

## Deal Gulch 2-16

## Proposed Schematic

30-Jun-12

<b>Field:</b> WFU	<b>AFE / Network #:</b> 0	<b>LAT:</b> 0
<b>County:</b> Moffat	<b>Shell Working Interest:</b> 100%	<b>LONG:</b> 0
<b>Township:</b> Sec: 16, Twp: 5n, Rng: 90W	<b>AFE Drilling Cost:</b> \$0	<b>Ground Elevation:</b> 7210 ft (surveyed)
<b>Rig:</b> Savanna 650	<b>Plan Days:</b> 0	<b>RKB to Ground:</b> 16.5 ft
<b>Permit API:</b> 0		<b>RKB Elevation:</b> 7226.5 ft

**Objectives: Drill Surface and Intermediate into top of Niobrara  
Drill Lateral to total MD without losses**

**Wellbore Schematic Data:**

Activity / Material	Depth (ft)
30" Hole drilled to	90
20" pipe (0.25") set @	90
Cement to surface	-
13-1/2" Hole drilled to	1500
10-3/4" 40.5# J-55 STC @	1500
Cement to surface	-
7-7/8" Hole drilled to	5080
5-1/2" 17# N-80 H-511 @	8369
Cement 5329' to 4630'	-

  

NOTES	Casing
Notify COGCC according to NW Notifications Test BOPs to 2000 psi Test 10-3/4" csg to 1500 psi for 30 min Test 5-1/2" csg to 1500 psi for 30 min	<b>Surface:</b> 10 3/4" 40.5# J-55 R3 ST&C 0-1500 ft  <b>Production:</b> 5 1/2" 17# N-80 R3 H511 0-5080' TVD/8368' MD
Cement	DRILLING FLUIDS
<b>Surface:</b> Lead: 14.5 ppg Class G/Pozmix Blend-608 Sacks Tail: 15.8 ppg Class G-185 sacks TOC: Surface, Cement Btm: 1500' TVD  <b>Production:</b> 9.5 ppg LiteCrete, Hole Size: 7-7/8", Cement TOC: 4630' TVD, Cement Btm: 5329' TVD. Est Sacks: 68 Stage tool: 5329' TVD	<b>Surface:</b> Clear Gyp Water Hi-Vis Sweeps as needed <b>Intermediate:</b> Clear Gyp Water + Air Begin with 350 SCFM + 350 GPM Watch Cuttings return to gauge cleaning <b>Production:</b> Aerated OBM <b>Follow WFT Program use PWD to watch BHP. Consult Engineer as needed.</b>

  

**Stage Tool 5329'**

**TOE AT 5,080' TVD / 8,368' MD**

**HEEL AT 5,200' TVD / 5,841' MD**