TROUBLESHOOT AND REPAIR SWD

AFE #: 32-21-0209

Routing ID: 541005

API/Surface Loc 3001540876
County Eddy
Latitude (°) 32° 48' 10" N
Longitude (°) 104° 10' 28" W
Production Area ARTESIA
Field Name Artesia

BY: VALENTINO JULIEN  
713-380-0839

NOVEMBER 9, 2021

Directions To Well  
Start at Artesia- Loco Hills,  
Go west on Lovington Hwy (US-82),  
Turn right on Red Lake Rd (CR-208),  
Restriction: Avoid Unpaved Roads,  
Finish at GERONIMO 28 STATE SWD 2, on the right



## Contacts

GB PREMIUM SERVICE — JOHN SHRIVER — 281 868 9767

## Well Information

Casing Strings							
Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Top (ftKB)	Set Depth (ftKB)	Set Depth (TVD) (ftKB)
Surface	13 3/8	48.00	H-40	ST&C	24.00	487.97	487.93
Inter 1	9 5/8	40.00	J-55	LTC	24.00	4,499.03	4,498.64
Prod 1	7	26.00	L-80 HC	LTC	24.00	9,528.48	

Casing Components													
Item Des	Type	OD (in)	ID (in)	Jts	Len (ft)	Drift (in)	Wt (lb/ft)	Grade	Top Thread	Mk-up Tq (ft-lb)	Top (ftKB)	Btm (ftKB)	Cum Len (ft)
Cut Joint - CASING CUT JT	Casing	7	6.276	2	81.35	6.151	26.00	L-80 HC	LTC		24.00	105.35	9,504.48
Casing - CASING JOINT(S)	Casing	7	6.276	164	6,641.08	6.151	26.00	L-80 HC	LTC	5,110	105.35	6,746.43	9,423.13
Cement Stage Tool - CEMENT STAGE TOOL	Float Collar	7	6.280	1	2.26				LTC		6,746.43	6,748.69	2,782.05
Casing External Packer - PACKER	Casing	7	6.280	1	24.58				LTC		6,748.69	6,773.27	2,779.79
Casing - CASING JOINT(S)	Casing	7	6.276	67	2,711.84	6.151	26.00	L-80 HC	LTC	5,110	6,773.27	9,485.11	2,755.21
Float Collar - CASING FLOAT COLLAR	Other	7	6.280	1	1.16				LTC		9,485.11	9,486.27	43.37
Landing Joint - CASING LANDING JT	Other	7	6.276	1	40.72	6.151	26.00	L-80 HC	LTC		9,486.27	9,526.99	42.21
Float Shoe - CASING FLOAT SHOE	Other	7	6.280	1	1.49				LTC		9,526.99	9,528.48	1.49

Tubing Strings						
Tubing Description				Run Date		Set Depth (ftKB)
Tubing				7/21/2016		7,235.0
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)
Tubing Hanger	1	4 1/2	12.95	SS	0.90	0.5
Cross Over	1	4 1/2	12.95	J-55	0.72	1.4
Tubing Pup Joint	1	4 1/2	12.95	J-55	6.16	2.1
Tubing Pup Joint	1	4 1/2	12.95	J-55	6.15	8.3
Tubing Pup Joint	1	4 1/2	12.95	J-55	8.20	14.4
Tubing Joint(s)	231	4 1/2	12.95	J-55	7,187.58	22.6
Cross Over	1	3 1/2	12.95	N-80	0.85	7,210.2
Landing Nipple	1	3 1/2	12.95	Nickel Plated	1.10	7,211.0
On-Off Tool	1	3 1/2	12.95	Nickel	2.00	7,212.1
Profile Nipple	1	3 1/2	12.95	Nickel	0.01	7,214.1
Packer	1	6.28	12.95	Nickel	7.85	7,214.2
Cross Over	1	3 1/2	6.50	N-80	0.45	7,222.0
Tail Pipe	1	2 7/8	6.50	J-55	12.05	7,222.5
Pump Out Plug	1	2 7/8	6.50	J-55	0.47	7,234.5



## Important well history

- The well was SI 9/22, for suspected packer/casing leak.
  - 8/15: Pumped acid down tubing for routine stimulation.
  - 9/22: Well had 700 psi pressure on csg, was bled off and returned to 500 psi within 30 mins. Well was SI.
  - 9/29: RIH w/ plug and set in X-nipple just above pkrr. Tbg held 1000 psi for 30 mins.

