

Surface Location ● T10N, R57W, 6th. P.M.

WHITING OIL & GAS CORP.

Well location, HORSETAIL #08D-1703 (TARGET BOTTOM HOLE), located as shown in the SW 1/4 SW 1/4 of Section 17, 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, Brass Cap,  
0.4' High  
Lat: 40.846200°  
Long: 103.785111°  
N89°33'26"E  
2653.00' (Meas.)

1917, Brass Cap,  
0.1' High  
Lat: 40.846250°  
Long: 103.775522°  
N89°32'55"E - 2651.12' (Meas.)  
500°40'22"E - 2657.00' (Meas.)

2011, Alum. Cap,  
0.4' Below Ground  
Lat: 40.836908°  
Long: 103.784997°  
S02°21'26"E  
10161.20'

17

NOTE:  
THE PROPOSED TARGET BOTTOM HOLE BEARS S02°21'26"E 10161.20' FROM THE PROPOSED WELL HEAD WHICH IS LOCATED IN THE NW 1/4 NW 1/4 OF SECTION 8, T10N, R57W, 6th. P.M AT 380' FNL 560' FWL.

2011, Alum. Cap,  
0.4' High  
Lat: 40.839011°  
Long: 103.765839°

500°47'26"E - 2659.55' (Meas.)

HORSETAIL  
#08D-1703  
Target  
Bottom Hole

1917, Brass Cap,  
0.5' High  
Lat: 40.831661°  
Long: 103.775292°

1917, Brass Cap,  
0.5' High  
Lat: 40.831661°  
Long: 103.784878°  
S89°34'38"W  
2653.48' (Meas.)  
S89°32'06"W - 2651.09' (Meas.)  
0.6' High  
Lat: 40.831714°  
Long: 103.765714°

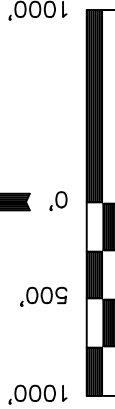
LEGEND:

└─ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)  
LATITUDE = 40°49'54.85" (40.831903)  
LONGITUDE = 103°46'54.85" (103.781903)  
NAD 27 (TARGET BOTTOM HOLE)  
LATITUDE = 40°49'54.90" (40.831917)  
LONGITUDE = 103°46'53.04" (103.781400)



S C A L E

CERTIFICATE OF REGISTRATION  
THIS IS TO CERTIFY THAT THE ABOVE DATA 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  
EXPIRATION DATE 12-31-13  
[Signature]

UNTAH ENGINEERING & LAND SURVEYING	
85 SOUTH 200 EAST - VERNAL, UTAH 84078	
(435) 789-1017	
SCALE 1" = 1000'	DATE SURVEYED: 11-26-13
PARTY DALLAS NIELSEN G.W. H.K.W.	DATE DRAWN: 12-20-13
WEATHER COLD	REFERENCES G.L.O. PLAT
FILE WHITING OIL & GAS CORP.	

T10N, R57W, 6th. P.M.

WHITING OIL & GAS CORP.

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BASIS OF ELEVATION

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BASIS OF BEARINGS

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

1917, Brass Cap,  
1.2' High  
Lat: 40.860800°  
Long: 103.766292°

S89°46'18"E - 2647.47' (Meas.)

HORSETAIL  
#08D-1703  
Elev. Ungraded  
Ground = 4960'

N89°39'33"E - 2648.48' (Meas.)

N00°55'43"W - 2661.06' (Meas.)

2006, Alum. Cap,  
0.1' Below Ground  
Lat: 40.853497°  
Long: 103.785283°

N01°04'20"W - 2659.64' (Meas.)

S02°21'26"E  
10161.20'

NOTE:  
THE PROPOSED TARGET BOTTOM HOLE FOR  
THIS WELL IS LOCATED IN THE SW 1/4 SW  
1/4 OF SECTION 17, T10N, R57W, 6th. P.M.,  
AT 100' FSL 825' FWL IT BEARS S02°21'26"E  
10161.20' FROM THE PROPOSED WELL HEAD.

1917, Brass Cap,  
1.6' High  
Lat: 40.853608°  
Long: 103.766106°

S01°00'42"E - 2662.95' (Meas.)

1917, Brass Cap,  
0.1' High  
Lat: 40.846250°  
Long: 103.775522°

S89°32'55"W - 2651.12' (Meas.)

1917, Brass Cap,  
0.4' High  
Lat: 40.846200°  
Long: 103.785111°

S89°33'26"W  
2653.00' (Meas.)

Target  
Bottom Hole

LEGEND:

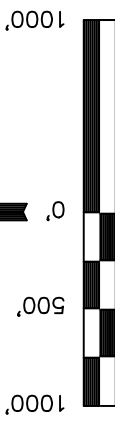
- └─ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°51'35.14"	(40.859761)
LONGITUDE = 103°47'00.20"	(103.783389)
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°51'35.20"	(40.859778)
LONGITUDE = 103°46'58.39"	(103.782886)

PDOP = 1.5

SCALE	1" = 1000'	DATE SURVEYED:	11-26-13	DATE DRAWN:	12-20-13
PARTY	DALLAS NIELSEN	G.W.	H.K.W.	REFERENCES	G.L.O. PLAT
WEATHER	COLD	FILE	WHITING OIL & GAS CORP.		

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STATE OF COLORADO  
J. D. [Signature]  
JAN 20 2014