eceined by Och: Appropriate Distret			Form C-1033 of 7
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources		Revised July 18, 2013  WELL API NO. 30-025-36866
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION		5. Indicate Type of Lease
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fran		STATE X FEE
<u>District IV</u> – (505) 476-3460	Santa Fe, NM 8'	7505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			
SUNDRY NO	TICES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name
(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	
Type of Well: Oil Well      Name of Operator	Gas Well Other		9. OGRID Number
2. Name of Operator Armstroi	ng Energy Corporation		9. OGRID Nulliber 1092
3. Address of Operator	0 0/		10. Pool name or Wildcat
	1973, Roswell NM 88202		Shoebar, Wolfcamp, North
4. Well Location	522		W
Unit Letter D	: 523 feet from the North	line and <u>84</u>	
Section 20		ange 36E	NMPM County Lea
	11. Elevation (Show whether DR 3940 GR	, KKB, KI, GK, etc.	,
12. Check	Appropriate Box to Indicate N	ature of Notice,	Report or Other Data
	11 1	•	•
NOTICE OF I PERFORM REMEDIAL WORK	NTENTION TO:    PLUG AND ABANDON   X	REMEDIAL WOR	SEQUENT REPORT OF:  K □ ALTERING CASING □
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	
PULL OR ALTER CASING		CASING/CEMEN	<del>_</del>
DOWNHOLE COMMINGLE			
CLOSED-LOOP SYSTEM CTHER:	]	OTHER:	
	pleted operations. (Clearly state all		d give pertinent dates, including estimated date
of starting any proposed w	vork). SEE RULE 19.15.7.14 NMA		mpletions: Attach wellbore diagram of
proposed completion or re	completion.		
	nd cap with 25 sx cement, WOC & ta	ag	
<ol> <li>Spot 25 sc plug @ 9,5</li> <li>Spot 25 sx plug @ 8,7</li> </ol>	` <b>1</b> /		
4. Spot 25 sx plug @ 6,2	276 (Glorieta)		
5. Set 40 sx plug throug			
1 0 0	h perforations @ 1,962 (Top of Salt) h perforations @ 498 WOC & TA	WOC & TAG	
7. Set 40 sx plug throug P&A8. Set Surface plug, 150	a porteruorene 🌚 .5 c	G	
1 0	er (4" diameter, 4' tall above ground)		
•	, , ,		See Attached
			Conditions of Approval
Spud Date: 10/2/2004	D's Dalace D	11/1/2004	• ***
Spud Date: 10/2/2004	Rig Release Da	ate: 11/1/2004	
	<del> </del>		
Lhereby certify that the information	n above is true and complete to the b	est of my knowledg	e and belief
- 110100g 001011g 01100 0110 1111011111010		est of my mis wrong	
			0/10/2022
SIGNATURE ( ) effery	TITLE (	Operations Engir	neerDATE8/19/2022
Type or print name <u>Jeffery To</u>	ew E-mail addres	s: _jtew@aecnm	n.com PHONE: 575-625-2222
For State Use Only			
ADDROVED BY	1.15.	000000000	A DATE 0/04/00
APPROVED BY: Conditions of Approval	FortherTITLE_ Con	speake offer	LU #DATE <u>8/24/22</u>

# CONDITIONS OF APPROVAL FOR PLUGGING AND ABANDONMENT OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, Notify NMOCD District Office I (Hobbs) at (575)-263-6633 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down.

# Company representative will be on location during plugging procedures.

- **1.** A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
- **2.** Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
- **3.** Trucking companies being used to haul oilfield waste fluids to a disposal commercial or private- shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
- 4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
- **5.** A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can +be released.
- **6.** If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
- 7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
- **8.** Produced water will not be used during any part of the plugging operation.
- 9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
- **10.** All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
- 11. Class 'C' cement will be used above 7500 feet.
- 12. Class 'H' cement will be used below 7500 feet.
- **13.** A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
- **14.** All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.
- **16.** When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
- 17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
- **18.** A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).

- 19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
- 20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
- A) Fusselman
- B) Devonian
- C) Morrow
- D) Wolfcamp
- E) Bone Springs
- F) Delaware
- G) Any salt sections
- H) Abo
- I) Glorieta
- J) Yates.
- K) Potash---(In the R-111-P Area (Potash Mine Area),

A solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.

