



Well History

Well Name: Miller 33-29

API 05123194790000		Surface Legal Location NWSE 29 6N 64W		Field Name Wattenberg		State CO		Well Configuration Type Vertical					
Ground Elevation (ft) 4,666.00		Original KB Elevation (ft) 4,676.00		KB-Ground Distance (ft) 10.00		Spud Date 1/18/1998 00:00		Rig Release Date 2/13/1998 00:00		On Production Date 2/13/1998		Abandon Date	

Job

Drilling - original, 1/18/1998 00:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 1/18/1998	End Date 1/22/1998	Objective Drill a new Codell well
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Daily Operations

Start Date	Summary	End Date
1/18/1998	Spud 3 : 00 p.m. on 1/18/98. Ran 8 jts 8 5/8" surface csg total 357' & set @ 367'. Cement w/220 sx. Depth 613' & drilling. Made 613'. Day Total:\$11,530 Cum.Total:\$11,530	
1/20/1998	Depth 4390' & survey. Made 3777' . Day Total : \$26,061 Cum.Total:\$37,591	
1/21/1998	Depth 6292' & survey. Made 1902'. Day Total:\$13,124 Cum.Total:\$50,715	
1/22/1998	TD 7163'. PSI ran Dual Induction from 7163' TD to btm of surface csg 367'. Compensated Neutron Density from 7163' to 6450', 3700' to 3500' (Possible Parkman). Ran 227 jts of 3 1/2, 9.2# casing, shoe jt 27.15'. Landed @ 7131' KB. Centralizers on jts 1,4,7,10,13,16,19,107, 110, 113, 116, 119 & 122. Circulate 40 min. Halliburtoncements longstring w/180 sx 50/50 POZ, 163 bbls gel spacer w/Clayfix water, 170 sx Premium cement, SSA-1 35%, 18% salt, Halad 322 mix. Plug down 6:45 p.m. Bump plug to 2500#. Plug held. Release rig 7:45 p.m. Day Total:\$27,304 Cum.Total:\$78,019	

Initial Completion, 1/26/1998 00:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 1/26/1998	End Date 1/30/1998	Objective Complete a Codell well
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Daily Operations

Start Date	Summary	End Date
1/26/1998	ASAP ran CBL from 3100' to 3800' & 6100' to 7083'. Top of cement 6216'. Perf Codell from 6891' to 6901', 10', 4 spf, 90 degree phase, 2 1/2" RTG, 40 shots. Day Total:\$2100 Cum.Total:\$80,119	
1/27/1998	Halliburton frac Codell w/112,812 gals of Crosslinkedgel w/223,000# 20/40, 10,000# 100 mesh & 12,000# 12/20. ISIP 3600 Day Total:\$48,446 Cum . Total:\$128,565	
1/28/1998	Turned on w/3380# on 10/64 choke on 1/27/98. Recovered 518 BF, trace oil in 19 hrs on 10/64 choke. 450#. TL 2686, TLR 518, TLTR 2168.	
1/29/1998	Recovered 158 BF, 20% oil in 24 hrs on 10/64 choke. 650#. TL 2686, TLR 676, TLTR 2010	
1/30/1998	Recovered 160 BF, 60% oil in 24 hrs on 10/64 choke. 700#. TL 2686, TLR 836, TLTR 1850. S1.	

Clean-out, 12/15/1998 00:00

Job Category Completion/Workover	Primary Job Type Clean-out	Start Date 12/15/1998	End Date 12/19/1998	Objective clean out sand and swab
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Daily Operations

Start Date	Summary	End Date
12/15/1998	Tag sand w/Lightning Wireline @ 6869'-22' above top perf. MI Key Rocky Mtn. RU. SDFN. Day Total:\$600 Cum.Total:\$600	
12/16/1998	Kill well w/40 bbls from battery. RU Key Well Servo TIH w/sand bailer & 205 jts (6865.34') . Bailed sand to 6998.39'. Started out of hole, well started to flow. Built to 400#. Pulled 10 stands pipe. Turn well thru treater on 8/64 choke. SDFN. Day Total:\$3091 Cum.Total:\$3691	
12/17/1998	Well has 500#. Install 14/64 choke to pull down pressure. Rig crew work pipe to make sure we're free. Could not blow down well below 350#. Going to tank through treater for 3 hr. Sent rig crew home. Day Total:\$15,005 Cum.Total:\$18,696	
12/18/1998	Kill well w/15 bbls of 4% KCL water. TOOH w/152 jts of 1 1/2" IJ tubing & hydrostatic bailer. Had to keep pumping KCL water to keep well dead, 40 bbls KCL, 15 oil. TIH w/SN & NC. Tag sand @ 6910'. Pull up to 204 jts. Landtubing @ 6825' /KB. Strip off BOP's. Flange up wellhead. Well has strong blow on tubing & casing. Flange up wellhead to flowline. Day Total:\$3400 Cum.Total:\$22,096	
12/19/1998	Swab on well. Well kicked off flowing in 4 hrs. Day Total:\$600 Cum.Total:\$22,696	

