Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.
30-025-05226

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
B-9774

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.)

7. Lease Name or Unit Agreement Name
Denton SWD

1. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD

8. Well Number 5

2. Name of Operator
Fasken Oil and Ranch, Ltd.

9. OGRID Number
151416

3. Address of Operator
6101 Holiday Hill Road, Midland, TX 79707

10. Pool name or Wildcat
SWD; Penn

4. Well Location
Unit Letter N : 660 feet from the South line and 1980 feet from the West line
Section 2 Township 15S Range 37E NMPM County Lea

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3798' GR

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

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| PERFORM REMEDIAL WORK | ☒ | PLUG AND ABANDON | ☐ | REMEDIAL WORK | ☐ | ALTERING CASING | ☐ |
| TEMPORARILY ABANDON | ☐ | CHANGE PLANS | ☐ | COMMENCE DRILLING OPNS. | ☐ | P AND A | ☐ |
| PULL OR ALTER CASING | ☐ | MULTIPLE COMPL | ☐ | CASING/CEMENT JOB | ☐ | | |
| DOWNHOLE COMMINGLE | ☐ | | | | | | |
| CLOSED-LOOP SYSTEM | ☐ | | | | | | |
| OTHER: | ☐ | | | OTHER: | ☐ | | |

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.

Fasken Oil and Ranch, Ltd. encountered a casing leak on the above well. Attached is our procedures to correct the casing.

Spud Date: | Rig Release Date:

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

SIGNATURE [signature] TITLE Regulatory Analyst DATE 5/20/21

Type or print name Addison Guelker E-mail address: addisong@forl.com PHONE: 432-687-1777

**For State Use Only**

APPROVED BY: John Garcia TITLE Petroleum Engineer DATE 8/4/2021

Conditions of Approval (if any):

**Recommended Procedure**
**Denton No. 5 SWD**
**660' FSL & 1980' FWL**
**Section 2, T15S, R37E**
**Lea County, New Mexico**
**AFE No. 4170**

| | |
|---|---|
| **OBJECTIVE:** | Repair Casing |
| **WELL DATA:** | |
| 13-3/8" 48# casing: | Set at 294.37' Cmt with 350 sx, TOC surface |
| 9-5/8" 36#, 40# casing: | Set at 4595.64'. Cmt with 3000 sx, TOC surface |
| 7" 23#, 26#, 29#, 32# casing: | Set at 12,729.28'. Cmt with 950 sx, TOC 9640' per temp survey. Perf 2 squeeze holes at 9200'. Squeezed 4 times under retainer to 4500 psi max (300 sx + 150 sx + 50 sx + 50 sx). Tested casing to 1000 psi, ok. |
| TD: | 12,730' |
| PBTD: | 10,200' (CICR) |
| CIBP's: | 12,502' with 10' cmt dump bailed<br>12,355' with 10' cmt dump bailed |
| Perforations: | Devonian (inactive)- 11,675'-12,572' gross interval<br>Wolfcamp (inactive)- 9057'-9092' gross interval. Squeezed with 75 sx "C" to 3500 psi. Test casing from surface to 11,507' to 1000 psi, ok Ran CBL from 10,500' to 8500' with bad cmt from 9800'-10,500'. Squeeze under retainer at 10,200' (holes at 10,225') with 50 sx "H"<br>Penn (active disposal)- 9660'-10,148' gross interval |
| Injection Equipment: | Baker Mod 47B-2 7" Lockset (29#) nickel-plated injection pkr, nickel-plated on/off tool, nickel-plated 2-7/8" crossover, 2-7/8" 8rd x 4-1/2" 8rd LT&C crossover (5" OD), 233 jts 4-1/2" 11.60# K-55 LT&C injection tubing. Injection pkr set at 9588.82' KB |

**Pressure was found on 7" x 9-5/8" annulus. SICP 1800 psi. Attempted to bleed down and annulus had sustained flow at 22 bbl/hr. Chlorides 195,000 ppm on sampled fluid**

1. Test and tag mast anchors.
2. Contact NMOCD with regard to rigging up on well to repair casing.
3. Set 250 bbl gas buster and 500 bbl frac tank. Set rig mats, two sets pipe racks, and laydown machine.
4. RUPU. Bleed pressure off tubing. If tubing will not bleed down, kill tubing with 10 ppg brine water.
5. NDWH and NU 5k hydraulic BOP with 4-1/2" pipe rams and blind rams. Release packer and let well equalize.
6. RU casing crew. POW laying down 4-1/2" injection tubing while installing pin end thread protectors. Send 4-1/2" in for inspection. Lay down packer and send in for redress/repair.
7. Take delivery of 9500' 2-7/8" EUE 8rd N-80 yellow band work string. Clean threads and tally tubing. Change out pipe rams in BOP to 2-7/8".
8. RIW with 7" RBP, retrieving head, 4' x 2-7/8" tubing sub, 7" HD packer, SN, and work string while testing to 6000 psi above the slips.
9. Set RBP at 9000'. POW 1 jt and set packer. Pressure test RBP to 2000 psi for 15 minutes on chart recorder. Report results to Midland office.
10. Release packer and establish conventional circulation. Displace well with fresh water mixed with biocide at max 2 bpm. Test 7" casing overall to 2000 psi for 15 minutes on chart recorder. After successful test, proceed to next step.

