

Submit 1 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 August 1, 2011

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

WELL API NO. 30-015-39591
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B7071
7. Lease Name or Unit Agreement Name FEATHERSTONE STATE B
8. Well Number 005
9. OGRID Number 274841
10. Pool name or Wildcat ARTESIA; Q-GB-SA

SUNDRY NOTICES AND REPORTS ON WELLS
(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.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator ALAMO PERMIAN RESOURCES LLC

3. Address of Operator 415 W. WALL ST., SUITE 500 MIDLAND, TX 79701

4. Well Location

Unit Letter :K 2210 feet from the S line and 2135 feet from the W line

Section: 2 Township 18S Range 28E NMPM County EDDY

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3640 GR

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: PLUGBACK/ADD PAY, PERF, ACIDIZE, FRAC
☒

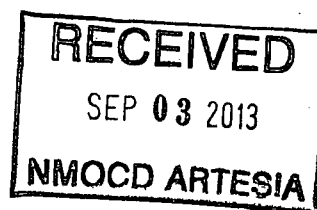
SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

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.

SEE ATTACHED



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

SIGNATURE Carie Stoker TITLE Regulatory Affairs Coordinator DATE 08/30/2013

Type or print name Carie Stoker E-mail address: carie@stokeroilfield.com PHONE: 432 664 7659

For State Use Only

APPROVED BY: J. C. Shepard TITLE "Geologist" DATE 9/3/2013 Conditions of Approval (if any):

Wellbore Information:

- 5-1/2", 17#/ft., J-55 Casing Set @ 3323' (pipe tally & CH Log)
- TOC @ Surface.
 - Gas cut cement from 2530-2570' & 2210-2300'
- PBDT @ 2686' (FC).
- Prior Perforations, Acid & Frac
 - 3/9/12
 - Perf Stage I Middle San Andres Interval
 - Top Perf 2,979'
 - Bottom Perf 3,271'
 - Total 25 intervals, 2 SPF, 50 holes, 292' overall
 - Stage I perfs 2,979 - 3,271' (50 holes)
 - Spotted 750 gals 15% NEFE.
 - Brkd @ 925# w/ pkr @ 2786'
 - Acidized w/ additional 2250 gals 15% NEFE w/ 80 BS's
 - AIR 5.1 BPM, AIP 2154#, Qmax 6.5 BPM, Pmax 5000# @ ballout
 - ISIP 1260#, 5" SIP 1195#, 10" SIP 1174#, and 15" SIP 1160#.
 - Frac Gradient using ISIP = 0.84 psi/ft., using 5" SIP = 0.82 psi/ft.
 - Swabbed 2,979 – 3,271'. FL staying @ 1400' FS w/ 5% oil cut.
 - Moved pkr to 3190' & swabbed perfs 3209 – 3271'. Swbd well down to 2800" FS w/ 20% oil cut. POOH w/ pkr & tbg. Reportedly found SICP had increased to 250#. Flowed well to TB prior to frac w/ undocumented amount of oil.
 - 4/3/12 Stage I
 - RU ProPetro and **Frac'd Middle San Andres perfs 2979' to 3271'** (50 holes) as follows:
 - 420 gals 20# Linear gel to load WB & Breakdown + 2,646 gals 20# Linear gel w/ 110 gals of scale inhibitor + 19,992 gals 20# BXL (cross linked) gel Pad + 31,108 gals 20# BXL (cross linked) gel Sand Laden Fluid + 2,772 gals 20# Linear gel flush.
 - The cross linked gel was laden with 55,820 lbs of 20/40 Brady sand pumped from 1-4 ppg at 1 lb increments followed by 25,013 lbs of 16/30 Brady sand at 5 ppg + 24,340# 16/30 SLC sand at 6 ppg.
 - AIR Pad 55 BPM, AIP 2,721 psi.
 - AIR Sand 70 BPM, AIP 2,504 psi.
 - AIR Flush 70 BPM, AIP 2,458 psi
 - Qmax 70 BPM, Pmax 2,813 psi.
 - Qmin 13 BPM, Pmin 2,458 psi
 - ISIP 1,514 psi, 5" SIP 1,283 psi, 10" SIP 1,271 psi, 15" SIP 1,267 psi.
 - Total load to recover 1,356 bbls.

