

**Well Name: EMMA E MCVEY 1**

API # 050010653100	Surface Legal Location NWNE Sec 29-T3S-R65W	Field Name Watkins	Permit Number	State CO	Well Configuration Type
Ground Elevation (ft) 5,543.00	Casing Flange Elevation (ft)	Orig KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Spud Date	Final Rig Release Date

**Job: Abandon Well / <jobsubtyp> , 3/17/2021 06:00, 16193019**

Job Category Abandon	Primary Job Type Abandon Well	Secondary Job Type	Total Field Estimate (Cost) \$727,315	Total Final Invoice (Cost)
Start Date 3/17/2021	End Date 3/28/2021	AFE Number 16193019	Total AFE + Supp Amount (Cost)	

Objective  
Re-entry and re-P&A for the Crestone Peak Resources Schuh 3-65 21-20 South horizontal pad.

Post-Job Summary

Rpt #	Start Date	End Date	Day Total (Cost)	Cum To Date (Cost)	24 Hr Summary
1.0	2/25/2021	2/25/2021	\$7,006	\$7,006	Cost tracking day. Ordered wellhead equipment.
2.0	3/2/2021	3/2/2021	\$3,070	\$10,076	Mobilize equipment and footers to set bridge on. Set tracking mats and set SCL's
3.0	3/3/2021	3/3/2021	\$13,832	\$23,908	Excavate and compact areas to set footers to grade. Set bridge with crane. Haul in recycled concrete to build ramps and tie into existing road. Located and exposed old well bore.
4.0	3/4/2021	3/4/2021	\$7,546	\$31,453	Stripping top soil to build drill pad. Tie on bridge access to existing road.
5.0	3/5/2021	3/5/2021	\$9,812	\$41,265	Working on cut and fill to bring pad to grade. Set 1400ft. of SCL's along access road. Set temp tracking pad.
6.0	3/6/2021	3/6/2021	\$5,477	\$46,742	Built access approach. Track in all BMP berms. Place signs. Continue working on cut and fill to bring pad to grade.
7.0	3/7/2021	3/7/2021	\$3,919	\$50,661	Continue working on cut and fill to bring pad to grade. Track in slopes.
8.0	3/8/2021	3/8/2021	\$7,760	\$58,420	Finish tie-in on existing road to bridge. Haul in mat boards. Haul and place k-rails around well. Compact location. Demob equipment.
9.0	3/9/2021	3/9/2021	\$7,490	\$65,911	Haul and place mat boards on access road. Set cellar around well head. Install sediment pond. Track in west top soil pile. Install VTC tracking pad.
10.0	3/10/2021	3/10/2021	\$2,945	\$68,856	Finished setting mat boards on access road. Finished installing sediment pond SW cor of location.
11.0	3/12/2021	3/13/2021	\$736	\$69,592	Remove, clean and re-set tracking pads. Prep for rig move
12.0	3/13/2021	3/14/2021	\$486	\$70,078	Pour 2 yds concrete for cellar floor
13.0	3/14/2021	3/15/2021	\$3,898	\$73,976	Blade, loader and skidsteer. Worked on clearing pad for rig move
14.0	3/15/2021	3/16/2021	\$2,770	\$76,746	Work on breaking trail through access road 4 ft drifts.
15.0	3/16/2021	3/17/2021	\$6,823	\$83,569	Blade snow off drill pad, pile snow off end of location with loader. Skidsteer crew clearing snow off liner.
16.0	3/17/2021	3/18/2021	\$29,648	\$113,217	Clean Rig and Prep to move to Emma E McVey Location
17.0	3/18/2021	3/19/2021	\$28,267	\$141,484	Fix mud tanks #1,#2 and pill tank w/ welder. Install lift plate on BOP torque studs on BOP. Prep to move to Emma E McVey Location
18.0	3/19/2021	3/20/2021	\$81,491	\$222,974	Move in Ensign rig 122 with Ensign Trucking, Set matting boards for sub and mud tank, Center sub over well head, Move in pumps, tanks, Light plant and HPU skid. Set Camps. (M&M construction Dozer on location to pull loads in and out). Rig up, Mud lines, Steam Lines, Water lines, Lower Headache Rack, Install Flow Line, Rig up Top Drive and Floor Equipment and Strap and Tally BHA and Drill Pipe. Nipple up Rigs 5K BOPE on Wellhead. Torque down flange bolts, Install Choke line, Kill line. Welder build flow line to rotating head. rig up Koomey lines and function test BOP. Rig up flare lines to Ward Flare stack. PJSM w/ Pathfinder Testing. Test Choke Manifold 250 Low 5 Mins - 3000 High 10 Mins. While picking up BHA.