## Objective

There is a either a HIC or leaking pkr. Will scan injection tubing and pending scan may need to replace w/ 2-7/8" IPC tbg. If there is a HIC above the permitted injection interval well will be TA'd and later PA'd.

## Procedure

- 1.0 MIRU WOR, rev unit, with iron and related equipment. Test lines to 250 low and 4,500 high. Set working tanks with treated fluid per Tech Management.
- 2.0 Bleed off casing gas pressure through choke manifold into battery line. Attempt to bleed of tubing pressure the same way.
  - 2.1 Pump 50 bbl of brine down casing. Wait 10 min. Ensure well is static.
  - 2.2 If building up pressure calculate kill mud weight needed. Verify w/ engineer and superintendent.
  - 2.3 Last time well required 14.4 kill mud. Have on location ready.
    - 2.3.1 Verify with Tech Management manager weight of fluid being injected to calculate required kill mud weight.
- 3.0 Set BPV in tubing hanger. ND injection tree, NU 5k hydraulic BOPs loaded with 4-1/2" rams and blinds. NU 5k annular BOP. Retrieve BPV. Insert TWC
- 4.0 Test BOP to 250 low and 4,500 psi. Test annular to 250 low and 2,000 psi high. Retrieve TWC
- 5.0 Rig up casing crew.
- 6.0 Release pkr. Wait 10 min. Ensure well is static



- 7.0 Ensure that GB Premium service tech is on location while SOOH tubing.
- 8.0 Scan OOH with injection string, visually inspect tubing. LD injection string as necessary depending on rig limits of weight in the derrick. Take pictures and collect samples of any deposition or corrosion on the injection string.
- 9.0 RDMO casing crew
- 10.0 Set pipe racks, MI work string 2-3/8", 4.6#, L-80, 8RD EUE
- 11.0 PU 7" RBP / test packer and WS
- 12.0 Set RBP at 7,204'. Test RBP to 500 psi. If good dump sand on top. Test from 7,176 to surface.
  - 12.1 If test is bad well will be TA'd. See contingent procedure below.
  - 12.2 If good proceed with steps below.
- 13.0 Use test pkr to find deepest spot of good csg to surface that is below top of injection interval of 7,176'
- 14.0 Release RBP. POOH w/ WS RBP.
- 15.0 If 4.5" injection string is in good shape re run and same BHA and have GB tech on location. If not, prep location with 2-7/8" 6.5# L-80 8EUE IPC tubing.
- 16.0 RIH w/ injection BHA (B to T) and injection tubing.
  - 16.1 Pump out plug
  - 16.2 1 jt tail pipe 2-7/8
  - 16.3 Nickel coated injection pkr
  - 16.4 Profile nipple 2.31 X
  - 16.5 O/O tool
  - 16.6 Landing nipple
  - 16.7 2-7/8 to surface
- 17.0 Set packer



- 18.0 Release off O/O. Circulate packer fluid. Engage O/O.
- 19.0 Space out tubing to set 15k in compression on packer. Land tubing head.
- 20.0 Test packer to 1,000# for 15 min.
- 21.0 ND BOP
- 22.0 NU WH.
- 23.0 RDMO WOR

## **Contingent procedure**

- 1.0 POOH w/ WS and RBP and test packer.
- 2.0 RIH w/ CIBP on WS and set at 7,126'. L&T to 500 psi and hold for 10min. LD WS
- 3.0 RU Wireline. RIH w/ cement bailer and place 30' of cement on top of CIBP
- 4.0 RDMO WOR.



