

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dcp.wv.gov

Friday, June 26, 2020 WELL WORK PLUGGING PERMIT Vertical Plugging

WACO OIL & GAS CO., INC. **POST OFFICE BOX 397** 

GLENVILLE, WV 263510397

Re:

Permit approval for SPEIDEL 1 47-013-04394-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

> James A. Martin Chief

Operator's Well Number: SPEIDEL 1

Farm Name: COOPER, JR, HENRY W.

U.S. WELL NUMBER: 47-013-04394-00-00

Vertical Plugging

Date Issued: 6/26/2020

Promoting a healthy environment.

## **PERMIT CONDITIONS**

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **CONDITIONS**

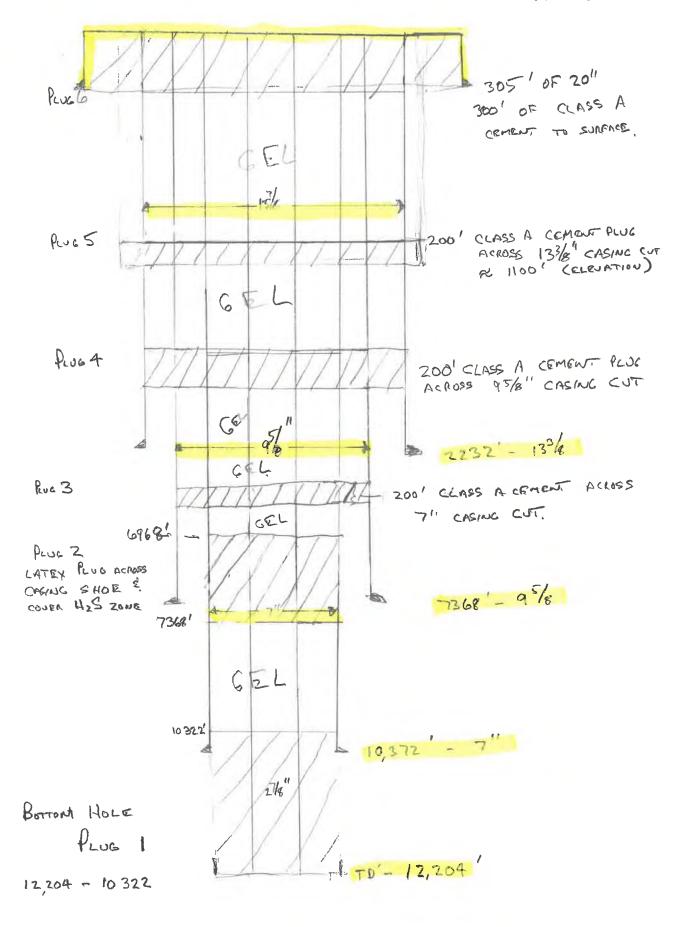
- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1)Date June 12	,	20 20	
2)Operator's			-
Well No. Speidel No. 1			
3) API Well No. 47-013		- 04394	