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19.0	3/20/2021	3/21/2021	\$55,914	\$278,888	<p>Pump out cellar to troubleshoot returns in cellar. Nipple Down BOPE. Jack hammer out cement in cellar and dig down below casing collar, found approx. 4" diameter hole in casing 4 inches below casing collar. remove wellhead and 8 5/8" pup joint. Remove flowline from buster, install 6" fisher pump in cellar, rig up candy cane to shakers.</p> <p>M/U 7 7/8" Varel Tricone bit, and wash ream drill out surface casing. WOB 0-15 klbs, 450 GPM, SPP 325 psi, RPM 60-80, Torque on bttm 2-4 kft-lbs. (Hard cement f/182' to 188'). Trip out Hole for New BHA.</p> <p>Pick up Ensign Straight motor (6.75", 7/8, 3.5, 0deg) Ulterra 7.875" U616S PDC, Pickup drill collars and TIH to 215'.</p> <p>Clean out Hole/ wash ream drillout Original Hole F/ 215' - T/ 1510'. WOB 0-3 klbs, 450 GPM, SPP 325 psi, RPM 60-80, Torque on bttm 2-4 kft-lbs. (Tagged Cement @1505', Drilled Cement to 1510').</p> <p>Circulate 2-20bbl high vis sweeps to surface. POOH and lay down BHA, Break bit, drain motor and laydown.</p> <p>R/U and run 17 Joints of 7" ultra flush joint casing, 26#, HCP110. Casing set @756.4' Top of shoe @ 754.8', Top of Float Collar @ 718.7'.</p> <p>Circulate and condition mud. Wait on SLB Cementers. Spot in and rig up cementers, Pump 2-40 bbl sweeps with 1lb/bbl Cem-Net.</p> <p>PJSM: SLB cementers, Rig Crew and CPR Personal. install 7" Cement Head, Lines and line restraints. MIRU Schlumberger Cementers. Test lines to 2,500 psi. <b>Start Cementing surface casing. Pump 20 bbl water spacer.</b> Shut down drop bottom plug, <b>Pump Class C Tail Slurry: 335 sks, 87 bbls, 14.2 ppg 1.46 yield, 7.38 gal/sx.</b> Shut down, Drop Top plug. Total displacement fresh water 27.5 bbls. Bump plug calculated. FCP was 230 psi. After shutting down, pressure held at 1233 psi for 1 minutes. Floats held and got 1/2 bbl back. Good returns, 4 bbl cement to surface. CIP 3/21/21 @05:30 Hrs. Rig Down SLB Cementers. Wait on Cement.</p>
20.0	3/21/2021	3/22/2021	\$46,872	\$325,760	<p>Emma E McVey 1 P/A Well 1 of 1 No accidents incidents or spills reported.</p> <p><b>Wait on Cement for 8hrs before slacking off 7" casing.</b> Backoff 7" landing joint. install 7 1/16" 5K well head w/ pup. Stack up 7 1/16" 5K X 11"5K crossover spool. Stack up 11" 5K BOP and rotating head.</p> <p>PJSM: Pathfinder Testers , MU test assembly with test plug &amp; land same. Test BOPE, HCR Valve, Manual Valve, Annular. Blind Rams, Pipe Rams, Manifold Valves, I-BOP, Lower Top Drive Valve, TIW Valve, Kill Line, Kill Line Check, Outside Choke Valve, Manual Choke, Super Choke. All test 250 low 5 minutes, 3000 high 5 minutes. Perform accumulator test. Test csg to 250 psi low for 5 min and 1000 psi high for 10 minutes - ok. L/D test plug assembly. Install Wear Bushing.</p> <p>Receive 239 Joints of 4" XT-39 Drill Pipe, 10 Joints of 4" XT-39 HWDP, 6 Joints of 5" XT-39 DC and all related handling tools From Quail Rentals.</p> <p>Pick up 6-1/8 Ulterra PDC, Ensign 5" Straight motor and MWD Package and 5 joints of 4 XT-39 HWDP. TIH with 4" Drill Pipe, <b>Tag cement and plug @711'.</b> <b>Drill Cement/ Plug, Float and Shoe out to 750'.</b></p> <p>Wash in hole to 1510', Tag Cement plug #3. Take MWD survey every 200'. Drill Cement plug f/1510' T/1653. WOB 5-8 klbs, 280 GPM, SPP 1247 psi, RPM 50-60, Torque on bttm 2-4 kft-lbs.</p>
21.0	3/22/2021	3/23/2021	\$45,563	\$371,323	<p>Emma E McVey 1 P/A Well 1 of 1 No accidents incidents or spills reported. Cuttings, Cement 99%, Formation 1%</p> <p>Drill Cement plug f/1653' T/1661'. WOB 5-8 klbs, 300 GPM, SPP 930 psi, RPM 50-60, Torque on bttm 2-4 kft-lbs. ROP dropped to 5'/hr. Trip out and check Motor and bit. Bit balled up w/ Cement. Mud motor ok, Clean bit &amp; prep to TIH. Pick up Directional BHA. Trip Back to bottom, Wash joint down @ 1500' to 1530'. Drill Cement plug f/1661' T/1691'. WOB 5-8 klbs, 300 GPM, SPP 930 psi, RPM 50-60, Torque on bttm 2-4 kft-lbs.</p> <p>Wash in Hole F/1691' T/ 1928'. (Tag and Drill Hard Cement F/1821' T/1889'). Drill Cement plug F/1928' T/2185'. WOB 5-8 klbs, 300 GPM, SPP 1068 psi, RPM 70-80, Torque on bttm 3-5 kft-lbs.</p> <p>Perform BOP Drill. 50Sec. SPR @2148' Pump #2 50SPM 455PSI</p>

