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Wilder Federal 29-1 SWD <u>MIT / Replace Packer Procedure</u>

Objective of this Work: Pull existing down hole injection equipment, test casing, replace injection packer assembly and return to disposal status.

API Number:	30-025-4050	D .	
Field:	Red Hill Wes	t	
Location:	2010' FNL & Lat - 32° 0' 5		ction 29. T26S, R32E, Lea, NM Long -103° 41' 49.304'' W
Spud Date:	04/20/2012		
Depths:	TD = 6275'	PBTD	= 6205'
Elevation:	GL =3129'	KB =13'	KBM =3142'

Casing:

Intermediate

	Depth	ID	Drift	Burst	Collapse	Capacity (bbl/ft)
95∕a" 36#, J-55 ST&C	1058'	8.921	8.765	3520	2020	.0773

Cement w/600 sacks TOC = surface

Production

	Depth	ID	Drift	Burst	Collapse	Capacity (bbl/ft)
7" 26# P-110 BTC	6251'	6.276	6.151	9950	6210	.0383
Cement w/134	10 sacks	тос	= surface			

Injection Tubing:

	Depth	ID	Drift	Tensile	Burst	Collapse	Capacity (bbl/ft)
3½", 9.3#, L- 80, 8rd, EUE	5115.67'	2.992	2.867	207200	10160	10540	.0087

Procedure:

Hold safety meeting and review JSA prior to proceeding

Rig arrives on Location

- 1. Rig up work-over rig and ancillary equipment.
- 2. Confirm well is static. Kill well with weighted fluid (#14 ppg was required previously) for well control.

Note: Contact Justin Pechacek w/ Mesquite (325-573-3537) – Mesquite will send service hand to location to unset and recover packer assembly do NOT proceed before Mesquite service hand arrives!

- 3. ND injection well head and NU shop tested 5k single Hydraulic BOP (blind rams) + 3K Hydril. Install as per ConocoPhillips Well Control Manual.
- 4. Release Mesquite AS-1X packer and POOH with injection tubing assembly.

<u>Note: Turn AEROSET AS-1X packer over to Mesquite – Mesquite will hold for</u> teardown w/ Jerry Reno – this packer will NOT be re-run

Note: Handle IPC tubing with care; install pin protectors to protect the coating

Test Production Casing

- 5. MI a 2⁷/₈" (6.5#/ft, L-80) workstring. Rig up Pick-up / Lay-down machine.
- 6. PU an RBP and test packer (for 7", 26#/ft, P-110 casing) on 2 ⁷/₆" workstring.
- 7. RIH and set the RBP @ 5,170'± RKB. Use *Schlumberger Compensated Neutron HGNS-GR-CCL log dated 5/18/2012* to confirm collar location.
- 8. Release from RBP. Load wellbore w/ saltwater.
- 9. PUH 10'± and set test packer.
- 10. MI-RU a high pressure pump truck. Test surface line from truck and return line to frac tank to **4,000** psi.
- 11. Pressure down workstring and confirm RBP is holding:
 - If RBP holds release pressure and proceed to next step
 - If RBP does not hold reset / move RBP and repeat pressure test

University 7-28 #01R

Re-entry for SWD conversion procedure

Rage #3

- 12. Pressure casing to a minimum of 2000 psi to confirm no leaks. If casing.
 - Leaks release packer, pull up hole in 500' increments testing casing until leak is located - Contact Jerry Reno (432-202-5957) for Cementing addendum procedure
 - Holds pressure release pressure, POOH w/ workstring & test packer, recover RBP, and proceed to next step

(Contact BLM and OCD at least 72 hours prior to running MIT)

Install Downhole Injection Assembly

13. MI-RU a hydro-test services to test internally coated injection tubing while RIH. Note: Test tubing (do not exceed 85% of burst) - perform hydro-test below grade

Confirm/record - id's and od's of all equipment prior to RIH

14. PU the following: (bottom to top)

- Re-entry guide (id 2.441") w/ a pump out plug in place ٠
- "XN" nipple (id 2.313") corrosion resistant 0
- 2 7/8" 4' (length may vary), 6.5#/ft L-80 tubing sub (nickel lined)
- 7" Baker Hornet internally coated packer (od 6.2", id 2.992")
- On/off tool w/ "X" nipple (id 2.313") corrosion resistant •
- 3 ½" x 2 7/8" 4' (cross-over), 6.5#/ft L-80 (nickel lined)
- $3\frac{1}{2}$ " IPC injection tubing (9.3# L-80)