11. RIW and spot 2 sx sand on top of RBP. POW standing back work string, and LD tools.
12. RUWL and packoff. RIW with CCL/CBL. Log CBL from 9000' up to TOC and verify TOC. POW and LD logging tools.
13. RIW with temperature survey tools. Run baseline temperature log from 9000' up to surface with casing and annulus shut in. RIW back to 9000'. Open 7" x 9-5/8" annulus and begin flowing annulus to frac tank. Run temperature survey again, looking for temperature deviation in 7" casing. POW and LD tools. Report results to Midland office. A decision on cement squeeze procedure and recipe will be made at this time. Haul fluid in frac tank to public disposal.
14. Install 10k 5-valve choke manifold on 7" x 9-5/8" annulus and plumb manifold to frac tank.
15. RU 3k lubricator and grease package. RIW with CCL and 3-1/8" slick gun. Correlate to CCL/CBL log and perforate squeeze holes in casing at depth based on TOC and temperature survey results. Pressure 7" casing to 1500 psi prior to perforating. Note any change in 7" casing as well as 7" x 9-5/8" annulus. Anticipate 1800 psi at surface. POW, bump up in lubricator, and close BOP blind rams to SWI. ND lubricator from BOP and LD tool string, confirm all shots fired. Attempt to obtain injection rate into perforations via 7" casing. If no injection rate can be established, attempt to circulate with returns out 7" x 9-5/8" annulus. Do not exceed 2000 psi on 7" casing while performing injection test. Report results to Midland office
16. RIW with CCL and wireline-set 7" CICR. Correlate to CCL/CBL and set CICR 100' above squeeze holes. POW, bump up in lubricator, close BOP blind rams, and RDWL. Bleed pressure off 7" casing. Report results to Midland office.
17. RIW with CICR stinger, 2-7/8" SN, and 2-7/8" work string to top of CICR. RU cementing company. Test lines to 5000 psi. Pump tubing capacity + 5 bbls. Sting into CICR and test tubing to 5000 psi. Load tubing/casing annulus and test to 300 psi. Sting out of retainer and sting back in.
18. Establish circulation via tubing with returns out 7" x 9-5/8" annulus. Adjust choke on annulus to attempt to achieve same return rate as pump rate. Note pump rate and pressure, return rate and pressure. Report results to Midland office.
19. Squeeze 7" x 9-5/8" annulus as per cementing recommendation. At minimum, recommendation should have cement circulated above 9-5/8" casing shoe at 4595'. Be sure to discuss high chloride level from 7" x 9-5/8" sample with cementing company and Midland office before proceeding (7" x 9-5/8" 36# annulus capacity 0.0297 bbl/ft). After pumping displacement, sting out of CICR and reverse circulate remainder of cement out of tubing to 250 bbl gas buster. POW standing back tubing. SI 7" x 9-5/8" annulus immediately after cementing, install tapped bull plug and gauge to monitor pressure.
20. Set reverse unit. RIW with 6-1/8" bit (verify with Midland office before running- well has some 32# casing, checking to find casing detail), bit sub, 7" casing scraper, SN, and 2-7/8" work string. Tag TOC, RU power swivel, and establish reverse circulation with fresh water mixed with biocide. Drill out CICR and cement and displace well with fresh water mixed with biocide. Test 7" casing to 300 psi for 15 minutes on chart recorder and report results to Midland office.
21. RIW and wash sand off RBP. POW standing back tubing and LD BHA.
22. RIW with RBP retrieving head, 2-7/8" SN, and 2-7/8" work string. Retrieve RBP and note any change in well. POW laying down work string and LD RBP. Backhaul tubing for inspection and release reverse unit.
23. Take delivery of 9700' 4-1/2" 11.6# J-55 IPC injection tubing. Clean threads, drift, and tally tubing. Change pipe rams in BOP to 4-1/2".
24. RU casing crew. RIW with 3-1/2" EUE 8rd stainless steel wireline entry guide, 3-1/2" x 6' fiberglass tubing sub, 7" AS-1X injection packer (all wetted parts nickel plated), 4-1/2" nickel plated TOSSD with 2.81" "F" profile nipple, and 4-1/2" IPC injection tubing to +/- 9575'. Set packer in +/- 10,000# compression. Load 4-1/2" x 7" annulus with fresh water and test to 300 psi. After successful test, disengage TOSSD and displace annulus via 7" casing with 200 bbls fresh water containing biocide and corrosion inhibitor.
25. ND BOP, engage TOSSD, and NUWH and injection tree.
26. Pump 200 bbls produced water down tubing, noting rate and pressure. Report results to Midland office.
27. Turn well over to production department and place well on injection. Report daily rates and pressures and monitor 7" x 9-5/8" annulus for any pressure. Schedule official H-5 test with NMOCD.