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22.0	3/23/2021	3/24/2021	\$33,049	\$404,372	<p>Emma E McVey 1 P/A Well 1 of 1 No accidents incidents or spills reported.</p> <p>Drill original hole F/2185' T/2231'. WOB 5-8 klbs, 300 GPM, SPP 1068 psi, RPM 70-80, Torque on bttm 3-5 kft-lbs. Wiper trip out to 1435', Trip back in to look for sidetrack indications, took 12k WOB @ 1635', took 15K WOB @ 1715' and 10k WOB @ 1751'. Circ bottoms up. while discussing options. Wash &amp; ream original hole F/2231' T/2277'. WOB 25klbs, 300 GPM, SPP 1192 psi, RPM 55, Torque on bttm 3-4 kft-lbs. POOH to Check BHA, Lay down BHA, Drain motor and break Bit off. (Bit Balled up and 2 plugged jets, No ware or damage). Pick up New 5" Ensign Motor, Uterra 6 1/8 Mill tooth bit. TIH to 740' Wait for NOV Agitator to Arrive. Rig Service, Grease, IRN, top Drive, HPU PTO and Change Dies in pipe wrangler. TIH to 992', Strap and Pick up NOV Agitator Test MWD and Continue TIH to 2205', Wash last 2 joints in hole. Wash &amp; Ream Original Hole F/2277' T/2424'. WOB 10klbs, 300 GPM, SPP 1550 psi, RPM 70, Torque on bttm 4-5 kft-lbs.</p>
23.0	3/24/2021	3/25/2021	\$41,858	\$446,229	<p>Emma E McVey 1 P/A Well 1 of 1 No accidents incidents or spills reported.</p> <p>Wash &amp; Ream Original Hole F/2420' T/2612'. WOB 10klbs, 300 GPM, SPP 1570 psi, RPM 60, Torque on bttm 4-5 kft-lbs. Rig Service, Grease pillow block, wash pipe, cushion sub, roughneck, HPU driveline and pump clutches. Wash &amp; Ream Original Hole F/2612' T/2768'. WOB 10klbs, 300 GPM, SPP 1570 psi, RPM 60, Torque on bttm 4-5 kft-lbs. Survey on Bottom POOH for New Bit and BHA, Trip out to BHA Lay down HWDP, Monels, Motor and Bit, Grade Bit. TIH, Pick up New Uterra 6.125 Mill Tooth Bit, Bit Sub with float, MWD Monels, 3 joints of 5" DC and 5 joints of 4" HWDP. Trip in hole to 2711' Wash last 2 joints to bottom. Wash &amp; Ream Original Hole F/2768' T/2823'. WOB 10-12klbs, 500 GPM, SPP 1670 psi, RPM 80, Torque on bttm 5-6 kft-lbs.</p>
24.0	3/25/2021	3/26/2021	\$31,729	\$477,958	<p>Emma E McVey 1 P/A Well 1 of 1 24Hr Footage 484', 23.5 hrs, 20.5 Ft/Hr No accidents incidents or spills reported. Cuttings, Small Round Formation, Dehydrated Mud and Wall Cake.</p> <p>Wash &amp; Ream Original Hole F/2823' T/3025'. 202' in 9.5 hrs @ 21.26 FPH, WOB 12-16 klbs, 500 GPM, SPP 1700 psi, RPM 80, Torque on bttm 5-6 kft-lbs. Rig service, Check pillow block bolts/ grease HPU driveline, swivel, packing, pump clutches, iron roughneck, and cushion sub. Wash &amp; Ream Original Hole F/3025' T/3307'. 282' in 14 hrs @ 20.0 FPH, WOB 12-16 klbs, 500 GPM, SPP 1700 psi, RPM 90-100, Torque on bttm 2-3 kft-lbs.</p>