Refrac/Recomplete, 12/1/2004 00:00

Job Category Completion/Workover	Primary Job Type Refrac/Recomplete	Start Date 12/1/2004	End Date 12/9/2004	Objective
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Daily Operations

Start Date	Summary	End Date

Tubing Repair, 1/11/2012 18:30

Job Category Completion/Workover	Primary Job Type Tubing Repair	Start Date 1/11/2012	End Date 1/13/2012	Objective Tag up and tally out to derrick, hydrotest back in and clean out if needed.
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Daily Operations

Start Date	Summary	End Date
1/11/2012	Road rig to location and spot in, lay pump lines to WH and prepare for next day's operations, to windy to rig up, SDFN.	1/11/2012
1/12/2012	ITP-500 psi, ICP-600 psi, ISCP- 25 psi. ND production equipment and RU pump lines to WH, blow well down to RT. Circulate oil and gas out to RT, unpack tubing head and NU BOPE. PU tag jt and tag fill 15' in on first jt. Lay down tag jt, TOOH tallying 1.90" 2.76 lb/ft J-55 10rd production tubing, pulled 22 stands and found threads missing and holes in pin end's, trip back in hole w/ 22 stands, to windy to lay down tubing. SI well and secure, SDFN.	1/12/2012
1/13/2012	ITP-40 psi, ICP-60 psi, blow well down to RT. TOOH laying down and tallying 1.90" 2.76 lb/ft J-55 IJ production tubing, pulled 206 jts-6,869.42' and NC/SN. Tubing was landed @6,878.52' KB, tagged fill w/207 jts @6,891.52' KB, Codell perms are covered. MI&RU Pick Testers, PU new 1.90" N/SN-1.10" (1.485" ID) TIH tallying and testing new 1.90" 2.76 lb/ft J-55 IJ tubing from PDC inventory. Tested 212 jts, RD tester and release, SI well and secure w/ 212 jts @6,877.74' KB, SDFWE.	1/13/2012
1/16/2012	ITP-0 psi, ICP-0 psi, RU circulating equipment on jt #213 and break circulation. Clean out f/6891.52' KB w/212 jts to PBD @7137.57' KB w/220 jts. Circulate hole clean, lay down 8 jts, ND BOP and land tubing w/ 212 jts-6868.64', N/SN-1.10', tubing is landed @6877.74' KB (Tubing is landed 13.26' above Codell perms). Pack tubing head off and RU production equipment, RU swab w/1.512" broach, broach tubing to SN, tubing broached good, pull broach, SI well and secure, RDMOL.	1/16/2012

WBI - Plug Set Other Operator, 3/26/2021 06:00

Job Category Completion/Workover	Primary Job Type WBI - Plug Set Other Operator	Start Date 3/26/2021	End Date 3/26/2021	Objective PULL TBNG, SET CIBP ABOVE PERFS, PERFORM MIT, TORQUE AND TEST WELL
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Daily Operations

Start Date	Summary	End Date
3/26/2021	CREW TRAVELED TO LOCATION REVIEWED RIG JSA AND HELD MORNING SAFETY MEETING. MIRU RIG 325 AND ALL SUPPORTING EQUIPMENT. SPOT PUMP AND TANK, TIE IN HARD LINE TO WELL. CHECK PRESSURES ITP 300 PSI, ICP 700PSI, SIBHP 0. FILL WELLBORE WITH 50 BBLs, CIRCULATED WELLBORE CLEAN OF OIL AND GAS. N/D 3K LARKIN FLANGE AND STRIP OVER BOPE WITH 1.90" PIPE RAMS AND FUNCTION TEST. R/U FLOOR AND FLOOR EQUIPMENT WITH 1.90" EQUIPMENT. UN-LAND 1.90" TUBING, LAY DOWN 212 JTS ON TRAILER. R/U SUREFIRE WIRELINE, MAKE UP 3 1/2" GAUGE RING, RIH TO TOP PERFS 6722'. POOH MAKE UP 3 1/2" CIBP, RIH CORRELATE WITH LOG AND SET AT 6672'. POOH MIX 2 SXS OF CEMENT, RIH DUMP BAIL ON TOP OF PLUG. POOH, TIE IN PUMP LINE, FILL WELLBORE. MIRU PICK TESTER AND PERFORM MIT TEST TO 512 PSI FOR 15 MIN. 0 PRESSURE LOSS (GOOD TEST) TEST WAS CHARTED AND SENT TO THE STATE. R/D TEST UNIT. R/D FLOOR AND EQUIPMENT, N/D BOPE AND FLANGE. N/D CASING HEAD TO 3 1/2" CSG, N/U 3 1/2" XO TO 5K CASING HEAD AND INSTALL 5K WELLHEAD, TORQUE BOLTS AND SECURE WELL. RACK OUT PUMP AND TANK, RIG DOWN RIG 325. REPLACE FENCE AROUND WELL, CLEAN LOCATION. CREW TRAVELED HOME.	3/26/2021