

RWSU Monitor wells.

Chevron has many idle wellbores that will be useful to future operations and development opportunities. Our objective is to secure the wellbores to ensure the Weber Formation fluids and pressures are contained and to prevent loss of fluids into the shallower formations. Chevron would like to use some of these TA wellbores as monitor wells. These are the steps:

- Secure the well:
 1. Install an isolation packer as close to the top perforation as possible.
 2. Circulate a packer fluid with Corrosion Inhibitor, Biocide & Oxygen Scavenger into the tubing / casing annulus.
 3. Perform a mechanical integrity test (MIT) on the tubing / casing Annulus at 300 psi for 15 minutes with maximum 10% pressure change.
 4. Install retrievable plug in the tubing near the isolation packer.

- Monitoring:
 1. Complete an MIT on a 5 years interval thereafter.
 2. Pull the tubing plug and record a static bottom hole pressure (BHP) every 2 years.
 3. This minimizes shutting in active injection wells to secure BHPs

- Change of Well status and return to service:
 1. When the well is returned to service an MIT will be performed and the appropriate reporting will be submitted:
 2. MIT for producing wells: ESP, Rod & flowing wells at 300 psi for 15 minutes with less than 10% pressure change.
 3. MIT for injection wells: Pressure test at 2200 psi for 15 minutes with less than 10% pressure change and drop to 1200 psi for subsequent MITs.

Example Monitor Well

Rangely Weber Sand Unit

Well Details:	
STATE & CO	CO - Rio Blanco
TWINS & RING	T2N & R102W
SECTION	(NENE) 21
API	05-103-0616600
CHEVNO	DE5470

Casing Details:	
Type	Depth
KB	5354
GL	5366
16 in. 55 #/ft. F-25	0 - 60,' 75 sxs cmt
10.75 in. 40.5 #/ft. H-40	0 - 499,' 225 sxs cmt
7 in. 23 #/ft. J-55	0 - 5607,' sxs cmt
7 in. 23 #/ft. N-80	5607 - 6478,' 1000 sxs cmt
Top perfs	
Bottom perfs	
PBTD	6478
TD	6478

Formation	Depth
Nebrara	2489
Frontier	3402
Frontier Snd	3485
Mowry	3674
Dakota	3760
Morrison	3858
Curtis	4508
Entrada	4660
Carmel	4820
Navajo	4872
Chinle	5434
Shinarump	5572
Moenkopi	0
Weber	6317

GOC_CALC	5696
Weber 1a	6317
Weber 2	0
Weber 3a	0
Weber 4	0
Weber 5a	0
Weber 6	0
Weber 7a	0
Weber 8	0
Weber 9a	0
Weber 10	0
Weber 11a	0
OWC_CALC	6466

