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 and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

NM OIL CONSERVATION
ARTESIA DISTRICT ☐ AMENDED REPORT
DEC 06 2017
RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
EOG Y Resources, Inc. 104 South Fourth Street Artesia, NM 88210	025575
	3. API Number 30-015-26673

4. Property Code	5. Property Name	6. Well No.
20919	Lodewick A Com	3

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	19	19S	25E		660	North	660	West	Eddy

358. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

Pool Information

Pool Name	Pool Code
N. Seven Rivers; Glorieta-Yeso	97565

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
P	O	N/A	P	3588'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	N/A	Penn	N/A	N/A

Depth to Ground water N/A	Distance from nearest fresh water well N/A	Distance to nearest surface water N/A

☒ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	14-3/4"	9-5/8"	36#	1200'	2375 sx (In Place)	0
Production	8-3/4"	7"	26#	8052'	1800 sx (In Place)	0

Casing/Cement Program: Additional Comments

Refer to page 2 for details

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Manual BOP	3000 psi	3000 psi	Whichever company is available

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable** Signature: Tina Huerta		OIL CONSERVATION DIVISION Approved By: Raymond Stockard
Printed name: Tina Huerta		Title: Geologist
Title: Regulatory Specialist		Approved Date: 12-8-17 Expiration Date: 12-8-19
E-mail Address: tina_huerta@eogresources.com		
Date: December 6, 2017	Phone: (575) 748-4168	Conditions of Approval Attached

Form C-101 continued:

EOG Y Resources, Inc. plans to plug back and recomplete this well as follows:

1. MIRU all safety equipment as needed. POOH with packer. Load hole as necessary with fresh water.
2. Set a CIBP at 6018' and cap it with 25 sx of class "C" cement. Reverse circulate to clean out. This will place a plug over open Wolfcamp perforations.
3. Set a 50 sx class "C" cement plug across Abo top and stage tool from 3982'-4270'.
4. Load hole with treated water and pull a GR/CBL/CCL log to determine the TOC. Perforate 50' above the TOC and squeeze if necessary. Test the casing to 2500 psi.
5. Perforate Yeso 2500'-3200' with deep penetrating charges using 1 jspf with 90 degree phasing.
6. TIH with packer, 2.25" profile nipple and tubing. Set packer at 30' above the top perf.
7. Breakdown the formation with treated water. Limit STP to 5000 psi. Monitor pressure decline until the surface pressure is 0 psi. Swab, test and evaluate. Send samples to lab for analysis.
8. Acidize with 5000g of 20% NEFE acid. Drop 200 1.3 SG RCN ball sealers spaced out evenly throughout the acid flush to the bottom perf with treated water. Limit STP to 5000 psi. Swab, flow test and evaluate. Consider turning well over to production, or if the decision to frac is made. POOH with packer and tubing. TIH with packer, O/O tool, 2.25" profile nipple and 3.5" 9.3#/ft P-110 frac string. Loading the hole as necessary with treated water.
9. MI RU frac valve and WSC to pump a fracturing treatment down the 3.5" tubing at 38-40 BPM while limiting the surface treating pressure to less than 8600 psi. Put 2000 psi on the 3.5 X 5.5" annulus and monitor pressure during the treatment. A pop off valve should be installed on the annulus and set at 2500 psi.

Treating Schedule

Stage Number	Stage	gal	Fluid	Prop Conc lb/gal	lb Proppant Stage	lb Proppant Cumulative	Proppant
1	Injection	1500.	Slickwater	0.00	0.	0.	----
2	Acid	2000.	20% HCL	0.00	0.	0.	----
3	Pad	2000.	Slickwater	0.00	0.	0.	----
4	ISIP	0.	Slickwater	0.00	0.	0.	----
5	Pad	14000.	Slickwater	0.00	0.	0.	----
6	SLF	33000.	Slickwater	0.50	16500.	16500.	100 Mesh
7	SLF	25000.	Slickwater	1.00	25000.	41500.	100 Mesh
8	SLF	22000.	Slickwater	1.50	33000.	74500.	100 Mesh
9	SLF	17000.	Slickwater	2.00	34000.	108500.	100 Mesh
10	SLF	6600.	Slickwater	2.50	16500.	125000.	100 Mesh
11	Flush	1500.	Slickwater	0.00	0.	0.	----

Estimated Surface Treating Pressure = 5,100 psig.
Maximum Surface Treating Pressure = 8,600 psig.

Fluid Specifications: Fresh water with 0.8 to 1.2 Gal/M FR, biocide and scale inhibitor.

