

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

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.)		WELL API NO. 30-025-42355
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other swd HOBBS OCD		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Devon Energy Production Company, L.P.		6. State Oil & Gas Lease No.
3. Address of Operator 333 West Sheridan Avenue Oklahoma City, OK 73102		7. Lease Name or Unit Agreement Name Rattlesnake 16 SWD
4. Well Location Unit Letter <u>E</u> : <u>2375</u> feet from the <u>NORTH</u> line and <u>210</u> feet from the <u>WEST</u> line Section <u>16</u> Township <u>26S</u> Range <u>34E</u> NMPM LEA County		8. Well Number <u>1</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3337.3		9. OGRID Number 6137
		10. Pool name or Wildcat SWD; DEV-FUS-MON-SIMP

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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.

Devon Energy Production Co., L.P. respectfully requests approval of updated repair procedure, originally due to lightning strike at the Rattlesnake 16 SWD #1 facility. Previously approved repair operations have been completed. In preparation of MIT prior to injection, the team was unable to sting the seal assembly into the packer. Please see attached detailed procedure, including previously approved procedure and updated Tieback procedure and wellbore schematics.

Spud Date:

5/29/2015

Rig Release Date:

9/5/2015

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

SIGNATURE Rebecca Deal TITLE Regulatory Analyst DATE 9/21/2020

Type or print name Rebecca Deal E-mail address: rebecca.deal@dvn.com PHONE: 405-228-8429

For State Use Only

APPROVED BY: Kenny Fortner TITLE C O A DATE 9-22-20
Conditions of Approval (if any)



Rattlesnake 16-1 SWD - General Tieback Procedure

9/21/2020

WELL NAME: Rattlesnake 16-1 SWD

API: 30-025-42355

Location: 2375' FNL, 210' FWL, Sec. 16 T26S-R34E

County: Lea, NM

Current Well Status: Well is temporarily abandoned with a retrievable bridge plug set at ~18,000' with sand dumped on top.

Objective: Run a 7-5/8" x 5-1/2" inner casing string to eliminate gas migration through 9-5/8" x 7" BT&C casing connections. Run new tubing string with drilling rig while on location.

Operations in italics are previously approved and completed, the new steps are planned as of 9/21/20.

