

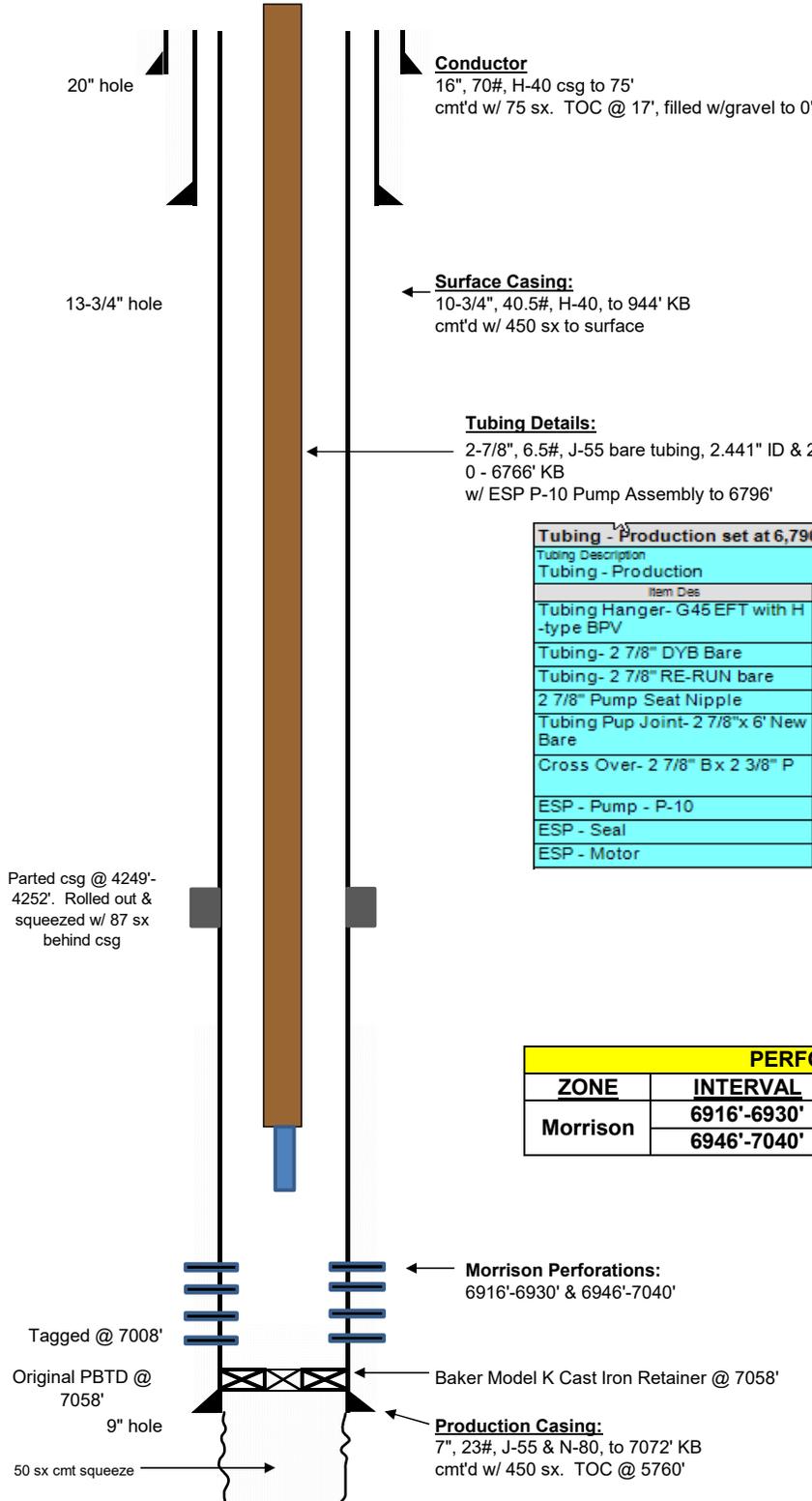


**Wilson Creek Unit #38
Rio Blanco Colorado
Current Well Schematic as of 10/28/2020**

KB: 11'
KB Elev: 8391'
Gr Elev: 8380'