May 17, 2021

Fasken Oil and Ranch, Ltd.
Denton No. 5 SWD
Repair Casing
A.F.E. No. 4170
660' FSL & 1980' FWL
Section 2, T15S, R37E
Lea County, New Mexico

Engineering and Operations recommend approval to repair caing in the subject well at a gross cost of $380,600 (FORL net $143,263). 1800 psi SICP was found on the 7" x 9-5/8" annulus. When trying to bleed the annulus pressure down, there was a sustained 22 bbl/hr flow. It is proposed to run a temperature survey to identify the leak interval, perforate, and cement squeeze. The well was converted to disposal in 1997 and is capable of disposing +/- 5000 BWPD. A 20% contingency has been included due to the high pressure and flow rate associated with the leaking interval and the operational issues that could arise. The well has an upcoming NMOCD H-5 integrity test due in August 2021 and must be repaired to pass the H-5.

| | |
|---|---|
| WI: | 37.641238% |
| NRI: | 37.641238% |

**APPROVED:**

By: HSE and Regulatory Supervisor

By: Engineering (CLH)

By: Engineering Manager

By: Marketing Manager

By: Manager-Land Department

By: Exploration Manager

By: Assistant General Manager / Director of Oil and Gas Development

By: Director of Oil and Gas Operations

By: General Manager / Finance and Personnel / Controller

CLH
M:\Common\Wellfile\D\Denton SWD 5\Engineering\Repair Casing\Denton5SWD.RepairCasing.cov.doc

# FASKEN OIL AND RANCH, LTD.

COST ESTIMATE

OPERATOR: Fasken Oil and Ranch, Ltd.
LEASE NAME: Denton SWD
FIELD: SWD
660' FSL & 1980' FWL
Section 2, T15S, R37E

DATE: May 17, 2021
WELL NO.: 5
COUNTY: Lea

AFE NO: 4170
TYPE OF WOR Repair Casing
STATE: NM

## TANGIBLES

| TUBULAR GOODS | SIZE [IN] | FOOTAGE [FT] | PRICE [$/FT] | SUB | TOTAL | DRY HOLE |
|---|---|---|---|---|---|---|
| Conductor Pipe | 13.375 | 0 | $75.00 | $0 | | $0 |
| Surface Casing | 9.625 | 0 | $54.00 | $0 | | $0 |
| Inter. Casing | 5.500 | 0 | $18.40 | $0 | | $0 |
| Injection Tubing (New) | 4.500 | 9,500 | $17.50 | $166,300 | | $0 |
| Injection Tubing (Credit) | 4.500 | 9,500 | ($1.75) | ($16,600) | $149,700 | $0 |
| **WELLHEAD EQUIPMENT** | | | | | | |
| Starting Head | | | | $0 | | $0 |
| Inter. Head | | | | $0 | | $0 |
| Tubing Head | | | | $0 | | $0 |
| Christmas Tree | | | | $0 | $0 | $0 |
| **SUB SURFACE PRODUCTION EQUIPMENT** | | | | | | |
| Tubing Anchor and/or Packer | | | | $7,500 | | $0 |
| Sucker Rods, Pump, ESP Cable | | | | $0 | $7,500 | $0 |
| **SURFACE PRODUCTION EQUIPMENT** | | | | | | |
| Pumping Unit c/w Prime Mover | | | | $0 | | $0 |
| Production Unit | | | | $0 | | $0 |
| Tanks, Treaters, Separators, Circ. Pump | | | | $0 | | $0 |
| Labor | | | | $1,300 | $1,300 | $0 |
| | | **TOTAL TANGIBLES** | | $158,500 | $158,500 | $0 |