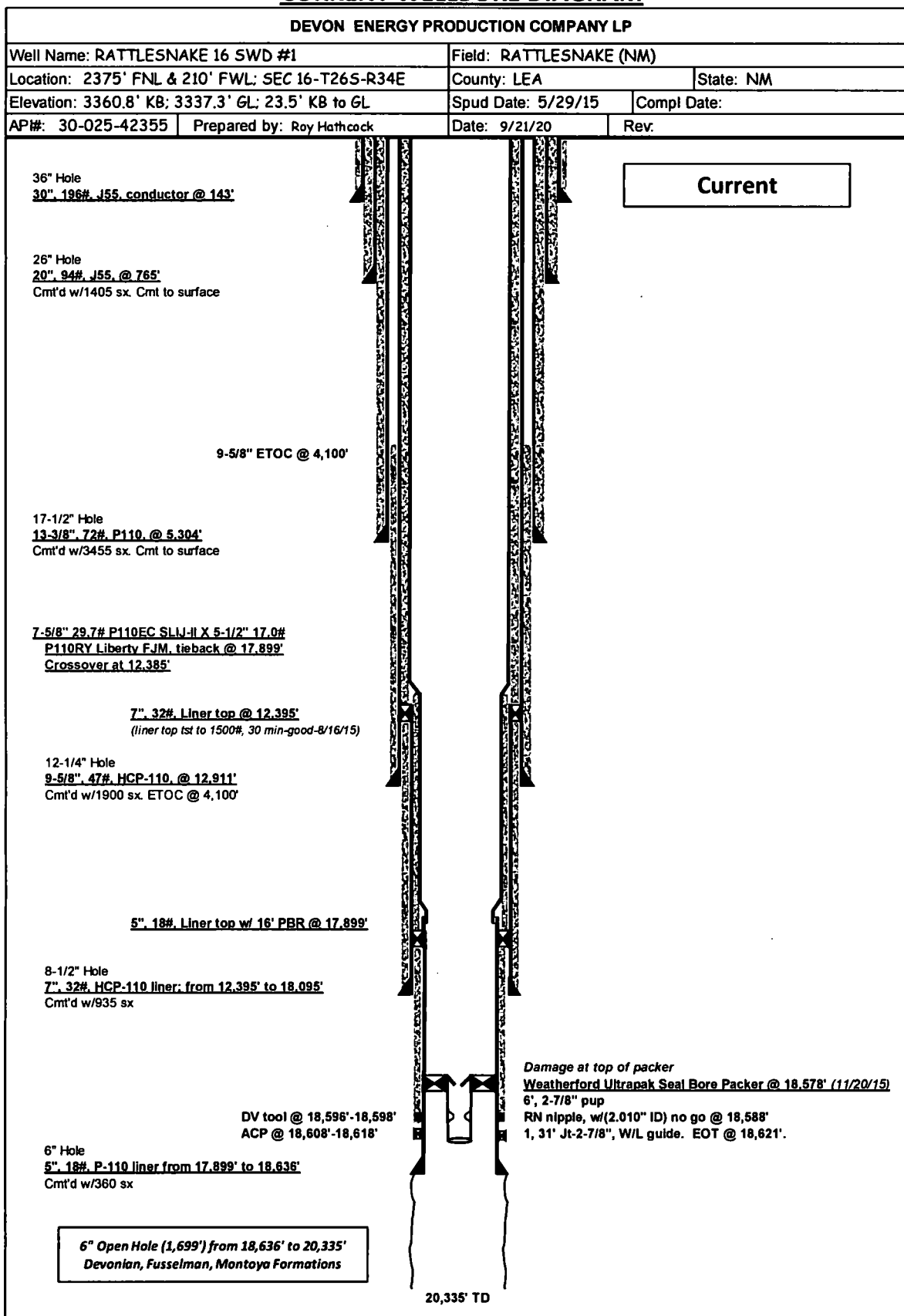
1. *MIRU TBD drilling rig.*
2. *Bleed off any pressure on casing and check for flow.*
3. *ND 4-1/16" tree. Install rig's 13-5/8", 10K BOPs on 11", 10K ("C" section) and test per Devon's guidelines.*
4. *PU and RIH with 5-1/4" x 16' tieback seal assembly, followed by a joint of 5-1/2", 17#, P110 flush joint casing, float collar and landing collar. Continue running 5-1/2" (~5500'), 5-1/2" x 7-5/8" crossover, 7-5/8", 29.7# P-110 semi-flush joint casing (~12,400') to the top of the liner top packer at ~17,899'.*
5. *Sting into the tieback receptacle on the liner top packer, pull out and circulate to make sure the hole is full of clean 2% KCL water.*
6. *Space out (casing pup may be needed) as needed to pump the liner tieback cement job.*
7. *Pump liner tieback cement job according to Devon's detailed procedure. Note in WV how much cement is returned to surface.*
8. *Set 11" slips around 7-5/8" casing and land in "C" section, setting down with no (neutral) weight on the liner top packer.*
9. *ND 13-5/8" 10K BOPs, cut off casing stub and install new 11" 10K tubing head. Reinstall 13-5/8", 10K BOPs and test per Devon's guidelines.*
10. *WOC for a total of 18 hrs after bumping the plug prior to drilling out.*
11. *PU and RIH with drift bit/mill for 5-1/2", 17# casing and BHA on TBD workstring to clean out cement and float equipment in the 5-1/2" casing to the top of the sand ~17,980'. Circulate hole clean and POOH.*
