

Submit 1 Copy To Appropriate District
Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
October 13, 2009

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-42943 ✓
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐ ✓
2. Name of Operator COG Operating LLC		6. State Oil & Gas Lease No.
3. Address of Operator 2208 W. Main Street, Artesia, NM 88210		7. Lease Name or Unit Agreement Name Vast State ✓
4. Well Location Unit Letter <u>O</u> : <u>210</u> feet from the <u>South</u> line and <u>1620</u> feet from the <u>East</u> line Section <u>17</u> Township <u>26S</u> Range <u>33E</u> NMPM <u>Lea</u> County		8. Well Number 3H ✓
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3263'		9. OGRID Number 229137 ✓
		10. Pool name or Wildcat Red Hills; Upper Bone Spring Shale ✓

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
OTHER ☒ BHL Change

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG Operating LLC respectfully requests approval for the following changes to the original approved APD.

BHL

From: 330' FNL & 990' FEL Section 17. T26S. R33E.
To: 50' FNL & 990' FEL Section 17. T26S. R33E. (LTP will be at 330' FNL)

C102 attached.

Drilling

Changes attached.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Mayte Reyes

TITLE: Regulatory Analyst

DATE: 5/5/2016

Type or print name: Mayte Reyes

E-mail address: mreyes1@conchoresources.com

PHONE: (575) 748-6945

For State Use Only

APPROVED BY:

TITLE Petroleum Engineer

DATE 06/10/2016

Conditions of Approval (if any):

KZ

OCD – HOBBS

5.3.16

05/05/2016

RECEIVED

Information for Sundry for BHL Revision for Vast State #3H

Revised Proposed Depth **14,297'** MD based on a revised BHL of 50' FNL & 990 FEL that will allow us to perforate the lateral at the 330' offset line.

Revised Production Casing and Cement Program

TYPE	HOLE SIZE	CASING SIZE	CASING WT.	SETTING DEPTH	SACKS OF CEMENT	ESTIMATED TOC
PROD	8.75	5.5	17	14,297	2100	0

Casing/Cement Program: Additional Comments

Drill an 8-3/4" vertical, curve and lateral to ~14,297' with Brine/Cut Brine. Run 5-1/2" 17# P 110 LTC. Cement in one stage circulating cement to 300' inside 9-5/8" intermediate casing.

No other changes. Revised Plat and Directional Drilling Program Attached.



COG Production L L C
Project: Lea County, NM (NAD27 NME)
Site: Sec. 17, T 26 S. , R 33 E
Well: Vast State 3H
Wellbore: Wellbore #1
Plan: Plan#2 (Vast State 3H/Wellbore #1)

