

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-45598	² Pool Code 98180	³ Pool Name WC025 G09 S253309P; UPPER WOLFCAMP KZ
⁴ Property Code 324978	⁵ Property Name DAUNTLESS 7 FED	⁶ Well Number #709H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3492'

¹⁰Surface Location

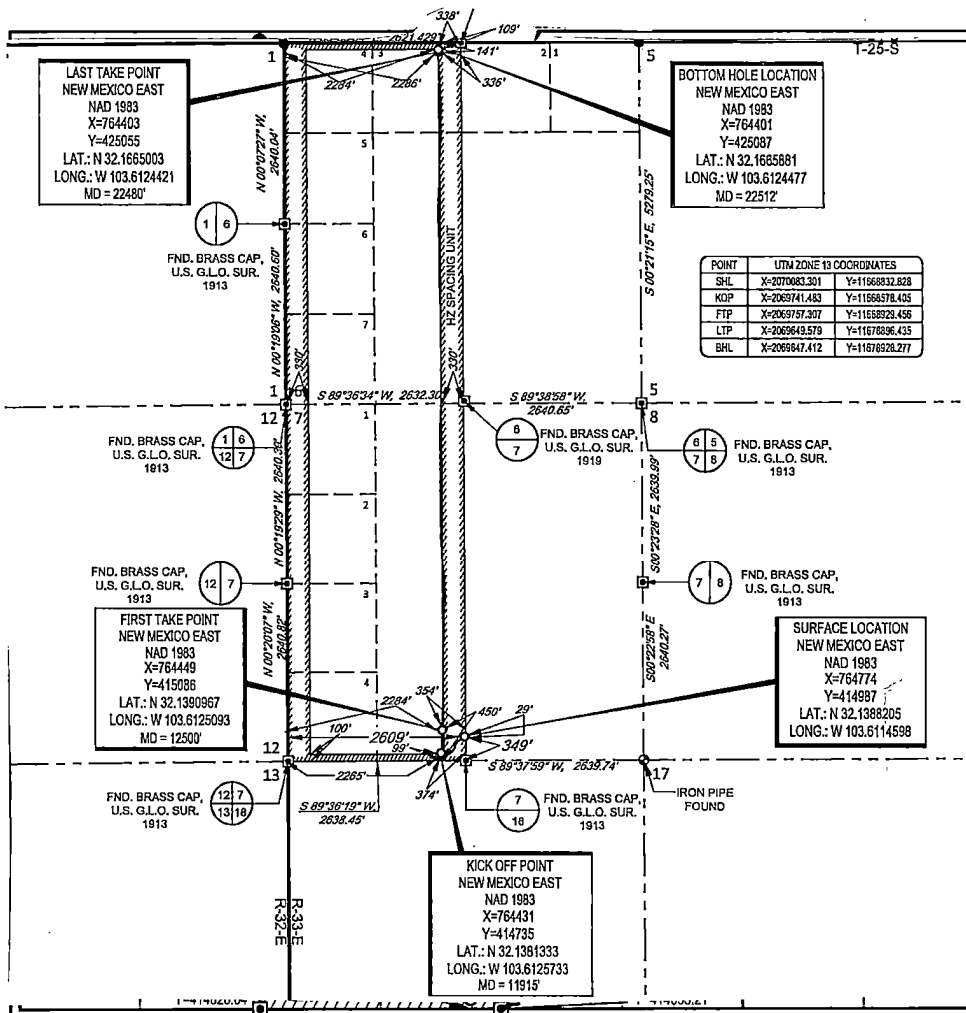
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	7	25-S	33-E	-	349'	SOUTH	2609'	WEST	LEA

SL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	6	25-S	33-E	-	109'	NORTH	2284'	WEST	LEA

¹² Dedicated Acres 640.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either 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 location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox 10/06/2020
Signature Date

