

Submit 1 Copy To Appropriate District

Office

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1625 N. French Dr., Hobbs, NM 88240

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District III - (505) 334-6178

1000 Rio Brazos Rd., Aztec, NM 87410

District IV - (505) 476-3460

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

Revised July 18, 2013

HOBBS 000  
MAR 06 2017  
RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO. 30-025-36529
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Cooper 8
8. Well Number 2
9. OGRID Number 244835
10. Pool name or Wildcat Monument - San Andres
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,550' GL, 3,567.5' RKB

<p>SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)</p>	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other SWD	
2. Name of Operator J. Cooper Enterprises, Inc.	
3. Address of Operator Box 55 Monument, NM 88265	
4. Well Location	
Unit Letter H : 1,850 feet from the North line and 630 feet from the East line	
Section 8 Township 20S Range 37E NMPM County Lea	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐  
 OTHER: Re-enter, Drill out plugs & Convert to SWD ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See attached detailed daily reports and current wellbore diagram.

Drilled out cement plugs. Set CIBP @ 5,050' & cap with 60' (2 bailer runs w/ 3 sx ea) cement.

Perforate 4,706-38' & 4,786-99' w/ 2 SPF. Acidize w/ 2,500 gals 15% NEFE in 2 equal stages w/ 150 RNCB's + 1,000# GRS block

Perforate 4,562-90', 4,598-4,614' & 4,632-62' w/ 2 SPF. Acidize w/ 3,750 gals 15% NEFE in 3 equal stages w/ 200 RNCB's + 3,000# GRS

Perforate 4,364-72', 4,377-89', 4,408-28', 4,434-41', 4,459-84', 4,490-4,508', 4,516-23' & 4,529-43' w/ 2 SPF. Acidize w/ 4,000 gals 15% NEFE + 5,500# GRS.

Ran 3-1/2", 9.3 ppf, J-55, 8rd EUE IPC tubing w/ 5-1/2" x 2-7/8" Arrowset NP Pkr w/ T-2 On-Off Tool w/ 2.31" profile nipple.

Set T/Pkr @ 4,335.77' KB. B/Pkr @ 4,346.20'. Circulate WB w/ 65 bbls FW packer fluid w/ CI & biocide. NU WH.

Test 5-1/2" casing x 3-1/2" tubing annulus to 675 psi and hold w/ no pressure decrease or gain.

Spud Date:

2/2/2017

Rig Release Date:

2/21/2017

SWD  
1613-A

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

*[Signature]*

TITLE Agent - HelMS Oil & Gas

DATE 2/28/17

Type or print name Michael Stewart

E-mail address: mstewart@helmsoil.com

PHONE: (432) 682-1122

For State Use Only

APPROVED BY:

*[Signature]*  
3/6/2017  
REQUEST C-105

TITLE AO/II

DATE

3/13/2017

Conditions of Approval (if any):



**J. Cooper Enterprises**  
**DAILY OPERATIONS REPORT**  
**Cooper 8 #2 SWD**

January 30, 2017      Monday      (Day 1)

Meet w/ Michael Evans on location. Found 8-5/8" csg stub ± 3' below surface. 1' of csg is exposed above cement that was poured in the bottom of the old cellar. Reviewed procedures to check pressure under plugging cap & to build 8-5/8" & 5-1/2" csg strings to surface. PU 5-1/2" x 3-1/2" Fig 92 tbg head to deliver to Tommy White for redress. SD. CMIC- D. Stewart.

Note: New Mexico time.