Scandrill Freedom

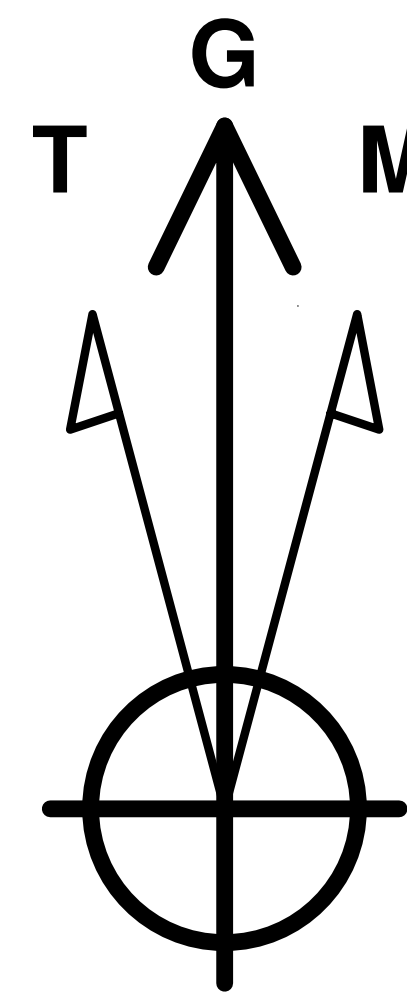
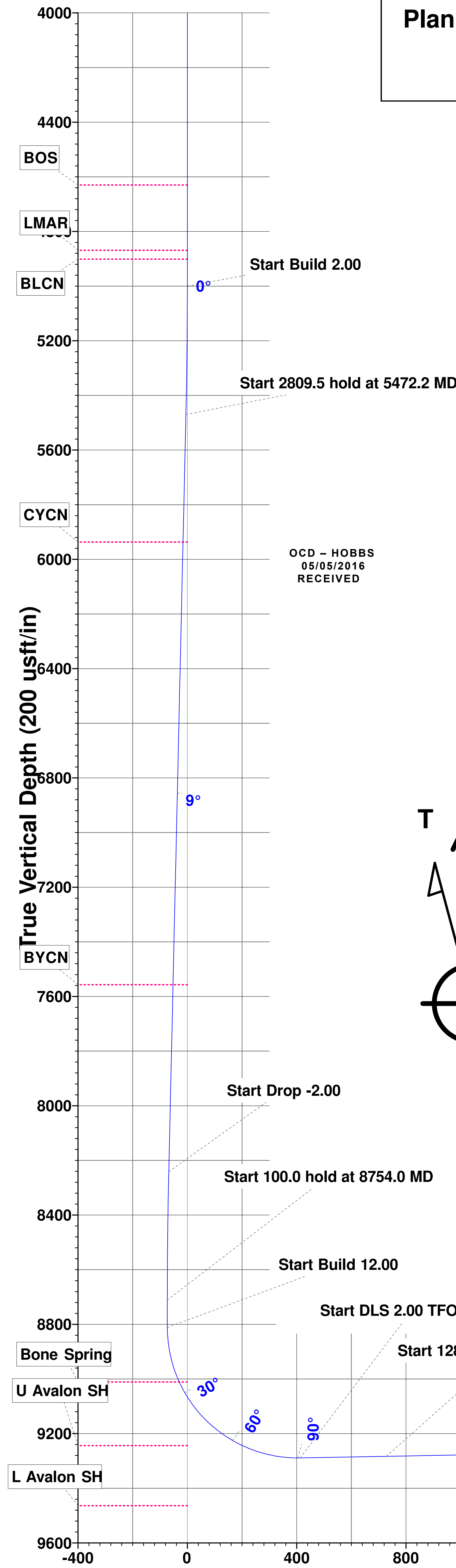
WELL DETAILS: Vast State 3H

Ground Elevation:: 3263.0
RKB Elevation: KB=26' @ 3289.0usft (Scandrill Freedom)
Rig Name: Scandrill Freedom

Northing 377872.30 Easting 730181.40 Latitude 32° 2' 12.155 N Longitude 103° 35' 25.847 W

