

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM99705

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
EAGLE SPRINGS 9 FEDERAL 1

2. Name of Operator  
HPOC, LLC  
Contact: ARTHUR W. BUTLER  
E-Mail: BBUTLER@HIGHPLAINSOP.COM

9. API Well No.  
30-043-21065-00-S2

3a. Address  
32700 ASPEN DRIVE  
BUENA VISTA, CO 81211

3b. Phone No. (include area code)  
Ph: 719-395-8059

10. Field and Pool, or Exploratory  
SWD

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 9 T19N R4W NWNW 460FNL 350FWL  
36.897910 N Lat, 107.271970 W Lon

11. County or Parish, and State  
SANDOVAL COUNTY, NM

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |   |  |   |
|---|---|---|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                       |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                       |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other Workover Operations |
|   | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

HPOC, LLC is operating with Bond No. NMB 000457.

Drilled 6-1/4" hole to a TD of 5740' reached on 1/18/2013. After logging and pipe re-tally, this TD was corrected to 5732'.

RCVD JUN 21 '13  
OIL CONS. DIV.  
DIST. 3

SEE ATTACHED PDF WITH COMPLETION HISTORY

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #210805 verified by the BLM Well Information System**  
**For HPOC, LLC, sent to the Rio Puerco**  
**Committed to AFMSS for processing by STEVE MASON on 06/20/2013 (13SXM0028SE)**

Name (Printed/Typed) ARTHUR W. BUTLER Title MANAGER

Signature (Electronic Submission) Date 06/17/2013

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By **ACCEPTED** STEPHEN MASON  
Title PETROLEUM ENGINEER Date 06/20/2013

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Office Rio Puerco

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**HPOC, LLC**  
**Eagle Springs 9 Federal 1**  
**Completion History-Recomplete from Morrison to Entrada**  
**API No: 30-043-21065**  
**Administrative Order: SWD-1189-A**

| <b>Date</b> | <b>Operations</b>   |
|-------------|---|
| 1/2/2013    | MIRU Hurricane Well Service Rig #17, derrick in the air at 16:30hrs. SDON.  |
| 1/3/2013    | Wellhead frozen upon arrival. Thawed wellhead. RU rig pump to csg, pressure tested csg F/ 5043' – T/ Surface to 550psi, held 30 minutes, good test. ND well head and NU BOP. Unlanded tbg mandrel and unset packer, relanded on mandrel. Hurricane delivered catwalk, pipe racks. Could not start tripping pipe until 15:30hrs. LD 103jts of 3-1/2" tbg. Too late and cold to continue, cat walk and pipe freezing as we lay down. Installed TIW valve in tbg, shut in well and SDON. Rig crew released at 18:00hrs.  |
| 1/4/2013    | Wellhead frozen upon arrival. Thawed wellhead. Completed TOH with a total of 162jts of 3-1/2" tbg and 7" packer assembly. Transferred 3-1/2" tbg to pipe racks, moved 2-7/8" tbg over to catwalk. Picked up a 6-1/4" bit, 7" csg scraper, X/O and TIH on 168jts of 2-7/8" tbg, tagged at 5412'KB, CIBP @ 5414'KB w/ 2 sks cement on top (wireline set). TOOH with 15jts of tbg. Shut in well and SDON.  |
| 1/5/2013    | Rig crew on location at 07:00hrs. Prep to squeeze existing Morrison perfs. Started & warmed up rig. Completed TOH with a total of 168jts of 2-7/8" tbg, LD 7" scraper & bit. Picked up a 7" cement retainer (Weatherford) and TIH on 155jts of 2-7/8" tbg. RU Halliburton to tbg, loaded hole and circulated csg to verify all clear (had to shut down to thaw out flowline). Set cement retainer at 5018'KB, pressure tested tbg to 3000psi, good test. Rotate retainer assembly to prepare for sting out. Established injection rate of 2.5bpm @ 760psi via tbg. Mixed & pumped 200sks (230cuft, 1.15yld, 15.8ppg) of Class G cement with 0.2% Halad-9 followed by 50sks (57.5cuft, 1.15yld, 15.8ppg) of Class G with 0.25% CaCl2 at AIR=3.0BPM & ATP=~95psi. Displaced with 29.5bbls of water. Shut down 24bbls into displacement, pressure from 807psi to 683psi in 1 minute then climbed to 687psi. Shut down 28bbls into displacement pressure from 1383psi to 936psi in 5 minutes. Completed displacement, final pump pressure was 1778psi @ 0.5bpm. Shut down, let pressure fall to ~1200psi and stung out of retainer with 1170psi on tbg. Job completed at 15:00hrs on 1/5/13. TOOH with stinger assembly. Shut in well and SDFW. |
| 1/7/2013    | Rig crew on location at 07:00hrs. Started & warmed up rig. Picked up a 6-1/4" insert bit and 6ea 4-3/4" DC's and TIH on 148jts of 2-7/8" tbg. Tagged cement at 4970'KB. LD 10jts of tbg and RIH with 5stds. Picked up power swivel. Drilled through cement and tagged Cement Retainer at 5014'KB. Drilled on cement retainer for 4-1/2hrs. Returned fine metal shavings and large amounts of rubber from packoffs toward the end of the day. Too late to continue. Circulated csg clean, LD swivel and TOH with 5 stds. Shut in well and SDON.  |