12. *PU and RIH with 5" RBP retrieving tool to ~17,980', circulate sand/debris off the top of the RBP at 17,994', displace hole with clean produced water, latch and release. Be prepared to lose circulation once the RBP is released. Allow well to stabilize prior to POOH laying down TBD workstring.*
13. *PU and RIH with 3" seal assembly (nickel coated), 2-7/8" x 3-1/2" (Inconel) crossover, 3-1/2", 9.3# P-110 flush joint (fiberglass) lined tubing, 3-1/2" x 5-1/2" (fiberglass) lined crossover, followed by 5-1/2", 17# P-110 NU (fiberglass) lined tubing, 5-1/2", 17# P-110 NU (fiberglass) lined pup joints, and tubing hanger.*
14. *Space out tubing as required, pup joints will be provided. Set 90 Klbs of weight on the packer to allow for tubing contraction during injection. PU and circulate around treated and inhibited 2% KCl packer fluid.*
15. *Sting into production packer with seal assembly and land tubing in hanger. Tested backside and it failed to test.*
16. *POOH with tubing string and found seal assembly damaged.*
17. *Ran camera on wireline to ~18,577' and found the top of packer damaged.*
18. *RIH with shoe and mill over permanent packer, POOH.*
19. *RIH with overshot, latch packer and POOH.*
20. *RIH with bit to ~18,600, POOH laying down workstring.*
21. *RIH with electric line and set new packer at ~18,600.*
22. *PU and RIH with seal assembly (nickel coated), 2-7/8" x 3-1/2" (Inconel) crossover, 3-1/2", 9.3# P-110 flush joint (fiberglass) lined tubing, 3-1/2" x 5-1/2" (fiberglass) lined crossover, followed by 5-1/2", 17# P-110 NU (fiberglass) lined tubing, 5-1/2", 17# P-110 NU (fiberglass) lined pup joints, and tubing hanger.*