KAY MADDOX

Printed Name

kay_maddox@eogresources.com

E-mail Address

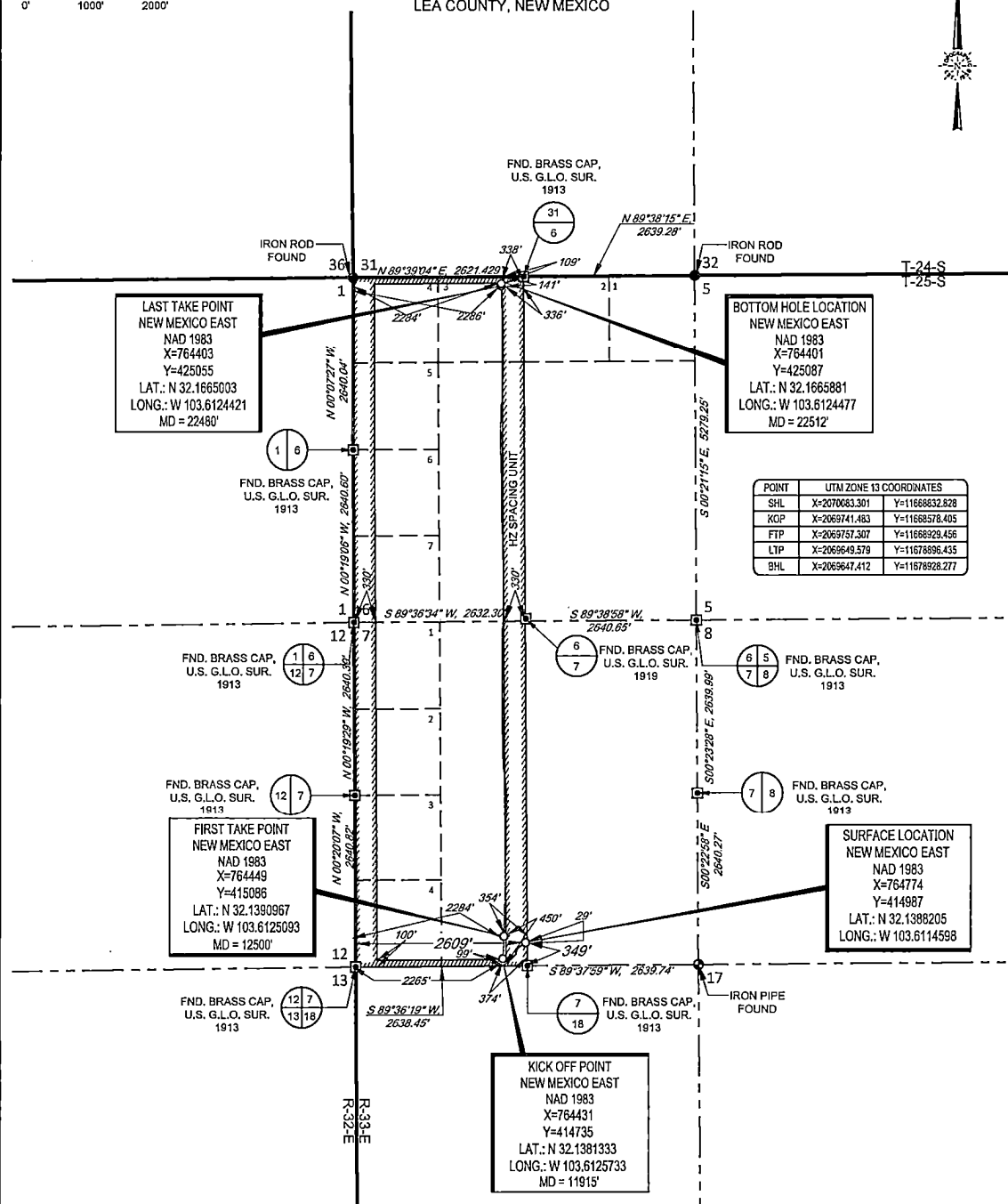
¹⁸SURVEYOR CERTIFICATION

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 to the best of my belief.

12/19/2017
Date of Survey
Signature and Seal of Professional Surveyor
MICHAEL A. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR
Certificate Number

SCALE: 1" = 2000'
0' 1000' 2000'

SECTIONS 7, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



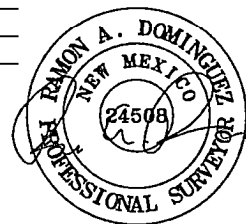
LEASE NAME & WELL NO.: DAUNTLESS 7 FED COM #709H
SECTION 7 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3402'
DESCRIPTION 349' FSL & 2609' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 145 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
2803 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX: (432) 682-1743
WWW.TOPOGRAPHIC.COM

eoq resources, Inc.



Ramon A. Dominguez, P.S. No. 24508
AUGUST 17, 2020

DAUNTLESS 7 FED COM #709H AS-COMplete	REVISION:
DATE: 08/17/2020	
FILE: AD_DAUNTLESS_7_FED_709H	
DRAWN BY: H.B.	
SHEET: 1 OF 1	

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

Intent ☐ As Drilled ☒ XXX

API # 30-025-45598		
Operator Name: EOG RESOURCES, INC	Property Name: DAUNTLESS 7 FEDERAL	Well Number 709H

Kick Off Point (KOP)

UL N	Section 7	Township 25S	Range 33E	Lot	Feet 99	From N/S SOUTH	Feet 2265	From E/W WEST	County LEA
Latitude 32.1381333					Longitude 103.6125733			NAD 1983	

First Take Point (FTP)

UL N	Section 7	Township 25S	Range 33E	Lot	Feet 450	From N/S SOUTH	Feet 2284	From E/W WEST	County LEA
Latitude 32.1390967					Longitude 103.6125093			NAD 1983	

Last Take Point (LTP)

UL C	Section 6	Township 25S	Range 33E	Lot	Feet 141	From N/S NORTH	Feet 2286	From E/W WEST	County LEA
Latitude 32.1665003					Longitude 103.6124421			NAD 1983	

Is this well the defining well for the Horizontal Spacing Unit? ☒ NOIs this well an infill well? ☐ YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-46619		
Operator Name: EOG RESOURCES, INC	Property Name: DAUNTLESS 7 FEDERAL	Well Number #742H

