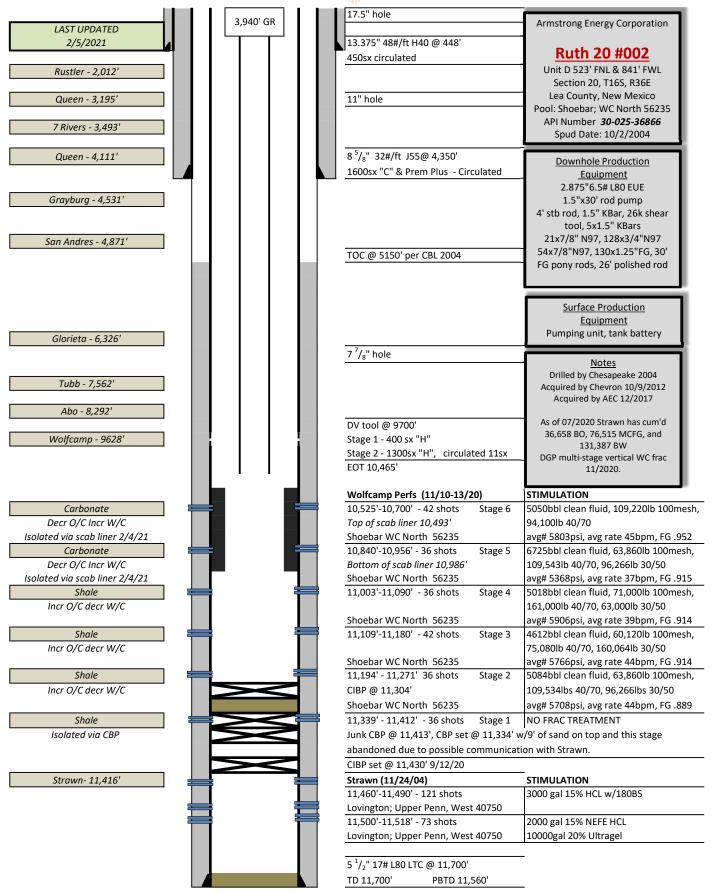
eceined by Opp P: Appropriate District 2.	Didic of New Me		1 OIIII C 1	gge 1 oj
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources		Revised July 18, 2 WELL API NO.	2013
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION	DIVISION	30-025-36866	
<u>District III</u> – (505) 334-6178	1220 South St. Fran	icis Dr.	5. Indicate Type of Lease  STATE X FEE	
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460	Santa Fe, NM 87	505	6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505				
SUNDRY NOTICES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Nam	ne	
(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		Ruth 20		
PROPOSALS.)		8. Well Number #2		
1. Type of Well: Oil Well X Gas Well Other  2. Name of Operator		9. OGRID Number		
Armstrong Energy Corporation		1092		
3. Address of Operator		10. Pool name or Wildcat		
PO Box 1973, Roswell, NM 88202-1973		Shoebar, Wolfcamp, North		
4. Well Location Unit Letter D	523 feet from the NORT	H line and	841 feet from the WEST lin	ine
Section 20		nge 36 E	NMPM County LEA	ile
Section 20	11. Elevation (Show whether DR,	•		
	3940 GR			
12. Check	Appropriate Box to Indicate Na	ature of Notice,	Report or Other Data	
NOTICE OF I	NTENTION TO:	SUB	SEQUENT REPORT OF:	
PERFORM REMEDIAL WORK		REMEDIAL WOR		
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	LLING OPNS.□ P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	T JOB	
DOWNHOLE COMMINGLE				
CLOSED-LOOP SYSTEM  OTHER:		OTHER:	1	П
	oleted operations. (Clearly state all r	· · · · — · · ·	d give pertinent dates, including estimated	l date
of starting any proposed w	ork). SEE RULE 19.15.7.14 NMAC		mpletions: Attach wellbore diagram of	
proposed completion or re	completion.			
	**PLEASE SEE	ATTACHED *:	ķ.	
	""PLEASE SEE	ATTACHED		
Spud Date: 10/2/2004	Rig Release Da	te: 11/1/2004		
I hereby certify that the information	above is true and complete to the be	est of my knowledge	e and helief	—
Thereby certify that the information	above is true and complete to the be	est of my knowledge	and benefit.	
SIGNATURE Kyle Al	pers TITLE VP En	gineering_	DATE02/09/2021_	
True on maint V-1 A1	T	ra la ausc	DHONE. 575 (25 2222	
For State Use Only	E-mail address: <u>k</u>	aipers@aecnm.com	PHONE: <u>575-625-2222</u>	-
APPROVED				
	TITLE		DATE Condition	ons
of Approval (if any):				