## INTANGIBLES

| CONTRACTOR DRILLING COST | FOOTAGE | RATE | | | |
|---|---|---|---|---|---|
| Drilling Cost | 0 | $0.00 | $0 | | $0 |
| Day Work | 0 | $17,500 | $0 | | $0 |
| Pulling Unit for Completion | 196 | $320 | $62,700 | | $0 |
| Reverse Drilling Equipment | | | $15,400 | $78,100 | $0 |
| **CEMENTING SERVICES & EQUIPMENT** | | | | | |
| Surface | | | $0 | | $0 |
| Intermediates | | | $0 | | $0 |
| Oil String | | | $0 | | $0 |
| Other (Remedial Squeeze) | | | $20,000 | $20,000 | $0 |
| **FORMATION TREATMENT** | | | | | |
| Acidizing Services & Material | | | $0 | | $0 |
| Fracturing Services & Material | | | $0 | | $0 |
| Tank Rental & Hauling | | | $3,000 | $3,000 | $0 |
| **SPECIAL SERVICES** | | | | | |
| Perforating & Wireline Services | | | $10,000 | | $0 |
| | DAYS | RATE | | | |
| Mud Logging | 0 | $0 | $0 | | $0 |
| Open Hole Logging | | | $0 | | $0 |
| Cores, DST's, etc. | | | $0 | | $0 |
| Packer & BP Rental | | | $10,000 | $20,000 | $0 |
| **DRILLING FLUIDS** | | | | | |
| Mud & Chemicals | | | $500 | | $0 |
| Fresh & Brine Water | | | $5,000 | | $0 |
| Oil for Drilling Mud | | | $0 | $5,500 | $0 |
| **MATERIALS & SERVICES OTHER** | | | | | |
| Bits & Reamers | | | $5,000 | | $0 |
| Fuel | | | $0 | | $0 |
| Hauling - Trucking, Transport, & Pmp Truck | | | $20,000 | | $0 |
| Tubular Inspection & Testing | | | $6,000 | | $0 |
| Casing Expense (Run Csg., PU/LD Machine) | | | $6,000 | | $0 |
| Valves, Piping, & Connections | | | $0 | | $0 |
| Pit Liners | | | $0 | | $0 |
| Rental Equipment | | | $10,600 | | $0 |
| Welding & Roustabout Labor | | | $500 | | $0 |
| Cattleguard & Fencing | | | $0 | | $0 |
| Misc. Services & Supplies | | | $500 | $48,600 | $0 |
| **LOCATION ACCESS & CLEAN UP** | | | | | |
| Surveying | | | $0 | | $0 |
| ROAD, LOCATION, PITS, & CLEAN UP | | | $0 | $0 | $0 |
| **SUPERVISION & LEGAL, ETC.** | | | | | |
| Geological, Engr. & Supervisory Expense | | | $11,900 | $11,900 | $0 |
| Well Contrtol Insurance | | | $0 | | $0 |
| **CONTINGENCIES** | 20% | | $35,000 | $35,000 | $0 |
| | | **TOTAL INTANGIBLES** | $222,100 | $222,100 | $0 |
| | | **TOTAL COST** | $380,600 | $380,600 | $0 |

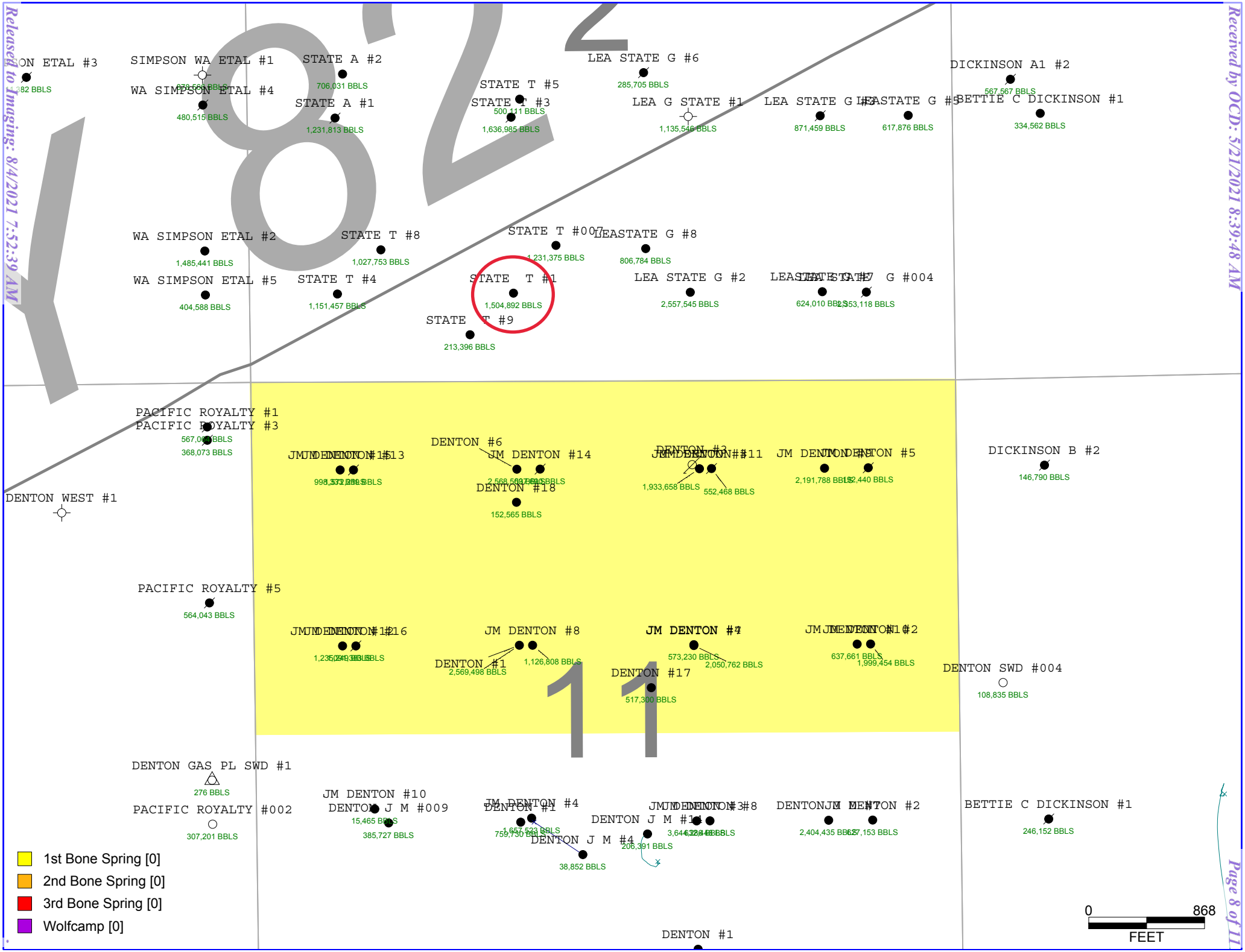
**Recommended Procedure**
**Denton No. 5 SWD**
**660' FSL & 1980' FWL**
**Section 2, T15S, R37E**
**Lea County, New Mexico**
**AFE No. 4170**