KZ



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dauntless 7 Fed

#709H

OH

Design: OH

Final PVA Report

24 January, 2020



Final PVA Report

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)		TVP Reference:	KB = 25 @ 3517.0usft
Site:	Dauntless 7 Fed		MD Reference:	KB = 25 @ 3517.0usft
Well:	#709H		North Reference:	Grid
Wellbore:	OH		Survey Calculation Method:	Minimum Curvature
Design:	OH		Database:	EDM

Project	Lea County, NM (NAD 83 NME)			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level	
Geo Datum:	North American Datum 1983			
Map Zone:	New Mexico Eastern Zone			

Site	Dauntless 7 Fed				
Site Position:		Northing:	414,874.00 usft	Latitude:	32° 8' 18.763 N
From:	Map	Easting:	762,795.00 usft	Longitude:	103° 37' 4.285 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	#709H					
Well Position	+N-S	0.0 usft	Northing:	414,987.00 usft	Latitude:	32° 8' 19.750 N
	+E-W	0.0 usft	Easting:	764,774.00 usft	Longitude:	103° 36' 41.261 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,492.0 usft

Wellbore:	OH				
Magnetics:	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/17/2018	6.84	59.95	47,762.92905641

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	357.93	

Survey Program	Date	1/24/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
195.0	22,512.0	True Shot MWD#1 (OH)	EOG MWD+IFR1	MWD + IFR1	



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Well: Dantless 7 Fed
Wellbore: #709H
Design: OH
OH
Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
EDM
Gfd
Minimum Curvature
Well #709H
KB = 25 @ 3517.0ush
KB = 25 @ 3517.0ush

MD	Inc	Azi	TVD	N/S	EW	Dleg	Build	Turn	High to Plan	Right to Plan
(ust)	(°)	(grd_north_azim)	(ust)	(ust)	(ust)	(/100ust)	(/100ust)	(/100ust)	(ust)	(ust)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0
195.0	1.45	229.17	195.0	-1.6	-1.9	0.74	0.74	0.00	-2.5	0.0
318.0	1.45	243.24	317.9	-3.3	-4.4	0.29	0.29	0.00	-5.5	1.0
497.0	0.97	246.49	496.9	-5.0	-7.8	0.27	-0.27	1.82	-9.2	1.4
686.0	1.01	244.20	685.9	-6.3	-10.8	0.03	0.02	-1.21	-12.5	1.0
875.0	1.49	258.00	874.8	-7.6	-14.7	0.30	0.25	7.30	-16.0	4.3
1,064.0	2.51	247.90	1,063.7	-9.6	-21.0	0.57	0.54	-5.34	-23.0	1.0
1,129.0	2.68	249.74	1,128.6	-10.7	-23.7	0.29	0.26	2.83	-25.9	1.8
1,260.0	2.29	235.77	1,259.5	-13.2	-28.7	0.55	-0.30	-10.66	-31.2	-5.2
1,449.0	2.11	225.31	1,448.4	-17.8	-34.3	0.23	-0.10	-5.53	-36.9	-11.5
1,639.0	1.89	225.83	1,638.3	-22.4	-39.1	0.12	-0.12	0.27	-43.6	-11.1
1,828.0	3.66	226.89	1,827.0	-29.1	-46.1	1.10	1.10	0.56	-53.5	-10.3
2,017.0	3.87	229.61	2,016.6	-37.7	-55.7	0.11	-0.05	1.44	-66.8	-7.4
2,206.0	3.74	232.43	2,204.2	-45.5	-65.4	0.12	-0.07	1.49	-79.6	-3.8
2,396.0	3.65	236.91	2,393.8	-52.6	-75.4	0.16	-0.05	2.36	-91.9	2.9
2,584.0	3.25	234.27	2,581.4	-59.0	-84.7	0.23	-0.21	-1.40	-103.3	-1.6
2,774.0	2.81	234.27	2,771.2	-64.9	-92.9	0.23	-0.23	0.00	-113.3	-1.6
2,963.0	2.46	237.70	2,960.0	-69.7	-100.1	0.20	-0.19	1.81	-121.9	5.5
3,153.0	3.16	206.76	3,149.7	-76.6	-105.9	0.86	0.37	-16.28	-116.0	-60.1
3,342.0	2.99	208.96	3,338.5	-85.6	-110.6	0.11	-0.09	1.16	-124.0	-54.0
3,531.0	2.59	207.64	3,527.2	-93.7	-115.0	0.21	-0.21	-0.70	-115.9	-52.0
3,720.0	4.84	218.80	3,715.8	-103.7	-122.0	1.24	1.19	5.90	-116.3	-25.7
3,910.0	2.68	209.75	3,905.4	-113.8	-129.2	1.18	-1.14	-4.76	-103.9	-39.8
4,099.0	4.84	210.81	4,094.0	-124.4	-135.5	1.14	1.14	0.56	-97.9	-32.9
4,288.0	3.34	179.25	4,282.5	-136.8	-139.5	1.40	-0.79	-16.70	-64.8	-69.2
4,477.0	5.23	184.79	4,471.0	-150.9	-140.1	1.02	1.00	2.93	-70.1	-49.4
4,667.0	7.52	203.07	4,659.8	-171.0	-145.7	1.60	1.21	9.62	-84.2	-15.0



