

WHITING OIL & GAS CORP.

R	57	W
<hr/>		
R	58	W

Target Bottom Hole

1917 BLM Brass Cap,
Flush W/ Ground
Lat: 40.817025°
Long: 103.784622°

S89°50'21"E - 2664.91' (Meas.)

1917 BLM Brass
Cap, 1.0' High
Lat: 40.817086°
Long: 103.803497°

2011 Priv. Alum. Cap.
0.2' High, PLS #28285
Lat: 40.817050
Long: 103.794247

NO1.35.01" W

LOT 1

LOT 2

HORSETAIL #30F-1944
Elev. Ungraded Ground = 4782'

30

2012 Priv. Alum. Cap.
Flush W/ Ground
Lat: 40.809803°
Long: 103.803386°

LOT 3

$N89^{\circ}17'46''W - 2514.76'$ (Meas.) $N89^{\circ}42'21''W - 2660.62'$ (Meas.)

1917 Brass Cap,
0.4' High
Lat: 40.802425
Long: 103.78444

1917 Brass Cap,
1.8' High
Lat: 40.802467°
Long: 103.794042°

LEGEND:

$\quad = 90^\circ$ SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

$$\text{PDOP} = 1.4$$

NAD 83 (SURFACE LOCATION)

LATITUDE = 40°48'38.46" (40.810683)

LONGITUDE = 103 47 46.88

NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°48'38.51"	(40.810697)
LONGITUDE = 103°47'45.07"	(103.795853)

UTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL UTAH 84078

(435) 789-1017

SCALE 1" = 1000'

DATE SURVEYED:	DATE DRAWN:
10-14-13	10-25-

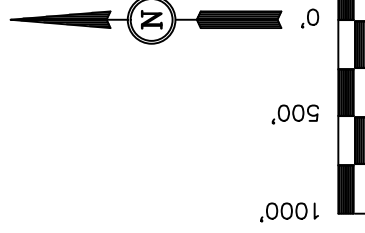
REFERENCES

G.L.O. P.

3713

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WHITING OIL & GAS CORP.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE (P.S.A.) WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 28285
STATE OF COLORADO

T10N, R57W, 6th P.M.

WHITING OIL & GAS CORP.

2011 UELS Alum. Cap.
Cap. RLS #17492
Lat: 40.831603°
Long: 103.803653° N89°56'55"E
2539.76' (Meas.)

2011 UELS Alum. Cap.
Flush W/ Ground, RLS #17492
Lat: 40.831606°
Long: 103.794478°

1917 BLM Brass Cap.
0.5' High
Lat: 40.831611°
Long: 103.784878°

N89°55'14"E - 2657.22' (Meas.)

HORSETAIL #30F-1944

Target Bottom Hole

LOT 1

LOT 2

LOT 3

LOT 4

1917 BLM Brass Cap.
2.0' High
Lat: 40.824336°
Long: 103.803572°

7527.26'
N01°35'01"W

NOTE:
THE PROPOSED TARGET BOTTOM HOLE
BEARS N01°35'01"W 7527.26' FROM THE
PROPOSED WELL HEAD WHICH IS LOCATED IN
THE SE 1/4 NW 1/4 OF SECTION 30, T10N,
R57W, 6th P.M. AT 2323' FNL 1950' FWL.

19

N00°28'24"W - 2642.62' (Meas.)

R R
58 57
W W

N89°44'58"W - 2560.47' (Meas.)
2011 Priv. Alum. Cap.
0.2' High, PLS #28285
Lat: 40.817050°
Long: 103.794247°

N89°50'21"W - 2664.91' (Meas.)

1917 BLM Brass Cap.
Flush W/ Ground
Lat: 40.817025°
Long: 103.784622°

LEGEND:

— = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

Surface Location

NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°49'52.79" (40.831331)
LONGITUDE = 103°47'49.54" (103.797094)
NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 40°49'52.84" (40.831344)
LONGITUDE = 103°47'47.73" (103.796592)

Well location, HORSETAIL #30F-1944 (TARGET
BOTTOM HOLE), located as shown in the NE 1/4
NW 1/4 of Section 19, T10N, R57W, 6th P.M.,
Weld County, Colorado.

BASIS OF ELEVATION

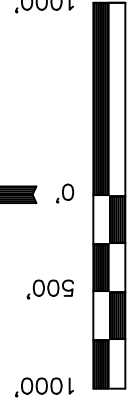
SPOT ELEVATION LOCATED AT THE NORTHEAST CORNER OF
SECTION 15, T9N, R58W, 6th P.M. TAKEN FROM THE
GATEHOOK SPRING, QUADRANGLE, COLORADO, WELD COUNTY,
7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL
SURVEY. SAID ELEVATION IS MARKED AS BEING 4679 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



1917 BLM Brass Cap.
0.4' High
Lat: 40.824294°
Long: 103.784750°



SCALE

CERTIFICATE

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FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.



UNTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-14-13	DATE DRAWN: 10-25-13
PARTY D.L.S. D.M.S. J.S.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE	WHITING OIL & GAS CORP.