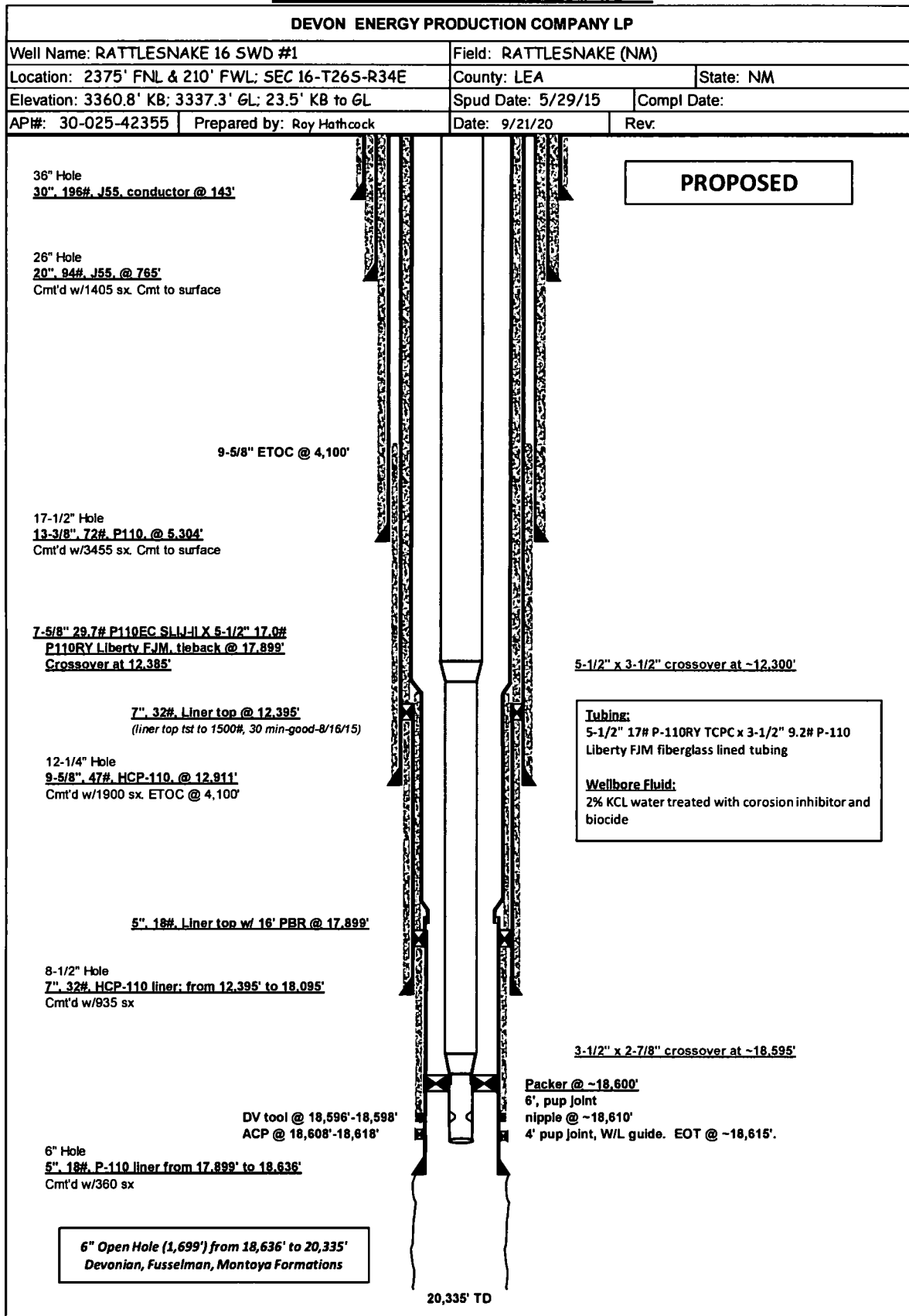


Rattlesnake 16-1 SWD - General Tieback Procedure

9/21/2020

23. Space out tubing as required, pup joints will be provided. Be prepared to set TBD Klbs of weight on the packer to allow for tubing contraction during injection. PU and circulate around treated and inhibited 2% KCl packer fluid.
24. Sting into production packer with seal assembly and land tubing in hanger. Install BPV, ND BOPs and NU tree. Pull BPV. Set 2-way check and test tree, pull 2-way check.
25. Release drilling rig.

**CURRENT WELLBORE DIAGRAM**

**PROPOSED WELLBORE DIAGRAM**

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Devon Energy Production Co., L.P. respectfully request approval of repair procedure due to lightning strike at the Rattlesnake 16 SWD #1 facility. After the strike, ops ceased and surface repairs were assessed. Made decision to pull the existing injection tubing to upgrade the string to a more robust design with premium connections and fiberglass lining. This determination was based on internal discussions to standardize Devon's SWD wells and improve operational reliability over previous inferior designs (API connections, composite linings, and internal plastic coatings). Once the tubing was removed, diagnostic testing was performed on the well casing, and it was discovered that the well would successfully hold during an MIT-style pressure test. However, there was a slight pressure build over time which was determined to be gas intrusion into the well bore through the API casing connections. In order to ensure well integrity and operational reliability, Devon feels it is in the best interest to repair the well with a new casing liner cemented in place. See below for bulleted repair plans. A detailed tie-back procedure is also attached for reference.