| | |
|---|---|
| **OBJECTIVE:** | Repair Casing |
| **WELL DATA:** | |
| 13-3/8" 48# casing: | Set at 294.37' Cmt with 350 sx, TOC surface |
| 9-5/8" 36#, 40# casing: | Set at 4595.64'. Cmt with 3000 sx, TOC surface |
| 7" 23#, 26#, 29#, 32# casing: | Set at 12,729.28'. Cmt with 950 sx, TOC 9640' per temp survey. Perf 2 squeeze holes at 9200'. Squeezed 4 times under retainer to 4500 psi max (300 sx + 150 sx + 50 sx + 50 sx). Tested casing to 1000 psi, ok. |
| TD: | 12,730' |
| PBTD: | 10,200' (CICR) |
| CIBP's: | 12,502' with 10' cmt dump bailed<br>12,355' with 10' cmt dump bailed |
| Perforations: | Devonian (inactive)- 11,675'-12,572' gross interval<br>Wolfcamp (inactive)- 9057'-9092' gross interval. Squeezed with 75 sx "C" to 3500 psi. Test casing from surface to 11,507' to 1000 psi, ok Ran CBL from 10,500' to 8500' with bad cmt from 9800'-10,500'. Squeeze under retainer at 10,200' (holes at 10,225') with 50 sx "H"<br>Penn (active disposal)- 9660'-10,148' gross interval |
| Injection Equipment: | Baker Mod 47B-2 7" Lockset (29#) nickel-plated injection pkr, nickel-plated on/off tool, nickel-plated 2-7/8" crossover, 2-7/8" 8rd x 4-1/2" 8rd LT&C crossover (5" OD), 233 jts 4-1/2" 11.60# K-55 LT&C injection tubing. Injection pkr set at 9588.82' KB |

**Pressure was found on 7" x 9-5/8" annulus. SICP 1800 psi. Attempted to bleed down and annulus had sustained flow at 22 bbl/hr. Chlorides 195,000 ppm on sampled fluid**

1. Test and tag mast anchors.
2. Contact NMOCD with regard to rigging up on well to repair casing.
3. Set 250 bbl gas buster and 500 bbl frac tank. Set rig mats, two sets pipe racks, and laydown machine.
4. RUPU. Bleed pressure off tubing. If tubing will not bleed down, kill tubing with 10 ppg brine water.
5. NDWH and NU 5k hydraulic BOP with 4-1/2" pipe rams and blind rams. Release packer and let well equalize.
6. RU casing crew. POW laying down 4-1/2" injection tubing while installing pin end thread protectors. Send 4-1/2" in for inspection. Lay down packer and send in for redress/repair.
7. Take delivery of 9500' 2-7/8" EUE 8rd N-80 yellow band work string. Clean threads and tally tubing. Change out pipe rams in BOP to 2-7/8".
8. RIW with 7" RBP, retrieving head, 4' x 2-7/8" tubing sub, 7" HD packer, SN, and work string while testing to 6000 psi above the slips.
9. Set RBP at 9000'. POW 1 jt and set packer. Pressure test RBP to 2000 psi for 15 minutes on chart recorder. Report results to Midland office.
10. Release packer and establish conventional circulation. Displace well with fresh water mixed with biocide at max 2 bpm. Test 7" casing overall to 2000 psi for 15 minutes on chart recorder. After successful test, proceed to next step.

