

State 7-51-33-12

API: 05-075-09383

671' FNL & 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 yds 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 UNIT XP1	Licensed Service Location	Licensed Field Name	Licensed Permit #	Provision State	Mail Configuration Type
0507503333	Sec. 33 T12N - R51W	WILDCAT	05-075-03333	COLORADO	VERTICAL
Ground Elevation (ft)	Coast F range Elevation (ft)	Rd-Ground Elevation (ft)	Rd-Coast F range Elevation (ft)	Squad Date	File Release Date
4,496.00		12.00		12/10/2009 07:00	1/18/2010 15:00

Well Location: VESR-CAL - Original Hole 20120017-001-A		Borehole #	
Borehole Name		Borehole Name	
Original Hole		Original Hole	
Vertical Type		Vertical Section Direction (°)	
VERTICAL		0.00	
Section		Surf (in)	
SURFACE		8.56	
PRODUCTION		6.18	
Wellhead		Type	
Description		Make	
Model		SN	
Tag No		Tag No	
Last Mud Check			
Date		Type	
12/17/2009		9.00	
Depth (HRS)		Dens (lb/gal)	
37		9.00	
Cal (10m)		Cal (10m)	
10.00		10.00	
PV OR (g)		PV OR (g)	
10.00		10.00	
Casing			
Casing Description		Run Date	
PRODUCTION		1/15/2010 00:00	
Casing Depth (HRS)		Casing	
4,299.0		Original Hole, 050750335300	
Casing		Casing	
Item Description		OD (in)	
1... Casing Joints		4.12	
ID (in)		4.052	
Weight (lb/ft)		10.50	
Grade		J-55	
Lin (ft)		4,286.87	
Tag (HRS)		12.1	
Blm (HRS)		4,299.0	
Cement: Production Casing Cement			
Cementing Start Date		Cementing End Date	
1/15/2010		1/15/2010	
Cementing Method		Cement Evaluation Results / Comments	
Cement		Supervisor	
Cement Stages: Production Casing Cement			
Top (HRS)		Bottom (HRS)	
12.0		4,299.0	
Initial Pump Rate (bbl/min)		Final Pump Rate (bbl/min)	
0 (bbl/min)		0 (bbl/min)	
Initial Pump Pressure (psi)		Final Pump Pressure (psi)	
0 (psi)		0 (psi)	
Pipe Placement		Pipe Placement	
Strike (ft)		Pipe Placement	
Depth (HRS)		Plug Depth (HRS)	
Top Method		Plug Depth (HRS)	
Cement Fluids: Production Casing Cement		Cement Fluids: Production Casing Cement	
Fluid Type		Fluid Description	
Lead		Weight (lb...)	
90		Class A	
Calculated Top (HRS)		Calculated Bottom (HRS)	
Yield (HRS)		Air Flow Rate (gal/sec)	
Density (lb/gal)		Plastic Viscosity (cp)	
Packing Time (hr)		28 Day Compressive Strength (psi)	
Cement Fluid Additive			
Add		Type	
CaCl2		Conc	
KCl		2.0	

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