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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 OGD  
NOV 04 2013

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

SUDDRY 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.)		WELL API NO. 30-025-12232
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Chevron USA Inc.		6. State Oil & Gas Lease No.
3. Address of Operator 15 Smith Road Midland, TX 79705		7. Lease Name or Unit Agreement Name West Dollarhide Drinkard Unit
4. Well Location Unit Letter L 1980 feet from the South line and 660 feet from the West line Section 29 Township 24 S Range 38E NMPM County Lea		8. Well Number 27
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 4323
		10. Pool name or Wildcat Dollarhide Tubb Drinkard

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: ☒ Intent to run liner

SUBSEQUENT REPORT OF:  
REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐  
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.

Chevron USA Inc. intends to run liner in the subject well.  
Please find attached the intended procedure and wellbore diagram.

During this procedure we plan to use the closed loop system with a steel tank and haul to the required disposal per the OCD rule 19.15.17

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 Britany Cortez TITLE Regulatory Specialist DATE 10/31/13

Type or print name Britany Cortez E-mail address [bcortez@chevron.com](mailto:bcortez@chevron.com) PHONE: 432-687-7415

For State Use Only

APPROVED BY [Signature] TITLE DIST. MGR DATE 11-5-2013  
Conditions of Approval (if any):

NOV 05 2013

**Workover Procedure  
West Dollarhide Drinkard Unit  
Dollarhide Field**

**WBS # UWDOL – R3584**  
**WDDU 27**

**API No: 30-025-12232**  
**CHEVNO: FB3174**

**08/27/13**

**Description of Work:** Run 4" FJ Liner & Propellant Stimulate

**Current Hole Condition:**

Total Depth: 6905'                      PBDT: 6780' (CMR)                      GL: 3186'                      KB: +14'

**Casing Record:**

13-3/8" 44.5#/ft; set @ 234' w/ 250 sx, Circ to surf  
9-5/8" 36#/ft; set @ 3136' w/ 1800 sx, TOC @ 250  
5-1/2" 15.5#/ft @ 6790' w/ 450 sx, original TOC: 3904' by TS.  
\*1979: Perf 2 holes @ 3860', cmt w/ 640 sx; circ 200 sx

**Existing Perforations:**

Inj Profile shows holes in csg 6266-6315' & 6446-84' w/ channeling up to 6170'  
Upr DRKD & Tubb: Perf 2 hls @ 6485' and sqz w/ 250 sx (02/72)  
DRINKARD: 6521-6632'  
UPR ABO: 6677-6774'  
CMR @ 6780' (02/1972)  
LWR ABO OH: 6790-6905' (11/53); Plugged back (02/72)

**NOTIFY FMT TO BLEED DOWN WELL AT LEAST TWO  
WEEKS PRIOR TO THE ESTIMATED RU TIME**

**CONTACT INFORMATION:**

Jonathan Paschel	D&C Engineer	Cell: 432-687-7512
Jamie Castagno	Production Engineer	Cell: 432-530-5194
Travis Barry	Geologist	Ph: 432-687-7744
Bob Trickett	RWW Planner	Ph: 432-687-7440
Patrick McMahon	Prod. Specialist	Cell: 432-813-5431

Prepared by: Jamie Castagno (08/27/13)

Reviewed by: Jonathan Paschel (9/11/13)

## **PRE-WORK:**

1. **Notify BLM/NMOCD 48 hours prior to RU.**
2. Complete the rig move checklist.
3. Ensure location is in appropriate condition, anchors have been tested within the last 24 months, power line distance has been verified to determine if a variance and RUMS are necessary.
4. When NU anything over and open wellhead (EPA, etc) ensure the hole is covered to avoid anything being dropped downhole.
5. Review H2S calculations in H2S tab included.
6. Any equipment installed at the wellbore, including wellhead (Inside Diameter), BOP rams are to be visually inspected by the WSM to insure no foreign debris or other restrictions are present.
7. Casing/Tubing annulus above 6213' was tested to 620# and held for 30 min on 12/15/2010 (after last workover).
8. Casing/Tubing annulus above 6200' was tested to 520# and held for 30 min on 9/9/2013.