## Permit Injection Interval

Administrative Order IPI-455

November 1, 2013

Apache Corporation  
303 Veterans Airpark Lane, Suite 3000  
Midland, Texas 79705-9909  
Attn: Fatima Vasquez

**RE: Injection Pressure Increase**

Disposal Permit: SWD-1378-B

Pool: SWD; Wolfcamp and Cisco formations

Geronimo 28 State SWD Well No. 2      API 30-015-40876

Unit I, Sec 28, T17S, R28E, NMPM, Eddy County, New Mexico

Dear Ms. Vasquez:

Reference is made to your request on behalf of Apache Corporation (OGRID 873) received by the Division on September 9, 2013, to increase the maximum allowed surface tubing pressure on the above named well.

This well was permitted by the Division for water disposal in the Wolfcamp and Cisco formations by Division administrative order SWD-1378-B approved June 17, 2013. That permit allowed disposal through perforations from 7176 feet to 9150 feet at a maximum surface disposal pressure of 1435 psi.

It is our understanding that this well will not take a sufficient volume of fluid at the current pressure limit and a higher pressure limit is needed. It is also understood that an increase will not result in the fracturing of the formation and confining strata.

## Apache Corp. Current

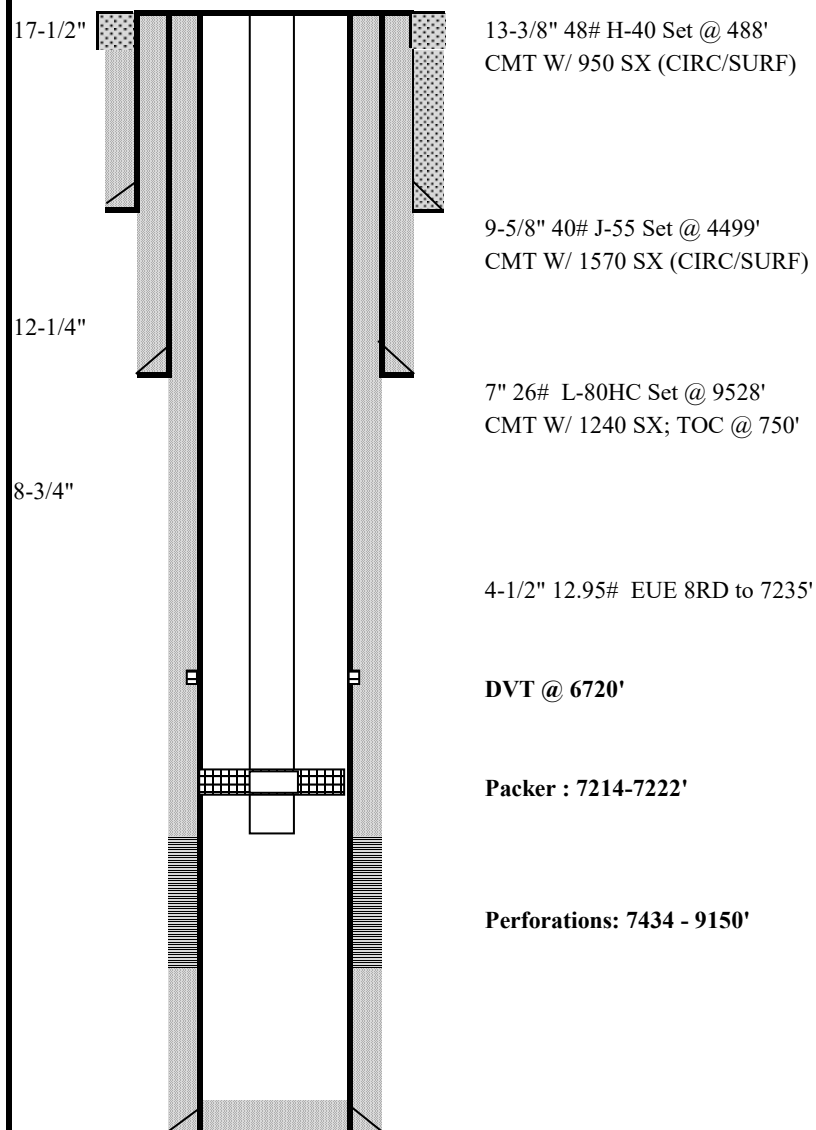
<b>GROUP:</b>	Permian North	<b>DATE:</b>	Nov. 15, 2021
<b>FIELD:</b>	Artesia	<b>BY:</b>	DHK
<b>LEASE/UNIT:</b>	Geronimo 28 State SWD	<b>WELL:</b>	#2
<b>COUNTY:</b>	Eddy	<b>STATE:</b>	New Mexico
<b>API NUMBER:</b>	30-015-40876		