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dauntless 7 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
EDM
Minimum Curvature
Grid

Survey	MD (usft)	Inc (°)	Azi (grd, north, azi)	TVD (usft)	N/S (usft)	EW (usft)	Dleg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	Hgh to Plan (usft)	Right to Plan (usft)
	4,856.0	6.37	222.93	4,847.5	-190.0	-157.7	1.40	-0.61	10.51	-66.7	19.2
	5,045.0	5.36	221.26	5,035.5	-204.3	-170.7	0.54	-0.53	-0.88	-86.8	17.6
	5,235.0	5.23	218.19	5,224.7	-217.8	-181.9	0.16	-0.07	-1.62	-85.4	14.8
	5,424.0	5.71	229.00	5,412.8	-230.8	-194.3	0.60	0.25	5.72	-79.3	30.6
	5,613.0	5.89	229.00	5,600.8	-243.3	-208.7	0.10	0.10	0.00	-78.7	29.2
	5,803.0	5.85	232.16	5,789.8	-255.6	-223.7	0.17	-0.02	1.66	-76.7	31.4
	5,992.0	6.20	242.62	5,977.8	-266.2	-240.4	0.61	0.19	5.53	-70.6	40.5
	6,182.0	4.88	253.43	6,166.9	-273.2	-257.3	0.88	-0.69	5.69	-62.5	45.3
	6,371.0	3.60	245.43	6,355.4	-278.0	-270.4	0.74	-0.68	-4.23	-63.6	28.2
	6,561.0	1.01	9.89	6,545.3	-278.8	-275.5	2.24	-1.36	65.51	44.7	30.0
	6,750.0	1.10	12.00	6,734.2	-275.4	-274.8	0.05	0.05	1.12	25.7	17.7
	6,939.0	0.84	3.30	6,923.2	-272.3	-274.4	0.16	-0.14	-4.60	4.8	8.0
	7,128.0	0.79	25.36	7,112.2	-269.7	-273.7	0.17	-0.03	11.67	-13.8	-0.5
	7,318.0	0.88	30.19	7,302.2	-267.3	-272.5	0.06	0.05	2.54	-34.6	-3.9
	7,507.0	0.97	33.62	7,491.2	-264.7	-270.8	0.06	0.05	1.81	-45.7	-3.3
	7,697.0	0.66	26.67	7,681.1	-262.4	-269.5	0.17	-0.16	-3.66	-47.8	-9.1
	7,886.0	0.53	8.31	7,870.1	-260.5	-268.8	0.12	-0.07	-9.71	-44.4	-24.0
	8,076.0	0.44	20.52	8,060.1	-259.0	-268.5	0.07	-0.05	6.43	-50.1	-13.9
	8,266.0	0.22	345.98	8,249.1	-257.9	-268.3	0.15	-0.12	-18.28	-34.3	-40.2
	8,456.0	0.53	220.47	8,439.1	-258.2	-268.9	0.36	0.16	-66.06	52.0	-4.9
	8,644.0	0.84	197.53	8,628.1	-260.2	-269.9	0.22	0.16	-12.14	47.6	15.4
	8,833.0	1.19	231.72	8,817.1	-262.8	-271.9	0.36	0.19	18.09	45.0	-13.2
	9,022.0	1.71	212.74	9,006.0	-266.4	-275.0	0.37	0.28	-10.04	42.1	1.5
	9,212.0	1.45	223.90	9,195.9	-270.5	-278.2	0.21	-0.14	5.87	36.4	-6.1
	9,402.0	2.51	216.78	9,385.8	-275.5	-282.3	0.57	0.56	-3.75	30.4	-1.9
	9,591.0	3.03	262.75	9,574.6	-279.5	-289.8	1.17	0.28	24.32	11.9	-20.2
	9,781.0	2.95	259.67	9,764.4	-281.0	-299.5	0.09	-0.04	-1.62	3.1	-19.8



Final PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Dauntless 7 Fed
 Well: #709H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #709H
 TVD Reference: KB = 25 @ 3517.0usft
 MD Reference: KB = 25 @ 3517.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM

Survey	MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High-to Plan (usft)	Right to Plan (usft)
	9,970.0	2.42	253.70	9,953.2	-283.0	-308.2	0.32	-0.28	-3.16	-3.7	-19.9
	10,159.0	3.30	255.37	10,141.9	-285.5	-317.2	0.47	0.47	0.88	-13.7	-19.6
	10,349.0	1.14	272.77	10,331.8	-286.8	-324.4	1.18	-1.14	9.16	-26.1	-13.0
	10,538.0	1.19	311.62	10,520.7	-285.4	-327.8	0.41	0.03	20.56	-31.9	7.4
	10,727.0	1.27	303.79	10,709.7	-282.9	-331.0	0.10	0.04	-4.14	-36.6	2.8
	10,917.0	2.29	316.63	10,899.6	-279.0	-335.3	0.57	0.54	6.76	-41.0	11.3
	11,107.0	0.66	122.91	11,089.6	-276.8	-337.0	1.54	-0.86	87.52	45.1	-0.4
	11,296.0	0.04	309.07	11,278.6	-277.4	-336.2	0.37	-0.33	-91.98	-43.8	5.1
	11,486.0	2.51	313.55	11,468.5	-274.5	-339.2	1.30	1.30	2.36	-47.4	8.5
	11,675.0	2.15	326.12	11,657.3	-268.7	-344.2	0.33	-0.19	6.65	-52.0	19.5
	11,725.0	2.59	346.51	11,707.3	-266.8	-345.0	1.89	0.88	40.78	-44.0	36.8
	11,790.0	4.70	10.55	11,772.2	-262.7	-344.8	3.94	3.25	36.98	-29.1	52.1
	11,885.0	4.18	12.31	11,866.9	-255.5	-343.4	0.57	-0.55	1.85	-34.9	53.1
	11,911.2	7.66	5.89	11,892.9	-252.9	-343.0	13.49	13.27	-24.51	-43.2	48.9
KOP (DL 7 Fed #709H)											
	11,916.0	8.30	5.29	11,897.7	-252.2	-343.0	13.49	13.38	-12.36	-44.3	48.5
HL Crossing, MD:11916.0', TVD:11897.7', N/S:-252.2', E/W:-343.0', INC:8.30											
	11,980.0	16.90	1.68	11,960.1	-238.3	-342.3	13.49	13.44	-5.65	-56.5	45.2
	12,074.0	27.38	5.81	12,047.0	-203.0	-339.7	11.26	11.15	4.39	-65.4	46.9
	12,169.0	36.66	8.45	12,127.5	-153.1	-333.3	9.88	9.77	2.78	-71.0	42.4
	12,264.0	43.69	3.79	12,200.1	-92.2	-326.9	8.04	7.40	-4.91	-71.5	30.2
	12,273.6	44.09	3.46	12,207.0	-85.6	-326.5	4.82	4.17	-3.48	-70.8	29.4
FTP (DL 7 Fed #709H)											
	12,358.0	47.65	0.71	12,265.7	-25.1	-324.3	4.82	4.22	-3.25	-57.3	24.7
	12,454.0	63.43	357.99	12,319.9	53.8	-325.4	16.60	16.44	-2.83	-37.7	24.1
	12,549.0	79.30	1.59	12,350.2	143.5	-325.6	17.08	16.71	3.79	-23.4	24.0
	12,645.0	91.82	3.78	12,357.6	238.9	-321.1	13.24	13.04	2.28	-17.6	18.7



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3517.0usft
Site:	Dauntless 7 Fed	MD Reference:	KB = 25 @ 3517.0usft
Well:	#709H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,740.0	91.65	3.26	12,354.7	333.7	-315.3	0.58	-0.18	-0.55	-20.7	12.2
12,834.0	86.48	1.94	12,354.6	427.6	-311.0	3.65	-3.37	-1.40	-21.1	7.4
12,929.0	87.56	1.32	12,357.9	522.5	-308.3	1.17	-0.97	-0.65	-18.0	4.1
13,024.0	86.59	0.79	12,362.7	617.4	-306.6	1.16	-1.02	-0.56	-13.5	1.8
13,118.0	87.43	359.83	12,367.6	711.2	-306.1	1.36	0.89	-1.02	-8.8	0.7
13,213.0	88.92	359.92	12,370.7	806.2	-306.3	1.57	1.57	0.09	-6.1	0.3
13,308.0	89.89	359.39	12,371.6	901.2	-306.8	1.16	1.02	-0.56	-5.3	0.2
13,402.0	91.91	0.27	12,370.2	995.2	-307.1	2.34	2.15	0.94	-7.1	-0.1
13,497.0	92.40	0.00	12,366.6	1,090.1	-306.9	0.59	0.52	-0.28	-10.9	-0.9
13,592.0	92.84	359.83	12,362.3	1,185.0	-307.0	0.50	0.46	-0.18	-15.5	-1.4
13,686.0	91.74	2.11	12,358.5	1,278.9	-305.5	2.69	-1.17	2.43	-19.5	-3.6
13,781.0	89.10	1.85	12,357.8	1,373.8	-302.2	2.79	-2.78	-0.27	-20.5	-7.4
13,876.0	88.40	1.85	12,359.9	1,468.8	-299.1	0.74	-0.74	0.00	-18.7	-11.1
13,971.0	88.31	359.48	12,362.6	1,563.7	-298.0	2.50	-0.09	-2.49	-16.2	-12.8
14,065.0	87.60	359.92	12,366.0	1,657.6	-298.5	0.89	-0.76	0.47	-13.1	-12.9
14,160.0	88.70	0.44	12,369.0	1,752.6	-298.2	1.28	1.16	0.55	-10.3	-13.8
14,255.0	90.37	2.64	12,369.8	1,847.5	-295.6	2.91	1.76	2.32	-9.8	-17.0
14,349.0	90.46	2.03	12,369.1	1,941.5	-291.8	0.66	0.10	-0.65	-10.8	-21.4
14,444.0	90.46	2.64	12,368.4	2,036.4	-287.9	0.64	0.00	0.64	-11.8	-25.9
14,539.0	89.36	1.15	12,368.5	2,131.3	-284.8	1.95	-1.16	-1.57	-11.9	-29.6
14,634.0	89.93	356.14	12,369.1	2,226.3	-287.0	5.31	0.60	-5.27	-11.6	-28.0
14,728.0	90.24	355.35	12,368.9	2,320.0	-294.0	0.90	0.33	-0.84	-12.0	-21.6
14,823.0	91.08	355.26	12,367.9	2,414.7	-301.8	0.89	0.88	-0.09	-13.4	-14.4
14,918.0	88.62	354.73	12,368.1	2,509.3	-310.1	2.65	-2.59	-0.56	-13.4	-6.7
15,012.0	88.88	354.29	12,370.2	2,602.9	-319.1	0.54	0.28	-0.47	-11.6	1.7
15,107.0	88.18	356.49	12,372.6	2,697.5	-326.7	2.43	-0.74	2.32	-9.4	8.7
15,202.0	86.42	355.70	12,377.1	2,792.2	-333.2	2.03	-1.85	-0.83	-5.3	14.5