11. RIW and spot 2 sx sand on top of RBP. POW standing back work string, and LD tools.
12. RUWL and packoff. RIW with CCL/CBL. Log CBL from 9000' up to TOC and verify TOC. POW and LD logging tools.
13. RIW with temperature survey tools. Run baseline temperature log from 9000' up to surface with casing and annulus shut in. RIW back to 9000'. Open 7" x 9-5/8" annulus and begin flowing annulus to frac tank. Run temperature survey again, looking for temperature deviation in 7" casing. POW and LD tools. Report results to Midland office. A decision on cement squeeze procedure and recipe will be made at this time. Haul fluid in frac tank to public disposal.
14. Install 10k 5-valve choke manifold on 7" x 9-5/8" annulus and plumb manifold to frac tank.
15. RU 3k lubricator and grease package. RIW with CCL and 3-1/8" slick gun. Correlate to CCL/CBL log and perforate squeeze holes in casing at depth based on TOC and temperature survey results. Pressure 7" casing to 1500 psi prior to perforating. Note any change in 7" casing as well as 7" x 9-5/8" annulus. Anticipate 1800 psi at surface. POW, bump up in lubricator, and close BOP blind rams to SWI. ND lubricator from BOP and LD tool string, confirm all shots fired. Attempt to obtain injection rate into perforations via 7" casing. If no injection rate can be established, attempt to circulate with returns out 7" x 9-5/8" annulus. Do not exceed 2000 psi on 7" casing while performing injection test. Report results to Midland office
16. RIW with CCL and wireline-set 7" CICR. Correlate to CCL/CBL and set CICR 100' above squeeze holes. POW, bump up in lubricator, close BOP blind rams, and RDWL. Bleed pressure off 7" casing. Report results to Midland office.
17. RIW with CICR stinger, 2-7/8" SN, and 2-7/8" work string to top of CICR. RU cementing company. Test lines to 5000 psi. Pump tubing capacity + 5 bbls. Sting into CICR and test tubing to 5000 psi. Load tubing/casing annulus and test to 300 psi. Sting out of retainer and sting back in.
18. Establish circulation via tubing with returns out 7" x 9-5/8" annulus. Adjust choke on annulus to attempt to achieve same return rate as pump rate. Note pump rate and pressure, return rate and pressure. Report results to Midland office.
19. Squeeze 7" x 9-5/8" annulus as per cementing recommendation. At minimum, recommendation should have cement circulated above 9-5/8" casing shoe at 4595'. Be sure to discuss high chloride level from 7" x 9-5/8" sample with cementing company and Midland office before proceeding (7" x 9-5/8" 36# annulus capacity 0.0297 bbl/ft). After pumping displacement, sting out of CICR and reverse circulate remainder of cement out of tubing to 250 bbl gas buster. POW standing back tubing. SI 7" x 9-5/8" annulus immediately after cementing, install tapped bull plug and gauge to monitor pressure.
20. Set reverse unit. RIW with 6-1/8" bit (verify with Midland office before running- well has some 32# casing, checking to find casing detail), bit sub, 7" casing scraper, SN, and 2-7/8" work string. Tag TOC, RU power swivel, and establish reverse circulation with fresh water mixed with biocide. Drill out CICR and cement and displace well with fresh water mixed with biocide. Test 7" casing to 300 psi for 15 minutes on chart recorder and report results to Midland office.
21. RIW and wash sand off RBP. POW standing back tubing and LD BHA.
22. RIW with RBP retrieving head, 2-7/8" SN, and 2-7/8" work string. Retrieve RBP and note any change in well. POW laying down work string and LD RBP. Backhaul tubing for inspection and release reverse unit.
23. Take delivery of 9700' 4-1/2" 11.6# J-55 IPC injection tubing. Clean threads, drift, and tally tubing. Change pipe rams in BOP to 4-1/2".
24. RU casing crew. RIW with 3-1/2" EUE 8rd stainless steel wireline entry guide, 3-1/2" x 6' fiberglass tubing sub, 7" AS-1X injection packer (all wetted parts nickel plated), 4-1/2" nickel plated TOSSD with 2.81" "F" profile nipple, and 4-1/2" IPC injection tubing to +/- 9575'. Set packer in +/- 10,000# compression. Load 4-1/2" x 7" annulus with fresh water and test to 300 psi. After successful test, disengage TOSSD and displace annulus via 7" casing with 200 bbls fresh water containing biocide and corrosion inhibitor.
25. ND BOP, engage TOSSD, and NUWH and injection tree.
26. Pump 200 bbls produced water down tubing, noting rate and pressure. Report results to Midland office.
27. Turn well over to production department and place well on injection. Report daily rates and pressures and monitor 7" x 9-5/8" annulus for any pressure. Schedule official H-5 test with NMOCD.



as of 5/18/21

GL: 3798'

KB: 3814'

**Well:** **Denton SWD No. 5 (formerly State T No. 1)**

**Operator:** **Fasken Oil and Ranch, Ltd.**

**Location:** 660' FSL and 1980' FWL
Sec 2, T15S, R37E
Lea County, NM

**Spud:** 1/13/1951

**API #:** 30-025-05226

**TD:** 12,730'

**PBTD:** cmt retainer @ 10,200'

**Casing:** **13-3/8"48# set at 294.37'**
cmt w/ 350 sx, cmt circ to surface
TOC surf
**9-5/8" 36# & 40# set at 4595.64'**
cmt w/ 3000 sx , cmt circ to surface
TOC surf
**7" 23#, 26#, 29#, 32# set at 12,729.28'**
cmt w/ 950 sx, TOC 9640' per temp survey
perf 7" 2 holes at 9200', 4 squeezes (300 sx + 150 sx + 50 sx + 50 sx)