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

5) Location: Elevation 1118'	Watershed Road Fork
District Sherman	County Calhoun Quadrangle Grantsville 7.5'
6) Well Operator Waco Oil & Gas Co., Inc.	7) Designated Agent Stephen E Holloway
Address P.O. Box 397	Address P.O. Box 397
Glenville, WV 26351	Glenville, WV 26351
8) Oil and Gas Inspector to be notified $$\operatorname{\textsc{Name}}$\mathbf{Doug}\ \mathbf{Newlin}$$	9) Plugging Contractor  Name Boss Cementing Services
Address douglas.c.newlin@wv.gov	Address 670 US-41
	Henderson, KY 42420
Set bottom hole plug from TD to 50' up Ineide 7", three point or bond log 7" and cut. Set cement plug 50' below and 50' above 7'  THOUSE 27's 1. SET BOTTOM HOLE PLUG  OR 2. SET 400' LATEX PLUG F  SE TO COURRING H2 S ZONE.	FROM 12,204'(TD) TO 10,322!  FROM 7368' (CASING SHOE) TO 6968'
Set bottom hole plug from TD to 50' up Innide 7", three point or bond log 7" and out. Set cament plug 50' below and 50' above 7"  FROME 276" 1. SET BOTTOM HOLE PLUG  OR 2. SET 400' LATEX PLUG F  SE TO CONERING H2S ZONE.  FRENCH 3. SET ZOO' CLASS A  FROMENT 95/8" AND  ACROSS 95/8" CNSING	Tout point. Three point or bond log 9 5/8" and set coment plug 50" below and 50" above 9 5/8" cut point. Set elevation plug and set 300" top plug  FROM 12, 204'(TD) TO 10, 322!  FROM 7368' (CASALC SHOE) TO 6968'  CEMENT PLUG AGROSS 7' CASING CUT  SET 200' CLASS A CEMENT PLUG  CUT
Set bottom hole plug from TD to 50' up Inalde 7", three point or bond log 7" and out. Set cament plug 50' below and 50' above 7"  THOUR 27's ! SET BOTTOM HOLE PLUG OR 2. SET 400' LATEX PLUG F SE TO COVERING H2S ZONE.  THROUGH.  4. FREEPOINT 95/8 ! ANS ACROSS 95/6 ! CNSING	TOUR PLUC ACROSS 133/6 CASING PLUC FROM 300' TO SURFACINECE OF Oil and
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Set bottom hole plug from TD to 50" up Inside 7". three point or bond log 7" and cut. Set coment plug 50" below and 50" above 7"  FROME 278" 1. SET BOTTOM HOLE PLUG  OR 2. SET 400" LATEX PLUG P  SE TO CONERING 142 S ZONE.  SET 200" CLASS A  THROUGH.  4. FREEPOINT 95/8" ANS  ACROSS 95/8" CNSING  OINT 13/6"- 5. SET 200" CLASS A  CONERING  ON 13/6"- 5. SET 200" CLASS A  CONERING  ON 13/6"- 5. SET 200" CLASS A  CONERING  ON 13/6"- 5. SET 200" CLASS A  CONERING	To point. Three point or bond log 9 5/8" and set cement plug 50' below and 50' above 9 5/8" cut point. Set elevation plug and set 300' top plug  FROM 12, 204'(TA) TO 10, 322!  FROM 7368' (CASALC SHOE) TO 6968'  CEMENT PLUG AGROSS 7'' CASING CUT  SET 200' CLASS A CEMENT PLUG  CUT.  CEMENT PLUG AGROSS 133/6 CASING  RECEIVED  TO SURFACTICE OF Oil and  JUN 16 20



## McLaughlin, Jeffrey W

From:

Buddy Wylie <Buddy.Wylie@cabotog.com>

Sent:

Wednesday, June 17, 2020 12:18 PM

To:

McLaughlin, Jeffrey W

Cc:

Buddy Wylie

Subject:

reply RE: Speidel 1

Attachments:

4701304394cbl1.tif; 4701304394cbl2.tif

Jeff,

Hope this info helps. Tried to capture casing sets and shoe tests.

Enjoyed speaking with you.

Best Regards,

Buddy

## Well History by API Number

26-Aug-13

Region Name: West Virginia

Well Name: SPEIDEL #1 API

Operator: Cabot Oil & Gas Corporation AFE Number: 415!