API: 05-103-05841
Legals: Sec 2 - TWN 2N - Range 94W
Field: Wilson Creek

Spud Date: 7/24/1953
Completion Date: 10/17/1953



Tubing - Production set at 6,796.3ftOTH on 8/13/2020 14:15						
Tubing Description	Run Date	String Length (ft)	Set Depth (MD) (ftO...)			
Item Desc	Jts	OC (in)	Wt (lb/ft)	Grade	Len (ft)	Blm (ftOTH)
Tubing Hanger- G45 EFT with H-type BPV	1	7 1/16			0.80	11.8
Tubing- 2 7/8" DYE Bare	57	2 7/8	6.50	J-55	1,828.85	1,840.6
Tubing- 2 7/8" RE-RUN bare	157	2 7/8	6.50	J-55	4,917.51	6,758.1
2 7/8" Pump Seat Nipple	1	2 7/8		J-55	1.10	6,759.2
Tubing Pup Joint- 2 7/8"x 6' New Bare	1	2 7/8	6.50	J-55	6.12	6,765.4
Cross Over- 2 7/8" B x 2 3/8" P	1	3 21/32			0.45	6,765.8
ESP - Pump - P-10	1	4			14.50	6,780.3
ESP - Seal	1	5 1/8			6.30	6,786.6
ESP - Motor	1	5 5/8			9.70	6,796.3

PERFORATION DETAILS / HISTORY			
ZONE	INTERVAL	HOLES	STATUS
Morrison	6916'-6930'	4 spf	Open
	6946'-7040'	4 spf	Open