- 1/8/2013 Rig crew on location at 07:00hrs. Started & warmed up rig. TIH and continued drilling on cement retainer. Drilled retainer in approx 1-1/2hrs (6hrs total). Drilling continued to be difficult for the next 10'-15', remnants of cmt ret. Drilled cement to 5110'KB at 1-1/2 to 2 minutes per foot. 1st perf interval from 5087'-5095'. Circulated csg clean. Hang back power swivel. Pressure test interval to 510psi, held 25 minutes, good test. Too late to continue. Drained pump & lines and TOH with 5 stds. Shut in well and SDON.
- 1/9/2013 Rig crew on location at 07:00hrs. Started & warmed up rig. TIH and continued drilling cement. Drilled cement in stages to test perf intervals individually. Drilled to 5170', circulate clean, pressure test to 500psi, fell to 400psi in 20 minutes. Drilled to 5194', circulate clean, pressure test to 545psi, 5 minutes=460psi, 15 minutes=400psi, 30 minutes=335psi. Drilled thru cement at 5221'KB, lower perf interval F/5242'-T5251'. TIH and tagged PBTD at 5414'KB. Circulate csg clean, pressure test to 545psi, 5 minutes=460psi, 15 minutes=380psi, 25 minutes=325psi, 30 minutes=310psi. Bled off pressure and monitored for water flow 20 minutes, no water flow to surface. TOH with 10stds of tbg, drained pump & lines. Shut in well and SDON.
- 1/10/2013 Rig crew on location at 07:00hrs. Started & warmed up rig. Mechanic on location to inspect rig pump, was agitating heavily yesterday. Found loose valve sleeves, called out for a replacement pump. Set & RU pump, TIH and began drilling at 11:00hrs. Drilled thru approx 10' of cement and started drilling on CIBP @ 5420'KB. Fluids began to return dark black, drilled on CIBP for approx 2hrs. Water trucks arrived to clean system. Shut down drilling at approx 13:30hrs. Pulled all fluids from rig pit and cement pit. Pumped 130bbbls of clean water down casing and removed heavy black water, reloaded rig pit with 130bbbls of Entrada produced water. Removed approx 220bbbls of black fluids. Began drilling CIBP again at 15:00hrs, returns began to clean up to a lighter grey. Drilled on CIBP for a total of ~3-1/2hrs. Too late to continue. Hang back Kelly and TOOH with 10stds of tbg. Drained pump and lines and SDON.
- 1/16/2013 Rig was on standby due to extreme temps 1/11 thru 1/15. Rig crew on location at 07:00hrs. Started & warmed up rig. Engines running at 11:00hrs, thawed ice from rig pit to get to suction. TIH and tagged CIBP at 5420'KB. Picked up power swivel. Continued drilling plug. Drilled thru plug in 1-1/2hrs (5hrs total). TIH and began cleaning out open hole F/ 5518'KB – T/ 5575'KB. Encountered remnants of CIBP in open hole. Drilled on plug, spudding & making poly sweeps for remainder of the day (2-3/4hrs). Returned a good amount of metal and rubber debris from plug with small amounts of shale. Too late to continue. Hang back power swivel and TOOH with 10stds of tbg. Drained pump & lines, shut in well and SDON.
- 1/17/2013 Rig crew on location at 07:00hrs. Nightwatch was able to start engines at 06:30hrs. RU pump, TIH & tagged at 5575'KB, drilled on plug remnants for approx 3hrs more and started to make new hole at 10:45hrs. Drilled F/ 5582' – T/ 5702'KB, running poly sweeps periodically. Bit rpm=~60, WOB=~8-9K, Pump Rate=~3.2bpm. ROP was approx 1-1/2 to 2 minutes per foot to 5669', encountered a hard spot (approx 4 minutes for 1 foot). ROP increased back to 2 minutes per foot then fell off at 5690' (3-1/2 to 4-3/4 minutes per foot). Too late to continue. Circulated hole clean, hang back power swivel and TOOH with 6stds of tbg. Drained pump & lines, shut in well and SDON.