**21.** If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing.

# DRY HOLE MARKER REQ.UIRMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

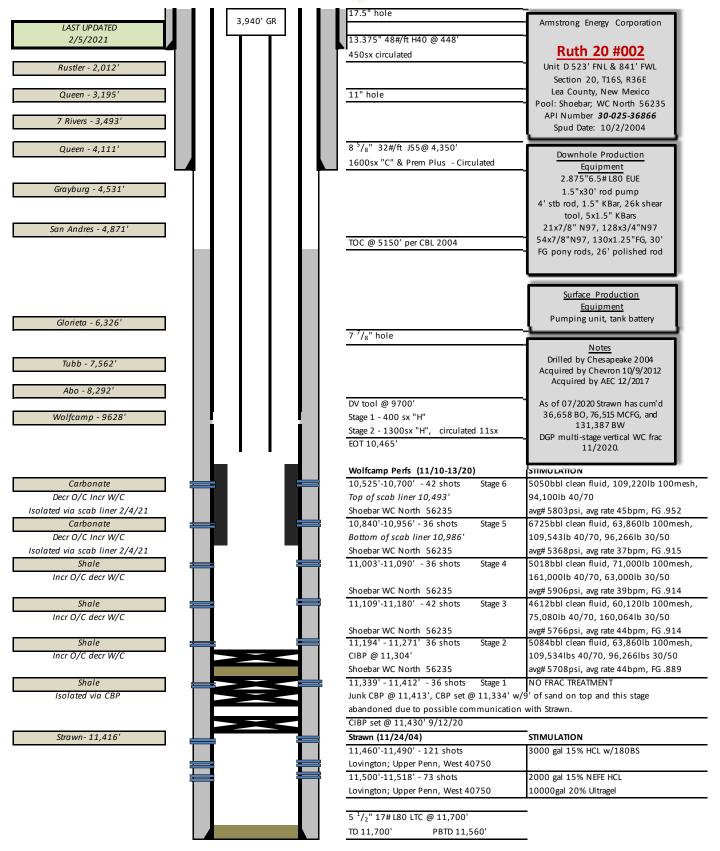
- 1. Operator name
- 2. Lease and Well Number
- 3. API Number
- 4. Unit letter
- 5. Quarter Section (feet from the North, South, East or West)
- 6. Section, Township and Range
- 7. Plugging Date
- 8. County