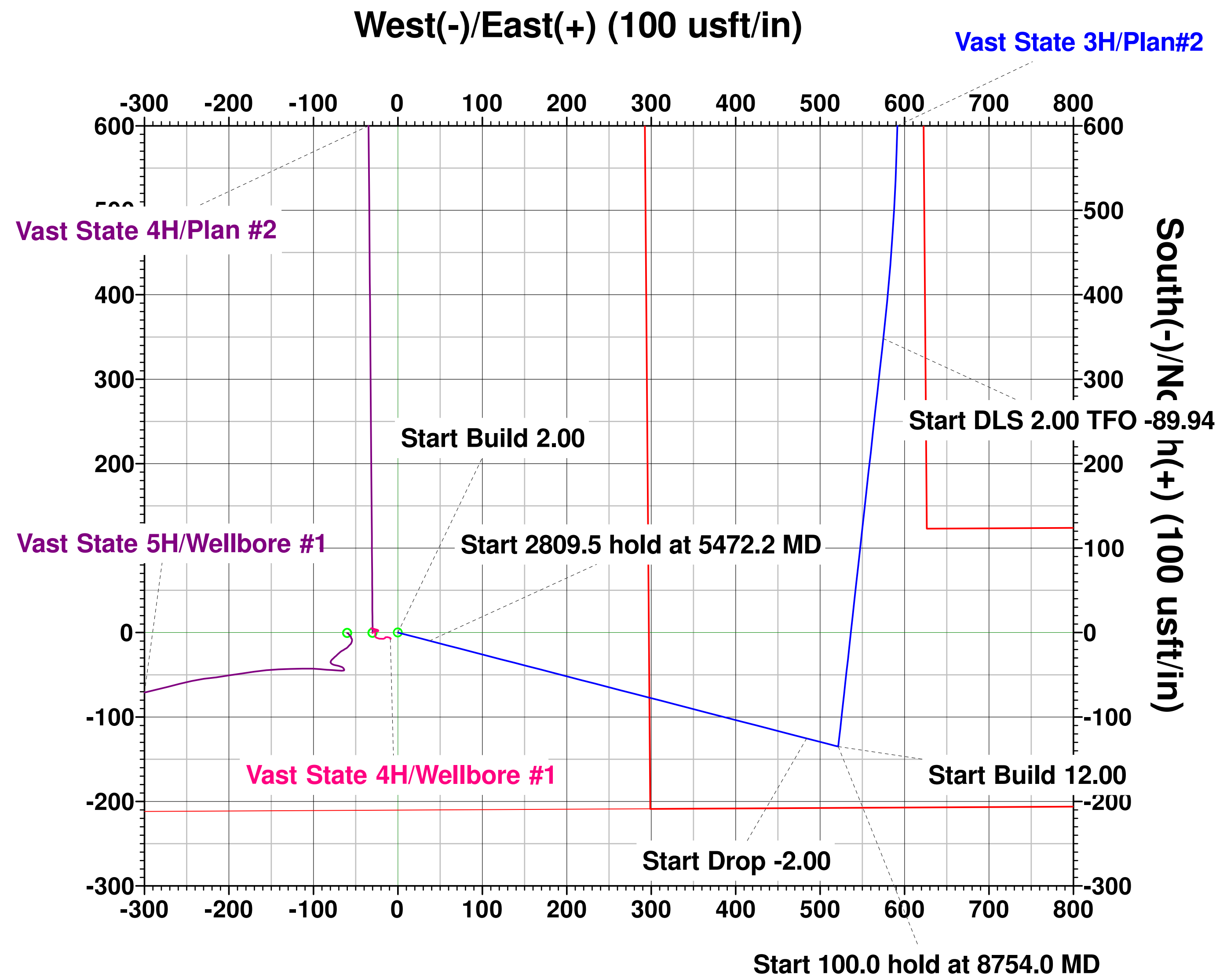
Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5000.0	0.00	0.00	5000.0	0.0	0.0	0.00	0.00	0.0	
3	5472.2	9.44	104.51	5470.1	-9.7	37.6	2.00	104.51	-5.3	
4	8281.7	9.44	104.51	8241.5	-125.3	483.9	0.00	0.00	-67.9	
5	8754.0	0.00	0.00	8711.6	-135.0	521.5	2.00	180.00	-73.2	
6	8854.0	0.00	0.00	8811.6	-135.0	521.5	0.00	0.00	-73.2	
7	9612.6	91.04	6.30	9289.0	348.2	574.8	12.00	6.30	412.9	Vast State 3H PBHL RevA0
8	9928.3	91.04	359.99	9283.3	663.2	592.1	2.00	-89.94	727.8	
9	11209.5	91.04	359.99	9260.0	1944.2	591.8	0.00	0.00	2000.0	Vast State 3H PBHL RevA0
10	11287.0	92.59	359.99	9257.5	2021.6	591.8	2.00	0.00	2076.9	
11	13225.4	92.59	359.99	9170.0	3958.0	591.3	0.00	0.00	4000.0	Vast State 3H PBHL RevA0
12	13261.9	91.86	359.99	9168.6	3994.5	591.3	2.00	-180.00	4036.2	
13	14297.4	91.86	359.99	9135.0	5029.5	591.0	0.00	0.00	5064.1	Vast State 3H PBHL RevA0