- 1/18/2013 Rig crew on location at 07:00hrs. Nightwatch was able to start engines at 06:30hrs. RU pump, TIH & tagged at 5702'KB. Drilled F/ 5702' – T/ 5740'KB, running poly sweeps periodically. Bit rpm=~60, WOB=~8-9K, Pump Rate=~3.2bpm. ROP was approx 4 to 6 minutes per foot. Encountered a hard spot (approx 12 minutes/foot) at 5716'. Then ROP increased to 4 to 7 minutes per foot to TD of 5740'KB. Circulated hole clean with poly sweeps. TOH with DC's & bit, bit had side wear, cones wear in fair condition. RU Halliburton and RIH with triple combo logs. Tagged TD at 5732'KB, 7" casing at 5510'KB per logs. Todilto top indicated at 5478'KB, Entrada top at 5566'KB & Chinle top at 5702'KB (field interpretation). RD wireline. Drained pump & lines, shut in well and SDON.
- 1/19/2013 Rig crew on location at 07:00hrs. Nightwatch could not get engines running. Rig crew started and warmed up engines. Picked up a new 6-1/4" bit, 6ea 4-3/4" DC's and TIH on 172 jts of 2-7/8" tbg. Re-tallied all pipe, tagged less than 1' of fill and corrected TD is at 5732.71'KB. Truck arrived during trip, shut down and unloaded 27jts of 4-1/2" casing onto pipe racks. RU pump and circulated hole clean and ran two polymer sweeps, circulated hole approx 3hrs, all returns were clean. TOOH with DC's and bit. Drained pump & lines, shut in well and SDON.
- 1/20/2013 Rig crew on location at 07:00hrs. RU Permian Power Tongs. Picked up a 4-1/2" cement nose guide shoe, 4jts 4-1/2" perforated csg (180.58') for open hole completion across Entrada injection interval, a 6-1/4" x 4-1/2" Annulus Csg Packer (ACP), 4-1/2" stage tool, 14jts 4-1/2", 11.6#, J-55, LT&C csg (placed 4 centralizers between ACP & liner top evenly spaced) and a 7" x 4-1/2" liner hanger with pack off. RIH with 10ea 5" DC's, 12ea 4-3/4" DC's, 130jts of 2-7/8" tbg & 2ea 8' 2-7/8" tbg subs. Dropped sealing ball. RU Halliburton. Increased pressure to 1200psi to engage liner hanger, liner hanger set. Csg set @ 5731'KB, top of perforated csg @ 5550'KB, ACP set @ 5533'KB, Stage tool @ 5531'KB, Top of 4-1/2" liner hanger @ 4925'KB with top of polished bore receptacle (RBP) @ 4900'KB. Increased pressure to 2500psi in 200psi increments, set ACP. Increased pressure to 2700psi and opened stage tool. Circulated csg. Preceded cement with 10bbbls of gel spacer. Pumped 75sks (86.25cuft, 1.15yld, 15.6ppg) of class "G" cement with 0.2% Halad-9 & 1/8pps Pol-E-Flake. Dropped tbg wiper plug, displaced with 28.8bbbls of water and landed tbg wiper into liner wiper plug. Launched plug and completed displacement of 39bbbls of water. Landed plug and closed stage tool at 2520psi. Checked floats, held OK. Set liner pack off with 35K weight. Pull out of hanger and pressure test liner hanger to 1000psi, held 5 minutes, good test. Pulled up hole 16', reverse circulated cement from top of liner. Returned 4bbbls of cement to surface. Job completed at 18:00hrs on 1/20/13. RD Halliburton. TOOH with 5stds of tbg. Shut in well and SDON.
- 1/21/2013 Rig crew on location at 07:00hrs. RU Wellcheck and pressure tested 7" casing, 4-1/2" liner and liner top to 1500psi, held 30 minutes, good test. RD Wellcheck. TOOH with 2-7/8" tbg, LD 10ea 5" DC's, 12ea 4-3/4" DC's and setting tool. Received 4ea 3-1/8" DC's and 26jts of 2-3/8" tbg. Loaded all DC's, handling tools and Weatherford equipment on truck and sent to town. Shut in well and SDON. Rig crew released at 16:00hrs.