- Install new 5-1/2" flush joint by 7-5/8" semi-flush casing liner inside of the existing 7" BTC by 9-5/8" BTC casing, sealing into the 5" liner top PBR and tying back to surface
- Cement new casing liner in place by circulating cement to surface
- Install new wellhead
- Drill out float equipment and remove RBP in 5" liner
- Install new 3-1/2" flush joint by 5-1/2" all fiberglass lined tubing, sealing into the existing 5" packer

Please see attached detailed procedure and wellbore schematics

Spud Date:

5/29/2015

Rig Release Date:

9/5/2015

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

SIGNATURE Rebecca Deal TITLE Regulatory Analyst DATE 4/15/2020

Type or print name Rebecca Deal E-mail address: rebecca.deal@dmn.com PHONE: 405-228-8429

For State Use Only

APPROVED BY: Kenny Foster TITLE C O A DATE 4-24-20

Conditions of Approval (if any)



Rattlesnake 16-1 SWD - General Tieback Procedure

4/7/2020

WELL NAME: Rattlesnake 16-1 SWD

API: 30-025-42355

Location: 2375' FNL, 210' FWL, Sec. 16 T26S-R34E

County: Lea, NM

Current Well Status: Well is temporarily abandoned with a retrievable bridge plug set at ~18,000' with sand dumped on top.

Objective: Run a 7-5/8" x 5-1/2" inner casing string to eliminate gas migration through 9-5/8" x 7" BT&C casing connections. Run new tubing string with drilling rig while on location.

