District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

## **State of New Mexico**

Form C-101 Revised July 18, 2013

## **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

☐AMENDED REPORT

,,	CATIC		` `D DI	т тіма	ות פי	) 11 G	DE_EN	TED NI	FEDEN	DI LICRAC	'¥ OI	זמג ם	) A ZONE
APPLICATION FOR PERMIT TO DRILL, RE-EN Operator Name and Address						IER, DI	LEFEIT,	OGRID Number					
PO Box	Armstrong Energy Corporation PO Box 1973, Roswell NM 88202							•			3 API Number		
							Property Na	lame		30-025-3692		6. We	ell No.
33688			Hilbu	m							004		
		<del></del>			<del></del>		urface Lo				T		1
C UL - Lot	Section 13	Towns 16S	ship 35	Range 5E	Lot Idn Feet from 335		Nor		Feet From 1738	West	V Line t	Lea	
		T			T		1	n Hole Loc			Т		T
UL - Lot	Section	Towns	hip	Range	Lot ldn Fee		Feet fro	N mx	I/S Line	Feet From	E/W	V Line	County
						9. Pc	ool Inforn	mation					
Shoe Bar;	Wolfcar	mp, No	orth				l Name	Hacivi.					Pool Code 56295
						ddition	al Well I	nformation					
P ". Worl	к Туре	О		12 Well Type		R	13. Cable/Ro	The state of the s		14 Lease Type	39	13 Grou 169' GF	und Level Elevation
N 16 Mu	iltiple			Proposed Depth		Wolfc	18. Formati camp	tion		19 Contractor 20 Spud Date 11/5/04			
Depth to Grou	nd water			Dista	nce from	nearest	fresh water v	well		Distance	to neares	st surface	water
☐We will be	using a	closed-l	oop sys	tem in lieu of	f lined	pits							
				21.	Propo	sed Ca	sing and	Cement Pr	ogram	<u> </u>			
Туре	Hol	le Size	Ca	asing Size	С	asing We	eight/ft	Settin	Setting Depth Sacks of Cement Estima		Estimated TOC		
Surface	17.5	5" 	13.3	375"	48#			445' 402sx 0'					
Int	11"		8.62	.5"	32#			4334'	4334' 1140sx			0'	
Production	n 7.87	'5"	5.5"		17#	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			321sx		93	36'	
Plugback,	casing		m is ir		ig/Cen	ient Pr	ogram: A	Additional (	Comment	:s			
r lugbaon,	<u> </u>	Jiogic	111 10 11	•									
								evention Pr			Т		
3 1 0	Type			<del> </del>	Working Pressure			Test Pressure		Ma	ınufacturer		
Annular &	Double	Ram		5000				5000					
				iven above is t	rue and	complete	e to the		OII.	CONSERVA	TION	DIVISI	IONI
best of my knowledge and belief.  I further certify that I have complied with 19.15.14.9 (A) NMAC and/or				l and/or									
19.15.14.9 (B) NMAC , if applicable. Signature: Kyle Alpers						Approved By:							
Printed name:	Kyle A	Ipers	0					Title:					
	Title: VP Engineering						Approved D	Date: 12/	/01/2020 E	Expiration	n Date:	12/01/2022	
E-mail Addres	ss: kalpe	ers@a	ecnm	.com									
Date: 11/6/	Date: 11/6/20 Phone: 575-625-2222					Conditions of	of Approval	Attached			<del> </del>		

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

## State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☑ AMENDED REPORT

(Plugback and add Wolfcamp)

	WELL LOCATION AND	ACREAGE DEDICATION PLAT		
<sup>1</sup> API Number	<sup>2</sup> Pool Code	<sup>2</sup> Pool Code <sup>3</sup> Pool Name		
30-025-36923	56295	Shoe Bar; Wolfcamp, North		
		operty Name Hilburn	<sup>6</sup> Well Number	
33688		4		

8 Operator Name OGRID No. <sup>9</sup> Elevation 1092 **Armstrong Energy Corporation** 3969 Surface Location East/West line UL or lot no. Section Township Feet from the Range Lot Idn North/South line Feet from the County 13 **16S** 35E 335' North 1738' Lea West С "Bottom Hole Location If Different From Surface UL or lot no. Feet from the North/South line East/West line Section Township Range Lot Idn Feet from the County 12 Dedicated Acres <sup>13</sup> Joint or Infill 14 Consolidation Code 15 Order No. 160