EOG will provide:
7 clean frac tanks with 480 bbls of fresh water for the treatment and flush.

10. Flow test and evaluate and let the well clean up, if the well is dead or the pressure is low bullhead 10# brine with biocide and POOH with tubing and packer. If the well head pressure is staying above 200 psi set a blanking plug in the O/O tool jay off the packer and POOH laying down the 3.5" frac string. TIH with production tubing and jay back onto the packer and pull the blanking plug.
11. Swab the well in and turn it over to Production.

Wellbore schematics attached

Regulatory Specialist
December 6, 2017

WELL NAME: Lodewick A #3 **FIELD**: Dagger Draw

LOCATION: 660' FNL & 660' FWL of Section 19-19S-25E Eddy Co., NM

GL: 3,613' **ZERO**: **KB**: 3629'

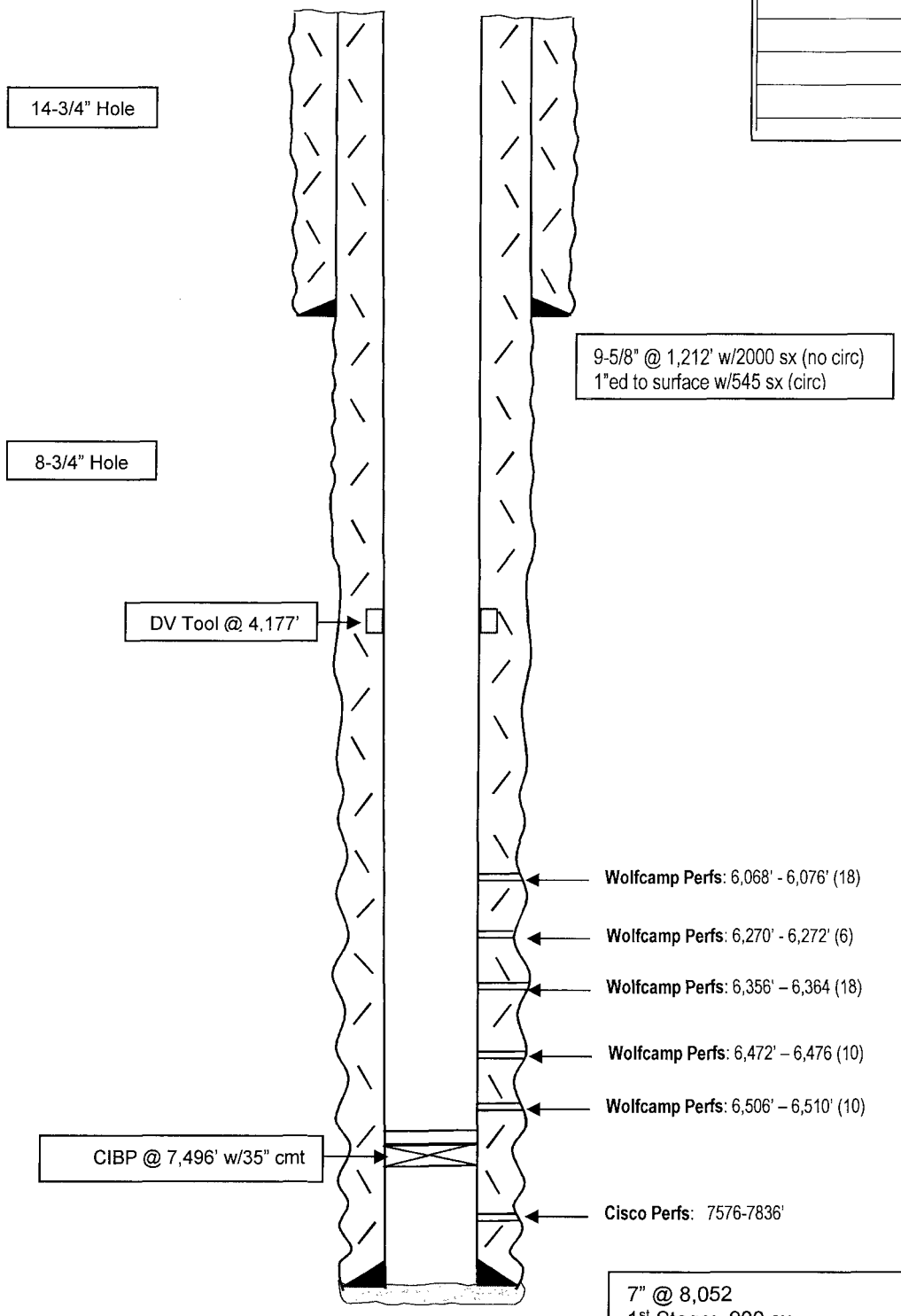
SPUD DATE: 5/19/91 **COMPLETION DATE**: 7/11/91

