

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.*

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

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION		5. Lease Serial No. NMNM113426
2. Name of Operator HPOC, LLC		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 5046 BUENA VISTA, CO 81211		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 719-395-8059		8. Well Name and No. OJO ENCINO 31 FEDERAL SWD 1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 31 T20N R5W NWNE 340FNL 2300FEL 35.926480 N Lat, 107.405320 W Lon		9. API Well No. 30-031-21112-00-S1
		10. Field and Pool, or Exploratory UNKNOWN WILDCAT
		11. County or Parish, and State MCKINLEY 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 Drilling 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 8-3/4" hole to a TD of 6033' reached at 11:30 hours on 9/27/2012.

SEE ATTACHED PDF WITH COMPLETION HISTORY

RCVD JUN 19 '13  
OIL CONS. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #210103 verified by the BLM Well Information System For HPOC, LLC, sent to the Farmington Committed to AFMSS for processing by WILLIAM TAMBEKOU on 06/17/2013 (13WMT0005SE)</b>	
Name (Printed/Typed) ARTHUR W. BUTLER	Title MANAGER
Signature (Electronic Submission)	Date 06/08/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <b>ACCEPTED</b>	WILLIAM TAMBEKOU Title PETROLEUM ENGINEER	Date 06/17/2013
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 Farmington

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 \*\***

NMOC  
BY

**HPOC, LLC**  
**Ojo Encino 31 Federal SWD 1**  
**Completion History**  
**API No: 30-031-21112**  
**Administrative Order: SWD-1315**

**OIL CONS. DIV DIST. 3**  
**JUL 15 2013**

<b>Date</b>	<b>Operations</b>
12/14/2012	MIRU Hurricane Well Service rig #17. ND 7" valve, NU BOP. Picked up a 6-1/4" bit, 7" csg scraper, X/O, Bit Sub, X/O and TIH on 20jts of 2-7/8" tbg. Tagged bridge at 642'KB, could not work past. Picked up power swivel and RU pump. Circulated csg. Drilled thru bridge, approx 20' thick, ~45 minutes. LD swivel. TIH with a total of 175jts, tagged at 5662', picked up swivel, drilled cement to 5758'KB. Too late to continue. Circulate hole clean. TOOH 10stds. Shut in well and SDON. Rig crew released at 18:00hrs.
12/15/2012	TIH with 10stds of tbg and continued drilling cement to PBTD. Drilling became hard at 5984'KB (PBTD reported at 5978'KB). Circulated csg clean. TOOH with 185jts of 2-7/8" tbg, LD csg scraper and bit. Shut in well and shut down until Monday, 12/17/12. Rig crew released at 16:00hrs.
12/17/2012	Rig crew on location at 07:00hrs. RU Halliburton Wireline Services. RIH with CBL, GR, CCL. After calibrating, recalibrating, changing out tools and making phone calls to technical support, began logging up hole at 13:30hrs. At approx. 2800', CBL tool "shorted." TOOH and changed out tools again. TIH to below where tool shorted and began logging up at 16:30hrs, spliced logs. Held 1000psi on all logging runs. Found TOC at approx. 2400'KB (field interpretation only, 30mv increased to 40mv), true free pipe at 2240'KB (70mv). Logged to 250' (surface csg set at 394'KB). RD Halliburton. TIH & TOH with 21stds of tbg to drop fluid level in wellhead to prevent morning freeze, drain pump & lines. Shut in well and SDON. Rig crew released at 18:30hrs.
12/18/2013	Rig crew on location at 08:00hrs. BLM & OCD approved moving ahead after inspecting CBL. Picked up seating nipple and TIH on 182jts of 2-7/8" tbg. Began swabbing well down to prepare for underbalanced tbg conveyed perforating. Made 16 swab runs and swabbed fluid level to 3300'. Too late to continue, RD swab tools and drain lines. Shut in well and SDON. Rig crew released at 17:30hrs.
12/19/2013	Extremely high winds & blowing snow throughout the day. Rig crew on location at 07:30hrs. RU to swab. Continued swabbing fluid level down. Made 9 swab runs, last fluid level was 4600'. Recovered 4.5bbls on last run, fluid level should now be at ~4725'. RD swab tools. Could not safely trip out of hole with tbg due to extremely high winds & gusts. Shut in well and SDON. Rig crew released at 13:30hrs.