Project Type: 1-EXP DR

<u>09/20/2001</u> Current Depth: <u>7,070</u> Daily Cost: \$14,478 AFE Cost

Current Status: Cleaning hole and drilling

When reaming down last 3 joints started picking up H2S that had been laying in bottom of hole and c Pulled tube and had 1200 ppm H2S. After getting back to drilling new hole, with air on hole, pulled a catcher that showed 40 ppm H2S. One hour later pulled another tube at sample catcher, with air on ppm. Can smell H2S on location but not at foot of hill where location road starts. Serviced rig and ai compressor on rig motor, change oil etc. TIH to 6796'. Ream 12 1/4" hole to bottom. Cleaned hole, he connection, Bad seal on motor turned out to be an air compressor with a cracked housing, replaced, out of hole in good shape. Bit cam out of hole 3/16" under gauge and had 6 buttons missing. Survey

<u>09/21/2001</u> Current Depth: 7,193 Daily Cost: \$14,478 AFE Cost

Current Status: Cleaning hole, working string.

Cleaned hole - had 15' fill-up on connection. Drilled 12-1/4" hole. Serviced rig and air. Survey @i Worked string. Hole will circulate air, but can't move or rotate string. Circulated hole. Mixed FW b string. Mixed SW soap and waited on circulation. Note: While servicing rig, the salt which was jus flowed into hole hanging bit even though air was always on the hole. After being unable to get free by decided to go to soap with a FW base to wash away salt. After getting unstuck, went to a SW based into hole when string is picked up. Continuously working string up and down. Hole is cleaning all right string is picked up more salt flows into hole. Currently mixing 1/2 and 1/2 SW and FW trying to disso away./// Soap mix contains 1 1/2 gal. FSF 1800, 1/2 bag Soda Ash, 6 bags KCl, 2 gal. HD Soap to 20

<u>09/22/2001</u> Current Depth: 7,255 Daily Cost: \$24,027 AFE Cost Current Status: Cleaning hole and circulating fill out of hole.

Clean hole and work string while increasing soap concentration. Serviced rig and air and held safety 12 1/4" hole. Short trip 5 joints. Circulate back down thru fill cleaning out hole. Gas check 8-10 ppm F

09/23/2001 Current Depth: 7,476 Daily Cost: \$20,068 AFE Cost TIH to bottom to check for fill up, mixing 150 bbl pill to hold salt an

Samples have not shown any salt or anhydrate cavings since short trip and clean out. Samples hav Devonian shale cavings either. Have had no trouble making connections and have had no fill up on c cleaning hole at TD, had 20,000# drag coming up off bottom. Lost drag after pulling 5 1/2 stands. TD 7476' KB. Stratagraph went on stand at 3:00 am on 9-23-01. Ace Tank hauled 6 loads of brine wate mechanic test ran V-12 mud pump motor. Put Franks Casing Crew tools on location. Gas check 8-10

<u>09/24/2001</u> Current Depth: 7,476 Daily Cost: \$27,953 AFE Cost Current Status: Running 9 5/8" casing

Circulated hole to bottom cleaning out fill and set pill. TOH and lay down drill collars. Serviced rig and Casing Crew. Running 9 5/8" casing. Set 150 bbl "Pill" from 7476'-6447' across salt to keep it from call last 900' +/- of 9 5/8" casing. Pill has a brine base with 3% KCl, salt gel and viscosifier. Viscosity +/- 2 pill, had no more than the normal, 10,000# of drag. Had to lay down 3 joints of 9 5/8" casing that we pin end. Threads were damaged trying to make up the joints. Pipe is threaded slightly off center. Gas

Region Name: West Virginia

Well Name: SPEIDEL #1 API N

Operator: Cabot Oil & Gas Corporation AFE Number: 4159!

Project Type: 1-EXP DRIL

<u>09/26/2001</u> Current Depth: 7,476 Daily Cost: \$62,954 AFE Cost to

Current Status: Nippling up 5000# BOP stack.