## SPECIAL CASES ----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

#### SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION







	2.040 .00		17.5" hole	
LAST UPDATED	3,940' GR		Proposed - 40sx cement plug through	Armstrong Energy Corporation
8/19/2022			perforations @ 498	
			13.375" 48#/ft H40 @ 448' 450sx circulat	Ruth 20 #002
			Proposed - 25sx cement plug through	Unit D 523' FNL & 841' FWL
Rustler - 2,012'			perforations @ 1,962	Section 20, T16S, R36E
Queen - 3,195'			11" hole	Lea County, New Mexico
Queen 3,193			II Hole	Pool: Shoebar; WC North 56235
7 Rivers - 3,493'				API Number <b>30-025-36866</b>
7 KIVEIS - 3,493				Spud Date: 10/2/2004
0 1111			0.5/ 11 2211/6 155 0.4 2501	
Queen - 4,111'			8 <sup>5</sup> / <sub>8</sub> " 32#/ft J55@ 4,350'	<u>Downhole Production</u>
			1600sx "C" & Prem Plus - Circulated	<u>Equipment</u>
			Proposed - 40sx cement plug through	2.875"6.5# L80 EUE
Grayburg - 4,531'			perforations @ 4,400	1.5"x30' rod pump
				4' stb rod, 1.5" KBar, 26k shear
				tool, 5x1.5" KBars
San Andres - 4,871'				21x7/8" N97, 128x3/4"N97
·			TOC @ 5150' per CBL 2004	54x7/8"N97, 130x1.25"FG, 30'
				FG pony rods, 26' polished rod
			Proposed - Spot 25sx cement @ 6,276	Surface Production
		4	above Glorieta	<u>Equipment</u>
Glorieta - 6,326'				Pumping unit, tank battery
2,000			7 <sup>7</sup> / <sub>8</sub> " hole	
			Proposed - Spot 25sx cement @ 8,242	<u>Notes</u>
Tubb - 7,562'			above ABO	Drilled by Chesapeake 2004
1000 - 7,302			Proposed - Spot 25sx cement @ 9,578	Acquired by Chevron 10/9/2012
Ab - 0.2021				Acquired by AEC 12/2017
Abo - 8,292'			above Wolfcamp	As of 07/2020 Strawn has cum'd
W If 05201			DV tool @ 9700'	36,658 BO, 76,515 MCFG, and
Wolfcamp - 9628'			Stage 1 - 400 sx "H"	131,387 BW
		_	Stage 2 - 1300sx "H", circulated 11sx	DGP multi-stage vertical WC frac
Proposed CIBP @ 10,475 W/ 25sx			EOT 10,465'	11/2020.
cmt on top				
			Wolfcamp Perfs (11/10-13/20)	STIMULATION
Carbonate			10,525'-10,700' - 42 shots Stage 6	5050bbl clean fluid, 109,220lb 100mesh
Decr O/C Incr W/C			Top of scab liner 10,493'	94,100lb 40/70
Isolated via scab liner 2/4/21			Shoebar WC North 56235	avg# 5803psi, avg rate 45bpm, FG .952
Carbonate			10,840'-10,956' - 36 shots Stage 5	6725bbl clean fluid, 63,860lb 100mesh,
Decr O/C Incr W/C			Bottom of scab liner 10,986'	109,543lb 40/70, 96,266lb 30/50
Isolated via scab liner 2/4/21			Shoebar WC North 56235	avg# 5368psi, avg rate 37bpm, FG .915
Shale			11,003'-11,090' - 36 shots	5018bbl clean fluid, 71,000lb 100mesh,
Incr O/C decr W/C			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	161,000lb 40/70, 63,000lb 30/50
mer of e deer vv/c			Shoebar WC North 56235	avg# 5906psi, avg rate 39bpm, FG .914
Shale			11,109'-11,180' - 42 shots Stage 3	4612bbl clean fluid, 60,120lb 100mesh,
Incr O/C decr W/C			11,103 -11,100 - 42 311013 31age 3	75,080lb 40/70, 160,064lb 30/50
mer of Cueer W/C			Shoobar MC North 50335	
			Shoebar WC North 56235	avg# 5766psi, avg rate 44bpm, FG .914
			11,194' - 11,271' 36 shots Stage 2	5084bbl clean fluid, 63,860lb 100mesh,
Shale Shale				
Incr O/C decr W/C			CIBP @ 11,304'	109,534lbs 40/70, 96,266lbs 30/50
Incr O/C decr W/C			Shoebar WC North 56235	avg# 5708psi, avg rate 44bpm, FG .889
			Shoebar WC North 56235 11,339' - 11,412' - 36 shots Stage 1	avg# 5708psi, avg rate 44bpm, FG .889 NO FRAC TREATMENT
Incr O/C decr W/C			Shoebar WC North 56235	avg# 5708psi, avg rate 44bpm, FG .889 NO FRAC TREATMENT
Incr O/C decr W/C Shale			Shoebar WC North 56235 11,339' - 11,412' - 36 shots Stage 1	avg# 5708psi, avg rate 44bpm, FG .889  NO FRAC TREATMENT  //9' of sand on top and this stage
Incr O/C decr W/C Shale			Shoebar WC North 56235 11,339' - 11,412' - 36 shots Stage 1 Junk CBP @ 11,413', CBP set @ 11,334' w	avg# 5708psi, avg rate 44bpm, FG .889  NO FRAC TREATMENT  //9' of sand on top and this stage
Incr O/C decr W/C Shale Isolated via CBP			Shoebar WC North 56235  11,339' - 11,412' - 36 shots	avg# 5708psi, avg rate 44bpm, FG .889  NO FRAC TREATMENT  //9' of sand on top and this stage on with Strawn.
Incr O/C decr W/C Shale			Shoebar WC North 56235  11,339' - 11,412' - 36 shots	avg# 5708psi, avg rate 44bpm, FG .889  NO FRAC TREATMENT  //9' of sand on top and this stage on with Strawn.  STIMULATION
Incr O/C decr W/C  Shale Isolated via CBP			Shoebar WC North 56235  11,339' - 11,412' - 36 shots	avg# 5708psi, avg rate 44bpm, FG .889  NO FRAC TREATMENT  //9' of sand on top and this stage on with Strawn.
Incr O/C decr W/C  Shale Isolated via CBP			Shoebar WC North 56235  11,339' - 11,412' - 36 shots	avg# 5708psi, avg rate 44bpm, FG .889  NO FRAC TREATMENT  //9' of sand on top and this stage on with Strawn.  STIMULATION  3000 gal 15% HCL w/180BS
Incr O/C decr W/C  Shale Isolated via CBP			Shoebar WC North 56235  11,339' - 11,412' - 36 shots	avg# 5708psi, avg rate 44bpm, FG .889  NO FRAC TREATMENT  //9' of sand on top and this stage on with Strawn.  STIMULATION  3000 gal 15% HCL w/180BS
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 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** 

COMMENTS

Action 136079

## **COMMENTS**

Operator:	OGRID:
ARMSTRONG ENERGY CORP	1092
P.O. Box 1973	Action Number:
Roswell, NM 88202	136079
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

#### COMMENTS

Created By		Comment Date
plmartinez	DATA ENTRY PM	8/24/2022

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Created By		Condition Date
kfortner	See attached COA	8/24/2022