## **PROCEDURE:**

1. Prior to MIRU workover rig, make a slickline gauge ring run and then set 1.78" 'F' blanking plug in on/off tool at ~6213'. Test blanking plug w/ 500 psi over SITP.
  2. MIRU. Reference SI pressures on Wellview report. Calculate density of kill fluid necessary for well control purposes.
- **Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.**
3. ND WH, NU 7-1/16" 5K Hydraulic BOP with 2-3/8" pipe rams on top and blind rams on bottom.
  4. Release on/off tool and circulate out packer fluid while circulating around kill weight fluid.
  5. LD 2 joints. PU/RIH with 5-1/2" 15.5# rated packer and set ~ 25'. Test BOP pipe rams to 250/1000 psi against packer and record in WellView. Release and lay down test packer.
  6. Latch back onto the On/Off tool.
  7. Punch blanking plug or equalize pressure and retrieve blanking plug on slickline.
  8. Release Inflatable Packer, and TOOH scanning and standing back injection tubing. Plan to replace bad joints. Tally pipe out of the hole to verify depths. Ensure that thread protectors are installed against the matting board.
    - A. If packer will not release, plan on getting off on/off tool and retrieving packer on workstring w/ perforated sub on bottom.
- **Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.**
9. Close blind rams. Change 2-3/8" pipe rams to 2-7/8" pipe rams. PU/RIH with 5-1/2" packer and set @ ~25'. Test BOP pipe rams to 250 psi/ 1000 psi bleeding down pressure between tests. Record test results in WellView. Release and LD packer.

10. PU/RIH with 4-3/4" MT bit, bit sub, 3-1/2" DC's on 2-7/8" 6.5# L-80 WS. RIH and tag for fill (note fill depth on report). PU power swivel and C/O to CMR @ 6780' and circulate well clean. **Well has known bad casing 6344-6756'. Pipe got stuck in 2010 workover @ 6480' & 6580'.** Attempt to clean out down to 6780', but remain in close communication with RE & PE while drilling out. Contact RE for plan forward if large metal shavings or formation begin showing in returns.
  11. TOOH w/ bit and TIH w/ treating packer. Set packer at 6195' (~5' above previous tallied out packer depth). Establish a pump in rate for squeeze design. Maximum pressure is 1500 psi. Report pump rate and pressure at different step intervals to the WSM.
  12. TOOH w/ treating packer.
  13. TIH w/ cast iron cement retainer on workstring and set at 6200' or previous tallied out packer depth.
  14. MIRU cement company and squeeze perf interval to the CMR at 6780' per the designed cementing quote from the previous steps. Reverse circulate out extra cement after squeezing and TOOH w/ workstring.
  15. TIH with 4-3/4" **journal bearing** MT bit, bit sub, 3-1/2" DC's on 2-7/8" 6.5# L-80 WS. Tag the cement retainer at 6200'. Circulate clean and pull above the perms. Close pipe rams and pressure up to 500 psi. Notify workover engineer with results. RIH to 6200'. PU power swivel and C/O to 6900' if possible and circulate the well clean. TOOH w/ workstring. Note new PBTD in daily report. Close the pipe rams and pressure test the casing to 300#. Notify WOE if test fails.
- **Caliper elevators and tubular each day prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.**
16. SI blind rams. Install 7-1/16" 3M or 5M annular BOP on top of the double. Pick up a 5-1/2" 15.5# packer on 2-7/8" tubing and set at ~25'. Test annular to 250/1000 psi for 5 minutes each bleeding off pressure between tests. Record results in WellView.
  17. Prepare location to run liner.
    1. Contact casing inspection crew to tally, drift and clean 4" 11# J55 Hunting SLF casing on location.
 