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3517.0usft
Site:	Dauntless 7 Fed	MD Reference:	KB = 25 @ 3517.0usft
Well:	#709H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
15,297.0	88.31	359.12	12,381.4	2,887.0	-337.5	4.11	1.99	3.60	-1.1	18.3	
15,392.0	88.13	359.12	12,384.4	2,981.9	-338.9	0.19	-0.19	0.00	1.6	19.1	
15,486.0	90.86	359.12	12,385.2	3,075.9	-340.4	2.90	2.90	0.00	2.2	20.0	
15,581.0	91.12	359.21	12,383.6	3,170.9	-341.7	0.29	0.27	0.09	0.2	20.7	
15,676.0	91.08	358.95	12,381.7	3,265.8	-343.3	0.28	-0.04	-0.27	-1.8	21.7	
15,770.0	90.86	358.42	12,380.2	3,359.8	-345.4	0.61	-0.23	-0.56	-3.7	23.2	
15,865.0	89.05	359.39	12,380.2	3,454.8	-347.2	2.16	-1.91	1.02	-3.9	24.4	
15,960.0	88.97	359.48	12,381.9	3,549.7	-348.2	0.13	-0.08	0.09	-2.5	24.8	
16,054.0	88.84	0.18	12,383.7	3,643.7	-348.5	0.76	-0.14	0.74	-1.0	24.5	
16,149.0	88.66	359.56	12,385.7	3,738.7	-348.7	0.68	-0.19	-0.65	0.8	24.1	
16,180.6	88.69	359.27	12,386.5	3,770.3	-349.0	0.92	0.09	-0.92	1.5	24.2	
TGT 1 (DL 7 Fed #709H)											
16,244.0	88.75	358.69	12,387.9	3,833.7	-350.1	0.92	0.09	-0.92	2.7	24.9	
16,339.0	88.92	359.92	12,389.8	3,928.6	-351.3	1.31	0.18	1.29	4.3	25.5	
16,433.0	90.20	0.36	12,390.5	4,022.6	-351.0	1.44	1.36	0.47	4.7	24.6	
16,528.0	89.05	0.62	12,391.2	4,117.6	-350.2	1.24	-1.21	0.27	5.1	23.2	
16,623.0	88.88	0.36	12,392.9	4,212.6	-349.4	0.33	-0.18	-0.27	6.5	21.8	
16,718.0	91.30	0.44	12,392.7	4,307.6	-348.8	2.55	2.55	0.08	6.0	20.6	
16,813.0	94.20	358.86	12,388.2	4,402.5	-349.3	3.48	3.05	-1.66	1.2	20.5	
16,907.0	92.44	0.18	12,382.7	4,496.3	-350.1	2.34	-1.87	1.40	-4.6	20.7	
17,002.0	91.03	1.32	12,379.9	4,591.3	-348.9	1.91	-1.48	1.20	-7.8	18.9	
17,097.0	89.27	1.41	12,379.6	4,686.2	-346.6	1.86	-1.85	0.09	-8.3	16.0	
17,192.0	88.57	1.94	12,381.4	4,781.2	-343.8	0.92	-0.74	0.56	-6.9	12.6	
17,287.0	89.49	2.29	12,383.0	4,876.1	-340.3	1.04	0.97	0.37	-5.6	8.5	
17,382.0	89.67	1.59	12,383.7	4,971.0	-337.1	0.76	0.19	-0.74	-5.2	4.7	
17,477.0	88.79	0.53	12,385.0	5,066.0	-335.4	1.45	-0.93	-1.12	-4.2	2.3	
17,572.0	88.79	1.06	12,387.0	5,161.0	-334.0	0.56	0.00	0.56	-2.5	0.4	



