

**State 7-51-33-12**

API: 05-075-09383

671' FNL &amp; 1,888' FEL Sec 33-T7N-R51W, Washington Co., CO

KB: 4,510' (12') GL: 4,498'

- Surface Casing:** 8.625" OH to 466'  
7" 17# H-40 ST&C @ 466'  
TOC – Surface
- Production Casing:** 6.125" OH to 4,299'  
4-1/2" 10.5 # J-55 ST&C @ 4,299' (80% burst 3,830 psi)  
PBSD @ 4,287'  
TOC @ 3,350'
- Objective:** Perforate and test **Beecher Island** Limestone from **3,946-3,962'**
- Notes:** **All water to contain MA-844 at 2 gpt.**  
Track all fluid volumes used during completions.  
Record any/all flowback data every hr including flowing and shut in pressures, ck size and fluid volumes recovered.  
Record all available data in WellView.
- Directions:** 76 north to exit 125, turn right 400 yrds to 61, turn right, go 4.9 miles, turn right on CR 53, go 3.5 miles, gate on left, follow two track to well.

**Procedure:**

1. MIRU WL. Run CBL, GR & CCL from TD to surface. If bond looks poor, put 1,000 psig on casing and re-run. RDMO WL.
2. MIRU service rig. NU BOPE. Test BOP & casing flange to 1,000 psig.
3. RU hydro-testers , pressure test 4-1/2" 10.5 # J-55 to 3,000 psi. RD hydro-testers.
4. RIH and swab casing down to 3,800'.
5. RU perforators and perforate Beecher Island from 3,946-3,962' with 3 jsfp, 60 deg phasing (48 holes).

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7. PU 1 jt 2-3/8" tubing, 4-1/2" retrievable packer, 2-3/8" tubing, TIH and land tubing at +/- 3,850'. Prep to swab test and evaluate gas/fluid entry.
8. Load tubing with 2% KCl water. RU pump truck and pump 50 BBL 2% KCl DFIT at 6-8 BPM. Start recording surface pressures with an electronic memory recorder **before** and **after** the pumping event takes place. Record data in 1 sec increments as well as 0.01 psi increments on pressure recorder. The well and gauges must be isolated from the pumping equipment. Monitor pressure fall-off for 6+ hrs after pumping event. Release packer and TOOH in preparation to frac. Halliburton DFIT procedure attached. Have Maverick evaluate DFIT for permeability.
9. RU Maverick Stimulation and frac Beecher Island down 4-1/2" casing with 70Q N2 foam (job design to be determined).
10. Initiate flowback on a 14/64" choke to pit switching to flat tank when flowing pressures allow. All flared gas to be run through a flare incinerator system to minimize observed flaring.
11. If well logs off, TIH w/ 2-3/8" tubing, profile nipple, remainder of tubing. EOT to be determined.
12. ND BOP's, NU wellhead.

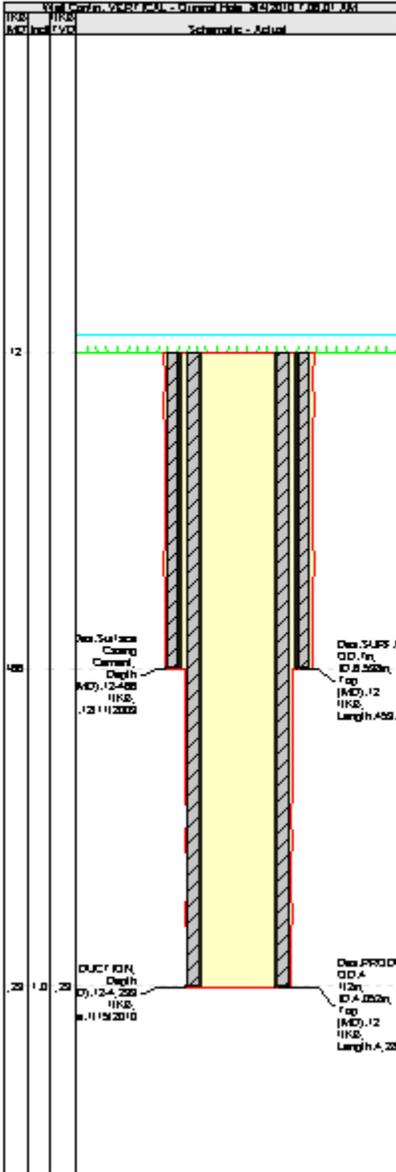
Ron Parham – 8-4-2010

### Casing, Liner and Cement report

Well Name: STATE 7-51-33-12

PRODUCTION

Reference UWI (XPT) DS07509363	License Surface Location Sec. 33 T7N - R51W	License Field Name WILDCAT	License Permit # DS-075-08363	Provisional State COLORADO	Well Configuration Type VERTICAL
Ground Elevation (ft) 4,436.00	Casing Flange Elevation (ft)	R3-Ground Distance (ft) 12.00	R3-Casing Flange Distance (ft)	Spud Date 12/10/2009 07:00	Plg Release Date 1/18/2010 15:00



Borehole #		Actual Bottom Hole UWI (XPT) DS0750936300	
Profile Type VERTICAL	Rock Off Depth (HKS)	Vertical Section Division (')	
Section	Start (ft)	End Top (HKS)	End Btm (HKS)
SURFACE	8.56	12.0	465.5
PRODUCTION	6.18	465.5	4,299.0
Wellhead			
Type			
Description	Make	Model	SN
Last Mud Check			
Date	Type	Depth (HKS)	Core (ft/gal)
12/17/2009		9.00	37
Casing			
Casing Description PRODUCTION	Run Date 1/15/2010 00:00	Set Depth (HKS) 4,299.0	Source Original Hole, DS0750936300
Casing Details			
Item Description	OD (in)	ID (in)	Weight (lb/ft)
Casing Joints	4.1/2	4.052	10.50
Cement: Production Casing Cement			
Cementing Start Date 1/15/2010	Cementing End Date 1/15/2010	Source Original Hole, DS0750936300	
Cement Evaluation Method			
Cement Supervisor			
Cement Stage: Production Casing Cement			
Top (HKS) 12.0	Bottom (HKS) 4,299.0	Final Plug?	Bottom Plug?
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Q (sq ft) (bbl/min)	Final Pump Pressure (psi)
Pipe Recip. (rpm)	Stroke (ft)	Recip. (rpm)	Pipe RPM (rpm)
Depth Tagged (HKS)	Tag Method	Plug Depth (HKS)	Oil Col. Control (in)
Cement Fluid: Production Casing Cement			
Fluid Type Lead	Fluid Description	Weight (lb...)	Class Class A
Estimated Top (HKS)	Estimated Bottom (HKS)	Yield (H/sack)	Vol. H2O (gal/sack)
Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hrs)	28 Comp. Strength (psi)
Cement Fluid Additive			
Add	Type	Conc.	
CaCl2			
KCl		2.0	

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