Due to an agreement with 1788 and the Engineer, this pipe was shipped to the Dollarhide pipe yard previously. The pipe will not be charged on the WBS as it only cost shipping charges.
    2. Contact Lewis casing crew (Dwayne Alan 432-661-4660) to run casing and ensure they have inspected slip type elevators.
    3. Contact Hunting Thread rep (Larry Dutchover 432-580-4242, 432-559-8716) to have a representative on location w/ lift nubs, stabbing guides, thread compound, 4" SLF x 4-1/2" 8RD, and inspection services.
    4. Have the cementing company bring out ahead of time a 4-1/2" 8RD x 2" 1502 or similar that can be used to hook up the reverse unit and pump in while running the liner.
    5. Chevron requires an approved and tested metal stabbing board if used.
- **Caliper elevators and tubular each day prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.**

18. Open blind rams. PU and RIH 4" casing as follows:

Contact for bucking (Doug Office: 432-367-3213 Cell: 432-661-9779)

- Duplex shoe (Peak Completions, must be bucked onto 4" FJ prior to arriving on location.)
- 1000' of 4" 11# J55 casing. (if PBTD of 6900' was not reached, run sufficient liner to bring liner top to 5900'.
  - The clearfork top is 6100', so 5900' will allow 200' of overlap even if we attempt to start injecting higher than we currently do at ~6400'.
- 5-1/2" 15.5# Peak liner top guide

TD - Surface	
Component	Quantity
Size	4"
Nominal Weight	11#
Grade	J55
Connection	Hunting SLF
ID	3.476
API Drift	3.351
Connection OD	4"
Collapse	6590
Burst	6300 psi
Body Yield	134 klbs
Joint Strength	
String Weight (air)	11 klbs (csg will be run in compression)
String Weight (Buoyed)	9.2 klbs
L4 Distance	N/A
<b>Guiding</b> Makeup Torque	1400 ft-lbs

19. Set slips to hold the 4" casing in place. R/U to run 2-3/8" 4.7# L80 workstring inside of the 4" liner.
20. RIH w/ liner catch tool and 2-3/8" tubing until the bottom of the liner is tagged. Latch onto the liner by turning 2 rounds to the left and pick up off the slips.
21. Install a crossover and 1 stand of 2-7/8" tubing. Pump 3x tubing capacity to ensure float function.
22. TIH w/ liner to PBTD. Fill tubing if necessary or pump down the backside to prevent liner from floating.
23. Once on bottom establish a string weight just off bottom. Slack off liner buoyant weight on bottom and rotate 2 rounds to the right to release tubing from liner. Pick up and ensure liner weight is lost. Sit back down 5klbs.
24. Circulate 1.5x bottoms up w/ fresh water and prepare for cementing and check float clearance.
25. MIRU cement company. Pressure test lines to 4,000 psi. **Request lab test information to cement company prior to pump the job.**
26. Pump cement job per Design attached. Collect both a WET and DRY sample of cement.

27. Witness displacement and use displacement tubs to track displacement – request that cementer does NOT fill tubs high and suck low. Under displace cement slurry by 5 bbls (~1000’).
28. Pick up tubing ensuring that there is no additional liner weight. Reverse circulate 100 bbls to an open top pit to clear out excess cement. Have sugar on location to retard cement setting.
29. TOO H w/ tubing above liner top. RDMO cement company and then continue to TOO H w/ tubing. **Do not fill the hole coming out so that the fluid level will drop and allow for a required air gap while shooting perf charges.**
30. MIRU Apollo wireline. Conduct safety meeting, set up an exclusion zone and insure all electronic devices are turned off. Install lubricator and packoff and test to 1000 psi for 5 minutes. RIH w/ 3” gauge ring to PBTD. Rig up to RIH with guns and perforate depths below w/ 6 JSPF, 2-1/2” slick gun, .36” entry hole (33.27” penetration, Apollo # RTG-2511-322T) 60 deg phasing. Correlate with attached log dated 12/03/1979.

CLFK Thief/ Lwr “A”: 6671-82’ (11’)

CLFK “B”: 6716-31’ (15’), 6746-58’ (12’), 6764-80’ (16’), 6800-10’ (10’), 6828-50’ (22’)

**Ensure that fluid level is at least 100’ above perforations**

\*\*Note: Propellant must be 50’ or more from PBTD. If PBTD is less than 6900’, discuss changing last interval with completion & production engineer.