Spud: 3/28/13

KB = 3,709'

Rig Release: 4/18/13

GL = 3,685'



TD = 9500'

PBTD = 9430'



## Apache Corp. Proposed

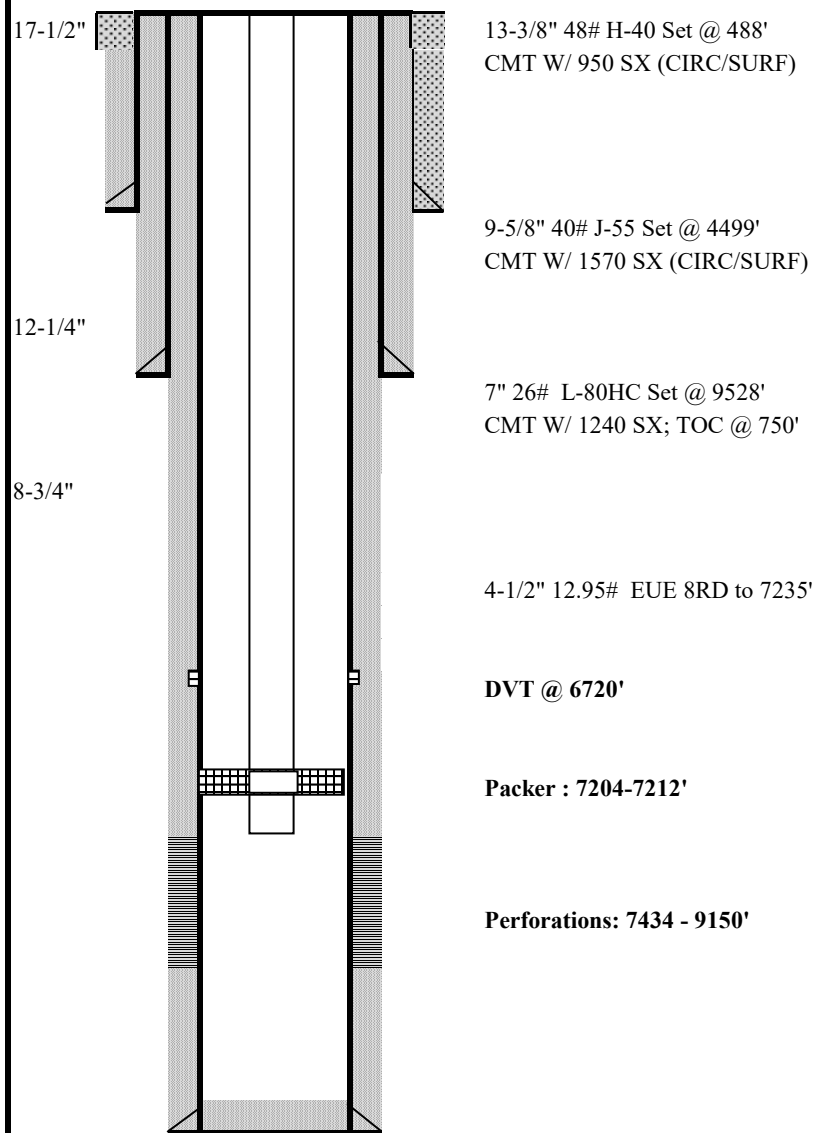
<b>GROUP:</b>	Permian North	<b>DATE:</b>	Nov. 15, 2021
<b>FIELD:</b>	Artesia	<b>BY:</b>	DHK
<b>LEASE/UNIT:</b>	Geronimo 28 State SW	<b>WELL:</b>	#2
<b>COUNTY:</b>	Eddy	<b>STATE:</b>	New Mexico
<b>API NUMBER:</b>	30-015-40876		

Spud: 3/28/13

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**Apache Corp.  
Proposed TA**