WOC. Cement 2nd stage on 9 5/8" csg. WOC. Cut off 9 5/8" csg. Nippled down. Made final cut on 9 5/cut, install 9X7 wellhead spool. Pressure tested 9X7 spool to 5000 lb. Test held. NU 11" X 5000 lb s Cement job: At 11;45 am removed plug container, dropped "bomb", reloaded plug container and insta container. Opened stage tool. Establish circ and cement as follows: 10 bbl FW, 10 bbl CW-100, 10 bb Class A w/ 6% gel and 0.25% dispersant. Drop plug and displace w/ 277 bbl FW. Close DV tool w/15 hand on location during job. Hole did not circulate, could feel some air movement out of annulus during

09/27/2001 Current Depth: 7,476 Daily Cost: \$16,518 AFE Cost to Current Status: Prep to TIH and drill out DV tool.

Nippled up on BOP stack. Tested accumulator and remote control. RU choke assembly. Tested Bill Laid flow line while WO BOP door gasket. Performed lowe pressure test on BOP stack to 325 psi, for pressure tested to 4000 psi. Choke manifold, pipe rams, blind rams, HCR valve, annular, and manua BOP stack. All were tested for 15 minutes. All held after replacing door gasket and 1/2" allen screws

<u>09/28/2001</u> Current Depth: 7,476 Daily Cost: \$11,380 AFE Cost to Current Status: RU Baker Atlas prep to log.

NU flow line. Take link out of rotary chain, change il in rotary chain. RU drill collar and TIH. Put in air hiblow water. TIH blowing water. Put soap on hole and circulate hole. Drill DV tool. Ream through where deburr it. Clean hole. Load hole. TOH half way. Load hole. TOH.

<u>09/29/2001</u> Current Depth: 7,476 Daily Cost: \$24,271 AFE Cost to Current Status: Drilling wiper plug, insert, and shoe.

TOH. RU Baker Atlas Wireline, Run Segmented Bond Log, RD. Serviced rig and air. TIH Blowing w Drilling wiper plug. Ran Segmented Bond Log from 7240' to 2200'. LTD 7240'. TOC 3560'. Est TOC 2 60 bond from 7240 to 7140 and 3250 to 3450'. Rest of hole had 50% bond. Set down with Drill bit at 728 was swapped out, new survey machine not working yet.

<u>09/30/2001</u> Current Depth: 7,519 Daily Cost: \$14,163 AFE Cost to Current Status: TIH.

Drilled cement, insert, cement, and guide shoe. Drilled 12" new hole. Dried hole. Drilled 8-1/2" hole 1 1/4" N35W. TOH. PU 8 1/2" Hammer bit and weld on bit breaker. TIH. Serviced rig and air. Botto follows: 8 1/2" hammer bit, Hammer, Bit float sub w/ rupture disc, disc set to rupture at 3250 psi., Crow

10/01/2001 Current Depth: 7,705 Daily Cost: \$12,400 AFE Cost to Current Status: Waiting on mechanic.

Taking surveys 30' off bottom. /// After survey at 7665', #2 rig motor started blowing oil out of breat not make connections without both rig motors. Currently, waiting on mechanic and keeping 2 compres booster on the hole. When drilling, UDI is only using one rig motor to rotate with. Backed off down ho lost 33,000 lb of string weight. Screwed back in collars and continued drilling. Have 2 1/2 turns of torqu

10/02/2001 Current Depth: 7,845 Daily Cost: \$13,900 AFE Cost to

Current Status: Drilling 8-1/2" hole.

Region Name: West Virginia

Well Name: SPEIDEL #1

Name: SPEIDEL #1 API N

Operator: Cabot Oil & Gas Corporation AFE Number: 4159

 09/26/2001
 Current Depth:
 7,476
 Daily Cost:
 \$62,954
 AFE Cost to

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10/02/2001 Current Depth: 7,845 Daily Cost: \$13,900 AFE Cost to

Current Status: Drilling 8-1/2" hole.