31. POOH/LD perforating guns.
32. MIRU propellant contractor. Load propellant guns. RIH w/ guns and complete propellant treatment per procedure. Correlate with attached log dated 12/03/1979.

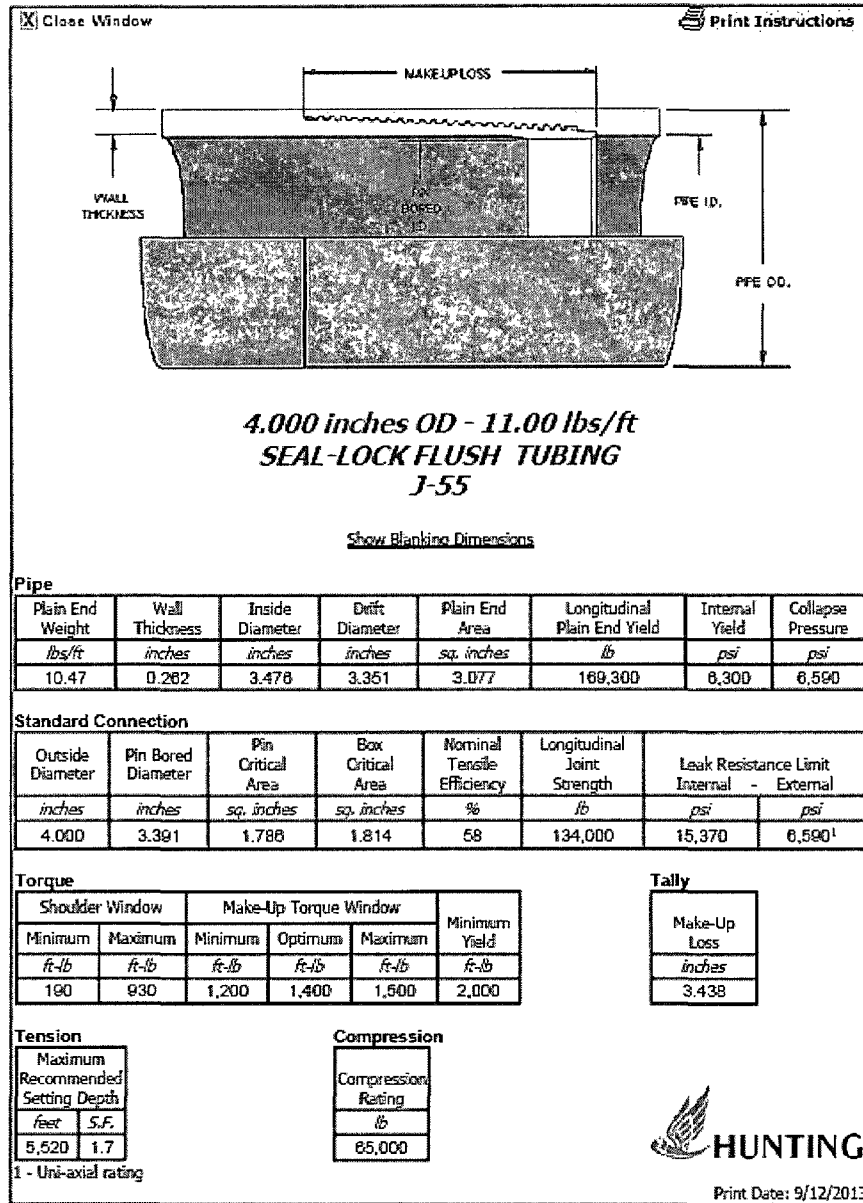
**Ensure that hydrostatic overbalance is at least 1000 psi (2000’ of 10# brine above perforations). 300’ is the minimum allowable. Fluid level must also be at least 225’ below surface to allow for fluid movement during stimulation that could damage or destroy the wellhead. Do not proceed until these conditions are met.**