**GROUP:** Permian North  
**FIELD:** Artesia  
**LEASE/UNIT:** Geronimo 28 State SW  
**COUNTY:** Eddy  
**API NUMBER:** 30-015-40876

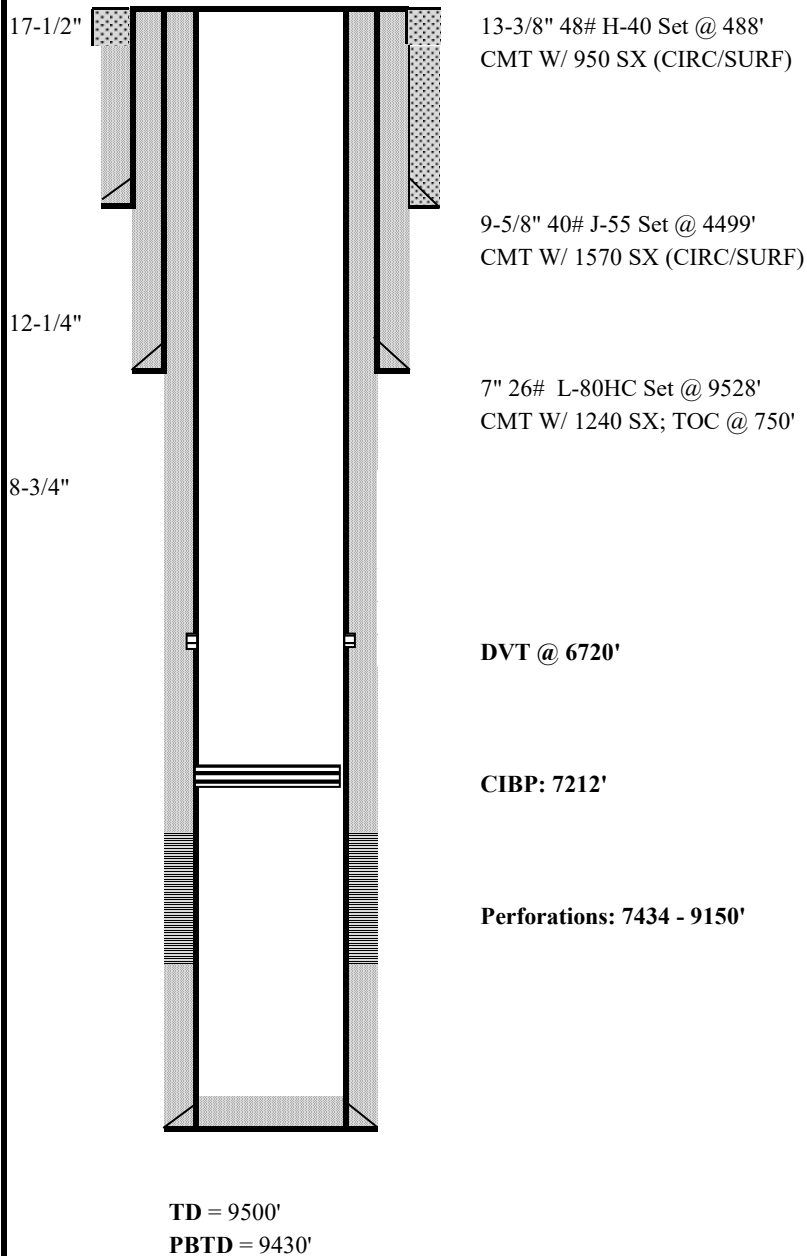
**DATE:** Nov. 15, 2021  
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**WELL:** #2  
**STATE:** New Mexico

**Spud:** 3/28/13

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**District I**

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**District II**

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**District III**

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**District IV**

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Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 61865

**CONDITIONS**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 61865
	Action Type: [C-103] Sub. Workover (C-103R)

**CONDITIONS**

Created By	Condition	Condition Date
pgoetze	Operator shall provide notice to the OCD Inspection Supervisor 48 hours prior to conducting the MIT as to allow the test to be witnessed by OCD personnel. Operator shall provide a copy of the casing bond log for the production casing string required as a condition of approval in Paragraph 4, Page 1 of Order SWD-1378-B.	2/15/2022