<u>District I</u> 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 Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

Email Address:

Date:

kay\_maddox@eogresources.com

Phone: 432-686-3658

10/8/2019

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**

Form C-101 August 1, 2011

Permit 273077

		APPLICATIO	N FOR PERMI	T TO DRILL, RE	ENTER, DE	EPEN	I, PLUGBAC	K, OR AI	DD A ZO	ONE		
EO	me and Address G RESOURCES IN	NC								GRID Number 7377		
	). Box 2267 lland, TX 79702								3. AF	PI Number 30-015-4636	88	
4. Property Co	de 6197	5. Pr	operty Name WAR DOG 34	STATE COM					6. W	ell No. 402H		
					face Location				l .	.02.1		
UL - Lot	Section 35	Township 16S	Feet From				n 577	E/W Line W	County	Eddy		
				8. Proposed E	Bottom Hole Lo	ocation	ì					
UL - Lot L	Section 34	Township 16S	Range 27E	Lot Idn	Feet From 301		N/S Line	Feet Fro	om 100	E/W Line W	County	Eddy
		•	•	9. Por	Information		•					-
WC 015 G5	1627S35 M; abo			0.100	, inioinidaon					98312		
				Additiona	l Well Informat	tion						
11. Work Type Ne	w Well	12. Well Type OIL		13. Cable/Rotary		14. Lease Type State			15. Ground Level Elevation 3419			
16. Multiple		17. Proposed De		18. Formation Abo	1:	19. Contractor 20. Sp				pud Date 7/1/2020		
Depth to Grou	nd water	<b>'</b>		Distance from neares	st fresh water wel	esh water well Distance to nearest surface v						
⊠ We will be	using a closed-loo	op system in lieu of	lined pits	l				<u> </u>				
Туре	Hole Size	Casing Size		21. Proposed Cas asing Weight/ft		ent Prog		Saaka	of Comoni		Estimated	TOC
Surf	12.25	9.625		36	Set	1100	otti	Sacks of Cement 420			0	
Prod	8.75	5.5		20		6373			1023		0	
Prod	8.5	5.5		20		11817			1023			
			С	asing/Cement Prog	gram: Addition	nal Con	nments					
				22. Proposed Blo			gram					
Type Working Pressure  Double Ram 3000						ssure			Manufacturer			
	Double Raili		3000		300	U	l		VVII	ichever is availab	ie	
knowledge a	and belief. t <b>ify I have complie</b>	rmation given above	·	•			,	OIL CONSE	RVATION	N DIVISION		
Signature:												
Printed Name	Electronica	lly filed by Kay Mado	dox		Approved E	Ву:	Raymond F	Podany				
Title:	Regulatory	Agent			Title:	Title: Geologist						
First Address Roy moder @ ogressures com						10/40/2040						

Approved Date:

Conditions of Approval Attached

10/10/2019

Expiration Date: 10/10/2021

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167

<sup>1</sup>API Number

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

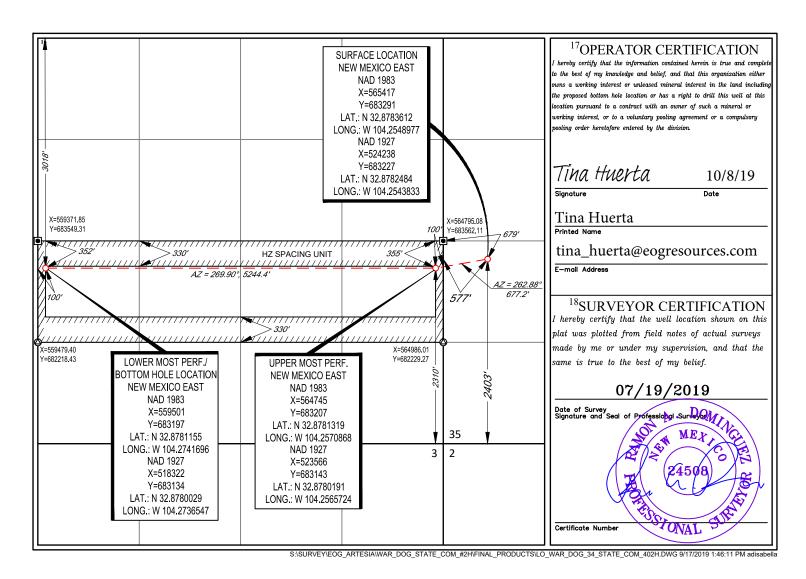
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