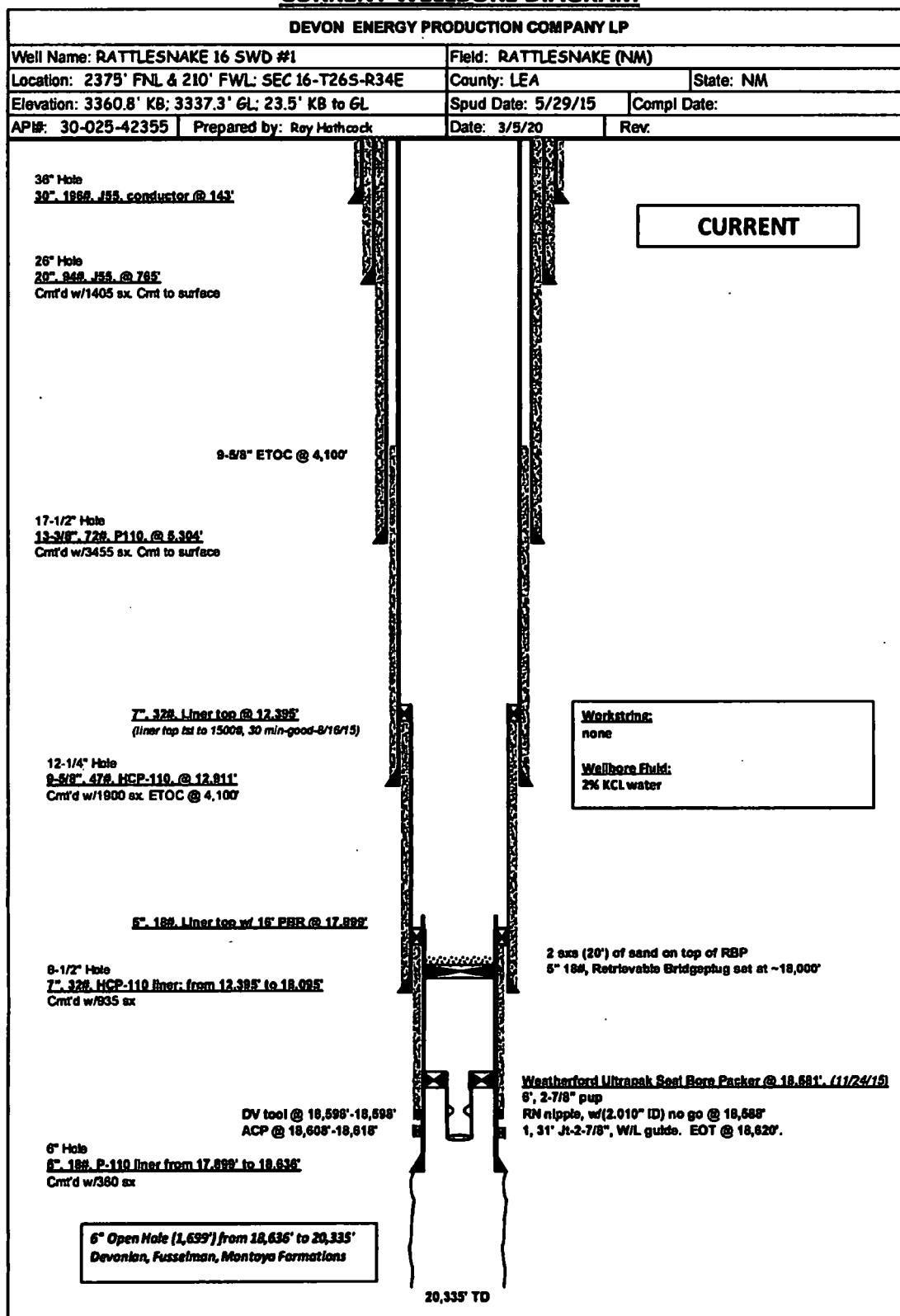
1. MIRU TBD drilling rig.
2. Bleed off any pressure on casing and check for flow.
3. ND 4-1/16" tree. Install rig's 13-5/8", 10K BOPs on 11", 10K ("C" section) and test per Devon's guidelines.
4. PU and RIH with 5-1/4" x 16' tieback seal assembly, followed by a joint of 5-1/2", 17#, P110 flush joint casing, float collar and landing collar. Continue running 5-1/2" (~5500'), 5-1/2" x 7-5/8" crossover, 7-5/8", 29.7# P-110 semi-flush joint casing (~12,400') to the top of the liner top packer at ~17,899'.
5. Sting into the tieback receptacle on the liner top packer, pull out and circulate to make sure the hole is full of clean 2% KCL water.
6. Space out (casing pup may be needed) as needed to pump the liner tieback cement job.
7. Pump liner tieback cement job according to Devon's detailed procedure. Note in WV how much cement is returned to surface.
8. Set 11" slips around 7-5/8" casing and land in "C" section, setting down with no (neutral) weight on the liner top packer.
9. ND 13-5/8" 10K BOPs, cut off casing stub and install new 11" 10K tubing head. Reinstall 13-5/8", 10K BOPs and test per Devon's guidelines.
10. WOC for a total of 18 hrs after bumping the plug prior to drilling out.
11. PU and RIH with drift bit/mill for 5-1/2", 17# casing and BHA on TBD workstring to clean out cement and float equipment in the 5-1/2" casing to the end of the 5-1/4" tieback seal assembly (~17,899'). Circulate hole clean and POOH.
12. PU and RIH with 5" RBP retrieving tool to ~17,980', circulate sand/debris off the top of the RBP at 17,994', latch and release. Be prepared to lose circulation once the RBP is released. Allow well to stabilize prior to POOH laying down TBD workstring.
13. PU and RIH with 2.5" seal assembly (nickel coated), 2-7/8" x 3-1/2" (Inconel) crossover, 3-1/2", 9.3# P-110 flush joint (fiberglass) lined tubing, 3-1/2" x 5-1/2" (fiberglass) lined crossover, followed by 5-1/2", 17# P-110 NU (fiberglass) lined tubing, 5-1/2", 17# P-110 NU (fiberglass) lined pup joints, Inconel crossover (if needed) to the tubing hanger.
14. Space out tubing as required, pup joints will be provided. Be prepared to set TBD Klbs of weight on the packer to allow for tubing contraction during injection. PU and circulate around treated and inhibited 2% KCl packer fluid.
15. Sting into production packer with seal assembly and land tubing in hanger. Install BPV, ND BOPs and NU tree. Pull BPV. Set 2-way check and test tree, pull 2-way check.
16. Release drilling rig