Note: Baker Oil Tools contact is Raymond Akers @ 940-452-6358

	Item Description	lcon	OD Nominal (in)	Nominal ID (in)	Wt (Ibs/ft)	Grade	Len (ft)	Jts	Туре
	Tubing-LINED.		31/2	2.670	9.30	L-80	5,138.00	158	Tubing
	Tubing cross-over sub (3 1/2" s		2 7/8	2.441	6.50	L-80	4.00		Tubing
	On/Off tool w/ "X" profile	Ē	2 7/8	2.310			2.00	1	Other
-	3-1/2x7'' 26# Baker (Hornet Pa		6	2.992		**************	7.50	1	Packers
	Tubing sub - nickel lined		27/8	2.441	6.50	L-80	4.00		Tubing
	''XN'' nipple		2 7/8	2.313			1.10	1	Other
	Re-entry Guide w/ pump out pli		2 7/8	2.992			0.50	1	Other
5		· · ·	2 7/8		**********				ar nal Able to a co

- 15. RIH with downhole injection assembly. Once on depth @ 5,190' RKB release hydro-test services. Set disposal packer assembly@ 5,170' RKB (historical location).
- 16. Once injection packer is set, release from on/off tool.
- 17. Close pipe rams pressure down tubing (do not exceed 1000 psi) and confirm packer assembly (w/ pump out plug) and casing are holding.

18. Release pressure, open pipe rams, and load backside with inhibited packer fluid. Note: Champion contact is Lonnie Bryan @ 575-390-9591 for details

- 19. Latch onto the injection packer on-off tool, pull tension, and space out 3 1/2" IPC injection tubing string.
- 20. Nipple down BOP and nipple up the injection wellhead assembly.
- 21. Pressure down tubing casing annulus and conduct a pre-MIT to confirm injection packer / production casing is holding.

Mechanical Integrity Test (MIT)

22. Conduct and chart the official MIT test w/ BLM/OCD representatives invited. Note: Send MIT results to Donna Williams (Regulatory) Midland office.

- 23. Pump / pressure down injection tubing to 2,000 psi to remove pump out plug. Pump at least two full tubing volumes to confirm pump out plug is removed.
- 24. Release pressure and rig down high pressure pump truck services.
- 25. RD-MO well service unit.
- 26. Clean up location, dispose of all produced fluids, trash, and debris.
- 27. Release all ancillary equipment.
- 28. Report all work performed in Well view.
- 29. Contact Ray Carrasco (432-634-5914) the Production Supervisor prior to turn well over to Operations.
- 30. Return well to Production Operations. Once injection is initiated report rate and pressure in AVOCET.

University 7-28 #01R

Re-entry for SWD conversion procedure

Page #5



Existing Schematic:



Conditions of Approval Wilder 29 Fed SWD #1 30-025-40500 ConocoPhillips Company

- At least 24 hours before the test: In Eddy County email Paul R. Swartz paul_swartz@blm.gov, (phone 575-200-7902). If there is no response phone 575-361-2822. In Lea County phone 575-393-3612 or 575-631-5801. Note the contact notification method, time, & date in your subsequent report.
- 2. Surface disturbance beyond the existing pad must have prior approval.
- 3. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
- 4. Functional H_2S monitoring equipment shall be on location.
- 5. A minimum of 3000 (3M) BOPE shall be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M) Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
- 6. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- 7. <u>Step 12 of attached procedure</u> Once casing leak has been located Notify BLM and provide a Sundry with a procedure on how the operator plans on repairing the casing. (If necessary call and discuss with the BLM)
- 8. Once the casing has been repaired, an MIT shall be required and shall be a done at maximum allowable injection pressure of <u>1041 psig for 30 minutes</u> and chart recorded and witness by the BLM
- 9. Document the pressure test on a calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 10. A CBL shall be required once casing has been repaired. Submit CBL to the Carlsbad BLM office.
- 11. Subsequent sundry required.

EGF 032113

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