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25.0	3/26/2021	3/27/2021	\$28,917	\$506,875	<p>Emma E McVey 1 P/A Well 1 of 1 No accidents incidents or spills reported.</p> <p>Wash &amp; Ream Original Hole F/3307' T/3391'. 84' in 5.5 hrs @ 15.5 FPH, WOB 16-20 klbs, 400 GPM, SPP 1200 psi, RPM 80-100, Torque on bttm 3-6 kft-lbs. Cond hole, pump high vis sweeps around.</p> <p>Wiper trip to 2700' and back to bottom. Hole clean, no issues. Cond hole, pump high vis sweeps around. Trip out of hole, lay down HWDP, collars, directional tools, Bit sub and bit. Rig Service, Grease Top Drive, Crown, Pump Clutches and HPU. TIH to Set Cement plug #1. TIH with 103jts of open-ended drill pipe to 3230'. Circulate Bottoms up, Wait for and Spot in Nex-Teir Cementers. Monitor background gas with Handheld monitor, 0 LEL. Well Static, No Flow.</p> <p>PJSM: W/ Cementer, Rig Crew and WSS. R/U Fill test lines to 2500 psi, Pump 20 bbls 10ppg spacer a head, <b>Mix and Pump 42.4 bbls of 15.8 ppg upper Pierre blend Cmt (200 sx) Slurry</b> yield of 1.19 W/ Gas Block,. Displace with 28 bbls of 9.8 ppg mud. Shut down no psi Flowed back 1.0bbls, break off R/D. <b>Plug set at 3230' TOC 2906'</b>. CIP 3/27/21 @0000hrs. POOH @ 1min/Jt. 16 joints to 2725', Circulate Bottoms up @ 550GPM. Lost Returns @ 1467stk. POOH to 7" Casing shoe. (Wait on cement 6Hrs). Break circulation inside of 7" casing @721'. Circulate bottoms up @ 182GPM full returns. (Wait on Cement 6Hrs). Wait on Cement till 3/27/21 @ 0600Hrs. POOH to Surface Check Drill pipe. Drill pipe Clean, TIH to 7" Casing shoe @ 756'. Circulate Bottoms up @ 182GPM, Full returns, Stage in hole and Break Circulation @ 1000', 1500'. Establish Circulation @1535'. Cement returns to surface.</p>
26.0	3/27/2021	3/28/2021	\$74,917	\$581,792	<p>Emma E McVey 1 P/A Well 1 of 1 No accidents incidents or spills reported</p> <p>TIH to 2000'. Break circ, lost full returns, POOH to 1500' Pump 15 lb/bbl LCM sweep, regain full circ, Stage in hole, TIH to 1750', circ bottoms up, TIH to 2068' circ bottoms up,</p> <p><b>TIH to 2726' and Tag cement Plug #1 (Tag TOC @2726')</b>. TOOH to 2068'.</p> <p>Monitor back ground gas with Hand Held monitor, 0 LEL. Well Static, No Flow. PJSM: W/ Cementer, Rig Crew and WSS. R/U Fill test lines to 2500 psi, Pump 20 bbls 10ppg spacer a head, <b>Mix and Pump 86 bbls of 15.8 ppg upper Pierre blend Cmt (400 sx) Slurry</b> yield of 1.19 W/ Gas Block,. Displace with 15 bbls of 9.8 ppg mud. Shut down no psi Flowed back 1.0bbls, Break off R/D. <b>Plug set at 2068' to 1450'</b>. CIP 3/27/21 @12: 00hrs.