January 31, 2017      Tuesday      (Day 2)

Travel from base to Tommy White Wellhead. Deliver 5-1/2" x 3-1/2" Fig 92 WH to be redressed. PU new 8-5/8" x 5-1/2" Fig 92 WH + 8-5/8" Slip X Thread Collar. Travel to location. On location w/ M. Evans & Walden Welding. Welded 2" nipple & NU 2" valve onto 8-5/8" plugging cap. Drilled 1/4" hole through cap & found no pressure. Cut plugging cap off 8-5/8" csg & found 5-1/2" csg at surface inside of 8-5/8". Cut 8-5/8" csg back to expose 5-1/2". Dressed & welded on a Slip X Thread collar onto 5-1/2" csg stub. PU & MU a piece of 5-1/2", 17#, N-80 csg w/ threaded end onto collar, bringing 5-1/2" csg to above ground level. Dressed off 8-5/8" csg stub. Measured & cut a piece of 8-5/8" csg & placed it over the 5-1/2" csg. Butt welded the 8-5/8" csg pieces together, bringing it to the appropriate height. Welded on an 8-5/8" Slip X Thread collar & NU the 8-5/8" x 5-1/2" Fig 92 csg head. Set slips & packing around the 5-1/2" csg inside the 8-5/8" csg head. Hammered up the 8-5/8" capping flange packing off the 5-1/2" csg. Cut & dressed 5-1/2" csg above 8-5/8" csg head & welded on 5-1/2" bell nipple. SD. CMIC- D. Stewart.

Note: M. Evans cut & placed tin horn around WH. Backfilled tin horn & back drug location.

February 2, 2017      Thursday      (Day 3)

APSI Rig 805 on location. TFH Rentals delivered 3K BOP w/ 2-7/8" rams + flange adaptor & rig mat. Crew changed clothes, HSM & JSA. MIRU WSU. Energy F&R on location w/ reverse unit, spot & RU reverse unit. TFH delivered 100 bbls FW for reverse unit pit. D. Stewart delivered 5-1/2" x 3-1/2" Fig 92 tbg head. MU tbg head on 5-1/2" bell nipple. NU BOP w/ adaptor flange. NU stripper head, RU floor & tbg tools. Strap & caliper BHA & tally 2-7/8" WS. PU & RU swivel. PU 1 jt 2-7/8" tbg w/ swivel, stab BIW rubber & MU 4-3/4" MT bit. RIH w/ bit on 2-7/8" tbg & tag TOC Plug #1 @ 3' below surface. Began drilling cement pumping conventional @ 1.5 BPM. Made 1' in 1/2 hr. Returns are soft cement turning into harder chunks of cement. POOH & LD the 2-7/8" tbg & bit. PU on (1) 3-1/8" DC + 4-3/4" MT bit & RIH on the swivel. Drilled cement from 3' to 94' (91' @ 30.3 ft/hr). POOH & LD swivel + 3 DC's. SWI w/ BOP blinds. Secure well & clean location, SDON. CMIC- D. Stewart.

February 3, 2017      Friday      (Day 4)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. Energy F&R on location w/ reverse unit, PU on (4) 3-1/8" DC's + 4-3/4" MT bit & RIH on the swivel to TOC (94'). RU swivel. Lines were frozen, let swivel run to warm up. Ordered bull plug + gauge to test csg. Began drilling cement pumping conventional @ 1.5 BPM. Made 1' in 1/2 hr. Drilling hard cement. Reverse Unit froze up again. Stopped drilling to fix problem. Back to drilling. Really hard cement. Making <1' in 1/2 hr. PU (5) DC's & RIH to 130' continue drilling hard cement. Pumping conventional @ 1.5 BPM. PU 6 jts 2-7/8" tbg, RIH to TOC @ 165' & continue drilling hard cement. Drill 3.5', switch rubbers to 2-7/8" rubber. PU 7 jts 2-7/8" tbg, RIH to TOC @ 190' & continue drilling soft cement. Bit fell through Plug #1 @ 205'. PU 8 jts of tbg & clean out to 250'. POOH & stand back (5) DC's + 4 jts 2-7/8" tbg. Prepare to pressure test csg to 1,000#, csg pressure tested OK. RIH w/ (6) DC's + 24 jts 2-7/8" tbg to TOC @ 974'. SI BOP, RD swivel. Secure well & clean location, SDFWE. CMIC- R. Robbins.