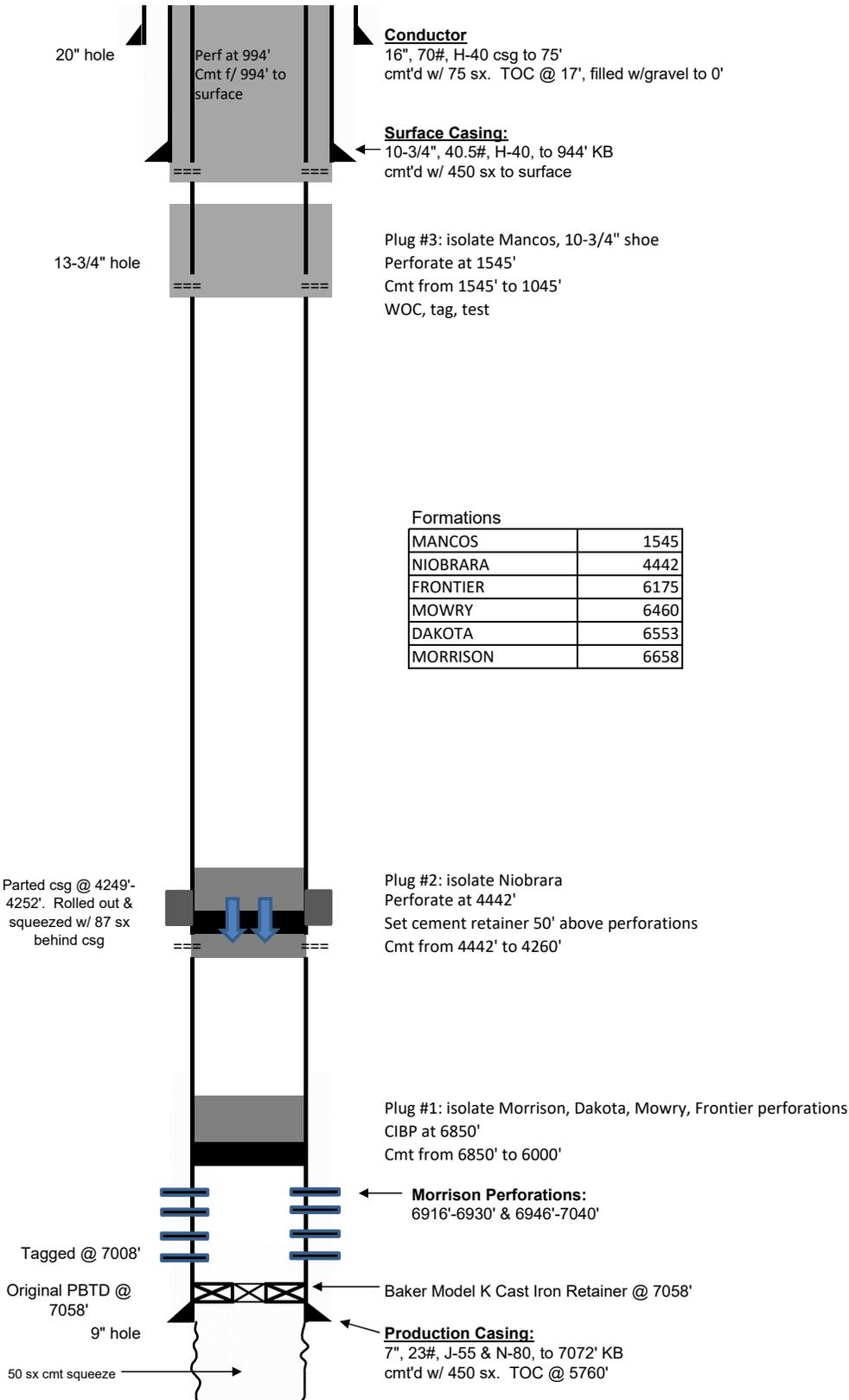


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Wilson Creek Unit #38 Rio Blanco Colorado Current Well History as of 10/28/20

Date	Event
7/24/1953 - 10/17/1953	Spud & drilled well to TD of 7103'. Set 16", 70#, H-40 conductor @ 75' in 20" hole. Cmt w/ 75 sxs. TOC @ 17', filled with gravel. Set 10-3/4", 40.5#, H-40 casing @ 944' in 13-3/4" hole. Cmt w/ 450 sxs. Cmt to surface. Set 7", 23#, J-55 & N-80 casing @ 7072' in 9" hole. Cmt w/ 450 sxs. Cored 7074'-7103' (6-1/8" hole). Ran Baker model K Cast Iron Retainer @ 7058'. Squeezed 7058'-7103' w/ 50 sxs cmt. PBTD @ 7058'. TOC @ 5760' by CBL. Perf Morrison Formation : 6916'-6930' & 6946'-7040' w/ 4 spf.
5/19/1955	Location correction to 3265' FNL & 740' FEL
August-56	Tagged casing restriction @ 4540' w/ wireline.
2/18/1957 - 3/26/1957	CSG split: Pulled tubing. Ran 6-1/8" bit. Established circulation down csg, up tubing. Tried to circulated down 7" csg, up 10-3/4" csg with no luck. Prepared to pull 7" csg. Lifted 16-1/4". Ran McCullough Magnatector and found csg stuck @ 1147' and casing split @ 4249'-4252' . Reset csg on spool. Ran csg mill & roller and rolled out csg. Ran bridge plug and set @ 4380.5' & retainer @ 4192'. Squeezed w/ 50 sx, over displaced by 2 bbls. Squeezed w/ 50 sx & reversed 3/4 sx out. Squeezed total of 87 sx behind csg. Drilled cmt & retainer from 4192'-4263'. Pressure tested casing to 1100 psi. held @ 875 psi for 30 minutes. Drilled bridge plug @ 4380.5'. Ran 6-1/8" bit & 7" scraper to PBTD @ 7058'. Ran tubing and pump.
5/9/1964	Frac'd Morrison (6916'-6930' & 6946'-7040') in 5 stages separated by 200# mothballs. Each stage = 1050# 20/40 sand @ 1/2 ppg, 3150# 20/40 sand @ 1 ppg, and 1050# 8/12 glass beads @ 1/2 ppg. Cleaned out to 7058'. Noted casing restriction @ 4250'.
2/17/1965	Tubing & rod replacement.
11/3/1965	Water flow survey.
12/16/1965	Reran tubing, pump & rods after waterflow survey.
2/3/1966	Rod replacement.
3/17/1966	Pump replacement.
4/28/1966	Pump replacement.
9/3/1966	Pump & tubing replacement.
12/22/1966	Pump replacement.
1/31/1967	Pump, rods, & tubing replacement. Fill up @ 7007'. Cleanout to 7058'.
2/23/1967	Converted to Reda pump.
3/13/1967	Pump, motor, & cable replacement.
7/10/1967	Upsized pump.
8/19/1967	New Reda pump.
11/17/1967	Pump replacement. Ran bit & scraper to 4600'.
3/8/1968	Pump & motor replacement.
3/10/1968	Motor replacement.
5/2/1968	Acidized w/ 1500 gal super mud acid.
5/29/1968	Pump, motor, & cable replacement. Ran 6-1/8" bit & tagged @ 7033'.
6/5/1968	Cable replacement. Laid down 1 jt of tubing.
6/30/1968	Downsized pump, motor replacement.
1/14/1969	Pump replacement.
1/17/1969	Flat cable replacement.
4/2/1969	Pump, motor, & cable replacement.
6/9/1969	Downsized pump, motor replacement.
1/21/1970	Pump, motor, & cable replacement.
3/25/1970	Pump replacement.
6/17/1970	Reda pump installed.
3/6/1971	Pump replacement.
3/9/1971	Pump replacement.
4/14/1971	Pump replacement.
6/2/1971	Downsized pump, motor replacement.