- 1/22/2013 Rig crew on location at 07:00hrs. Tallied and picked up 3-7/8" bit, bit sub, 3-7/8" string mill, 2ea x/overs, 4ea 3-1/8" DC's, 26jts of 2-3/8" tbg and TIH on 2-7/8" tbg. Entered 4-1/2" liner top easily. TIH and tagged cement at 5445'KB. Picked up power swivel, drilled thru cement and began drilling on stage tool at 5531'KB. Drilled for approx 45 minutes, tbg torqued up and pump pressured up. Pulled off bottom, tbg rotating, still pressured out (reverse circulating). Changed to pump down csg, pressure increased to 800 psi, no circulation. Bleed off pressure and TOOH with 12 stands, with 10 stds out tbg went on vacuum. Brought on pump (conventional circulation), circulated csg for approx 30 minutes, all good. TIH and tagged stage tool, began drilling conventionally, drilled thru tool and continued to stage collar, seating baffle and steel sealing ball below ACP. Drilled and worked on stage collar for approx 2hrs. Could only set down 3K on bit or tbg would over torque. Too late to continue. TOOH with 12 stds of tbg, drain pump and lines. Shut in well and SDON. Rig crew released at 18:00hrs.
- 1/23/2013 Rig crew on location at 07:00hrs. Started & warmed up equipment. TIH and continued drilling thru baffle plate at 5549'KB. Drilled thru in ~1hr, continued to dress ACP area with string mill until all clear. TIH and tagged TD at 5730'KB. LD 50jts of 2-7/8" tbg. RU swab tools. Initial fluid level was approx 450'. Made 7 swab runs and recovered 27bbls, had to shut down while swabbing to change cups & realign swab line. Fluid level fluctuated between 450'-550' on every run. Fluid entry calculated at 36bbls per hour. RD swab tools. LD 2-7/8" tbg, 2-3/8" tbg, 3-1/8" DC's, 3-7/8" string mill and 3-7/8" Bit. Transferred 2-7/8" tbg to float and transferred 3-1/2" tbg to pipe racks. Drained pump and lines. Shut in well and SDON. Rig crew released at 18:00hrs.
- 1/24/2013 Rig crew on location at 07:00hrs. Started & warmed up equipment. Picked up a 4-1/2" x 2-3/8" Arrow Set 1X nickel coated packer, with nickel coated on/off tool (profile ID=1.87" @ 5495'KB) and TIH on 20jts of Special clearance plastic lined 2-7/8" tbg (644.66') and 156jts of original 3-1/2" plastic lined tbg (4835.56') Set 34K compression on packer, 15K tension on tbg hanger. Tbg/Packer landed at 5501.86'KB, on/off tool at 5495'KB, bottom of 3-1/2" tbg at 4848.87'KB. ND BOP & NU wellhead. RU H&M Precision and pumped 110gal of corrosion inhibitor / packer fluid via csg, loaded csg with water. Pressure tested csg to 1080psi, held 5 minutes, good test. Shut in well. RD Hurricane Well Service #17. Rig crew released at 17:30hrs. Will plan MIT after OCD notifications.
- 2/14/2013 Rig up Wellcheck, LLC. Performed OCD required Mechanical Integrity Test (MIT) on the production packer annulus to 500psi, held 30 minutes, no pressure drop, good test. Monica Kuhling with NM Oil Conservation Division witnessed and signed off on test. RD Wellcheck. FINAL REPORT