

MARATHON BLACK HOLLOW 8-67-16-3H AS-DRILLED WELL LOCATION PLAT

LOCATED WITHIN NW 1/4 NE 1/4 SECTION 16, T8N, R67W,

OF THE 6TH P.M., WELD COUNTY, COLORADO

MEAS. S 89°09'17" W 2608.24'
REC. S 89°35' W 40.30 CH.

MEAS. N 89°56'42" W 2606.51'
REC. S 89°35' W 40.29 CH.

FOUND 2.5" ALUM.
CAP L.S. 10740 NOT
ACCEPTED

FOUND 2.5"
ALUMINUM PIPE W/
3.25" ALUM. CAP
L.S. 16401

FOUND #6 REBAR
2.5" ALUM. CAP,
L.S. 10740

EXISTING GROUND
ELEVATION AT WELL
SITE 5275.2

SHL

90°

452' FNL

1956' FEL

90°

MEAS. N 00°49'10" E 2637.35'
REC. NORTH 40.00 CH.

CURRENT LAND USE
NON-CROPLAND/ RANGELAND
IMPROVEMENTS:
NONE
PLANT COMMUNITIES:
NATIVE GRASSLAND

S 00°36'02" W
4206.99'

FOUND #6 REBAR
W/ 2.5" ALUM. CAP
L.S. 10740

MEAS. N 00°11'23" W 2627.57'
REC. NORTH 40.00 CH.

FOUND #6 REBAR
W/ 3.25" ALUM.
CAP, L.S. 14823

MEAS. N 00°11'05" W 2627.44'
REC. NORTH 40.00 CH.

FOUND 2.5" STEEL
PIPE W/ 3.25"
ALUM. CAP
L.S. 20701

MEAS. S 89°48'27" W 2556.28'
REC. S 89°39' W 39.83 CH.

MEAS. S 89°48'48" W 2565.69'
REC. S 89°39' W 39.83 CH.

FOUND 2.5"
ALUMINUM PIPE
W/ 3.25" ALUM.
CAP, L.S. 16401

FOUND 2.5"
ALUMINUM PIPE W/
3.25" ALUM. CAP
L.S. 16401

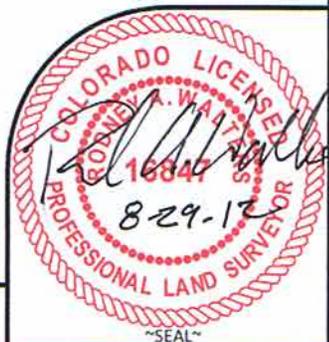


SURFACE HOLE LOCATION	
LAT.	40.667638°
LONG.	104.893708°
LAT.	40.667656°
LONG.	104.893181°
LAT.	40°40'03.50"
LONG.	104°53'37.35"
LAT.	40°40'03.56"
LONG.	104°53'35.45"
NORTH	1486638.26
EAST	3168190.57
NORTH	486637.38
EAST	2168341.31
FOOTAGE: 1956' FEL - 452' FNL	
MEASURE DATE	8/6/2012
INSTRUMENT OPERATOR	RON RENNKE
PDOP	1.7
SHL GRND ELEV.	5275.2

BOTTOM HOLE LOCATION	
LAT.	40.656092°
LONG.	104.893971°
LAT.	40.656111°
LONG.	104.893443°
LAT.	40°39'21.93"
LONG.	104°53'38.30"
LAT.	40°39'22.00"
LONG.	104°53'36.40"
NORTH	1482431.50
EAST	3168146.48
NORTH	482430.69
EAST	2168297.25
FOOTAGE: 1940' FEL - 623' FSL	

I, Rodney A. Walters, Professional Land Surveyor, CO. RLS # 16847 hereby certify that (in accordance with a request from Erin Bibeau with Marathon Oil Co, 5555 San Felipe, Houston, TX 77056) I and or personnel under my direction made a survey on the 6th day of August 2012, for the Surface Hole Location and Elevation of Marathon Oil Co. BLACK HOLLOW 8-67-16-3H being located within NW1/4 NE1/4, Section 16, T8N, R67W, and the Bottom Hole Location being located in the SW1/4 SE1/4 of Section 16, T8N, R67W, both being of the 6th P.M., Weld County, State of Colorado.

- All bearings and distances are GRID, based on the Colorado State Plane Coordinate System, North Zone, North American Datum 1983 from GPS observations occupying a WHS control point (5/8" rebar) and having the Location and Elevation derived from an Opus Solution.
- Vertical Datum used is of NAVD 88.
- Record Bearings and Distances as shown are based on the General Land Office Survey plat approved on the 15th day of November 1870.
- Geographic coordinates for the bottom hole location were taken from the Survey Report - Geographic prepared by Marathon Oil for Black Hollow 8-67-16-3H and dated 7/19/2012.



CONFIDENTIALITY NOTES:
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WILLIAM H. SMITH & ASSOCIATES P.C.
SURVEYING CONSULTANTS
350 EAST SECOND NORTH GREEN RIVER, WY
PHONE: 307-875-3638
307-875-3639
www.wsmithhpc.com

DRAWN BY: LAL
PROJECT NO: 867163H
REVISIONS:

CHECKED BY: RAW
JOB NO: 2011001

LEGEND

- FOUND OR SET CORNER
- ⊗ CALCULATED CORNER
- NOTHING FOUND

LOCATION:
BLACK HOLLOW
8-67-16-3H
WITHIN NW/4 NE /4
SECTION 16,
T 8 N, R 67 W,
6TH PM.
WELD COUNTY,
COLORADO

MARATHON OIL COMPANY
PO BOX 3128, HOUSTON TX, 77253
5555 SAN FELIPE, HOUSTON TX, 77056

AS-DRILLED
WELL LOCATION PLAT

SCALE: 1"=1000'
DATE: 8/28/2012

EXHIBIT "A"
SHEET 1 OF 1