

Whiting Oil & Gas Corp.
Wildhorse_04-0424H Drill Plan – Pilot Hole
December 5, 2011

Summary:

The Wildhorse_04-0424H well will be a horizontal well in the Niobrara formation. The well will have a vertical pilot hole drilled to 6,792' TVD. Logs will be run in the vertical pilot hole to identify the target zone in the Niobrara. A cement kick off plug will be set in the vertical pilot hole and the curve will be built to land the 7" casing in the Niobrara. The lateral will be drilled with a 6" bit to TD at 10,349' MD. 4-1/2" casing with swell packers will be run in the lateral for completion.

Surface Location: 4-T9N-R59W
320' FNL 1954' FWL
Weld County, Colorado

Bottomhole Location: 4-T9N-R59W
320' FNL 1954' FWL
Weld County, Colorado

DRILLING PROGRAM

1. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Ground Level 5,095' Estimated KB 5,110' (15')

<u>Formation</u>	<u>MD</u>	<u>Lithology</u>	<u>Hazard</u>
Fox Hills	Surface	Sandstone, shale, coal	Water
Pierre	803'	Ss and dark grey shale	None
Niobrara	6,617'	Chalk, limey shale, shale	Oil, gas, fractures
Horizontal Target	6,292'	Chalk, marl	Oil, gas, fractures
Codell	6,492'	Sandstone	Oil, gas
Greenhorn	6,588'	Silty shale, shaley sand	Oil, gas
Base Greenhorn	6,680'	Silty shale, shaley sand	Oil, gas
TD Pilot Hole	6,792'		

2. PRESSURE CONTROL EQUIPMENT

A. Type: 11" 3000 psi double ram hydraulic BOP.
11" 3000 psi annular preventer
5,000 psi Casinghead
5,000 psi Tubinghead.

Rotating Head
11", 500 psi

B. Testing Procedure:

The annular preventer will be pressure tested to 50% of stack rated working pressure for ten (10) minutes or until provisions of test are met, whichever is longer. The BOP, choke manifold, and related equipment will be pressure tested to approved BOP stack working pressure (if isolated from surface casing by a test plug) or to 70% of surface casing internal yield strength (if BOP is not isolated by a test plug). Pressure will be maintained for ten (10) minutes or until the requirements of the test are met, whichever is longer. At a minimum, the Annular and Blow-Out Preventer pressure tests will be performed:

1. When the BOPE is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

Annular will be function tested weekly, and pipe & blind rams activated each trip, but not more than once per day. All BOP drills & tests will be recorded in IADC driller's log.

C. Choke Manifold Equipment:

All choke lines will be straight lines whenever possible at turns, tee blocks will be used or will be targeted with running tees, and will be anchored to prevent whip and vibration.

D. Accumulator:

Accumulator will have sufficient capacity to open hydraulically-controlled choke line valve (if so equipped), close all rams plus annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double accumulator capacity and the fluid level will be maintained at manufacturer's recommendations. Accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack.

E. Miscellaneous Information:

Choke manifold and BOP extension rods with hand wheels will be located outside rig sub-structure. Hydraulic BOP closing unit will be located at least twenty-five (25) feet from the wellhead but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole. A flare line will be installed after the choke manifold with the discharge point of the flare line to a separate pit located at least 125 feet away from the wellbore and any existing production facilities.

3. PROPOSED CASING PROGRAM

<u>Hole Size</u>	<u>Setting Depth (MD)</u>	<u>Casing Size</u>	<u>Wt./Ft.</u>	<u>Grade</u>	<u>Thread</u>
13-1/2"	900'	9-5/8"	36.0	J-55	LTC
8-3/4"	6,792'	Open Hole to be plugged for 150' from 5800' to 5950'			

4. PROPOSED CEMENTING PROGRAM

SURFACE: TOC Surface (25% Excess, TOL: Surface)

Lead: 567 cu-ft; 405 sacks Type III Cement + 0.08 lbs/sack Static Free + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 60.4% Fresh Water.

<u>Cement Properties</u>	<u>Lead Slurry</u>
Slurry Weight (ppg)	14.5
Slurry Yield (cf/sack)	1.4

5. MUD PROGRAM

<u>Depth (MD)</u>	<u>Mud System</u>	<u>MW</u>	<u>PV</u>	<u>YP</u>	<u>FL</u>
0 - 900'	Water, Gel/Lime Sweeps	8.3 – 8.5	0 - 6	0 - 4	NC
900' – 6,589'	Water, Gel/Lime Sweeps	8.4 – 8.5	0 - 6	0 - 4	NC

6. TESTING, LOGGING AND CORE PROGRAMS

Cores: None planned

DST: None planned

Surveys: Deviation surveys every 500' to TD in both surface and production hole.

Mud Logger:

Samples: 30' samples surface to 6,167'
10' samples 6,167' to TD

Open Hole Logging Program:	Triple Combo	TD to Surface Casing
	Sonic Scanner	TD to 6,167'
	FMI	TD to 6,167'

7. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES:

No abnormal pressures are anticipated. No H₂S gas is anticipated.

Anticipated bottom hole pressure is 2,941 psi (0.433 psi/ft) at 6,792' TVD at the base of the Greenhorn and the maximum anticipated surface pressure equals approximately 1,447 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

8. ANTICIPATED STARTING DATE AND DURATION:

Dirt work startup: December 2011

Spud: December 2011

Duration: 25 – 35 days