

**Well Name: EACHUS UPRR 42-23**

API 05-123-14036	Original KB Elevation (ft) 4,860	Ground Elevation (ft) 4,849	Total Depth (ftKB) 7,265.0	Current PBTD (mKB)
Section	Township 5	Range 66	County/Parish WELD	State/Province COLORADO

**Casing Strings**

Csg Des	MD (ftKB)	Run Date	Prop Run?	Cut/Pull Date	Proposed Cut/Pull?	Depth Cut/Pull (ftKB)	OD (in)	ID (in)	Grade	Len (ft)
Surface	565.0	8/24/1988	No		No		8 5/8	8.10		554.00
Production	4,535.0	2/6/2002	No		No		2 3/8	2.00	N-80	1,570.00
Production	7,225.0	8/29/1988	No	2/6/2002	No	4,857.0	3 1/2	2.75		7,214.00

**Tubing Strings**

Des	Set Depth (ftKB)	Run Date	Prop Run?	String Location	Pull Date	Prop Pull?	Cut/Pull Date	Proposed Cut/Pull?	Depth Cut/Pull (ftKB)
Tubing		4/23/2018	No			No		No	

**Perforations**

Zone	Type	Date	Prop?	Top (ftKB)	Btm (ftKB)
CODELL, ORIGINAL HOLE	Perforated	9/8/1988	No	7,114.00	7,124.00

**Other In Hole**

Des	Run Date	Prop Run?	Prop Pull?	Top (ftKB)	Btm (ftKB)
Retrievable Bridge Plug		No	No	5,096.0	5,100.0
Fish	2/6/2002	No	No	4,560.0	5,096.0

**Cement Stages**

Des	Type	Prop?	End Date	Top (ftKB)	Btm (ftKB)
Cement Plug	Plug	Yes		11.0	565.0
Cement Plug	Plug	Yes		565.0	850.0
Surface Casing Cement	Casing	No	8/24/1988	11.0	565.0
Production Casing Cement	Casing	No	8/29/1988	6,492.0	7,225.0
Cement Plug	Plug	No	2/7/2002	2,765.0	2,965.0
Cement Plug	Plug	No	2/7/2002	500.0	616.0
Cement Plug	Plug	No	2/7/2002	11.0	46.0

**P&A PROCESS**

Type Abandon	Sub Type WBI	Start Date 5/16/2018	Engineer Hunter Dunham	Cell Phone 2812536272
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**PROCESS STEPS**

Type	Comment																												
1)	Survey and locate abandoned well, mark with stake and take location photos																												
2)	Excavate to expose top of surface casing																												
3)	Weld 2" collar to top of 8 5/8" surface casing cap. Make up to collar, pneumatic drill with non-sparking bit. Drill out cap venting possible trapped gas.																												
4)	Once verified that no gas exists beneath top of surface casing plate, cut off surface casing below plate with torch, dress up smooth.																												
5)	Butt weld 8 5/8" casing to dressed cut, bringing threaded end of casing to ground level.																												
6)	Make up to 8 5/8" surface casing, 8 5/8" collar and 8 5/8" starter well head																												
7)	NU flange adaptor and 5K BOP, test BOP.																												
8)	NU and RIH with 6 1/8" cone bit, PU 2 7/8" drill collars, 2 3/8" 6.5# tubing, and TIW valve																												
9)	Drill out first cement plug inside surface casing (TOC @ surface). Tag second plug @ 500', roll hole clean.																												
10)	Pressure test surface casing to 200 psi. If pressure bleeds off, set RBP and test again. **If test fails, contact office.**																												
11)	After pressure test of surface casing, drill out second cement plug from 500' to 616'																												
12)	Assume pressure under surface casing shoe, roll hole with kill fluid until well dead, or blow down.																												
13)	TOOH with cone bit, drill collars, and 2 3/8" tubing.																												
14)	PU and RIH with mule shoe and 2 7/8" tubing to 850'.																												
15)	RU cement crew and pump 290 sxs of 15.8ppg Class G "neat" plug from 850' to surface.																												
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Interval Start</th> <th>Interval End</th> <th>Length (ft)</th> <th>Vol. Factor (ft^3/ft)</th> <th>Volume (ft^3)</th> <th>Yield (ft^3/sk)</th> <th>Cement (sxs)</th> </tr> </thead> <tbody> <tr> <td>850</td> <td>565</td> <td>285</td> <td>0.4418</td> <td>126</td> <td>1.15</td> <td>109</td> </tr> <tr> <td>565</td> <td>0</td> <td>565</td> <td>0.3576</td> <td>202</td> <td>1.15</td> <td>176</td> </tr> <tr> <td colspan="6" style="text-align: right;"><b>TOTAL</b></td> <td><b>290</b></td> </tr> </tbody> </table>	Interval Start	Interval End	Length (ft)	Vol. Factor (ft^3/ft)	Volume (ft^3)	Yield (ft^3/sk)	Cement (sxs)	850	565	285	0.4418	126	1.15	109	565	0	565	0.3576	202	1.15	176	<b>TOTAL</b>						<b>290</b>
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16)	POOH w/ workstring. Top off cement if needed. Cement needs to be ~ 10' from surface.																												
17)	ND BOP. Top off cement as needed.																												
18)	Let cement set over night, verify cement has not settled and is still at surface. RDMO.																												
19)	Excavate around wellhead to 8' below grade, cut off 8 5/8" casing, weld on cap																												
20)	Backfill hole and reclaim surface to original conditions.																												