</p> <p>POOH @ 1min/Jt. 22 joints to 1410', POOH full speed from 1410' to 970', Circ 1st bottoms up @ 221 GPM, Circ 2nd bottoms up @ 358 GPM. Full returns. Wait on Cement, Prep rig for Move, Change DS Catwalk kicker. <b>Trip in and tag 2nd plug @ 1061'</b>. Circulate while spotting in Cement trucks. Monitor back ground gas with Hand Held monitor, 0 LEL. Well Static, No Flow. PJSM: W/ Cementer, Rig Crew and WSS. R/U Fill test lines to 2500 psi, Pump 20 bbls 10ppg spacer a head, <b>Mix and Pump 70 bbls of 15.8 ppg Class G neat (341sx) Slurry</b> yield of 1.15 yld,. <b>Plug set at 1061' to 137'</b>. CIP 3/27/21 @17:30hrs. POOH @ 1min/Jt. 34 joints to Surface. Nipple down BOPE, Flow line, accumulator lines, Choke hose and remove 7" Casing Head. Tag TOC @137'.</p> <p>Monitor back ground gas with Hand Held monitor, 0 LEL. Well Static, No Flow. PJSM: W/ Cementer, Rig Crew and WSS. R/U Fill test lines to 2500 psi, <b>Mix and Pump 7.0 bbls of 15.8 ppg Class G neat (37sx) Slurry</b> yield of 1.15 yld,. <b>Plug set at 137' to Surface'</b>. CIP 3/27/21 @21:30hrs. Clean up Crestone Rental Equipment, Rig Down, Clean mud Tanks.</p>
27.0	3/28/2021	3/29/2021	\$83,331	\$665,123	<p>Emma E McVey 1 P/A Well 1 of 1 No accidents incidents or spills reported Finial Operations Report Daily Workover Report for Emma E McVey 1 P/A</p> <p>Clean Mud tanks with Brand-W hydro Vac, Haul Mud to Disposal with Ensign Well Service, Load and haul 4" XT-39 Rental Pipe to Quail, load out and Return New Park Mud Chemicals. Rig Down solids Control unit Haul off Cuttings, Wash Rig and lower Derrick. Winterize water system on Rig, Rig down Electrical on Rig, Mud Lines, Steam and Boiler System, Doghouse. 1 Ensign Rig Hand Dry Watch Rig for Night Tour.</p>
28.0	3/29/2021	3/30/2021	\$2,491	\$667,614	Sweep entrance on Monaghan road
29.0	3/30/2021	3/31/2021	\$18,093	\$685,707	Sweep entrance on Monaghan road
30.0	3/31/2021	4/1/2021	\$504	\$686,211	Work access road to dry out

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31.0	4/5/2021	4/6/2021	\$1,073	\$687,284	Sweep entrance on Monaghan road for Ensign rig move
32.0	4/6/2021	4/7/2021	\$21,470	\$708,754	Remvoing road base from ditches along developers access road. Rake what excavator cant get to.
33.0	4/7/2021	4/8/2021	\$6,061	\$714,815	PJSM, Remove Cellar ring, Use flare Camera to confirm no gas. Cut off 7" casing @ 57" below ground level, Weld cap and P&A well plate on 8 5/8" Surface casing. Backfill and cover well. Remvoing road base from ditches along developers access road. Rake what excavator cant get to.
34.0	4/8/2021	4/9/2021	\$3,500	\$718,315	Remvoing road base from ditches along developers access road. Rake what excavator cant get to.
35.0	4/9/2021	4/10/2021	\$4,500	\$722,815	Remvoing road base from ditches along developers access road. Rake what excavator cant get to.
36.0	4/10/2021	4/11/2021	\$4,500	\$727,315	Continue to clean up road way, shoulders and ditches. Continue to work piled snow mud mix to dry up for reclaim.