				Wildcat; Abo								
<sup>4</sup> Property C	<sup>4</sup> Property Code <sup>5</sup> Property Name								<sup>6</sup> Well Number			
				WAF	R DOG 34	STATE COM			402H			
<sup>7</sup> OGRID N	No.				<sup>8</sup> Operator N	Name				<sup>9</sup> Elevation		
7377	7377 EOG RESOURCES, INC. 3419'								3419'			
	<sup>10</sup> Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County		
L	35	16-S	27-E	-	2403	SOUTH	577	WES	Т	EDDY		
		•	11]	Bottom Ho	le Location If <b>D</b>	Different From Su	rface					
UL or lot no.	or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Cou									County		
L	34	16-S	27-E	7-E - 3018 NORTH 100 WEST EDDY								
12Dedicated Acres	<sup>12</sup> Dedicated Acres   <sup>13</sup> Joint or Infill   <sup>14</sup> Consolidation Code   <sup>15</sup> Order No.											

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.



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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**

		GAS CAF	PTURE PLA	N			
Date: 10/10/2019							
☑ Original Op	perator & OGRID No.:	[7377] EOG RESOUF	RCES INC				
☐ Amended - Reason for Amendment:							
This Gas Capture Plan outlines actions to be Note: Form C-129 must be submitted and appropriate and Appropriate Note: Note: Form C-129 must be submitted and appropriate Note:	pproved prior to exceed	•	, ,	,	,	mplete to new zo	ne, re-frac) activity.
The well(s) that will be located at the product							
Well Name	API	Well L (ULST	∟ocation 'R)	Footages	Expected MCF/D	Flared or Vented	Comments
WAR DOG 34 STATE COM #402H	30-015-	46368 L-35-	-16S-27E	2403S 0577W	500	None	
equire 500' of pipeline to connect the completion and estimated first production da Lucid Artesia Company have perio	illity after flowback ope connected to Lucid A facility to Low Pressuate for wells that are so dic conference calls to g Plant located in Sec.	urtesia Company ure gathering system. cheduled to be drilled in discuss changes to dr 26, Twn. 18S, Rng	Low Pressure EOG RESOURCE the foreseeable filling and comple	gathering system loca <u>ES INC</u> provides (per ruture. In addition, <u>EOC</u> tion schedules. Gas fro	ated in <u>Eddy</u> liodically) to <u>Lucid</u> G RESOURCES IN	County, Ne Artesia Compan C and be processed at	w Mexico. It will y a drilling,
Flowback Strategy							
After the fracture treatment/completion opera vill be monitored. When the produced fluids production facilities, unless there are opera the system can take this gas upon completion	contain minimal sand tional issues on Lucid	, the wells will be turne	d to production fa		ld start as soon as	the wells start f	lowing through the
Safety requirements during cleanout operati ather than sold on a temporary basis.	ions from the use of ur	nderbalanced air cleand	out systems may	necessitate that sand a	nd non-pipeline qu	ality gas be vent	ed and/or flared
Alternatives to Reduce Flaring							

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Form APD Comments

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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**

Permit 273077

### PERMIT COMMENTS

Operator Name and Address:	API Number:
EOG RESOURCES INC [7377]	30-015-46368
P.O. Box 2267	Well:
Midland, TX 79702	WAR DOG 34 STATE COM #402H

Created By	Comment	Comment Date

Form APD Conditions

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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**

Permit 273077

### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
EOG RESOURCES INC [7377]	30-015-46368
P.O. Box 2267	Well:
Midland, TX 79702	WAR DOG 34 STATE COM #402H

OCD Reviewer	Condition
rpodany	Will require a directional survey with the C-104
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing

### **State Permit Information**:

Well Name: War Dog 34 State Com #402H

### **Location:**

SL: 2403' FSL 577' FWL, Unit L 35-16S-27E BHL: 3018' FNL 100' FWL, Unit L 34-16S-27E

### **Casing Program:**

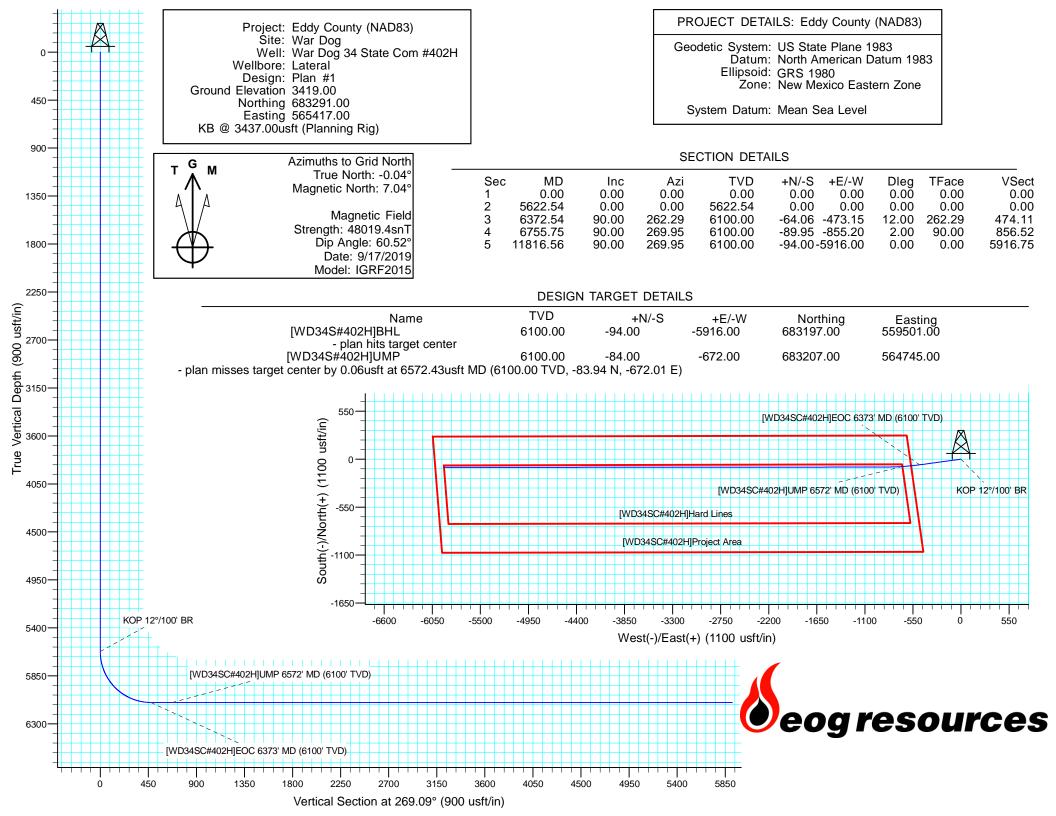
Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
12.25"	0'-1,100'	9.625"	36#	J-55	LTC	1.125	1.25	1.80
8.75"	0'-6,373'	5.5"	20#	L-80	BTC	1.125	1.25	1.80
8.50"	6,373'-11,817'	5.5"	20#	L-80	BTC	1.125	1.25	1.80

