



## Well History

Well Name: Howard Lake 21-9

API 05123230730000		Surface Legal Location NENW 9 6N 64W		Field Name Wattenberg		State CO		Well Configuration Type Vertical					
Ground Elevation (ft) 4,790.00		Original KB Elevation (ft) 4,800.00		KB-Ground Distance (ft) 10.00		Spud Date 7/16/2005 00:00		Rig Release Date 7/20/2005 00:00		On Production Date 8/16/2005		Abandon Date 12/21/2020	

### Job

#### Workover, 9/7/2005 00:00

Job Category Completion/Workover	Primary Job Type Workover	Start Date 9/7/2005	End Date 9/19/2005	Objective
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#### Daily Operations

Start Date	Summary	End Date
4/18/2014	Core Tech RIH w/ 2" JUC and fished plunger @ at 7094, fished standing valve @7095, RIH w/ 1.5" blind box and tagged fill at 7200. B and J Services pressure tested tubing to 1500psi, held pressure for 15 minutes. Core tech RIH w/ 2" JUC and fished test valve @7095, RD	4/18/2014

#### Wireline, 7/7/2016 12:00

Job Category Other	Primary Job Type Wireline	Start Date 7/7/2016	End Date 7/7/2016	Objective SET NEW 2 STAGE
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#### Daily Operations

Start Date	Summary	End Date
7/7/2016	Coretech RU, RIH w/ 2" JUC to fish plgr @ 7095'. Dropped bypass plgr, RIH w/ 2" JDC to set 2 stage @ 4248'. Dropped new TWNG and plgr. RDMO	7/7/2016

#### Swab, 12/28/2018 10:30

Job Category LOE	Primary Job Type Swab	Start Date 12/28/2018	End Date 1/2/2019	Objective SWAB
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#### Daily Operations

Start Date	Summary	End Date
12/28/2018	ITP1050/FTP150 IFL4030 ICP1178/FCP172 FFL4050 1RUN/7BBLs 4 OIL SWABBED 3 OIL FLOWED	12/28/2018
12/31/2018	ITP1050/FTP30 IFL7050 ICP979/FCP91 FFL7080 16RUNS/16BBLs 16 OIL	12/31/2018
1/2/2019	ITP797/FTP50 IFL4900 ICP647/FCP108 FFL6000 11RUNS/0BBLs	1/2/2019

#### Abandon Well LOE, 12/19/2020 07:00

Job Category Abandon	Primary Job Type Abandon Well LOE	Start Date 12/19/2020	End Date 12/21/2020	Objective PLUG AND ABANDON WELL
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#### Daily Operations

Start Date	Summary	End Date
12/19/2020	MIRU ENSIGN RIG 312 HELD SAFETY MEETING. SPOTTED IN EQUIPMENT. SITP 700 PSI, SICP 550 PSI, SIBH 0 PSI. R/U RIG 312, R/U PUMP AND LINES. BLEW TBG AND CSG DOWN TO 50 PSI TO RIG TANK. BROKE CIRCULATION WITH 90 BBLs, ROLLED HOLE FOR 1.5 HRS TO ELIMINATE ALL OIL AND GAS FROM WELLBORE. N/D PRODUCTION TREE, N/U AND FUNCTION TESTED BOP STACK, R/U RIG FLOOR AND HANDLING TOOLS. UNLANDED TBG, TOO H WITH 30 STANDS (60 JTS), LAID DOWN 166 JTS ONTO TRAILER (TOTAL OF 226 JTS PULLED FROM WELL). R/U WIRELINE, RIH WITH 4.5" GAUGE RING TO 7075', POOH, RIH WITH 4.5" CIBP AND SET @ 7063', GOOD SET, POOH, RIH AND DUMP BAILED 2 SXS CEMENT ON TOP OF PLUG, POOH. FILLED CSG WITH 5 BBLs AND PRESSURED UP TO 1000 PSI, HELD FOR 10 MINUTES, GOOD TEST. RIH WITH 4.5" CIBP AND SET @ 6700', GOOD SET, POOH, RIH AND DUMP BAILED 2 SXS CEMENT ON TOP OF PLUG, POOH. RIH WITH 4.5" CIBP AND SET @ 2500', GOOD SET, POOH, RIH AND DUMP BAILED 2 SXS CEMENT ON TOP OF PLUG, POOH. RIH WITH CBL AND LOGGED FROM 2100'-SURFACE, LOG SHOWED FREE CSG TO SURFACE. RIH WITH 4.5" JET CUTTER AND CUT CSG @ 1800', GOOD CUT, POOH, R/D WIRELINE. SECURED WELL AND SHUT IN FOR THE NIGHT. CREW TRAVEL HOME.	12/19/2020



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### Daily Operations

Start Date	Summary	End Date
12/21/2020	<p>CREW TRAVEL TO LOCATION.</p> <p>HELD SAFETY MEETING. SICP 0 PSI, SIBH 0 PSI. BROKE CIRCULATION WITH 9 BBLS, ROLLED HOLE FOR 1 HR TO ELIMINATE ALL OIL AND GAS FROM THE WELLBORE. R/D RIG FLOOR AND HANDLING TOOLS, N/D BOP STACK, UNLANDED CSG, STRIPPED OVER 8 5/8" X-OVER, N/U BOP STACK, R/U RIG FLOOR AND 4.5" HANDLING TOOLS. LAID DOWN CSG ONTO TRAILER (TOTAL OF 42 JTS 4.5" CSG PULLED FROM WELL). TIH WITH 30 STANDS (60 JTS) PLACING EOT @ 1874'. BROKE CIRCULATION, ROLLED HOLE FOR 30 MINUTES, SHUT DOWN PUMP, WELL STATIC. R/U CEMENT, PRESSURE TESTED IRON TO 2000 PSI, GOOD TEST. PUMPED 5 BBLS FW FOLLOWED BY 100 SXS (20.4 BBLS) 15.8# 'G' CEMENT, DISPLACED TBG WITH 6.2 BBLS TO BALANCE PLUG OUT PLACING CEMENT FROM 1874'-1600', MAINTAINED GOOD CIRCULATION THROUGH OUT JOB, R/D CEMENT. LAID DOWN 36 JTS PLACING EOT @ 752' JT #24. R/U CEMENT, PUMPED 5 BBLS FW FOLLOWED BY 410 SXS (84 BBLS) 15.8# 'G' CEMENT TO BRING CEMENT TO SURFACE, MAINTAINED GOOD CIRCULATION THROUGH OUT JOB. LAID DOWN TBG ONTO TRAILER, R/D RIG FLOOR AND HANDLING TOOLS, N/D BOP STACK. TOP CAPPED WELL WITH 30 SXS (6 BBLS) 15.8# 'G' CEMENT, R/D CEMENT. R/D RIG 312, RACKED OUT PUMP AND LINES. SECURED WELL AND SHUT IN, PLACED FENCING BACK AROUND WELL, CLEANED UP LOCATION. MOVED EQUIPMENT OFF LOCATION. WILL WAIT REQUIRED 5 DAY PERIOD THEN DIG UP WELL. CUT AND CAP WELL 6' BELOW GROUND LEVEL. WELD ON MARKER PLATE AND BURY WELL. TURNED OVER TO THE CONSTRUCTION DEPT TO ABANDON FLOWLINE.</p> <p>THIS IS THE FINAL REPORT.</p> <p>NOTE THERE WAS 42 JTS 4 1/2" 10.5# CSG AND 226 JTS 2 3/8" 4.70# L-80 TBG SOLD TO KARST.</p>	12/21/2020