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3517.0usft
Site:	Dauntless 7 Fed	MD Reference:	KB = 25 @ 3517.0usft
Well:	#709H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,666.0	88.04	359.83	12,389.6	5,254.9	-333.3	1.53	-0.80	-1.31	-0.2	-0.9
17,761.0	88.26	359.56	12,392.7	5,349.9	-333.8	0.37	0.23	-0.28	2.6	-1.0
17,856.0	89.14	358.69	12,394.8	5,444.8	-335.3	1.30	0.93	-0.92	4.4	-0.1
17,951.0	90.02	358.60	12,395.5	5,539.8	-337.5	0.93	0.93	-0.09	4.8	1.5
18,046.0	90.81	358.77	12,394.8	5,634.8	-339.7	0.85	0.83	0.18	3.8	3.1
18,141.0	90.20	358.95	12,394.0	5,729.8	-341.6	0.67	-0.64	0.19	2.7	4.4
18,236.0	90.20	359.56	12,393.6	5,824.8	-342.8	0.64	0.00	0.64	2.0	5.0
18,330.0	89.36	359.39	12,394.0	5,918.7	-343.7	0.91	-0.89	-0.18	2.1	5.3
18,425.0	89.63	359.48	12,394.8	6,013.7	-344.6	0.30	0.28	0.09	2.6	5.6
18,520.0	89.63	359.12	12,395.5	6,108.7	-345.8	0.38	0.00	-0.38	2.9	6.2
18,614.0	89.85	359.04	12,395.9	6,202.7	-347.3	0.25	0.23	-0.09	3.0	7.1
18,709.0	90.07	358.69	12,395.9	6,297.7	-349.2	0.44	0.23	-0.37	2.8	8.4
18,804.0	90.90	358.51	12,395.1	6,392.7	-351.5	0.89	0.87	-0.19	1.7	10.1
18,899.0	91.78	358.95	12,392.9	6,487.6	-353.6	1.04	0.93	0.46	-0.8	11.6
18,993.0	92.70	358.86	12,389.2	6,581.5	-355.4	0.98	0.98	-0.10	-4.8	12.8
19,088.0	91.65	358.77	12,385.6	6,676.4	-357.4	1.11	-1.11	-0.09	-8.7	14.1
19,186.0	88.97	0.27	12,385.1	6,774.4	-358.2	3.13	-2.73	1.53	-9.6	14.3
19,280.0	89.67	0.71	12,386.2	6,868.4	-357.4	0.88	0.74	0.47	-8.8	12.9
19,282.7	89.67	0.70	12,386.2	6,871.2	-357.3	0.47	0.09	-0.46	-8.8	12.9
TGT 2 (DL 7 Fed #709H)										
19,375.0	89.76	0.27	12,386.7	6,963.4	-356.6	0.47	0.09	-0.46	-8.6	11.5
19,470.0	88.66	359.21	12,388.0	7,058.4	-357.0	1.61	-1.16	-1.12	-7.6	11.4
19,565.0	88.18	357.98	12,390.6	7,153.3	-359.3	1.39	-0.51	-1.29	-5.3	13.1
19,659.0	88.88	358.86	12,393.0	7,247.3	-361.9	1.20	0.74	0.94	-3.1	15.1
19,754.0	88.35	357.98	12,395.3	7,342.2	-364.5	1.08	-0.56	-0.93	-1.1	17.1
19,849.0	89.67	357.98	12,397.0	7,437.1	-367.9	1.39	1.39	0.00	0.2	19.8
19,943.0	90.59	358.33	12,396.8	7,531.1	-370.9	1.05	0.98	0.37	-0.3	22.3