February 6, 2017      Monday      (Day 5)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. Energy F&R on location w/ reverse unit, PU on 2-7/8" jt of tbg open BOP. Begin drilling Plug #2 @ 985' w/ (6) DC's + 25 jts, pumping 1.5 BPM, drilling soft cement, 1' per 15 min. (Short 1 hand on crew, replacement on his way.) PU 26 jts 2-7/8" tbg, continue drilling @ 1,018'. Drilling soft cement. PU 27 jts 2-7/8" tbg, continue drilling @ 1,051'. Drilling soft cement. Metal shavings in the returns. Drilling slowed. Circulate hole clean. PU 28 jts 2-7/8" tbg, continue drilling @ 1,084'. Drilling slowed, torqueing on bit hard, large pieces of metal in returns. POOH to check bit. RD swivel, RU tongs. POOH w/ 28 jts 2-7/8" tbg + (6) DC's, standing back. Bit is missing cone. Get magnet & basket ready to fish tomorrow morning. SDFN. CMIC- R. Robbins.



**J. Cooper Enterprises**  
**DAILY OPERATIONS REPORT**  
**Cooper 8 #2 SWD**

February 7, 2017      Tuesday      (Day 6)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. Energy F&R on location w/ reverse unit, RU magnet & basket, RIH on (3) DC's + 28 jts 2-7/8" WS, fish cone. Reverse circulate for 15 mins. POOH w/ basket & magnet. Retrieved pieces of cone. RIH w/ magnet & basket to continue cleaning hole. Reverse circulate for 20 mins. POOH w/ basket & magnet. Retrieved main cone housing. RU on 4-3/4" MT bit & basket. RIH to TOC. RU swivel & begin drilling. Reverse circulate, drill again to check for drilling response. Torqueing up still, pressure test csg to 1,000#- tested OK. POOH w/ 4-3/4" MT bit & basket. BOP malfunction. Repair BOP. POOH w/ 4-3/4" MT bit & basket. Bit had minor scaring. RIH w/ magnet & basket to fish junk. Reverse circulate, SD FL. POOH w/ magnet & basket- nothing on magnet or in basket. Ordered impression block. RD basket & bit. RU impression block. RIH w/ block, tag bottom @ 1,085', POOH w/ block. Standing back pipe & DC's. RD Impression block. Secure well & clean location, SDFN. CMIC- R. Robbins.

February 8, 2017      Wednesday      (Day 7)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. Energy F&R & fisherman on location w/ reverse unit. RU & RIH rotary shoe + 1 jt of wash pipe + (6) DC's + 24 jts WS to cut over OD of junk. Shoe on TOC @ 1,085'. RU swivel. Begin drilling- hard cement, metal & rubber returns, making 1' every 15 mins. Small slivers of metal & cement in returns. Making 1' every 15 mins. Cement returns, PU 1 jt 2-7/8" tbg. Continue drilling. Bottom out on wash pipe. POOH. Found cement & cone in wash pipe. PU 4-3/4" MT bit. RIH w/ (6) DC's + 29 jts 2-7/8" tbg to TOC. Tag TOC @ 1,117', resume drilling w/ MT bit. Pumping 1.5 bpm. PU 30 jts 2-7/8" tbg, RIH to TOC @ 1,150'. Continue drilling hard cement. PU 31 jts 2-7/8" tbg, RIH to TOC @ 1,182'. Continue drilling cement. PU 32 jts 2-7/8" tbg, RIH to TOC @ 1,204'. Fell through Plug #2 @ 1,250'. RIH w/ 57 jts tbg to TOC @ 2,050'. Circulate clean. RU pressure test casing to 1,000#- tested OK. Secure well & well location, SDFN. CMIC- R. Robbins.