764-0111

- 4/11/12
 - POP
 - Well pumped 5.0-6.7 BOPD & 90-115 BWPD from 4/19-5/15
- 5/15/12
 - Set RBP @ 3197'. Return well to pumping. Production tests perfs 2979-3168' from 5/18-6/11 at rate of 5 BOPD & 100-120 BWPD. 6/6 PIP 81#.
- 6/12/12
 - Move RBP to 3117'. Return well to pumping. Production tests perfs 2979-3090' from 6/15-7/30/12 at rate of 3.5-2.5 BOPD & 60-80 BWPD.
- 7/31/12
 - POOH w/ RBP & perform PPI acid job over pay 2979 – 3268' in 11 separate stages pumping 3,800 gals 15% HCL as follows:

Setting #	BTM Perf	Top Perf	Distance (Ft)	# holes	Acid Pumped (BBLs)	Rate (BPM)	Tbg Pressure
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1	3271	3268	4	2	7*	2	236
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2	3251	3251	1	1	3.5*	2.4	757
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3	3209	3209	1	1	3.5*	3.9	2068
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4	3168	3163	6	4	17*	3.8	2296
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Stopped using bypass and began Bull heading PW dwn tbg, ahead of acid each setting. Moving tool after displacing Acid to btm perf with PW.

5	3130	3128	3	2	7*	4.2	1032
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6	3090	3090	1	1	3.5*	4	2367
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BJ Computers went down and gauged Acid trucks while trying to reboot.
Found less acid in truck than needed to complete to procedure Spec.
Shorted Acid pumped proportionately on the remaining interval settings.

7	3082	3076	7	4	14*	4	2122
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8	3052	3044	9	5	13*	3.8	2014
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Gauged acid in truck again found BJ flow meters off and more acid pumped than reading. Flow meters not tracking acid pump accurately by almost a whole bbl more than what was on readings. Adjusted accordingly gauging acid truck after each interval pumped. Below acid volumes are based on

gauges on acid truck tank. Amounts on report are from BJ * and are from inaccurate flow meter. Below volumes are from gauges:

9	3010	3002	9	3	7	3.8	2176
10	2990	2990	1	1	7	3.7	1084
11	2979	2979	1	1	7	4.2	1947

Total Acid Pumped 90 bbls

- Returned well to pumping. Production test perms 2979 – 3268' from 8/8-10/7/12 at rate of 3.4 BOPD & 80-40 BWPD. Last test on 10/7/12 3.3 BOPD, 40 BWPD
- 10/8/12
 - Stage II
 - PB to Stage II GB-Premier, GB-Metex SS & San Andres Lovington SS.
 - Set CIBP @ 2,950' (no cement cap).
 - Perf Stage II Perf GB-Premier, GB-Metex SS & San Andres Lovington SS Middle San Andres Interval
 - Top Perf 2,415'
 - Bottom Perf 2,721'
 - Total 32 intervals, 2 SPF, 64 holes, 306' overall
 - Stage II Perfs 2,415 - 2,721' (64 holes)
 - Spotted 400 gals 15% NEFE.
 - Brkd @ 1150# w/ pkr @ 2290'
 - Acidized w/ additional 2100 gals 15% NEFE w/ 85 BS's
 - AIR 4.25 BPM, AIP 1850#, Qmax 5.0 BPM, Pmax 1600#. No ballout but good ball action.
 - ISIP 1072#, 5" SIP 905#, 10" SIP 853#, and 15" SIP 790#.
 - Frac Gradient using ISIP = 0.85 psi/ft., using 5" SIP = 0.79 psi/ft.
 - RU Cudd Pressure Pumping and fracture stimulate GB-Premier, GB-Metex SS & San Andres Lovington SS Middle pay 2,415 – 2,721' (total 64 holes) down 5-1/2" casing w/ 1,104 gals 2% Pre-Pad + 23,436 gals 20# Linear Gel + 121 tons CO2 carrying 96,684# 20/40 Brady Sand stepped from 1-5 ppg + 2352 gals 20# Liner Gel Flush down 5-1/2" casing.
 - following:
 - Pad AIR 48 BPM, Pavg 1,950 psi, Qmax 55.0 BPM, Pmax 2,200 psi
 - Sand AIR 50 BPM, Pavg 2,150 psi, Qmax 54.0 BPM, Pmax 2,198 psi
 - Flush AIR 44 BPM, Pavg 2,190 psi, Qmax 46.0 BPM, Pmax 2,218 psi
 - Sand
 - 96,684# 20/40 Brady (proposed 91,500#)
 - Renegade tagged the 1-5 ppg sand w/ 28 mCi Sc-46.
 - CO2