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dauntless 7 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3517.0usft
MD Reference: KB = 25 @ 3517.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey												
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)		
20,038.0	92.09	358.86	12,394.5	7,626.0	-373.2	1.67	1.58	0.56	-2.8	24.0		
20,133.0	91.65	358.86	12,391.4	7,720.9	-375.1	0.46	-0.46	0.00	-6.2	25.3		
20,228.0	90.86	0.79	12,389.4	7,815.9	-375.4	2.19	-0.83	2.03	-8.6	25.0		
20,323.0	89.98	2.20	12,388.7	7,910.9	-372.9	1.75	-0.93	1.48	-9.6	21.9		
20,440.0	83.30	2.90	12,395.5	8,027.5	-367.7	5.74	-5.71	0.60	-2.9	16.0		
20,535.0	87.87	0.97	12,402.8	8,122.1	-364.5	5.22	4.81	-2.03	4.0	12.2		
20,629.0	90.64	2.38	12,404.1	8,216.1	-361.8	3.31	2.95	1.50	4.9	8.8		
20,724.0	91.47	2.03	12,402.3	8,311.0	-358.1	0.95	0.87	-0.37	2.8	4.6		
20,819.0	87.82	1.94	12,402.9	8,405.9	-354.9	3.84	-3.84	-0.09	3.1	0.7		
20,914.0	87.52	1.32	12,406.8	8,500.8	-352.2	0.72	-0.32	-0.65	6.7	-2.6		
21,009.0	87.69	1.85	12,410.7	8,595.7	-349.5	0.59	0.18	0.56	10.4	-5.9		
21,104.0	88.66	1.76	12,413.8	8,690.6	-346.5	1.03	1.02	-0.09	13.1	-9.4		
21,198.0	89.14	2.38	12,415.6	8,784.5	-343.1	0.83	0.51	0.66	14.6	-13.4		
21,293.0	89.10	0.00	12,417.0	8,879.4	-341.2	2.51	-0.04	-2.51	15.8	-16.0		
21,388.0	89.85	0.36	12,417.9	8,974.4	-340.9	0.88	0.79	0.38	16.4	-16.9		
21,483.0	90.33	359.48	12,417.7	9,069.4	-341.0	1.06	0.51	-0.93	15.9	-17.4		
21,577.0	91.12	359.30	12,416.5	9,163.4	-342.0	0.86	0.84	-0.19	14.4	-17.0		
21,672.0	91.12	0.53	12,414.7	9,258.4	-342.1	1.29	0.00	1.29	12.3	-17.4		
21,767.0	90.29	359.21	12,413.5	9,353.4	-342.4	1.64	-0.87	-1.39	10.8	-17.8		
21,861.0	90.95	358.33	12,412.5	9,447.4	-344.4	1.17	0.70	-0.94	9.5	-16.4		
21,956.0	90.20	358.07	12,411.6	9,542.3	-347.4	0.84	-0.79	-0.27	8.3	-14.0		
22,051.0	89.80	357.54	12,411.6	9,637.2	-351.0	0.70	-0.42	-0.56	8.0	-11.0		
22,145.0	90.77	357.81	12,411.1	9,731.2	-354.8	1.07	1.03	0.29	7.2	-7.8		
22,240.0	89.58	357.63	12,410.8	9,826.1	-358.6	1.27	-1.25	-0.19	6.6	-4.6		
22,335.0	89.14	357.02	12,411.9	9,921.0	-363.0	0.79	-0.46	-0.64	7.4	-0.7		
22,457.0	88.53	356.49	12,414.3	10,042.8	-369.9	0.66	-0.50	-0.43	9.5	5.4		

Final MWD Survey (MD=22457.0')



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dauntless 7 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3517.0usft
MD Reference: KB = 25 @ 3517.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
22,512.0	88.53	356.49	12,415.7	10,097.6	-373.3	0.00	0.00	0.00	10.8	8.4
Final Projection to Bit (MD=22512.0') - PBHL (DL 7 Fed #709H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W. (usft)	
11,916.0	11,897.7	-252.2	-343.0	HL Crossing, MD:11916.0', TVD:11897.7', N/S:-252.2', E/W:-343.0', INC:8.30
22,457.0	12,414.3	10,042.8	-369.9	Final MWD Survey (MD=22457.0')
22,512.0	12,415.7	10,097.6	-373.3	Final Projection to Bit (MD=22512.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 10/01/2020
Signed Date



Lea County, NM (NAD 83 NME)

Dauntless 7 Fed #709H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #709H

KB = 25 @ 3517.0usft 3492.0
Northing 414987.00 Easting 764774.00 Latitude 32° 8' 19.750 N Longitude 103° 35' 41.261 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	3180.0	0.00	0.00	3180.0	0.0	0.0	0.00	0.00	0.0
3	3480.0	6.00	224.81	3479.4	-11.1	-11.1	2.00	224.81	-10.7
4	7238.7	6.00	224.81	7217.6	-289.9	-287.9	0.00	0.00	-279.3
5	7538.7	0.00	0.00	7517.0	-301.0	-299.0	2.00	180.00	-290.0
6	11919.2	0.00	0.00	11897.5	-301.0	-299.0	0.00	0.00	-290.0
7	12667.9	89.84	359.64	12375.0	175.1	-302.0	12.00	359.64	185.9
8	16263.5	89.84	359.64	12385.0	3770.7	-324.8	0.00	0.00	3780.0
9	16264.8	89.82	359.64	12385.0	3771.9	-324.8	2.00	-180.00	3781.2
10	19363.9	89.82	359.64	12395.0	6871.0	-344.4	0.00	0.00	6879.0
11	19364.3	89.82	359.64	12395.0	6871.4	-344.4	2.00	0.00	6879.3
12	22592.0	89.82	359.64	12405.0	10099.0	-364.9	0.00	0.00	10105.6

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (DL 7 Fed #709H)	11897.5	-301.0	-299.0	414985.00	764475.00
FTP (DL 7 Fed #709H)	12375.0	281.0	-299.0	414735.00	764475.00
TGT 1 (DL 7 Fed #709H)	12385.0	3770.7	-324.8	418757.70	764449.20
TGT 2 (DL 7 Fed #709H)	12395.0	6871.0	-344.4	421858.00	764429.55
FBHL (DL 7 Fed #709H)	12405.0	10099.0	-364.9	425096.00	764405.10