- 12/20/2013 Rig crew on location at 07:00hrs. Trouble starting rig engine, started at 09:00hrs. RD swab tools. RU tbg tongs. TOOH w/ 182jts of 2-7/8" tbg. Picked up 100' of 4-1/2" TCP guns, firing head, 2jts of 2-7/8" tbg, spacer disc, 4jts of 2-7/8" tbg, correlation sub and TIH on 175jts of 2-7/8" tbg. RU Weatherford Wireline, RIH with GR/CCL for correlation run (correlated with open hole logs, 5' adjustment). Guns needed to come up hole 5.00'. TOH with logging tools, RD Weatherford. Marked tbg and picked up 5', guns on depth. Prepared rig/crew to TOH with tbg. Dropped firing bar, 1 minute 20 secs, guns fired (perforated Lwr Entrada F/ 5854' – T/ 5954'KB, 5spf, EHD=0.40", EPD=64", 39g, total of 500 holes) , csg had immediate hard blow, down to light vent after 11 minutes. Sent derrick hand up immediately after guns fired and TOOH with tbg & guns, inspected guns, all shots fired. Found tbg sub above firing head full of sand. Shut in well and SDON. Rig crew released at 17:00hrs.
- 12/21/2013 Rig crew on location at 07:00hrs. Picked up 2-3/8" N/C, 2-3/8" flapper, 2-3/8" x 10' tbg sub, 2-3/8" flapper, crossover, 17jts of 2-7/8" tbg, crossover, 2-3/8" hydrostatic bailer, crossover, 2-7/8" x 4' perf sub, 2-7/8" SN and TIH on 2-7/8" tbg. Tagged bridge at 5886', worked bailer and fell thru, tagged sand fill at 5918' (perfs F/ 5854'–T/ 5954'), cleaned out with bailer to 5984'KB (PBSD). TOOH with 44jts of tbg, EOT @ 4615', SN at 4037'. RUTS. Made 4 swab runs, fluid level at 600' and remained, recovered ~30bbbls of water. Water inflow greater than 30bbbls/hr. SD for lunch, let any sand settle. RD swab tools and TIH, tagged at 5983'KB (1' of fill). Cleaned out to PBSD. LD all 2-7/8" tbg, and bailer assembly. Found 6jts of tbg full of sand. Shut in well and SDON. Rig crew released at 17:00hrs.
- 12/22/2013 Crew on location at 09:30hrs. RU 2ea Halliburton Acid Frac HT-400 pumps and 3ea JS Water Hauling trucks (320bbbls). P/T pumps & lines to 4000psi. Opened well head with 0psi. ///12:01hrs---Loaded csg at 2bpm with 21bbbls of water (20psi) via 7" csg. Increased rate to 4.2bpm, caught fluid drop & pressure climbed to 330psi. ///12:05hrs---1st stage: 5 minutes, 4.2bpm, ~25bbbls, 430psi at end of stage and climbing. ///12:11---2nd stage: 10 minutes, 6.1bpm, ~60bbbls, pressure climbing throughout stage & climbing sharply at approx. 7 minutes. Decided to increase rate before "sand off." ///12:19hrs---Increased rate to 8.2bpm, pressure climbed to 2065psi and broke off to 1200psi. ///12:21hrs---3rd stage: 8.2bpm, 5 minutes, ~55bbbls, 1340psi at end of stage. ///12:27hrs---4th stage: 13 minutes, ~135bbbls, 1400 psi & broke to 1100psi with a total of 226bbbls of water gone. Shut down pumps. Total fluid pumped=314bbbls. ISIP=963psi, 5 minute=199psi, 10 minute=77psi, 15 minute=19psi. Casing on vacuum at 18 minutes after shut down. RD Halliburton. Shut in well and SD for Christmas Holiday.
- 12/27/2013 Crew on location at 07:00hrs. Decision was made over Holiday weekend to add additional perforations. Halliburton en route to location with guns. Had rig crew TIH w/ 128jts of 2-7/8" tbg off of tbg float and stand back in derrick while waiting. Halliburton on location at 12:20hrs. RU Wireline truck and make up 3-1/8" perf guns. RIH and tagged fill at 5909'KB, tagged with tbg bailer on 12/21/12 at 5886'KB and had cleaned out to PBSD at 5984'KB. PUH and perforated upper Entrada F/ 5810' – T/ 5850' in two runs (6spf, 21.5g, EHD=0.43", EPD=37.30", 60 deg phasing, total of 240 holes). RD Halliburton. Spotted Hurricane air unit, flowback tank and 2ea frac tanks. Shut in well and SDON. Rig crew released at 17:00hrs.