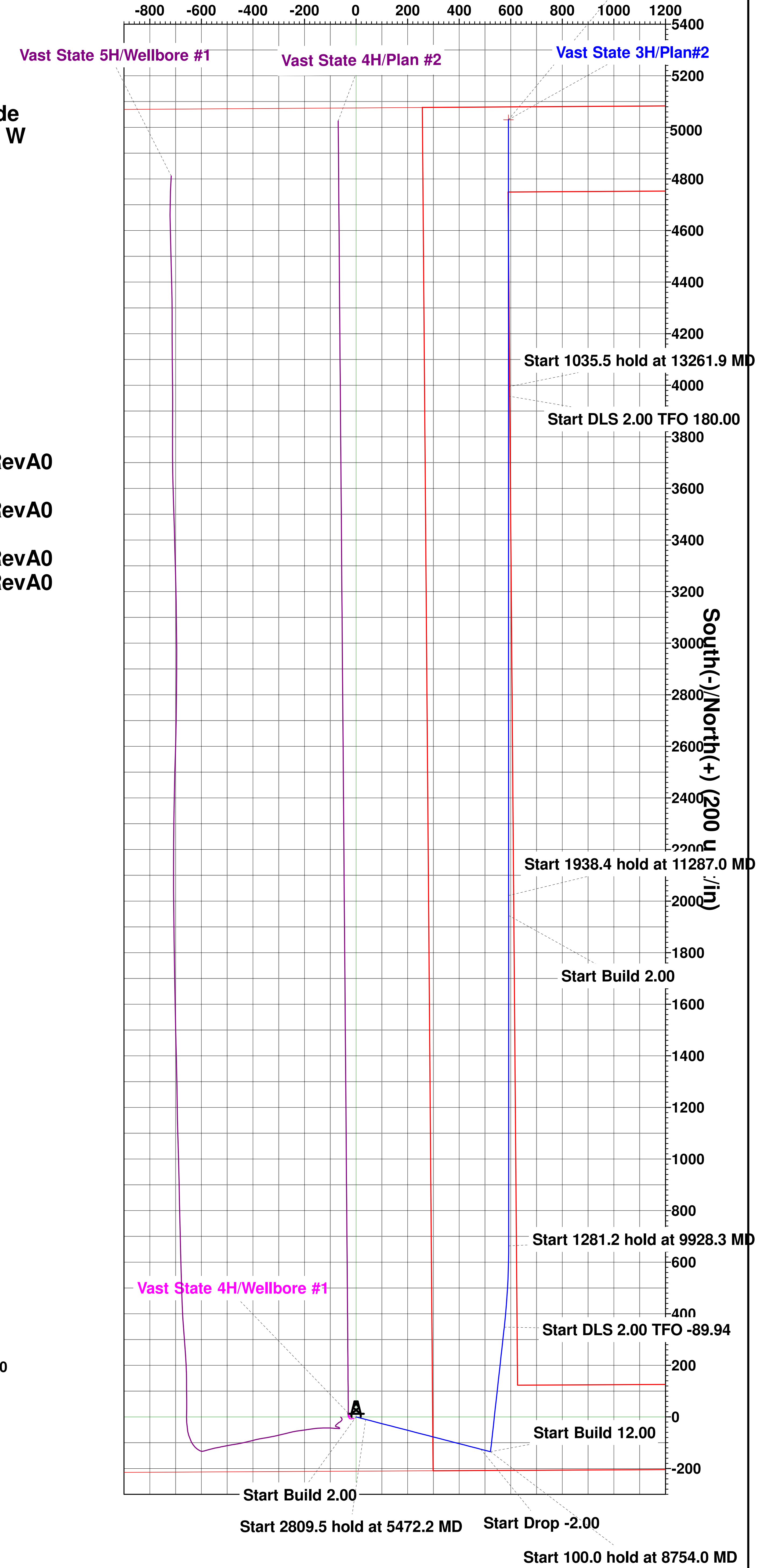
Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.69°

Magnetic Field
Strength: 47956.1snT
Dip Angle: 59.90°
Date: 3/10/2016
Model: IGRF2015



Vertical Section at 6.70° (200 usft/in)

West(-)/East(+) (200 usft/in) Vast State 3H PBHL RevA0



PROJECT DETAILS: Lea County, NM (NAD27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid



Integrity Directional Services