- 121 tons DH + 10 tons cool down. Planned volume was 111.5 tons CO₂ DH.
- ISIP 1,623 psi, 5" SIP 1,491 psi, 10" SIP 1,456 psi, 15" SIP 1,432 psi
- LTR = 660 bbls

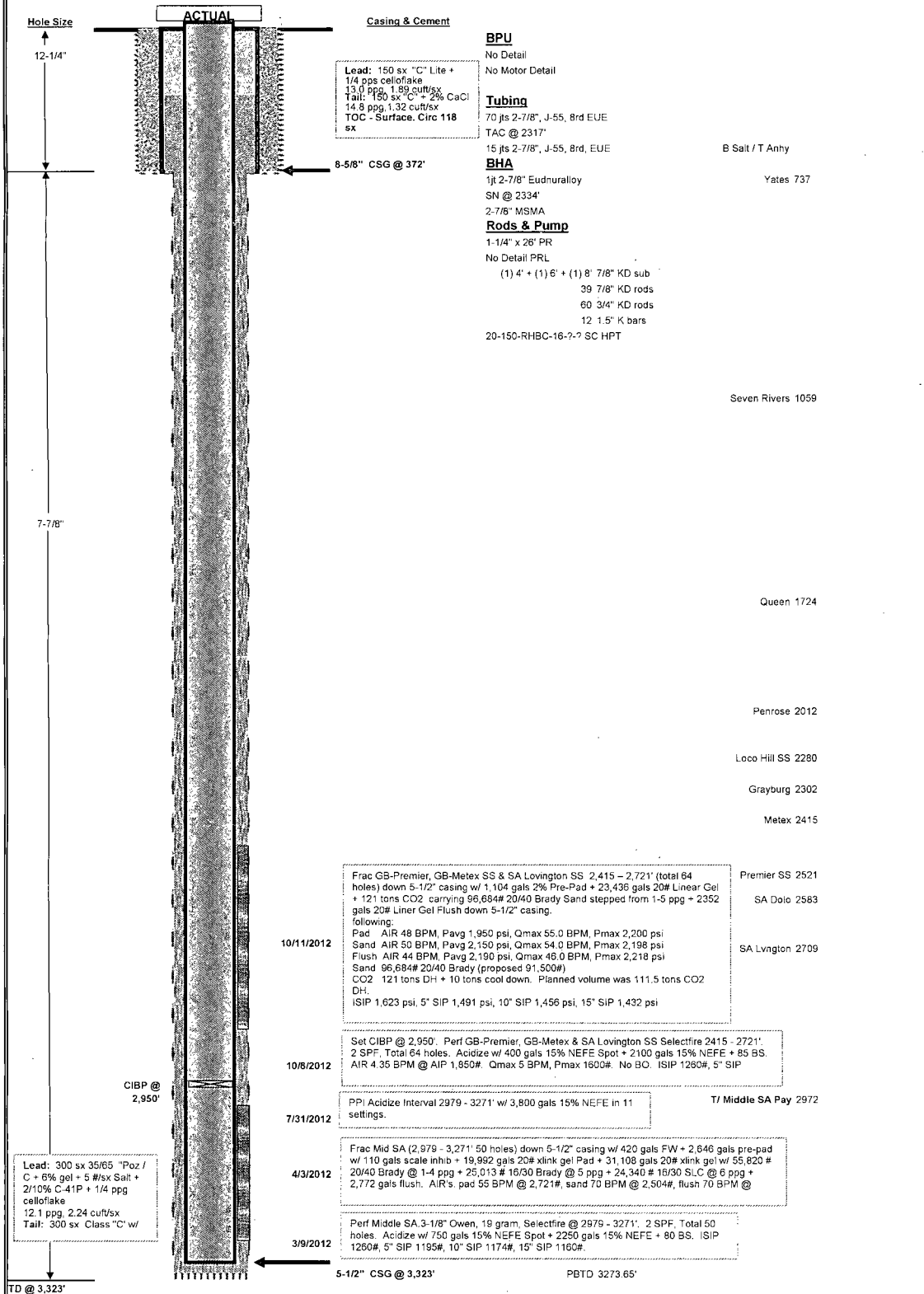
Procedure to PB & Add Queen - Penrose Intervals 1,809 – 2,188'