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9/8/1973	Pump & motor replacement. BHP build up 24 hrs. 1388 psi @ 6992'.
3/15/1974	Pump, motor, & cable replacement.
4/15/1975	Pump, motor, & cable replacement.
6/19/1975	Ran bit & scraper to 7013' & tag. Spot 750 gal 15% HCL across perfs @ 7007' & 750 gal 15% HCL @ 6923'. Ran new pump, motor, & cable.
7/12/1975	Pump & cable replacement. Cleaned out fill to 6993'.
9/17/1975	Downsized pump and raised 400', motor, & cable replacement.
1/6/1976	Pump, motor, & cable replacement.
1/5/1977	Pump, motor & cable replacement.
1/26/1977	Pump, motor, & cable replacement. Raised pump 400'.
1/3/1978	Pump, motor, cable, & tubing replacement.
12/10/1978	Pump, motor, & cable replacement. Scale in top 1500' of tubing. Tagged @ 6993'.
10/11/1979	Pump, motor, & cable replacement. Attempted to run a sand screen, could not get past 4000'.
12/2/1979	Cable replacement.
7/25/1980	Pump & motor replacement.
10/17/1981	Downsized pump. Inspected tubing & replaced 17 jts.
3/23/1982	Upsized pump.
12/5/1982	Pump replacement. Lowered pump 2 jts.
1/6/1983	Cable replacement.
8/8/1984	Pump, motor, & cable replacement. Lowered pump 426'.
12/29/1984	Pump raised 164'.
1/9/1985	Pump & cable replacement.
3/1/1985	Motor & cable replacement.
7/18/1985	Pump, motor, & cable replacement.
8/21/1986	Pump & motor replacement. 3 month static BHP survey. 1475 psi @ 6997'. Tagged @ 7008'.
9/12/1987	Pump, motor, & cable replacement.
9/16/1988	Pump & motor replacement.
4/15/1988	Pump & cable replacement. Ran 7" csg scraper to 6352', no tag.
7/27/1990	Downsized pump & cable replacement.
2/27/1992	Pump replacement.
3/19/1993	Motor replacement.
4/13/1993	Pump, motor, & cable replacement.
6/14/1994	Motor & cable replacement.
8/1/1994	Pump, motor, & cable replacement.
6/25/1995	Pump, motor, & cable replacement.
10/9/1996	Pump, motor, cable, & 1 jt tubing replacement.
10/22/1998	Pump, motor, & cable replacement.
6/8/2001	Pump (R-9) & motor replacement.
5/31/2006	Pump (P-8) replacement.
9/15/2011 - 9/26/2011	Wellhead unlevel. Ran 6-1/8" bit & 7" scraper to 6258' (no tag). Set RBP @ 6226'. Set RBP @ 6135'. Wellhead work (new valves on tubing head, level & brace wellhead, fill cellar w/ gravel). Pull RBP @ 6135'. Pull RBP @ 6226'. Ran bit & scraper to 6773'. Ran new pump (P-10), motor, 200 jts used tubing, & 16 jts new tubing.
9/21/2018 - 9/26/2018	Pump (P-10) replacement. Installed new G45 EFT tubing hanger.
8/10/2020-8/13/2020	Pulled tubing and ESP, scanned tubing and replaced bad joints. Re-ran P-10 ESP, new cable, and tubing.