Rattlesnake 16-1 SWD - General Tieback Procedure

4/7/2020

CURRENT WELLBORE DIAGRAM

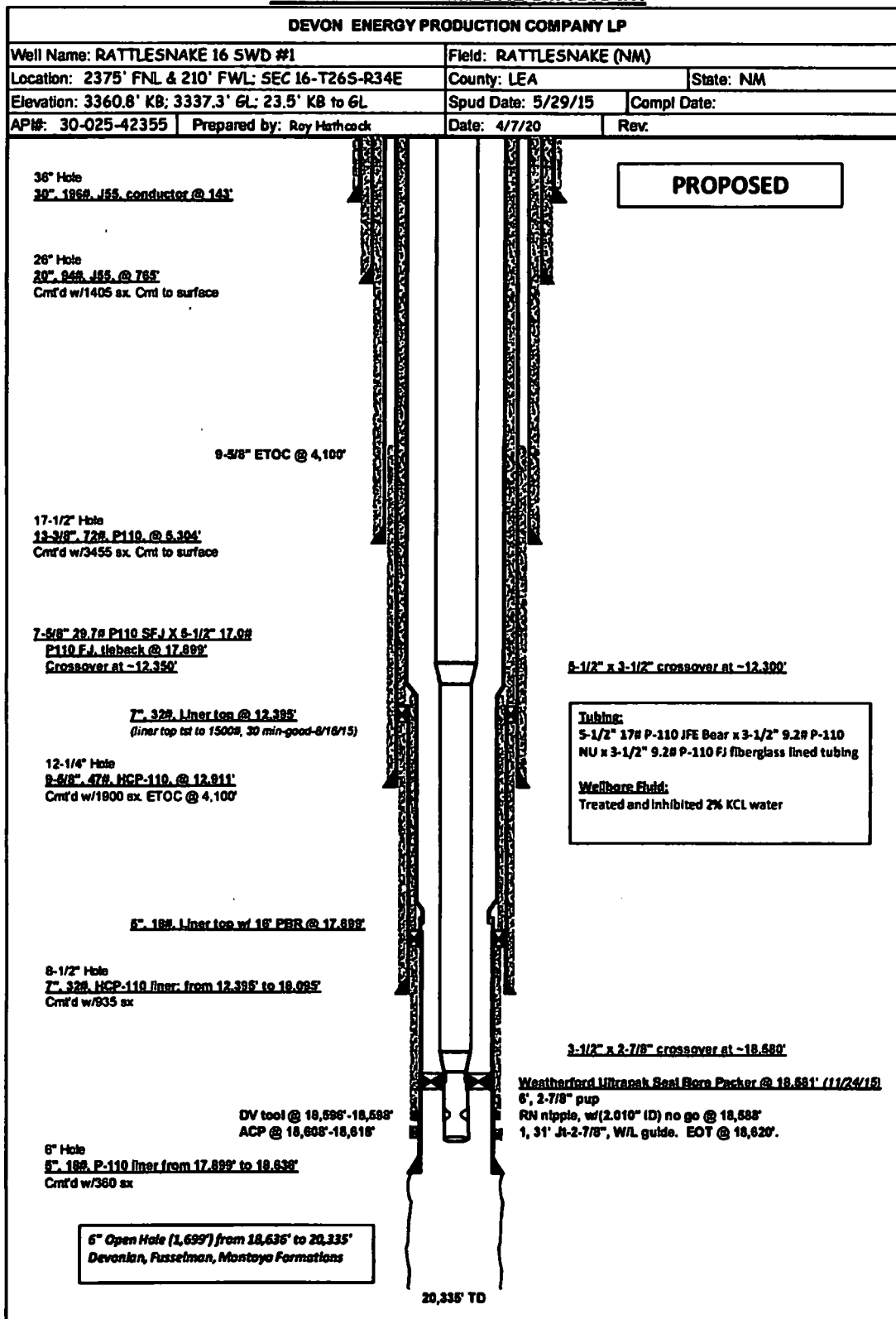




Rattlesnake 16-1 SWD - General Tieback Procedure

4/7/2020

PROPOSED WELLBORE DIAGRAM



PROPOSED

36" Hole
20" 186# J55 conductor @ 143'

26" Hole
20" 84# J55 @ 785'
Cmt'd w/1405 sx. Cmt to surface

9-5/8" ETOC @ 4,100'

17-1/2" Hole
13-3/8" 72# P-110 @ 5,394'
Cmt'd w/3455 sx. Cmt to surface

7-5/8" 29.7# P-110 SF J X 9-1/2" 17.0#
P-110 F.J. tieback @ 17,899'
Crossover at -12,350'

7" 32# Liner top @ 12,395'
(liner top ist to 1500#, 30 min-good-8/18/15)

12-1/4" Hole
9-5/8" 47# HCP-110 @ 12,811'
Cmt'd w/1900 sx. ETOC @ 4,100'

5" 18# Liner top w/ 18' PBR @ 17,899'

8-1/2" Hole
7" 32# HCP-110 liner from 12,395' to 18,095'
Cmt'd w/935 sx

DV tool @ 18,598'-18,598'
ACP @ 18,605'-18,618'

8" Hole
5" 18# P-110 liner from 17,899' to 18,635'
Cmt'd w/360 sx

6" Open Hole (1,699') from 18,635' to 20,335'
Devonian, Fusselman, Montoya Formations

8-1/2" x 3-1/2" crossover at -12,300'

Tubing:
5-1/2" 17# P-110 JFE Bear x 3-1/2" 9.2# P-110
NU x 3-1/2" 9.2# P-110 F.J. fiberglass lined tubing

Wellbore Fluid:
Treated and inhibited 2% KCL water

3-1/2" x 2-7/8" crossover at -18,580'

Weatherford Ultraseal Seal Bore Packer @ 18,631' (11/24/15)
6" 2-7/8" pup
RN nipple, w/ (2.010" ID) no go @ 18,538'
1, 31' Jt-2-7/8", W/L guide. EOT @ 18,620'