February 9, 2017      Thursday      (Day 8)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. PU swivel, start drilling cement Plug #3 @ 2,050' w/ 57 jts in hole. PU 58 jts 2-7/8" tbg, continue drilling cement @ 2,061'. Making 3' min. PU 59 jts 2-7/8" tbg, continue drilling cement @ 2,094'. Making 1' min. PU 60 jts 2-7/8" tbg, continue drilling cement @ 2,127'. PU 61 jts 2-7/8" tbg, continue drilling cement @ 2,158'. PU 62 jts 2-7/8" tbg, continue drilling cement @ 2,190'. PU 63 jts 2-7/8" tbg, continue drilling cement @ 2,223'. PU 64 jts 2-7/8" tbg, continue drilling cement @ 2,256'. PU 65 jts 2-7/8" tbg, continue drilling cement @ 2,288'. Fell through cement Plug #3 at 2,290'. PU 66 jts 2-7/8" tbg, check for cement. RIH w/ 110 jts tbg to tag TOC of Plug #4 @ 3,740'. Pressure test casing to 1000# - OK. RU swivel & circulate. Start drilling cement Plug #4 at 3,740'. PU 111 jts 2-7/8" tbg, continue drilling cement @ 3,783'. PU 112 jts 2-7/8" tbg, continue drilling cement @ 3,815'. PU 113 jts 2-7/8" tbg, continue drilling cement @ 3,849'. Fell through Plug #4 at 3,855'. Circulate, RIH w/ 157 jts to tag top of cement Plug #5 @ 5,303'. TFH Vac Truck on location. Circulate w/ 130 bbls FW. Finished circulating clean. RD swivel, start standing back WS. Dispose of circulated fluid. Stood back WS, left 1 jt + (6) DC's in hole. Secure well & clean location, SDFN. CMIC- R. Robbins.

February 10, 2017      Friday      (Day 9)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. LD (6) DC's, order vac truck to clean reverse unit pit. Capitan WL on location. Finish LD DC's. Order pump truck from Stone Oil Field. Change rams on BOP after pulling jts w/ BOP closed. RU WL. Vac truck & pump truck on location. Clean reverse unit pit. RIH w/ GR on WL. Log from 5,050' - 4,000'. Set CIBP @ 5,050'. POOH w/ GR. RD GR. Finish cleaning reverse pit. RU pump truck on well head to test CIBP to 1,000#. Pump truck broke down. Stone Mechanic on location to fix pump truck. Pump truck still broken. Release vac truck & pump truck. RU perf guns, RIH perf Lwr San Andres from 4,706' - 4,738', 2 SPF. POOH, all shots fired. Pkr hand on location. RD run 1 perf gun, RU run 2nd perf gun, RIH perf Lwr San Andres from 4,632' - 4,662', 2 SPF. POOH, all shots fired. RD run 2 perf gun, RU run 3<sup>rd</sup> perf gun, RIH perf from 4,786' - 4,799', 2 SPF. PUH, perf Lwr San Andres from 4,598' - 4,614', 2 SPF. POOH, all shots fired. RD run 3 perf gun, RU run 4<sup>th</sup> perf gun, RIH perf Lwr San Andres from 4,562' - 4,590', 2 SPF. POOH, all shots fired. RD perf gun, RU dump bailer, RIH to 5,050', dump 3 sx (30') cement on top of CIBP set @ 5,050'. POOH. RD dump bailer, PU dump bailer, RIH to 5,020', dump additional 3 sx (30') cement on top of prior bailer run, POOH. RD WL, release WL. PU Pkr w/ SN, RIH. RU tbg tester, test WS as we RIH. RIH w/ 136 jts to 4,427'. Secure well & clean location, SDFN. CMIC- R. Robbins.