COMMENTS: API No.: 30-015-26673
(Formerly NDDUP #56)

CASING PROGRAM

9-5/8" 36# K55 LTC	**1,212'**
7" 26# K-55 LTC	**8,099'**

Before



TOPS

Glorieta	1,948'
Paddock	2,176"
Abo	4,220'
WC	5,400'
Penn	7,532"

7" @ 8,052
1st Stage: 900 sx
2nd Stage: 900 sx (circ)

Not to Scale
11/02/2017
DC/Moss/PES

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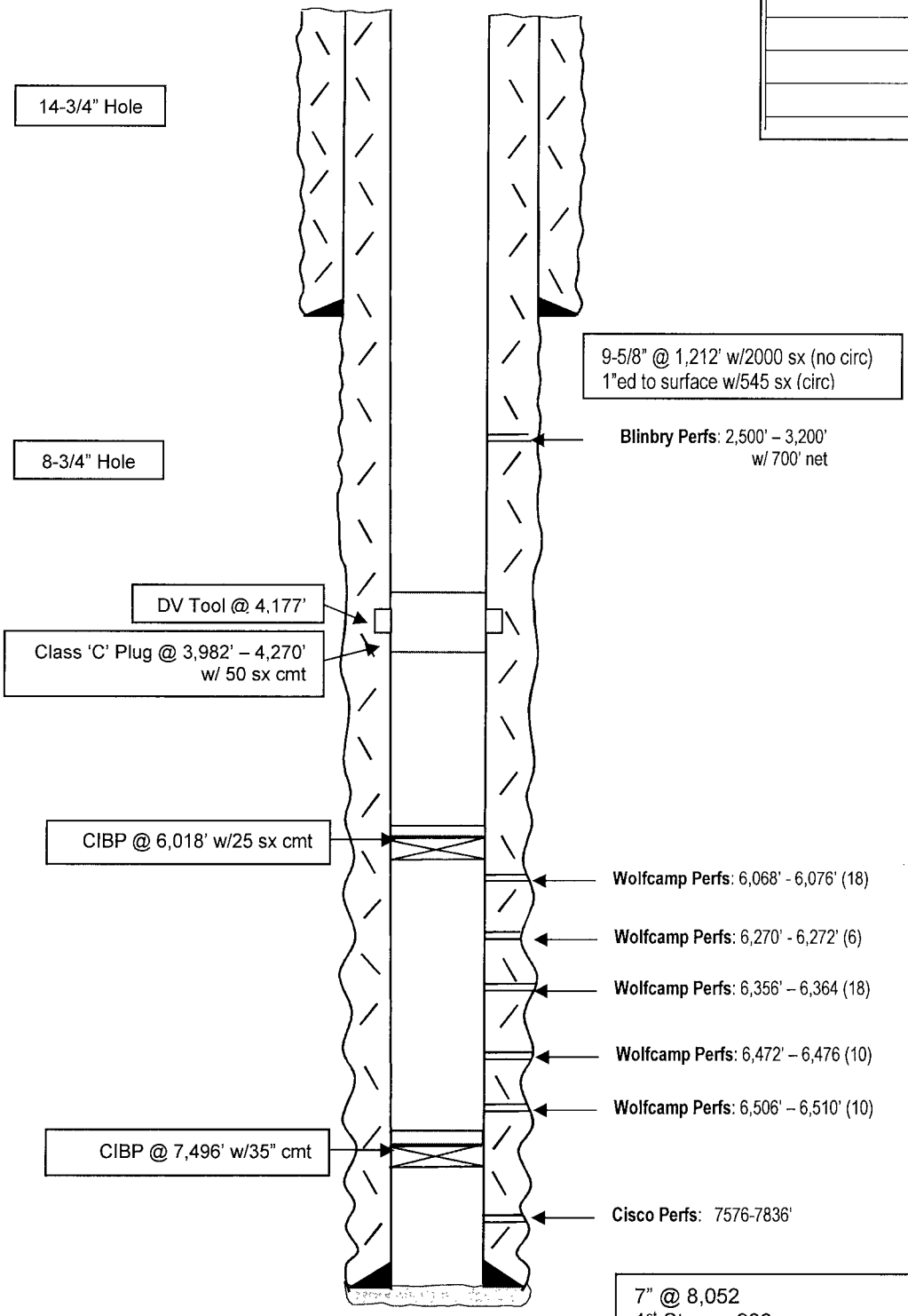

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