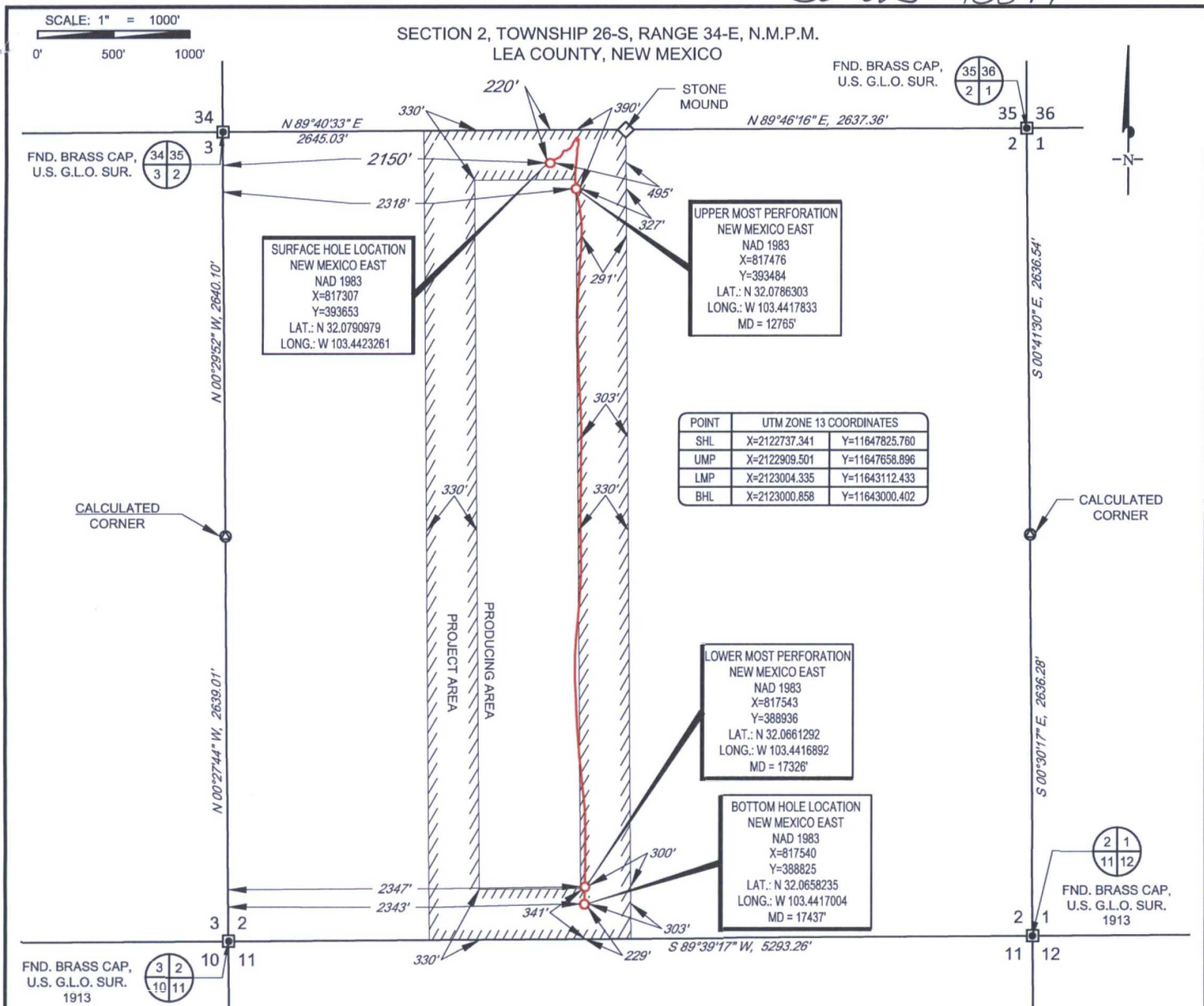




LEASE NAME & WELL NO.: RUBY 2 STATE COM #704H
SECTION 2 TWP 26-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3294'
DESCRIPTION 220' FNL & 2150' FWL



Michael Blake Brown, P.S. No. 18329
JANUARY 16, 2017



 **TOPOGRAPHIC**
LOYALTY INNOVATION LEGACY

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RUBY 2 STATE #704H AS-COMPLETED	REVISION:		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 OF 1983, EAST ZONE, U.S. SURVEY FEET. 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.
DATE: 01/16/2018			
FILE:AD_RUBY2STATECOM_704H			
DRAWN BY: IMU			
SHEET: 1 OF 1			

HOBBS OCD
JAN 31 2018
RECEIVED



Lea County, NM (NAD 83 NME)

Ruby 2 State Com #704H

HP 620

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: #704H

Ground Level: 3294.0
KB = 25' @ 3319.0usft (HP 620)
Northing 393653.00 Easting 817307.00 Latitude 32° 4' 44.756 N Longitude 103° 26' 32.369 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4440.0	0.00	0.00	4440.0	0.0	0.0	0.00	0.00	0.0	
3	4640.0	4.00	44.00	4639.8	5.0	4.8	2.00	44.00	-4.8	
4	7807.9	4.00	44.00	7800.0	164.0	158.4	0.00	0.00	-157.0	
5	8007.9	0.00	0.00	7999.8	169.0	163.2	2.00	180.00	-161.9	
6	12186.6	0.00	0.00	12178.6	169.0	163.2	0.00	0.00	-161.9	
7	12932.7	89.52	179.50	12656.0	-304.5	167.4	12.00	179.50	311.4	
8	15322.7	89.52	179.50	12676.0	-2694.4	188.4	0.00	0.00	2700.0	TGT 1 (Ruby 2 Fed Com #704H)
9	15327.1	89.44	179.50	12676.0	-2698.7	188.4	2.00	177.34	2704.3	PBHL (Ruby 2 Fed Com #704H)
10	17455.6	89.44	179.50	12697.0	-4827.0	207.0	0.00	0.00	4831.4	



Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.45°
Magnetic Field
Strength: 47907.3snT
Dip Angle: 59.96°
Date: 1/23/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.45°
To convert a Magnetic Direction to a True Direction, Add 6.93° East
To convert a True Direction to a Grid Direction, Subtract 0.47°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT 1 (Ruby 2 Fed Com #704H)	12676.0	-2694.4	188.4	390958.50	817495.39
PBHL (Ruby 2 Fed Com #704H)	12697.0	-4827.0	207.0	388826.00	817814.00
FTP (Ruby 2 Fed Com #704H)	12656.0	-109.0	168.0	393544.00	817473.00
KOP (Ruby 2 Fed Com #704H)	12178.6	169.0	163.2	393922.00	817476.20