**J. Cooper Enterprises**  
**DAILY OPERATIONS REPORT**  
**Cooper 8 #2 SWD**

February 13, 2017    Monday    (Day 10)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. Wade Co. Acid crew on location. RU acid pump to well & flowback tank. TFH vac trucks on location. RIH w/ to 4,950', pressure test CIBP & cement to 1,000#- test OK. PUH to 4,821' spot 120 gals 15% NEFE from 4,821'-4,698'. PUH to 4,689', RU pump on 5-1/2" x 2-7/8". Reverse acid into tbq w/ 2 bbls FW. Set Pkr. Fill annulus to monitor communication. RU Acidizers on tbq & perform Stage 1 acid job on Lwr San Andres perfs 4,706' - 4,799' w/ total 2,500 gals 15% NEFE in 2 equal stages dropping 75 BS in each stage and pumping 1,000# GRS in 30 bbls BW between stages. Good salt action never balled out completely. Max psi = 3,500#, Avg pump rate = 4.5 bpm, Rate on water = 4.2 bpm, Rate on acid = 4.7 bpm, Avg treating pressure = 1,806 psi. Wait for 1 hr. RIH to 4,946' to knock balls off. POOH w/ Pkr standing back 2-7/8" WS. PU 5-1/2" RBP w/ ball catcher + 5-1/2" x 2-7/8" treating Pkr & RIH w/ 136 jts 2-7/8" WS to 4,437'. Secure well & clean location, SDFN. CMIC- R. Robbins.

February 14, 2017    Tuesday    (Day 11)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. Wade Co. Acid crew on location. RU acid pump to well & flowback tank. TFH vac trucks on location. RIH w/ RBP + ball catcher + treating Pkr to 4,684' (144 jts). Set RBP @ 4,684'. PUH to 4,656', set Pkr, test RBP to 1,000#- did not test. Reset Pkr & test again- tested OK. Set RBP; release Pkr & PUH to 4,656'. Spot 300 gals of acid from 4,656'-4,349'. Flush w/ 25.5 bbls FW. PUH w/ Pkr to 4,203'. Set Pkr. Load back side to 500#- did not hold pressure. Unset & reset Pkr. Test again. BOP leaking, tighten BOP & test again- did not test. TIW valve was leaking, fix leak, test again- tested OK. Start stage 2 acid job perfs 4,562'-4,662'. Establish rate w/ FW, pump 950 gals 15% NEFE, drop 50 balls & salt. Pump additional 1,250 gals 15% NEFE acid, drop 75 balls & salt. Pump additional 1,250 gals 15% NEFE acid, drop 75 balls & flush w/ 45 bbls FW. No ball action. Responded better to salt. Acidize Lwr San Andres perfs 4,562' - 4,662' w/ total 3,750 gals 15% NEFE in 3 equal stages dropping total of 200 BS and pumping 1,500# GRS in 30 bbls BW between stages. Max psi = 100, Avg rate = 4.8, Avg pressure = 50, 5 min ISIP = 0. WO acid. RD Wade Co. acid company. Release vac trucks. Release Wade Co. Release Pkr. RIH w/ 14 jts, work to latch onto RBP, had signs RBP released, POOH w/ RBP + ball catcher + treating Pkr standing back 2-7/8" WS. POOH, did not latch onto RBP, RIH to try & latch onto RBP. PUH to get retrieving head above perfs. Line up PT for tomorrow. Secure well & clean location, SDFN. CMIC- R. Robbins.

February 15, 2017    Wednesday    (Day 12)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. RIH w/ 2 stands of 2-7/8" WS, tag RBP, RU pump truck on tbq. Pump down tbq & attempt to latch onto RBP. Latch onto RBP, POOH standing back 2-7/8" WS. Capitan Wireline on location. POOH w/ RBP + ball catcher. RU WL truck. PU guns. RIH. Shoot perfs, POOH. Guns did not go off. Primer cord went off, did not fire guns. RIH w/ guns. Shoot perfs, POOH. Guns did not go off. Primer cord went off, did not fire guns. RIH w/ guns. Shoot perfs, POOH. Guns did not go off. Primer cord went off, did not fire guns. RIH w/ guns. (Different set of perfs) Shot Lwr San Andres perfs 4,459' - 4,484' w/ 2 SPF. POOH, all shots fired. RIH w/ guns. Shot Lwr San Andres perfs 4,516' - 4,523' & 4,434' - 4,441' w/ 2 SPF. POOH, all shots fired. Release pump truck. RIH w/ guns. Shot Lwr San Andres perfs 4,525' - 4,547' w/ 2 SPF. POOH, all shots fired. RIH w/ guns. Shot Lwr San Andres perfs 4,408' - 4,428' w/ 2 SPF. POOH, all shots fired. RIH w/ guns. Shot Lwr San Andres perfs 4,377' - 4,389' & 4,364' - 4,372' w/ 2 SPF. POOH, all shots fired. PU RBP + treating Pkr. RIH w/ 132 jts 2-7/8" WS to 4,300'. Secure well & clean location, SDFN. CMIC- R. Robbins.