- 12/28/2013 Crew on location at 07:00hrs. Picked up 2-3/8" N/C, 2-3/8" flapper, 2-3/8" x 10' tbg sub, 2-3/8" flapper, crossover, 14jts of 2-7/8" tbg, crossover, 2-3/8" hydrostatic bailer, crossover, 2-7/8" x 4' perf sub, 2-7/8" SN and TIH on 2-7/8" tbg. Tagged fill at 5932' (perfs F/ 5810'-T/ 5954'), cleaned out with bailer to 5984'KB (PBSD). TOOH with 49jts of tbg, EOT @ 4421', perf sub at 3941'. RU Hurricane air unit and unloaded water from csg, 1525psi break over psi. Blew well around for 3hrs. 1st hr: Air Booster went down three times, found faulty gauge and repaired, recovered 141bbbls of water. 2nd hr: Recovered 200bbbls. 3rd hr recovered 217bbbls. Caught samples in 5 gallon bucket periodically. Water was tan with low gravity solids (silt) and approx. 1/2cup of fine sands in bottom of bucket. Water would settle to tan tint but translucent with sediment after approx. 20 minutes. Avg. water recovery rate at ~210bph and maintaining 1080psi on air unit. Shut down air. TIH and tagged 3' of fill. Cleaned out to PBSD and TOH with 41jts of tbg. Drain lines. Shut in well and SDON. Recovered 558bbbls of water today.
- 12/29/2013 Crew on location at 07:00hrs. TIH w/ 41jts of tbg and tagged at 5982'KB (2' of fill overnight). Worked bailer and cleaned out to 5984'KB (PBSD). PUH with 41jts of tbg. EOT @ 4712', perf sub @ 4232'KB. Had trouble starting booster engine for air compressor, had fired earlier then died (gelled fuel), worked on engine 3+hrs, acts like starter is now out. Could not fire engine. Called office. Decided to abort fluid inflow test. Released air unit. TIH with tbg from derrick, tagged no fill. LD 185jts of 2-7/8" tbg on float & bailer assembly. Found 7jts from flappers with sand, 2 of those 7jts had mostly water (2jts above flappers), gross recovery was approx 5-1/2 jts of sand (fine, grey). Found heavy perforation debris on top of flappers. ND BOP & NU wellhead, set 7" x 4-1/2" mandrel inside wellhead for storage. Shut down for holiday. JS Water Hauling hauled out 3ea 80bbbls trucks & 1ea 130bbbls transport of production fluids.
- 1/2/2013 Crew on location at 07:30hrs. Extremely cold temps. Could not get rig engine to start until 11:00hrs. RD Hurricane #17 and moved to the ES 9 Fed #1 SWD. Rig released at 12:00hrs. Plan to return at a later date to complete SWD.
- 2/6/2013 MIRU Hurricane rig #17 from Eagle Springs 8 Fed #2M. ND wellhead & NU BOP. Spotted rig equipment. Rig crew released at 17:00hrs.
- 2/7/2013 Rig crew on location at 07:00hrs. Started and warmed up equipment. Picked up 2-3/8" N/C, 2-3/8" flapper, 2-3/8" x 10' tbg sub, 2-3/8" flapper, crossover, 8jts of 2-7/8" tbg, crossover, 2-3/8" hydrostatic bailer, crossover, 2-7/8" x 4' perf sub, 2-7/8" SN and TIH on 2-7/8" tbg. Tagged fill at 5972'KB (12' of fill), bottom perf is at 5954'KB. Bailed fill to 5984'KB (PBSD), first few feet were tight then bailed easier to bottom. Pulled up hole, hesitated while crew took lunch. TIH, tagged PBSD. LD 2-7/8" tbg and bailer assembly. Flappers and 10' tbg sub were packed tight with light grey, hard packed, fine sand. A small amount of sand with black heavy fluid was found in the bottom of the last joint above flapper. Shut in well. Set out 4-1/2" casing on pipe racks and tallied to prepare for running injection string. Rig crew released at 17:00hrs. SDON.
- 2/8/2013 Rig crew on location at 07:30hrs. Started and warmed up equipment. RU Weatherford Wireline, picked up a 7" x 4-1/2", nickel coated packer with PBR (Weatherford) and RIH on wireline. Correlated with logs run on 1/17/13. Set packer at 5765'KB(center element), top of packer at 5762'KB. TOH & RD Weatherford. Shut in well. Move tbg trailer and spotted catwalk & pipe racks, transferred 4-1/2" csg to catwalk. Rig crew released at 12:00hrs. SDFW.

- 2/11/2013 Rig crew on location at 07:00hrs. Started and warmed up equipment. RU Permian Power Tongs, picked up the latch in tool/Pack-off, 1jt of 4-1/2" Internally Plastic Coated (IPC) csg, 4-1/2" x 3.828" Profile Nipple, 134jts of 4-1/2", 11.6#, J-55, LTC, IPC csg, 1ea 8', 1ea 4' 4-1/2", IPC csg subs and 1 Full jt of 4-1/2", IPC csg. (136jts of 4-1/2", 11.6#, IPC & 2ea 4-1/2" IPC Csg Subs Total). Spaced out & Engaged Pack-Off Assembly with PBR (20 right hand turns to disengage). Landed Injection string with 38K on Mandrel, 24K on Pack-Off. ND BOP and NU wellhead. RU H&M Precision, pumped packer fluid and pressure tested annulus to 900psi, held 5 minutes, good test. Shut in well. RD Hurricane Well Service rig #17. Rig released at 17:30hrs.
- 2/14/2013 Rig up Wellcheck, LLC. Performed OCD required Braiden Head Test (0psi, slight blow, down to nothing in 8 secs, monitored open valve for 15 minutes, no movement at surface, Good Test) and 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 both tests. RD Wellcheck. FINAL REPORT