# 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 <u>District IV</u>
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** 

☐AMENDED REPORT

1220 South St. Francis Dr.

**Santa Fe, NM 87505** 

		oures, In	1. Operator Na	me and Address	L, KE-EN	itek, D	LEPEN,	PLUGBA	2. OGRII	) Number	A ZUNE		
	. Box 2		<b>.</b> .			7377 3. API Number							
Mid	and T	K 79702	1		<b>.</b>	T		30	0-015-494	06	N.T.		
4. Proper 313	ty Code 3840				<sup>3.</sup> Property N Deep Elem	Name n 16 State 1 1					No.		
				7	· Surface Lo	cation							
UL - Lot <b>D</b>	Section 16	Township 26S	Range 31E	Lot Idn	Feet fr 325		I/S Line <b>North</b>	Feet From 550	E/W :		County <b>Eddy</b>		
	10	203	SIE	8. Pror	osed Botton			550	VVE	551	Ludy		
UL - Lot	Section	Township	Range	Lot Idn	Feet fr		J/S Line	Feet From	E/W	Line	County		
D	16	26S	31E		32	5   1	North	550	We	est	Eddy		
L				9.	· Pool Infor	mation			<u> </u>				
					Pool Name ategraphic						Pool Code <b>98210</b>		
					ional Well I	nformatio	1			I			
11. Work			12. Well Typ	2	13. Cable/R			4. Lease Type		15. Ground	Level Elevation		
New Well         Monitor           16. Multiple         17. Proposed Depth         18. F					<sup>18.</sup> Forma	tion		State  19. Contractor		3220'			
N 12,650' Wolfcam								Contractor	ontractor 20. Spud Date 4/19/2022				
Depth to Groun		Γ	rest fresh water	well		Dista	nce to nearest	surface wa	ter				
<b>₩</b> e will be	using a c	closed-loor	system in lie	u of lined pits									
				21. Proposed	Casing and	Cement P	rogram						
Туре	Hole	e Size	Casing Size	Casing	Weight/ft	Settir	g Depth	Sacks	of Cement		Estimated TOC		
Surface	16	6"	13.375"	5-	4.5	1,	350'	5	500	0			
Intermediate	12.	.25"	9.625"	5	3.5	11	,500'	18	300	0			
Production	7.8	75"	5.5"		20	1	,650'		200 11,000'				
			Ca	sing/Cement	Program: A	<u>Additional</u>	Comment	s					
				22. Proposed		evention P	rogram						
	Туре			Working Pres	sure		Test Pres	sure		Manufacturer			
	ouble R	am		5000			3000						
23. Lhereby cer	tify that th	ne informati	on given above	is true and comp	elete to the	1							
best of my kno	wledge an	d belief.	-	•			OIL	CONSERV	ATION D	OIVISIO	N		
I further certi 19.15.14.9 (B) Signature:				14.9 (A) NMAC	C X and/or	Approved F	ßy:						
Printed name:	Star L	Harrell				Title:			,				
Title: Sr Re	gulator	y Specia	list			Approved I	Date:		Expiration	Date:			
E-mail Address	s: star	_harrell@	@eogresour	ces.com									
Date: 3/24/2	2022		Phone: 4	32-257-2428	}	Conditions	of Approval A	Attached					
			<del>-</del>			1							

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

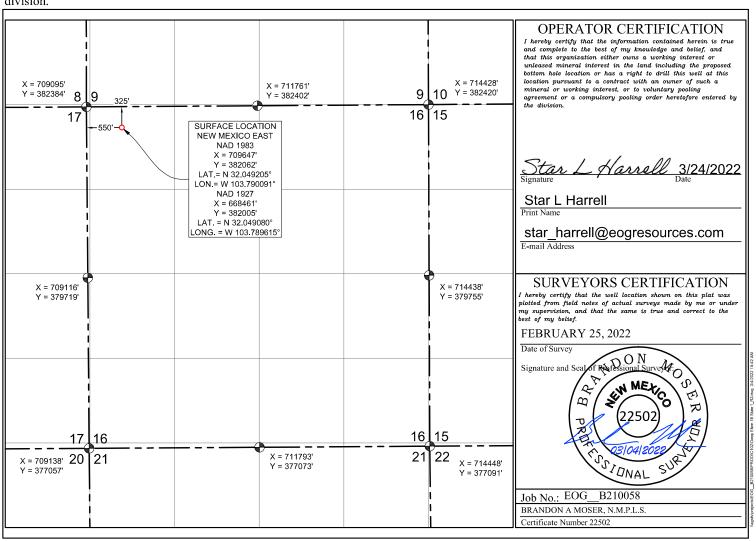
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