February 16, 2017    Thursday    (Day 13)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. Wade Co. acid crew, (2) TFH vac trucks on location. RU acid crew. RIH w/ RBP & Pkr (140 jts) to 4,557', set RBP @ 4,557'. PUH set treating Pkr, load & test RBP to 1,000#- test OK. PUH to 4,543', spot 300 gals acid. Flush. PUH to 4,203', reverse acid into tbq w/ 2 bbls FW. Set Pkr @ 4,203', load annulus to 500 psi. Start acid job. Pump 700 gals + 30 bbls BW & 1,500# GRS. Pump additional 1,000 gals + 30 bbls BW & 2,000# GRS. Pump additional 1,000 gals + 30 bbls BW & 2,000# GRS. Pump additional 1,000 gals, flush w/ 45 bbls FW. Acidize Lwr San Andres perfs 4,364' - 4,543' w/ total 3,000 gals 15% NEFE in 3 equal stages pumping total of 5,500# GRS between stages (1,500#, 2,000# & 2,000#) in 30 bbls BW between stages. ISIP = 358#, 10 seconds went on vac. RIH w/ 8 jts & tag 64' high. RU pump & attempt to wash down to RBP, washing down 1' every 3 mins. POOH to LD Pkr & avoid getting Pkr stuck down hole while washing down. RIH w/ retrieving head to 4,557' to latch on to RBP. RU pump to wash down to RBP. Pumping @ 3 bpm. Release flow back tank. Latch onto RBP, unset RBP, POOH standing up. Release acid pump. POOH w/ RBP. Secure well & clean location, SDFN. CMIC- R. Robbins.

**J. Cooper Enterprises**  
**DAILY OPERATIONS REPORT**  
**Cooper 8 #2 SWD**

February 17, 2017    Friday    (Day 14)

APSI Rig 805 on location. Crew changed clothes, HSM & JSA. RIH w/ WS. Ordered forklift/ pipe trailer from TFH + laydown machine from Longhorn. POOH LD. TFH forklift on location. Move pipe racks & tbg. Move forklift & pipe truck to go PU 3-1/2" tbg. Continue to LD WS. Finish LD WS. Forklift/ pipe truck return w/ 3-1/2" tbg. Move catwalk, spot in PU machine, and move 3-1/2" tbg onto pipe racks. Clean 3-1/2" tbg threads w/ diesel & brushes, inspect for damage. Load WS onto TFH pipe trailer. Release forklift/ pipe trailer. Secure well & clean location, SDFWE. CMIC- R. Robbins.

February 20, 2017    Monday    (Day 15)

APSI Rig 805 on location. Team Oil Pkr & Longhorn LD on location. Crew changed clothes, HSM & JSA. Move 17 jts 3-1/2" tbg w/ damaged coating off rack & tally tbg. Tuboscope pipe tech on location. Pipe tech inspected tbg & found additional jt damaged on box end. RU pipe tech torque tools. MU BHA & RIH floor drifting as follows: POP + 5-1/2" x 2-7/8" Arrowset 1-X NP Pkr w/ IPC ID + 2-7/8" Type T-2 On/Off Tool w/ 2.31" SS "F" Profile + 2-7/8" x 3-1/2" SS XO + (18) 3-1/2", 9.3 ppf, J-55, 8rd, EUE IPC injection tbg. With 18 jts IH, we continue to find coating chipped on pin end. Pipe tech began inspecting pins on racks. Separate good tbg from damaged coating tbg & tally. Found 57 jts out of 147 jts w/ some coating damage. Continue to RIH w/ 3-1/2", 9.3 ppf, J-55, 8rd, EUE IPC injection tbg.