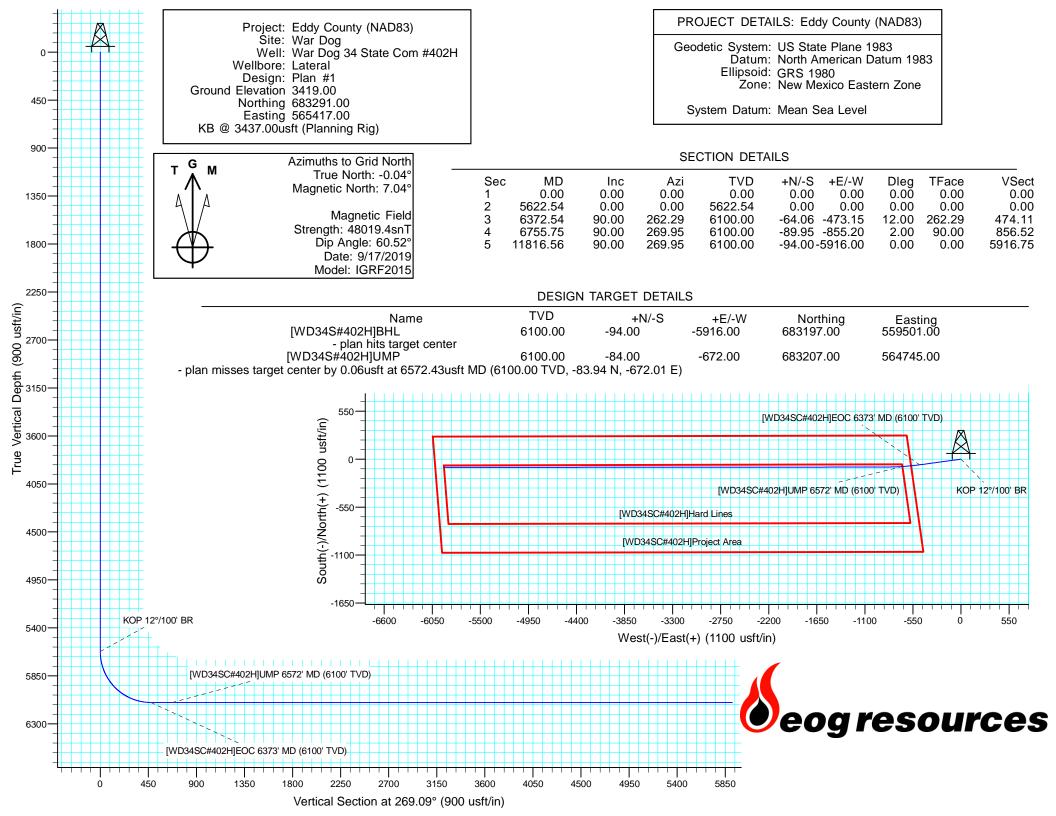
### **Cement Program:**

	No.	Wt.	Yld						
Depth	Sacks	lb/gal	Ft <sup>3</sup> /ft	Slurry Description					
1,100'	210	12.9	1.97	Lead: Class 'C' + 4%PF20(Bentonite Gel) + 2%PF1(Calcium					
				Chloride) + 0.125#/skPF29(Celloflake) + 0.4#/skPF45					
				(Defoamer) 100% Excess					
				(TOC @ Surface)					
	210	14.8	1.34	Tail: Class 'C' + 2%PF1(Calcium Chloride)					
11,817'	955	11.9	2.47	Lead: Class 50/50 PozC + 5%PF44(BWOW)(Salt) + 10%					
				PF20(Bentonite Gel) +.2%PF153(Anti Settling Agent( +					
				3#/sk OF42(Kolseal) + 0.125#/sk PF29 (celloflake) + 0.4#/sk					
				PF45 (Defoamer) (TOC @ Surface) 35% Excess					
	1090	13	1.48	Tail: Class PVL + 1.3% PF44(BWOW)(Salt) + 5% PF174					
				(Expanding Cement) + 0.5% PF606 (Fluid Loss) + 0.1%					
				PF153 (Anti Settling Agent) + 0.4#/sk PF45 (Defoamer) 35%					
				Excess					

### **Mud Program**:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0-1,100'	Fresh Water	8.6-8.8	28-32	N/c
1,100'-11,817'	Cut Brine	8.8-9.6	34-40	Less than





Inten	t	As Dril	led											
API #	ŧ													
Ope	rator Nai		Property Name:								Well Number			
Kick (	Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		From	E/W	County	
Latit	<u>l</u> ude				Longitu	ude							NAD	
First T	Take Poir	nt (FTP)	Range	Lot	Feet		From N	I/S	Feet		From	ı E/W	County	
Latit	ude				Longitu	ude							NAD	
Last 7	Гake Poin	t (LTP)												
UL	Section	Township	Range	Lot	Feet	Fro	m N/S	Feet		From E,	/W	Count	У	
Latit	ude				Longitu	ongitude								
											[			
Is this	s well the	defining v	vell for	the Hori	zontal S	pacin	g Unit?							
Is this	s well an	infill well?			]									
	ll is yes p ng Unit.	lease prov	de API	l if availal	ble, Ope	rator	Name	and v	vell n	umber <sup>.</sup>	for [	Definir	ng well fo	r Horizontal
API #	<b>!</b>													
Ope	rator Nai	me:				Pro	perty N	ame						Well Number