Critical Well Notes

- Artificial lift method - ESP
 - Contact Baker Centralift to spool ESP cable while TOH with tubing/ESP
- Latest workover in 2020. Bit & scraper run to 6773' in 2011 workover.
- Class III BOP stack will be required - annular needed to seal against ESP/CAP STRING
- *Required 10% excess cement for every 1000' depth (included in proposed calculations)*
- *Rule 434.a.(5) Plug and Abandon - The Operator will not cap or seal the well until 5 days after placing the last plug to allow monitoring for successful plugging and will cap or seal the Well within 90 days after placing last plug.*

Offline Activity

- Set slickline plug in tubing and pressure test same to 1000 psi to confirm integrity.

Procedure - Rig Only

- 1 MIRU pulling service rig
- 2 Check pressure on all casing and tubing strings. Verify no pressure and observe well for 15 minutes to verify no flow. Kill well with available kill fluids, brine if necessary.
 - 1 Trickle kill fluid down production casing as needed to keep well dead
- 3 Set slickline plug in tubing and pressure test same to 1000 psi to confirm integrity [if not done previously]
 - 1 If this step is not feasible, plan to hydrotest tubing while POOH or TIH.
- 4 N/U stump-tested BOPE.
 - 1 Install BPV in tubing hanger. N/D production tree.
 - 2 Install 5k Class III BOP and pressure test 250 psi low and 1000 psi, MASP, or max anticipated pressure (whichever is larger) high for 5 min each.
 - 3 Annular will be required in order to shut in and seal around pipe, ESP cable
- 5 POOH with tubing, spooling ESP cable and cap string [if present]
 - 1 Ensure ESP cable spoolers are spotted, sheaves are inspected within the last year and hung with secondary retention.
 - 2 Refer to the provided guidelines for pulling ESP equipment. Request document from engineer.
- 6 Set CIBP per approved permit depth
 - 1 MIRU wireline unit. Conduct GR/Junk basket run to planned CIBP set depth. POOH w/ same.
 - 2 M/U CIBP, RIH and set per approved permit. POOH with wireline.
- 7 Conduct pressure test of casing, CIBP to 500 psi for 15 minutes. Document results in WellView.
 - 1 Discuss picking up squeeze packer if casing failed previous pressure test
- 8 Bubble test all annuli for 30 minutes each and document results in WellView under daily pressures
- 9 TIH with tubing string (and squeeze packer if necessary) to tag CIBP
- 10 Proceed to pump cement per the approved permit, refer to table below cement plug depths and calculations
 - 1 TOC in production annulus is uncertain
 - 1 Assume TOC in 7" annulus is at the casing leaks that were squeezed in prior workover
 - 2 Niobrara to be isolated with cement retainer set +/- 50' above perforations
 - 3 If bubble test in prod csg annulus fails after Mancos isolation, a contingency cement plug should be perf & squeezed between Mancos and surface plug. Discuss depths and volumes with engineer; forward plan will need to be confirmed with BLM, COGCC regulatory agencies prior to execution.
 - 1 WOC, tag, pressure test contingency squeeze prior to isolating shoe, fresh water zone
 - 4 If bubble test fails after contingency perf & squeeze, plan to cut & pull casing
- 11 Discuss with engineer any changes to proposed plan forward during execution

Plug					
Summary Table	Base	Top	Volume	Perf & Squeeze	Notes
Plug #1	6850	6000	276	NO	
Plug #2	4442	4260	63	YES	Cement retainer
Plug #3	1545	1045	173	YES	
Plug #4	994	0	376	YES	
Total Sacks	888				
Total Perf & Squeeze			3		
Total Spot			1		