**Tubing Detail:**

132 jts 3-1/2", 9.3 #/ft., J-55, 8rd, EUE IPC injection tubing (4321.27')

**Injection Pkr Detail:**

3-1/2" box x 2-7/8" pin SS XO (0.50')

2-7/8" T-2 On-Off Tool (1.75')

2-7/8" X 2.31 SS "VX" profile nipple (1.10')

5-1/2" x 2-7/8" Arrowset 1-XS NP Injection packer (7.58')

2-7/8" pump-out plug set to 1800#

14' KB Correction (17.5' KB DF - 3.5' above GL)

Top of On-Off Tool            - 4335.77' KB

Top of Profile nipple        - 4337.52' KB

Top of Pkr                    - 4338.62' KB

Bottom of Pkr                - 4346.20' KB

ND BOP, set Pkr w/ 20 pts compression, NU WH & tbg master valve. Secure well & clean location, SDON. CMIC- S. Larsson.

February 21, 2017    Tuesday    (Day 16)

APSI Rig 805 on location. Team Oil Pkr & TFH VT on location. Crew changed clothes, HSM & JSA. MIRU VT to csg & load csg w/ FW. MIRU HO to csg & test annulus/ Pkr to 780#'s, test = good. RU chart recorder & pressure up to 650#'s, run MIT test- 30 min test = good. Get off Pkr w/ On/Off tool & PU, load HO w/ 28 gal of Pkr fluid w/ CI + 5 gal of biocide. RU VT to tbg & circulate 65 BFW w/ chemical mix. Latch on to Pkr & NU WH, pressure up on csg & re-test to 675#'s- hold test for 15 min, test = good. RD HO & VT. RDMO WSU. Secure well & clean location, SD. CMIC- S. Larsson. Travel from location to Oasis Pearl State.



**J. Cooper Enterprises, Inc**  
**Actual Completed Wellbore Diagram**

<b>WELL NAME:</b>	<b>Cooper 8 #2</b>			<b>FIELD:</b>	Monument - San Andres	
<b>LOCATION:</b>	1850' FNL & 630' FEL, Sec 8, T20S, R37E, Unit H			<b>COUNTY:</b>	Lea	
<b>ELEVATION:</b>	GL = 3,550'; KB = 3,567.5' (17.5' KB)			<b>SPUD DATE:</b>	2/4/2004	<b>STATE:</b> NM
<b>API#</b>	42-025-36529	<b>DEPTH</b>	12-1/4"	<b>PIA DATE:</b>	10/20/2013	<b>COMP DATE:</b> 4/26/2004
		<b>SIZE</b>	8-5/8"	<b>PREPARED BY:</b>	M Stewart	<b>RE-ENTRY DATE:</b> 2/2/2017
<b>CASING:</b>	1.135	<b>HOLE SIZE</b>	12-1/4"	<b>GRADE</b>	THREAD	<b>CEMENT / TOC</b>
<b>CASING:</b>	7.500	<b>SIZE</b>	7-7/8"	<b>THREAD</b>	ST&C	320 ex lead, 200 ex tail, Circ 140 ex to Surface
<b>CASING:</b>		<b>SIZE</b>	5-1/2"	<b>THREAD</b>	LT&C	1,830 ex lead, 250 ex tail, Circ 275 ex to Surface
<b>TUBING:</b>	4.336	<b>SIZE</b>	3-1/2"	<b>THREAD</b>	J-55 IPC	8rd EUE

**Formation Tops & Depths**

**Casino & Cement**

**ACTUAL**

**Hole Size**

8-5/8" Cement  
 Lead: 320 ex "C" Lite + 1/4  
 pps cellonite + 2% CaOZ  
 25 pps 1.5" cutlax  
 Tail: 250 ex "C" + 2% CaCl  
 14.8 pps 1.34 cutlax  
 TOC - Surface Circ 140 ex

8-5/8" CSG @ 1,135'