- **Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.**

33. After the last propellant gun run, RIH w/ the carrier to 6810’ to ensure casing integrity.
  - a. If any casing issues are found plan on pickup up a string mill w/ muleshoe to clean out to PBTD. POOH laying down workstring.
34. Close blind rams. Change 2-7/8” pipe rams to 2-3/8” pipe rams. PU/RIH with 5-1/2” packer and set @ ~25’. Test BOP pipe rams to 250 psi/ 1000 psi. Release and LD packer.
35. TIH with new 4” AS-1X nickel-coated IPC injection packer with pump-out plug and on/off tool with 1.43” ‘F’ stainless-steel profile nipple on 2-3/8 4.7# injection tubing hydrotesting to 5000# (or workstring w/ perforated sub if still stood back in the derrick). (Steps from here forward assume injection tubing was used to run the packer). Set top of injection packer inside liner @ +/- 6510’. Release off on/off tool and load tubing and casing. Perform preliminary MIT testing to 500 psi for 30 minutes. Reverse circulate packer fluid and latch back onto the packer.
36. ND BOP, NU WH. Pump down tubing to shear-off pump-out plug.

37. Conduct MIT (mechanical integrity test). Pressure test casing to 500 psi and record chart for 30 minutes. Notify BLM/NMOCOD of MIT with 4 hours advance notice with rig on well. Test for MIT. Send original chart to ALCR and keep copy for well file.
38. RDMO. Turn over well to operations (contacts on first page).

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# WELLBORE DIAGRAM CURRENT WDDU 27

FIELD: West Dollarhide Drinkard Unit

Well No: 27

FORMATION: TUBB, DRKD, ABO

LOC: 1980' FNL & 660' FEL

Sec: 29

GR: 1

CURRENT STATUS: SI Injector

TOWNSHIP: 24S

Cnty: Lea

KB: +14'

API NO: 30-025-12232

RANGE: 38E

State: NM

DF: 3186'

Chevno: FB3174

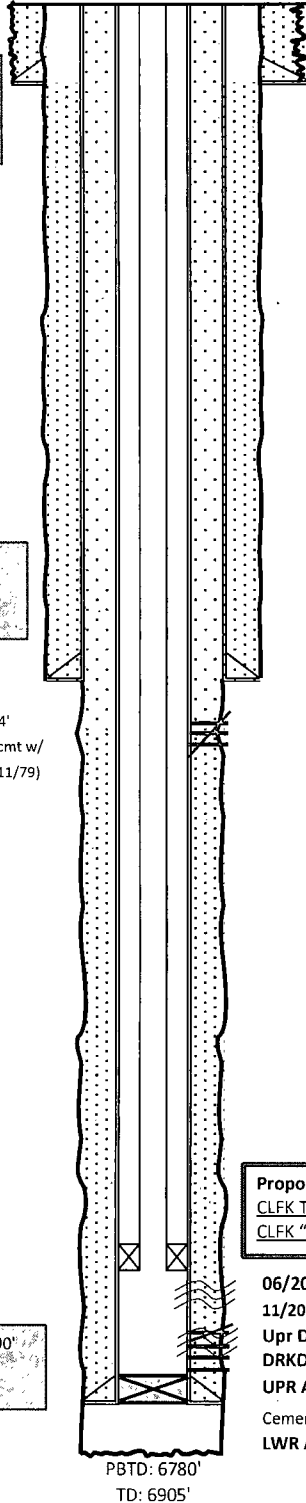
Surf csg 13-3/8" 44.5#/ft  
Set @ 234' w/ 250 sx, Circ  
to surf  
Hole Size: 18"

Int csg 9-5/8" 36#/ft @ 3136'  
w/ 1800 sx, TOC @ 250'  
Hole Size: 12-1/4"

ORIGINAL TOC: 3904'  
Perf 2 hls @ 3860', cmt w/  
640 sx; circ 200 sx (11/79)

Formation Tops:  
T Anhy @ 1201  
T Salt @ 1287  
Base of Salt @ 2550  
Yates @ 2686  
Queen @ 3552  
San Andres @ 4059  
Glorietta @ 554  
Tubb @ 6176  
Drinkard @  
Abo @  
Fullerton @

Prod csg 5-1/2" 15.5#/ft @ 6790'  
w/ 450 sx, TOC: 3565'  
Hole Size: 7-7/8"



SPUD: 9/53

Date Completed: 11/53	Initial Production:
Initial Formation: Abo (OH)	305 BO, -- Mcf -- BW
FROM: 6790'	TO: 6905'
	-- GOR, 38.5 Sp Grv

Mexico "K" # 6

Initial completion:

OH completion 6790-6905'. Acidize w/ 15.5k gal in 3 stages

Subsequent workovers:

05/1955 Add & Frac Perfs: Perf & Acdz 6677-6774' w/ 500 gal Dowell MA; Frac w/ 10k gal Dowell acid petro frac.