**Perforations:** **Devonian**
12,522'-72'
12,422'-72'
12,060'-80'
12,017'-30'
11,963'-84'
11,902'-28'
11,675'-11,846'
**Wolfcamp**
9057'-92' (1 jspf)
**Penn**
10,042'-10,148' (gross, 2 jspf, 122 holes)
9844'-10,028' (gross, 2 jspf, 172 holes)
9660'-9822' (gross, 2 jspf, 180 holes)

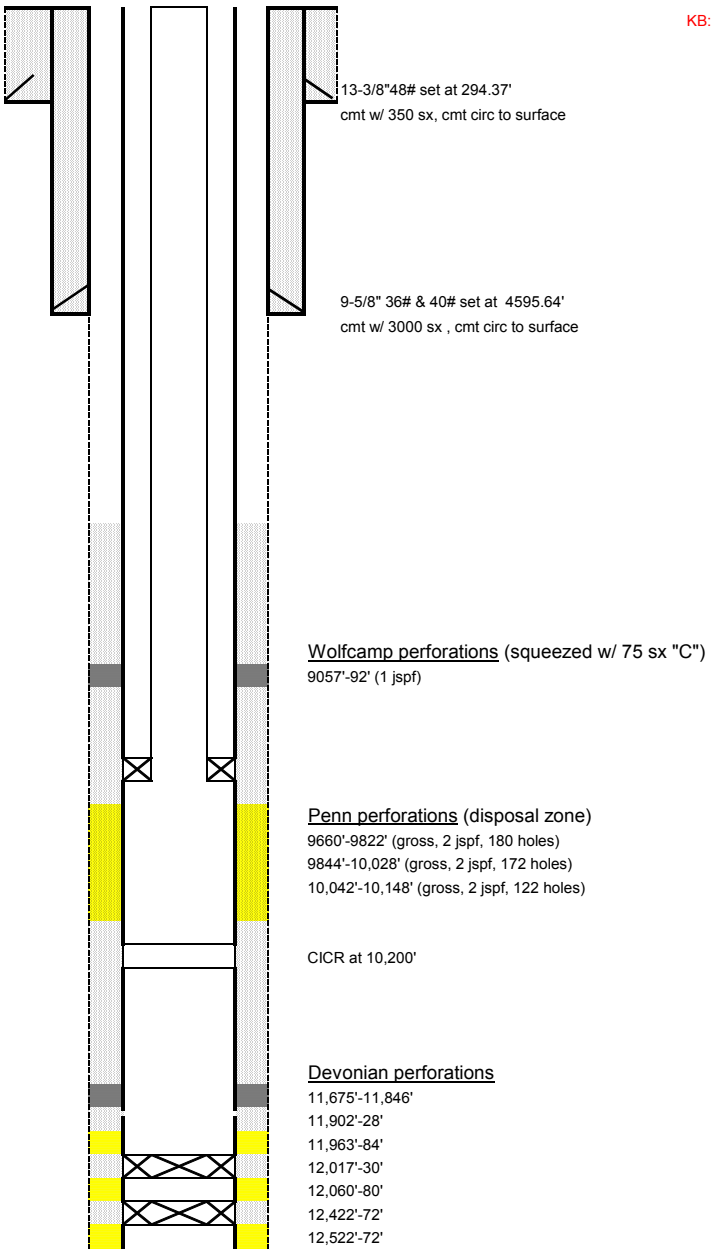
**CIBPs:** 12,502' (dump bail 10' cmt on top)
12,355' (dump bail 10' cmt on top)

**Hole Sizes:**

| | |
|---|---|
| 17-1/2" | Surf-300' |
| 12-1/4" | 300'-4610' |
| 8-3/4" | 4610'-12,730' |

**Tubing Detail (bottom to top):**
Baker Mod 47B-2 Lokset 7" 29# pkr (nickel-plated)
On/off tool (nickel-plated)
2-7/8" crossover (nickel-plated)
2-7/8" 8rd x 4-1/2" 8rd LT&C OD 5" crossover
233 jts 4-1/2" 11.60# K-55 LT&C
**Pkr, on/off tool, and XO nickel-plated ID + OD, internally plastic coated w/ TK15**
**Packer set at 9588.82' KB**

**Activity:**
9/16/1971- drill out Mod D pkr at 11,800' and perforate Upper Devonian (11,675'-11,846')
1/22/1972- squeeze perfs 11,675-'846' w/ 270 sx cmt to 6200 psi, drill out and test to 1500 psi, OK
Perf 11,891'-92' w/ 4 holes for block squeeze of channel behind 7" casing




cwb
5/18/2021
Copy of DentonSWD5.WBD.xls

as of 5/20/21

GL: 3798'

KB: 3814'