Ruelter Arny, 1,096  
 Top Salado Salt 1,174

**Tubing Detail:**  
 132 lbs 3-1/2", 9.3 #ft, J-55, 8rd, EUE IPC injection tubing (4321.27')

**Injection Pktr Detail:**  
 3-1/2" box x 2-7/8" pin SS SX (0.50')  
 2-7/8" X 2.31 SS "VX" profile nipple (1.10')  
 5-1/2" x 2-7/8" Arrowset 1-XS NP injection packer (7.58')  
 2-7/8" pump-out plug set to 1600#  
 14" KB Correction (17.5' KB DF - 3.5' above GL)  
 Top of On-Off Tool - 4335.77' KB  
 Top of Profile nipple - 4337.52' KB  
 Top of Pktr - 4338.62' KB  
 Bottom of Pktr - 4346.20' KB

Base Salado Salt 2,372  
 Top Yates 2,516  
 Seven Rivers 2,777

3-1/2", 9.3 ppi, J-55 IPC Tubing

Top Queen 3,193

Top Grayburg 3,484

Top San Andres 3,761

Permitted Injection Interval 4,300' to 4,900'

5-1/2" x 2-7/8" Arrowset 1-X NP Packer w/ 1-2 NP  
 On/Off Tool w/ SS 2.31 F Profile.

Lwr San Andres 4,365

2/21/17 - 2/21/17  
 Set CIBP @ 5,500'  
 Perf San Andres 4,766-38', 4,766-59' w/ 2 SPF  
 Acid w/ 2,500 gals 15% NEFE in 2 Slugs w/ 150 BS + 1,000# GRS  
 Perf San Andres 4,862-90', 4,868-4,914' & 4,832-42' w/ 2 SPF  
 Acid w/ 3,750 gals 15% NEFE in 3 Slugs w/ 200 BS + 3,000# GRS  
 Perf San Andres 4,364-72', 4,377-89', 4,408-28', 4,434-41', 4,459-84', 4,490-4,508', 4,516-23' & 4,529-43' w/ 2 SPF

Glorieta 5,129

9/2012 Sqz Paddock Perfs 5,138-69'  
 10/25/10 Perf Paddock 5,139-56' & 5,161-69' w/ 3 SPF  
 Acid w/ 1,610 gals spot + 600# GRS + 1,338 gal 15%

Paddock 5,221

10/17/13 P&A  
 Set CIBP @ 5,500'  
 Spot 55 ex 5,550-5,060'  
 Spot 25 ex 3,826-3,696'  
 Spot 30 ex 2,596-2,334'  
 Spot 35 ex 1,161' Tag @ 1,045'  
 Spot 25 ex 1,045' Tag @ 997'

9/2012 Perf Blinberry 5,607-5,720' w/ 2 SPF  
 Acid w/ 6,000 gals 15% NEFE + 200 BS

Blinberry 5,625  
 Tubb 6,404

9/26/10 Set CIBP @ 6,474 w/ 35' cmt. MIT to 550# 30 min

5/07/04 Set CIBP @ 6,633'

Drinkard 6,558

3/17/04 Perf Tubb 6,518-28' w/ 6 SPF  
 Acid w/ 1,000 gals spot + 3,500 gals 15% + SWF w/ 195,200 lbs 20/40  
 3/12/04 Perf Drinkard 6,694-6,714' w/ 2 SPF

Abo 6,962

3/1/2004 Set CIBP @ 6,952 w/ 30' cmt  
 3/10/04 Perf Abo 7,008-92' & 6,992-7,002' w/ 3 SPF  
 Acid w/ 2,500 gals

7" CSG @ 7,500'

5-1/2" Casing  
 Lead: 1,830 ex H 0.5%  
 Hal-344+ 0.3% CFR-3 + 5  
 pps Glisonite + 3 pps Salt  
 13.0 pps 1.69 cutlax  
 Tail: 250 ex PP + 2%  
 15 pps 1.38  
 TOC - Surface Circ 275 ex

TD @ 7,500' (griller)  
 TD @ 7,485' (logger)