- 11/9/20 RU Flying A frac crew, FB equipment, etc.
- Load casing, test casing, flange, FB equip. PU guns and TIH, tag CIBP @ 11,430', pick up and shoot stage 1 with 3 1/8" guns, 6spf, 60° phasing, 1' guns, 36 shots: 11412', 11404', 11387', 11370', 11357', 11339'. Test injection rate into perfs, broke down @ 4200psi, suspect bottom perfs.
- TIH and tag CIBP @ 11,430', still there. Set CBP @ 11,365' between 4<sup>th</sup> and 5<sup>th</sup> set of stage 1 perfs. TOOH and load hole. Pressure up to 4215psi and lost pressure again. PU another CBP and TIH, tag CBP low @ 11,413' (just below lowest perf). Set CBP @ 11334', above shallowest stage 1 perf, TOOH. RU WL and dump bail 9' of sand on top of CBP, TOOH, redress bailer, and TIH and dump 12' cement on top of sand. TOOH and repeat with 12' more cement. TOOH.
- RU WL and RIH w/CIBP & 6x1' guns. Tag @ 11,304', perf 11255', 11237', 11214', 11205' & 11194'. TOOH & verify all guns fired. Open well for stage 2 frac. Frac stage 2 w/286,400lb total proppant and 5,084bbl clean fluid. Avg # 5708psi, avg rate 44bpm. ISIP 5128, 5min 4879, 10min 4838, 15min 4811. LLTR after stage 2 5133bbl. RU WL w/RPPSE 438PSX frac plug and 7x1' guns, 6spf 60° phasing. Set frac plug @ 11,189', test, and perf stage 3: 11,180', 11169', 11159', 11150', 11141', 11125', 11109'. TOOH, verify all shots fired. Open well for stage 3 frac. Frac stage 3 w/295,200lbs proppant and 4612bbl clean fluid. Avg # 5766psi, avg rate 44bpm. ISIP 5365, 5min 5135, 10min 5101. LLTR after stage 3 -9745bbl. RU WL w/frac plug and 6x1' guns, set frac plug @ 11101', test and perforate stage 4 @ 11090', 11079', 11042', 11027', 11012', 11003'. POOH verify all shots fired, open well for stage 4 frac. Frac stage 4 with 295,340lbs proppant and 5018bbl clean fluid. Avg # 5906psi, avg rate 39bpm. ISIP 6103, 5min 5709, 10min 5587, 15min 5516. LLTR after stage 4 14763bbl. RU WL & RIH w/frac plug and 6x1' guns. Set frac plug @ 10980' and test, perf stage 5 @ 10956', 10910', 10890', 10875', 10857', 10840'. POOH verify all shots fired. Secure well and SD.
- Open well for stage 5 frac. Frac stage 5 w/241920lbs proppant and 6725bbl clean fluid. Avg # 5368psi, avg rate 37bpm. ISIP 5263, 5min 4872, 10min 4784, 15min 4751. RU WL RIH w/frac plug and 6x1' guns. Set frac plug @ 10750', test, and perf stage 6 @ 10700', 10666', 10597', 10581', 10568', 10525'. POOH & verify all shots fired, open well for stage 6 frac. Frac stage 6 w/203320lbs proppant and 5050bbl clean fluid. Avg# 5803psi avg rate 45bpm. ISIP 5516, 5min 5168. LLTR after stage 6 27388bbl. RD and release frac crew, ND crown valve and goat head. Secure well, SD for night.
- 11/14/20 RU CT and drill out frac plugs.
- 11/15-25/20 Flowback and swab test well, put on rod pump. Discuss completion and allowable filings with Paul Kautz OCD via phone call, he indicated to wait until all testing was done.
- 11/26/20 1/11/21 Production test well, analyze tracer return data from frac. Determined that upper two stages were contributing excessive water and their contributed oil cut was decreasing over time. Decision made to isolate upper two stages and produce lower three. Initial plan is to pump under a packer to verify before semi-permanently isolating upper stages with dual packer scab liner assembly.
- 1/12/21 RU PU TOOH w/pump and rods. SDFN.
- 1/13/21 ND WH, release TAC, NU BOP, TOOH w/2 7/8" tubing. TIH w/4 ¾" roller cone and casing scraper. Secure well, SDFN.
  1/14/21 TIH to 11,000', no obstructions, TOOH and LD bit and scraper, PU 5 ½" Arrowset packer with on/off tool, SN w 12' gas
  - anchor and TIH. ND BOP, set packer and NU WH. Bottom of packer @ 10979'. NU pumping tee, secure well, SDFN.
- 1/15/21 TIH w/pump and rods, connect surface equipment, hang head on, long stroke and space out. Release rig and RD PU.
- 1/16-27/21 Pump test lower three intervals under packer, verify validity of isolating upper two stages, make decision to isolate Stages 5 & 6 with dual packer scab liner.
- 1/28/21 MIRU PU, prep to pull rods. TOOH w/rods and pump, send pump to shop. Prep to pull tbg and ND WH. NUBOP, NU rig floor, secure well SDFN.
- 1/29/21 Release packer and TOOH w/tbg and packer. Tally 4" 10.46# L80 FJ4 scab liner. MIRU casing crew. PU bottom packer, XO & 1 jt 4" casing. Rig crew damaged connection on XO. W/O new XO & SDFD.
- 1/30/21 SDFW 1/31/21 SDFW
- 2/1/21 RU casing crew, NU bottom scab liner packer, XO, 13 jts 4" casing, XO & upper liner packer. PU and begin RIH with scab liner assembly. While running in, collar hung up in casing head, jarred, and release liner, dropping it to bottom of the well. TIH w/tbg to fish liner, retrieve with no damage, break out packers and send off for new elements. SDFN.
- 2/2/21 PU packers and liner and RIH on tubing, total length of liner 487.33'. Set lower and upper packers, release from liner. SDFN.
- 2/3/21 MIRU tbg test and kill truck. TIH w/2 7/8" tubing testing going in. PU two extra jts to tag liner, tag @ 10490.82'.

  Middle of top packer element @ 10493.02', middle of bottom packer element @ 10986.47'. Bottom of packer @ 10989.17'. LD two tag joints, ND 10k tbg head, install 5k tbg head. Set TAC w/18pts tension, SN @ 10303.17' and EOT @ 10465.15'. NU flange and prep to run pump & rods. Secure well, SDFN.
- 2/4/21 PU & RIH w/pump & rods, space out, ND rod equipment. NU FL to WH, hang on & start pump jack. RDMO pulling unit.





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

CONDITIONS

Action 26385

## **CONDITIONS**

Operator:	OGRID:
ARMSTRONG ENERGY CORP	1092
P.O. Box 1973	Action Number:
Roswell, NM 88202	26385
	Action Type:
	[C-103] Sub. Workover (C-103R)

## CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	6/2/2021