

CSF 41B-4-791

T. 6 S.

2008 BLM Alum Cap
Lat.: 39.491756°
Long.: 107.568306°

N 89°28'41" W

N 89°28'41" W

2008 BLM Alum Cap
Lat.: 39.491953°
Long.: 107.549601°

2639.73'

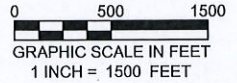
2639.73'

(BASIS OF BEARING)
N 00°47'09" E

2008 BLM Alum. Cap.
Lat.: 39.484482°
Long.: 107.568221°

1982 Alum. Cap LS 14111
Lat.: 39.484850°
Long.: 107.549163°

33



N 00°47'22" E
2649.66'

2308'

SURFACE HOLE LOCATION
682 FSL, 2308 FWL
Lat.: 39.479308°
Long.: -107.559985°
N.: 1606059.0(COSP)
E.: 2418583.3(COSP)

1978 BLM Brass Cap
Lat.: 39.477207°
Long.: 107.568137°

BLM Alum. Cap
Lat.: 39.47721°
Long.: 107.567741°

1978 BLM Alum. Cap
Lat.: 39.477460°
Long.: 107.558979°

2008 BLM Alum Cap
Lat.: 39.477452°
Long.: 107.549364°

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

S 88°41'04" W
111.89'

S 89°17'17" W
2474.71'

N 88°38'21" W

N 00°57'20" E
1333.25'

N 01°21'04" E
1636.85'

LOT 4

LOT 3

LOT 2

LOT 1

N 01°21'04" E
1349.04'

W.C. Alum. Cap LS 28650
Lat.: 39.469748°
Long.: 107.558882°

2002 BLM Alum. Cap
Lat.: 39.470524°
Long.: 107.549312°

N 00°57'20" E
1189.98'

1978 BLM Brass Cap
Lat.: 39.469024°
Long.: 107.567750°

S 85°17'24" W
2617.15'

S 85°19'04" W
2616.57'

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

SEE CONSTRUCTION LAYOUT PLAT
FOR VISIBLE IMPROVEMENTS
WITHIN 500' OF THIS LOCATION

SURVEYORS STATEMENT

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

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

REFERENCES

- 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: 10/9/17

136 East Third Street
Rifle, Colorado
81650 Ph. (970)
625-2720 Fax (970)
625-2773



BOOKCLIFF
Survey Services, Inc.

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

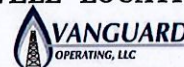
- LEGEND -

- FIELD LOCATED SECTION MONUMENTS AS DESCRIBED
- FIELD SURVEYED WELL LOCATION
- CALCULATED BOTTOM HOLE LOCATION
- CALCULATED SECTION CORNER LOCATION

NOTES

- 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.

WELL LOCATION PLAT Prepared for:



Vanguard Operating, LLC

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