A			Pool Code			Pool Name				
30-015-			98210		Strategraphic Wolfcamp					
Property C	Property Code				Property Nam	e	Well Nun	nber		
313840				DE	EP ELEM 16	STATE	1			
OGRID N	lo.				Operator Nam	e		Elevation	Elevation	
7377	7377			EO	G RESOURC	ES, INC.		3220	יכ	
Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	16	26 S	31 E		325	NORTH	550	WEST	EDDY	
	Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	16	26 S	31 E		325	NORTH	550	WEST	EDDY	
Dedicated Acres	Joint or	Infill	Consolidated Co	de Orde	r No.	•				
ĺ										

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.





EOG Resources, Inc. P.O. Box 2267 Midland, TX 79702

3/24/2022

This well will be used to monitor horizontal wells in the area. EOG does not plan to produce this well at this time. Please contact me if you have questions.

Thank you. Star

**Star Harrell – Sr Regulatory Specialist** Direct Line (432) 848-9161

Cell Phone (432) 257-2428 Star Harrell@eogresources.com

KB: 3,245'

GL: 3,220'

325' FNL 550' FWL Section 16 T-26-S, R-31-E

Deep Elem 16 State #1 Eddy County, New Mexico

Proposed Wellbore Design A

API: 30-025-\*\*\*\*

Bit Size: 16" 13-3/8", 54.5#, J-55, STC 0' - 1,350' Bit Size: 12-1/4" 9-5/8", 53.5#, P110, BTC @ 0' - 8,500' 9-5/8", 53.5#, P110, LTC @ 8,500' - 11,500' TOC: 11,000'

Bit Size: 7-7/8"

5-1/2", 20#, ECP-110, TXP BTC @ 0' - 12,650'

BH Location: 325' FNL & 550' FWL

Section 16 T-26-S, R-31-E

# EOG RESOURCES, INC. Deep Elem 16 State #1

# **Permit Information:**

Well Name: Deep Elem 16 State #1

Location:

SHL: 325' FNL & 550' FWL, Section 16, T-26-S, R-31-E, Eddy Co., N.M. BHL: 325' FNL & 550' FWL, Section 16, T-26-S, R-31-E, Eddy Co., N.M.

# **Casing Program:**

Hole		Csg				DF <sub>min</sub>	DF <sub>min</sub>	DF <sub>min</sub>
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
16"	0 – 1,350'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0'-8,500'	9.625"	53.5#	P-110	BTC	1.125	1.25	1.60
12.25"	8,500' – 11,500'	9.625"	53.5#	P-110	LTC	1.125	1.25	1.60
7.875"	0'-12,650'	5.5"	20#	ECP-110	TXP BTC	1.125	1.25	1.60

# **Cement Program:**

	No.	Wt.	Yld	
Depth	Sacks	ppg	Ft <sup>3</sup> /sk	Slurry Description
1,350'	400	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl <sub>2</sub> + 0.25
				lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate
11,500'	400	14.2	1.11	1st Stage (Tail): Class C + 5% Salt + (TOC @ 7,000')
	1,400	14.8	1.5	2 <sup>nd</sup> Stage (Bradenhead squeeze): Class C + 3% Salt + 1%
				PreMag-M + 6% Bentonite Gel (TOC @ surface)
12,650'	200	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 +
				0.40% C-17 (TOC @ 11,000')

# **Mud Program:**

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,350'	Fresh - Gel	8.6-8.8	28-34	N/c
1,350' – 11,500'	Enerlite	8.8-10.0	28-34	N/c
11,500' – 13,000'	Oil Base	12.0-14.0	58-68	3 - 6

# EOG RESOURCES, INC. Deep Elem 16 State #1

# **Hydrogen Sulfide Plan Summary**

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
  - Well control equipment
    - a. Flare line 150' from wellhead to be ignited by flare gun.
    - b. Choke manifold with a remotely operated choke.
    - c. Mud/gas separator
  - Protective equipment for essential personnel.

## Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

# **Auxiliary Rescue Equipment:**

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
  - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  - c. Two wind socks will be placed in strategic locations, visible from all angles.
- Mud program:

# EOG RESOURCES, INC.

# Deep Elem 16 State #1

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

# ■ Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

# ■ Communication:

Communication will be via cell phones and land lines where available.

**Emergency Assistance Telephone List** 

**PUBLIC SAFETY:** 

911 or

# EOG RESOURCES, INC. Deep Elem 16 State #1

Deep Liem to State #1		
Lea County Sheriff's Department		(575) 396-3611
Rod Coffman		
Fire Department:		
Carlsbad		(575) 885-3125
Artesia		(575) 746-5050
Hospitals:		
Carlsbad		(575) 887-4121
Artesia		(575) 748-3333
Hobbs		(575) 392-1979
Dept. of Public Safety/Carlsbad		(575) 748-9718
Highway Department		(575) 885-3281
New Mexico Oil Conservation		(575) 476-3440
NMOCD Inspection Group – South		(575) 626-0830
U.S. Dept. of Labor		(575) 887-1174
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EOG Resources, Inc.		
EOG / Midland	Office	(432) 686-3600
2007 171141414	011100	(122) 000 2000
Company Drilling Consultants:		
David Dominque	Cell	(985) 518-5839
Mike Vann	Cell	(817) 980-5507
		,
Drilling Engineer		
Esteban Del Valle	Cell	(432) 269-7063
Drilling Manager		
Aj Dach	Office	(432) 686-3751
	Cell	(817) 480-1167
Drilling Superintendent		
Chris Hale	Cell	(432) 215-5531
H&P Drilling		
H&P Drilling	Office	(432) 563-5757
Tool Pusher:		
Johnathan Craig	Cell	(817) 760-6374
Brad Garrett		
Safety		
Brian Chandler (HSE Manager)	Office	(432) 686-3695
<i>\ \ \ \</i>	Cell	(817) 239-0251
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OPS GEO & DATE WELL NAMES:	BFR 3/23/2022	Deep Elem	16 State #1
		Deep Elem	16
# of offsets	7		GL KB 3220 <mark>3246</mark>
	Target Formation		rognos
	Rustler		2017 1229
	Tamarisk Anhydrite		1938 1308
	Top of Salt		1694 1552
	Bottom of Salt		-566 3812
	Lamar		-768 4014
	Bell Canyon		-808 4054
	Cherry Canyon		-1768 5014
	Brushy Canyon		-3037 6283 -4677
	Bone Spring Lime		4714 7960
	Leonard A		4822 8068
	Leonard B		-5395 8641
	First Bone Spring Sand		-5665 8911
	SBSG Shale		-5929 9175
	SBSG Sand		-6310 9556
	TBSG Carb		-6924 10170
	Third Bone Spring Sand		-7591 10837
	Wolfcamp		-7994 11240
	Wfmp Clastics X		<b>-8024</b> 11270
	Wfmp Clastics Y		-8130 11376
	Wfmp U1		-8169 11415
	Wfmp U2		-8366 11612
	Wfmp U3		-8536 11782
	Wfmp U4		-8601 11847
	WFMP M1		-8758 12004
	WFMP M2		-9010 12256
	WFMP M3	AJG Grid	-9201 12447
Doon Flow 16 State #1	WFMP Lower	I D: 43 000' TVD vertical	-9324 12570

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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 93035

## **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	93035
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

#### CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	3/28/2022
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	3/28/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/28/2022
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	3/28/2022
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud	3/28/2022