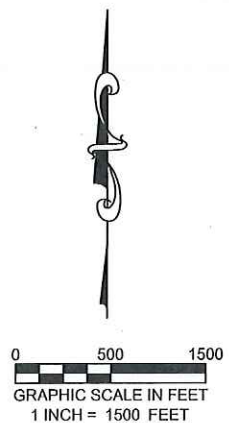


MDP 25.dmg 2/15/2017 13:52:27



BOTTOM HOLE LOCATION
 816 FNL, 644 FEL
 Lat.: 39.475214°
 Long.: -107.551629
 N.: 1604515.1 (COSP)
 E.: 2420907.5 (COSP)

EXISTING GROUND ELEV.: 6539.8
PROPOSED PAD ELEV.: 6540.4

FIELD LOCATED SECTION
MONUMENTS AS DESCRIBEDFIELD SURVEYED
WELL LOCATION

CALCULATED BOTTOM HOLE LOCATION

CALCULATED SECTION
CORNER LOCATION

- 1) ELEVATIONS BASED ON N.A.V.D. 1988 PUBLISHED COORDINATES.
- 2) LATITUDES AND LONGITUDES ARE BASE ON NAD 83,
PUBLISHED COORDINATES
- 3) STATE PLANE COORDINATES ARE BASED ON COLORADO
CENTRAL ZONE, U.S. SURVEY FEET.
- 4) ELEVATION MASK SET TO 15°
- 5) GPS OPERATOR J. KIRKPATRICK, OBSERVED A PDOP 1.8 ON
SURVEY POINT NUMBER 251.
- 6) SURFACE AND BOTTOM HOLE LOCATIONS ARE MEASURED 90°
FROM SECTION LINES.

I, MICHAEL J. LANGHORNE, A REGISTERED LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON WAS PREPARED UNDER MY DIRECT SUPERVISION AND HAS BEEN STAKED ON THE GROUND AS SHOWN ON THE PLAT AND CHECKING THAT THIS MAP IS A TRUE REPRESENTATION THEREOF.

MICHAEL J. LANGHORNE, COLORADO REGISTRATION NO. 36572
FOR AND ON BEHALF OF
BOOKCLIFF SURVEY SERVICES, INC.

1) Corrective Dependent Resurvey T. 6 S., R. 91 W., 6th P.M (BLM PLAT)
2) Dependent Resurvey T. 7 S., R. 91 W., 6th P.M (BLM PLAT)
3) U.S.G.S. QUAD: Gibson Gulch, CO

REVISED: 2/15/17

SURVEY DATE: 11/11/16
 MAP DATE: 11/18/16
 SCALE: 1" = 1500'
 PLAT: 1 of 10
 PROJECT: VG

WELL LOCATION PLAT Prepared for:



VANGUARD
OPERATING, LLC

Vanguard Operating, LLC

SE1/4 SW1/4, SECTION 33
T. 6 S., R. 91 W. of the 6th. P.M.
GARFIELD COUNTY, COLORADO

136 East Third Street
Rifle, Colorado
81650 Ph. (970)
625-2720 Fax (970)
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BOOKCLIFF
Survey Services, Inc.