**Well:** **Denton SWD No. 5 (formerly State T No. 1)**
**Operator:** **Fasken Oil and Ranch, Ltd.**
**Location:** 660' FSL and 1980' FWL
Sec 2, T15S, R37E
Lea County, NM
**Spud:** 1/13/1951
**API #:** 30-025-05226
**TD:** 12,730'
**PBTD:** cmt retainer @ 10,200'
**Casing:** **13-3/8"48# set at 294.37'**
cmt w/ 350 sx, cmt circ to surface
TOC surf
**9-5/8" 36# & 40# set at 4595.64'**
cmt w/ 3000 sx , cmt circ to surface
TOC surf
**7" 23#, 26#, 29#, 32# set at 12,729.28'**
cmt w/ 950 sx, TOC 9640' per temp survey
perf 7" 2 holes at 9200', 4 squeezes (300 sx + 150 sx + 50 sx + 50 sx)

**Perforations:** **Devonian**
12,522'-72'
12,422'-72'
12,060'-80'
12,017'-30'
11,963'-84'
11,902'-28'
11,675'-11,846'
**Wolfcamp**
9057'-92' (1 jspf)
**Penn**
10,042'-10,148' (gross, 2 jspf, 122 holes)
9844'-10,028' (gross, 2 jspf, 172 holes)
9660'-9822' (gross, 2 jspf, 180 holes)

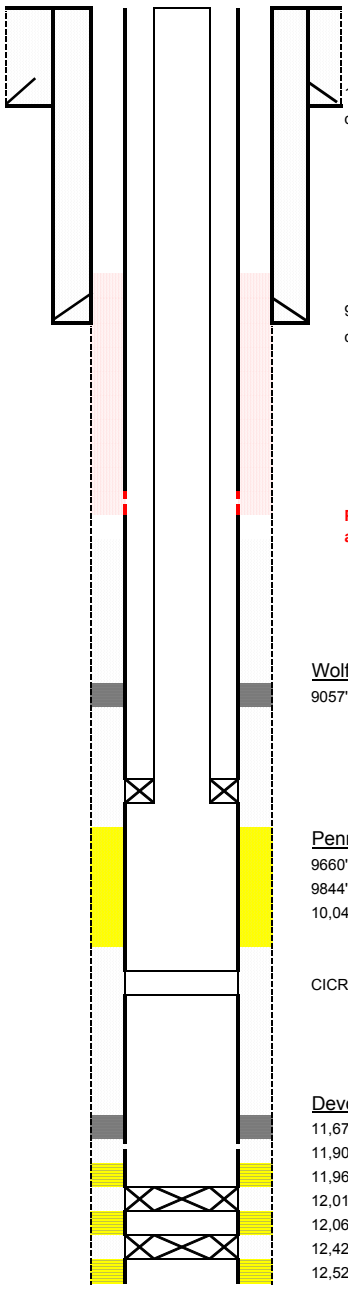
**CIBPs:** 12,502' (dump bail 10' cmt on top)
12,355' (dump bail 10' cmt on top)

**Hole Sizes:**

| | |
|---|---|
| 17-1/2" | Surf-300' |
| 12-1/4" | 300'-4610' |
| 8-3/4" | 4610'-12,730' |

**Tubing Detail (bottom to top):**
Baker Mod 47B-2 Lokset 7" 29# pkr (nickel-plated)
On/off tool (nickel-plated)
2-7/8" crossover (nickel-plated)
2-7/8" 8rd x 4-1/2" 8rd LT&C OD 5" crossover
233 jts 4-1/2" 11.60# K-55 LT&C
**Pkr, on/off tool, and XO nickel-plated ID + OD, internally plastic coated w/ TK15****
**Packer set at 9588.82' KB**

**Activity:**
9/16/1971- drill out Mod D pkr at 11,800' and perforate Upper Devonian (11,675'-11,846')
1/22/1972- squeeze perfs 11,675-'846' w/ 270 sx cmt to 6200 psi, drill out and test to 1500 psi, OK
Perf 11,891'-92' w/ 4 holes for block squeeze of channel behind 7" casing



13-3/8"48# set at 294.37'
cmt w/ 350 sx, cmt circ to surface

9-5/8" 36# & 40# set at 4595.64'
cmt w/ 3000 sx , cmt circ to surface

**Propose to perforate above TOC (depth based on CBL and temp survey) and cement squeeze**

Wolfcamp perforations (squeezed w/ 75 sx "C")
9057'-92' (1 jspf)

Penn perforations (disposal zone)
9660'-9822' (gross, 2 jspf, 180 holes)
9844'-10,028' (gross, 2 jspf, 172 holes)
10,042'-10,148' (gross, 2 jspf, 122 holes)

CICR at 10,200'

Devonian perforations
11,675'-11,846'
11,902'-28'
11,963'-84'
12,017'-30'
12,060'-80'
12,422'-72'
12,522'-72'

cwb
5/20/2021
DentonSWD5.WBD.xls

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505



## CONDITIONS

| | |
|---|---|
| Operator:<br>FASKEN OIL & RANCH LTD<br>6101 Holiday Hill<br>Midland, TX 79707 | OGRID:<br>151416 |
| | Action Number:<br>29013 |
| | Action Type:<br>[C-103] NOI Workover (C-103G) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| jagarcia | Preform MIT prior to commencing Injection | 8/4/2021 |
| jagarcia | Notify OCD District 24 hours prior to MIT | 8/4/2021 |