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

1	335.		"OPERATOR CERTIFICATION
	<u>ل</u> ا		I hereby certify that the information contained herein is true and complete
1738'	<b>*</b>		to the best of my knowledge and belief, and that this organization either
1/38			owns a working interest or unleased mineral interest in the land including
			the proposed bottom hole location or has a right to drill this well at this
Lat: N32 55' 42.1"	411		location pursuant to a contract with an owner of such a mineral or working
Long: W103 24' 50.4	4"	,	interest, or to a voluntary pooling agreement or a compulsory pooling order
			heretofore entered by the division.
			Kyle Alpers 11/9/20
			Signorure Date
			Kyle Alpers
			Printed Name
			kalpers@aecnm.com
			E-mail Address
			*SURVEYOR CERTIFICATION
			I hereby certify that the well location shown on this plat
			was plotted from field notes of actual surveys made by
			me or under my supervision, and that the same is true
			and correct to the best of my belief.
			7/7/04
			Date of Survey
			Signature and Seal of Professional Surveyor:
			Original survey by Cary I Jones
			Original survey by Gary L. Jones #7977 is on file with NMOCD
			Certificate Number



Hilburn #4 API 30-025-36923 Section 13 T16S R35E 335' FNL & 1738' FWL Lea County, NM

## Anticipated Plugback and Stimulation Procedure.

- 1. SI well, MIRU pulling unit, blow down if necessary.
- 2. Disconnect surface equipment and prepare wellhead for removal, kill well with brine if needed.
- 3. ND wellhead and NU BOP. Test BOP.
- 4. Unseat packer and TOOH w/2.875" tubing, testing on way out, LD bad joints, tally and PU replacement joints as necessary.
- 5. TIH w/tbg, 4 ¾" bit & scraper, clean down to just above existing perfs @ 11,332'.
- 6. MIRU WL, run casing integrity log.
- 7. WL set CIBP @ 11,300', dump bail 20' cement on plug. RDWL. ND BOP.
- 8. Install 10k frac tree/test day prior to frac fleet arrival
- 9. MIRU tanks, water transfer, frac, and wireline
- 10. Perform perforations and fracturing procedure as per design on the following intervals:

Top Perf	Bottom Perf	No. of Holes	
10,096'	10,283'	18	
10,632'	10,707'	30	
10,736'	10,836′	30	
10,842'	10,955'	30	
10,990'	11,062′	36	
11,088'	11,201'	36	

- 11. RDMO frac equipment, WL, and unnecessary tanks for drillout
- 12. RD crown valve and goat head
- 13. MIRU and test 2 3/8" CT w/mechanical connection
- 14. RU mechanical coil connector, dual BP valve, hydraulic disconnect, motor, 4 3/4" bit
- 15. Drill out frac plugs (circulating), tag TOC above strawn plug @~11,300', circulate bottoms up, TOOH
- 16. RDMO CT unit
- 17. MIRU WL, set Arrowset packer with burst disc and on/off tool @ 10,700'
- 18. RDMO WL, frac tree
- 19. MIRU BOP and WO rig, test BOP and accumulator
- 20. RIH w/tubing/SN, sting into packer
- 21. Space out tubing, ND BOP, NU wellhead/production tree
- 22. RDMO pulling unit, clean location
- 23. MIRU flowback equipment (choke manifold, sand knockout, etc.), capable of RDMO w/out SI
- 24. Proceed with natural flowback, assess production for economics and install of artificial lift.