02/1956 Add & Frac Perfs: Perf & Acdz 6521-6632' w/ 500 gal Dowell MA. Frac w/ 10k gal Dowell acid petro frac.

01/1970 Convert to WIW: Tag cavings @ 6865', C/O OH; Run IPC tbg w/ pkr set @ 5949'. Inject into perfs 6521-6774' and OH.

11/1971 SI well due to water breakthrough

02/1972 PB OH, Block Sqz Csg: Temperature survey showed the Upr DRKD & Tubb zones were thieving inj water (above existing perforations) & determined Lower Abo (OH section) to be causing water breakthrough problems. Run cmt retainer @ 6780' and sqz OH w/ 50 sx cmt, displace cmt to 6780'. Perf @ 6485' w/ 2 shots and sqz w/ 250 sx cmt. Test sqzd perfs, held OK. Run inj tbg and pkr @ 6412'. RTI into perfs 6521-6774'.

11/1979 Recement Csg: C/O 6542-6680'. Run CBL, found TOC @ 3904', perf 2 hls @ 3860' cmt w/ 640 sx, circ 200 sx, test to 500 had 70 BWPD water flow, re-cmt and test to 1000# OK.

12/1983: Re-test possible communication (bradenhead flows)

08/1984 Repair Communication: Set RBP @ 6481'; test csg, held OK. RIH w/ tbg and new Lynes pkr. RTI.

12/1984: Run Csg Insp Log from 6512' to surface. RIH, tag fill @ 6535'; C/O Iron Sulfide and scale to 6650'. RTI.

06/2004: Injection stopped

12/2005 MIT Test: Test csg to 500#; Held OK.

11/2010 RTI: C/O fill 6229-6757' (took >2 weeks). Returns were metal shavings and fill (iron deposits). Bag csg 6344-61'. Tight spot @ 6358'. Bad csg 6475-6757' (returns: fill, light metal shavings, rubber, scale, & iron sulfide). Pipe got stuck @ 6480' & 6580'. Acdz w/ 700 gal 15%. C/O tight spot again @ 6479-6565'. Verified surface & int csg had no holes. Set pkr @ 6213'.

06/2011: Injection profile run. Tracer shows possible holes in csg from 6266-6315' and 6446-84'.

Tubing in Hole: 12/13/2010

Footage	Joints	Type
6186.88	197	2-3/8" 4.7# L-80 IPC 8RD Tubing
1.66	1	2-3/8" L-10 On-Off Tool w/ 1.78 F Nipple
11.22	1	Inflatable 5-1/2" Packer @ 6213.5'
6199.8		Total Tubing String

## Proposed Perfs

CLFK Thief/ Lwr "A": 6671-82' (11')

CLFK "B": 6716-31' (15'), 6746-58' (12'), 6764-80' (16'), 6800-10' (10'), 6828-50' (22')

06/2011: Probable holes in csg 6266-6315' & 6446-84' w/ channeling up to 6170'

11/2010: Bad Csg f/ 6344' to PBD (6344-61', 6475-6757')

Upr DRKD & Tubb: Perf 2 hls @ 6485' and sqz w/ 250 sx (02/72)

DRKD: 6521-6632' w/ 4 JSPF (net 51', 204 shots)

UPR ABO: 6677-6774' w/ 4 JSPF (net 32', 128 shots)

Cement retainer @ 6780' (02/72)

LWR ABO OH: 6790-6905' (11/53); Plugged back (02/72)

Updated by J Castagno

9/15/2013