Stage III

1. MIRU WSU.
2. Unhang HH, unseat pump & POOH w/ rods & pump.
3. NDWH, release TAC & NUBOP. POOH w/ production tbg & BHA.
4. RU E-Line
5. **RU pack off on BOP, PU guns and perforate Queen - Penrose Intervals 1,809 – 2,188' w/ 3-1/8" Slick guns w/ 2 SPF per the detailed perforation sheet.**
Total 26 intervals, 379' gross interval, 52 holes. RD E-Line.
6. PU 5-1/2" RBP & 5-1/2" x 2-7/8" treating packer & RIH on 2-7/8" production tbg to 2,330'.
Hydrotest tbg in hole.
7. Set RBP @ 2,330' (collars @ 2,300-' & 2,342'). PU 1 jt & set pkr. RU on tbg & RBP to 1500#.
8. Release pkr & circulate WB clean w/ 2% KCL wtr. Spot 2 sx sand on top of RBP.
9. PUH to ±2,190' w/ pkr swinging.
10. RU Acid Company & spot 500 gals 15% NEFE from 2,190' to 1,678'. PUH w/ pkr to 1,650'. Set pkr & RU on tubing.
11. Brkd perfs 1,809 – 2,188' w/ 500 gals spot acid + 1,750 gals additional 15% NEFE dropping 80 7/8" RNCB's. Flush to bottom perf w/ 2% KCl wtr.
12. RD Acid Company and let acid spend for min 3 hrs.
13. RU swab and swab / flow well to ½ frac FBT.
14. **After swab results will either elect to:**
 - a. Run production tubing, pump & rods and test pump well to TB, or
 - b. LD tubing & RU to frac interval down 5-1/2" casing.

**Alamo Permian Resources
Actual Wellbore Diagram**

WELL NAME:	Featherstone State B #5		FIELD:	Artesia (Queen-Grtg-San Andres)		
LOCATION:	2185' FSL & 2135' FWL, Sec 2, T-18-S, R-28-E, Unit Letter K		COUNTY:	Eddy	STATE:	NM
ELEVATION:	GL = 3640'; KB = 3648 (8' KB Corr)	Lat 32.775791 N, Long 104.147975 W	SPUD DATE:	12/26/2012	COMP DATE:	
API#:			PREPARED BY:	M Stewart		
	DEPTH	HOLE SIZE	SIZE	WEIGHT	GRADE	THREAD
CASING:	372	12-1/4"	8-5/8"	24 #	H-40	ST&C
CASING:	3323	7-7/8"	5-1/2"	17 #	J-55	ST&C
CASING:						
TUBING:						
TUBING:						



Alamo Permian Resources
Proposed Add Queen-Penrose Pay Wellbore Diagram

WELL NAME:	Featherstone State B #5			FIELD:	Artesia (Queen-Grbg-San Andres)		
LOCATION:	2185' FSL & 2135' FWL, Sec 2, T-18-S, R-28-E - Unit Letter K			COUNTY:	Eddy	STATE:	NM
ELEVATION:	GL = 3640'; KB = 3648 (8' KB Corr)			SPUD DATE:	12/26/2012	COMP DATE:	
API#	Lat 32.775791 N, Long 104.147975 W			PREPARED BY:	M Stewart		
	DEPTH	HOLE SIZE	SIZE	WEIGHT	GRADE	THREAD	CEMENT / TOC
CASING:	372	12-1/4"	8-5/8"	24 #	H-40	ST&C	150 sx lead, 150 sx tail; Surface
CASING:	3323	7-7/8"	5-1/2"	17 #	J-55	ST&C	300 sx lead, 400 sx tail; 190' CBL
TUBING:							
TUBING:							