	3,969' GR	17.5" hole	
LAST UPDATED	100		Armstrong Energy Corporation
10/21/2020		13.375" 48#/ft H40 @ 445'	Hilburn 004
		402sx, circulated	UL C, 335' FNL & 1738' FWL
			Section 13, T16S, R35E
Yates - 3,107'		11" hole	Lea County, New Mexico
			API Number 30-025-36923
7 Rivers - 3,394'			Spud Date: 11/5/04
Queen - 4,006'		8 <sup>5</sup> / <sub>8</sub> " 32#/ft J55@ 4334'	
Queen - 4,000		1140sx POZC, Circ	
		,12103/61020/0110	Downhole Production
Grayburg - 4,407'			Equipment
	1 1		2.875"6.5# Unknown grade/threads
San Andres - 4,757'	1 11		
Glorieta - 6,303'			Surface Production Equip
Cicricia 0,505			3x300bbl steel flat bottom circa
			2004, 30x10 125psi WP Permian 2 phase
Tubb - 7,803'		V	separator
		7 <sup>7</sup> / <sub>8</sub> " hole	5000#tbg head, 3000# hanger flange
1			
1			Notes
			Drilled by Chesapeake 11/04
			Acquired by Chevron 10/3/12 Acquired by AEC 11/30/17
Al pool			
Abo - 8,226'			As of 8/2020 the Strawn has cum'd 44,846 BO; 168,435 MCFG; and
			156,005 BW
<u> </u>		TOC @ 9,336' per CBL 12/11/04	
Wolfcamp - 9,640'			
125			
is a second of the second of t			
Penn - 10,939'			
FEIIII - 10,333			
Strawn- 11,326'			
		Strawn (03/16/00)	STIMULATION
The state of the s		11,332'-11,414' - 128 shots	5,000 gal 15% NEFE
		Shoebar; Strawn, North 56270	10,000 gal 20% Ultragel
		5 <sup>1</sup> / <sub>2</sub> " 17# S95 & L80 LTC @ 11,500'. C	emented with 321sx POZ H
		TD 11,500' PBTD 11,404'	



		Till &	
LACTURDATED	3,969' GR	17.5" hole	Armstrong Energy Corporation
LAST UPDATED 10/21/2020		13.375" 48#/ft H40 @ 445'	
PROPOSED WELLBORE DIAGRAM		402sx, circulated	Hilburn 004
			UL C, 335' FNL & 1738' FWL
Yates - 3,107'		11" hole	Section 13, T16S, R35E Lea County, New Mexico
rates - 3,107		11 hole	
7 Rivers - 3,394'			API Number <b>30-025-36923</b> Spud Date: 11/5/04
			Spau Date. 11/3/04
Queen - 4,006'		8 <sup>5</sup> / <sub>8</sub> " 32#/ft J55@ 4334'	
		1140sx POZC, Circ	Downhole Production
Grayburg - 4,407'			Equipment Equipment
			2.875"6.5# Unknown grade/threads
San Andres - 4,757'			
Glorieta - 6,303'			Surface Production Equip
			3x300bbl steel flat bottom circa 2004,
			30x10 125psi WP Permian 2 phase
Tubb - 7,803'		7 <sup>7</sup> / <sub>8</sub> " hole	separator
		7 / <sub>8</sub> note	5000#tbg head, 3000# hanger flange
			Notes  Drilled by Chesapeake 11/04
			Acquired by Chevron 10/3/12
			Acquired by AEC 11/30/17
Abo - 8,226'			As of 8/2020 the Strawn has cum'd
			44,846 BO; 168,435 MCFG; and 156,005 BW
			130,003 BW
		TOC @ 9,336' per CBL 12/11/04	
Wolfcamp - 9,640'			
		PROPOSED	*
		Wolfcamp Perfs	STIMULATION
		10,096'-10,283' - 18 shots	frac treatment per vendor design Stage 1
		10,632'-10,707' - 30 shots	frac treatment per vendor design
		SHAZONOONS 1 1969 - Hall SATINFARIANS	Stage 2
		10,736'-10,836' - 30 shots	frac treatment per vendor design
		10,842' - 10,955' 30 shots	Stage 3 frac treatment per vendor design
		70,045 - 10,950 - 50 9HOR	Stage 4
		10,990' - 11,062' - 36 shots	frac treatment per vendor design
		44 0001 44 2041 20	Stage 5
		11,088' - 11,201' - 36 shots	frac treatment per vendor design Stage 6
		PROPOSED	- COB-CO
<u> </u>		Set CIBP @ ~11,300'	<del></del>
Strawn- 11,326'			- I
		Strawn (03/16/00) 11,332'-11,414' - 128 shots	5,000 gal 15% NEFE
		Shoebar; Strawn, North 56270	10,000 gal 13% NEFE 10,000 gal 20% Ultragel
		-	
		- 1/ H 47H 50F 0 122 172 2 11 - 221	
		5 <sup>1</sup> / <sub>2</sub> " 17# S95 & L80 LTC @ 11,500'. C TD 11,500' PBTD 11,404'	emented with 321sx POZ H
		10 11,500 FB10 11,404	