10/24/2001 Current Depth: 10,385 Daily Cost: \$23,832 AFE Cost to I

Current Status: Waiting on Sclumberger

Service rig and mud pump. Cleaned hole and ran sweeps with rapid mud. Short trip 10 stands out of hol circulate hole. Mix 260 bbl pill for open hole. NOTE: Due to size of bottom hole pill could not mix pill in pi use the entire 360 bbl mud pit with the mixing hopper on it. Spot pill. TOH chaining out and laying down wet connect. TOH laying down DP. TOH laying down DC and Mud Motor. Additional mud info: pH-11.0; 184,000; KCl-3.8%; Pump rate-100 strokes (8.7 BPM). NOTE: Held over Daylights and Evening tours to down drill pipe. Surveys: 10219' Inc.-10.2 deg Azi-224.0 / 10251' Inc.10.5 deg. Azi-239.3 / 10283' Inc-11 10315' Inc-11.9 deg. Azi-265.5 / 10346' Inc.-11.9 deg. Azi-278.3 / PROJECTION to 10386' Inc.12.0 deg.

10/25/2001 Current Depth: 10,385 Daily Cost: \$51,882 AFE Cost to I Current Status: Running 7" casing.

Wait on Schlumberger. RU and ran GR/Density/Neutron/Pe/Sonic/Directional/TVD/FMS. RD. Ran 7:4 lb/ft, M-95/P-110, 7" CSG.RU Frank's Casing Crew. Surveys: 10219' Inc.-10.2 deg Azi-224.0 / 10251' 239.3 / 10283' Inc-11.3 deg. Azi-254.4 / 10315' Inc-11.9 deg. Azi-265.5 / 10346' Inc.-11.9 deg. Azi-278.3

10/26/2001 Current Depth: 10,385 Daily Cost: \$214,380 AFE Cost to I Current Status: WOC until 4:30 AM.

Ran 248 joints; 10,375.95'; M-95/P-110; 26 lb/ft; 7" csg. Set at 10,372' KB. Insert at 10,328.85' KB. S KB when running casing. Decided to set it at 10,372' KB. Set 7" in slips. RD Frank' Casing Crew. Rt cemented 7" csg. with 50 bbl FW, 30 bbl CW-100, 25 bbl FW, 515 sx 35/65 Poz-mix, 150 sx Class H, an w/latex. Displaced w/406 bbl FW. Calc displacement 396 bbl. Plug down at 4:30 AM 10-26-01. Hole after 48 bbl FW were pumped ahead of the CW-100.WO cement.

10/27/2001 Current Depth: 10,385 Daily Cost: \$52,625 AFE Cost to I Current Status: Prep to cut 7" casing, install 7x4 well head, and NU 10,000# BOP state Dowell's lab tests showed compressive strength in 8 hrs of 600/700 psi in 8 hrs and 1250/1350 psi in 24 seeing very poor to no bond in 12 hrs on log, decided to wait to 24 hrs and relog bottom 1000'. Log shows improvement. 4:30 PM RU Atlas wireline and bond log 7" casing. 10:00 PM WOC. Hauled pipe tubs with off location and stacked out to make room for Weatherford Underbalanced equipment and 3 1/2" drill pip portion of hole. Hauled in part of Weatherfords equipment. 4:30 AM Bond log and RD Atlas.

Current Status: Current Depth: Waiting on Sclumberger 10,385 Daily Cost AFE Cost to Date:

wet connect. TOH laying down DP. TOH laying down DC and Mud Motor. Additional mud info: pH-11.0; Chlorides-184,000; KCI-3.8%; Pump rate-100 strokes (8.7 BPM). NOTE: Held over Daylights and Evening tours to mix pill and lay 10315' Inc-11.9 deg. Azi-265.5 / 10346' Inc.-11.9 deg. Azi-278.3 / PROJECTION to 10386' Inc. 12.0 deg. Azi-291.0 down drill pipe. Surveys: 10219' Inc.-10.2 deg Azi-224.0 / 10251' Inc.10.5 deg. Azi-239.3 / 10283' Inc-11.3 deg. Azi-254.4 / use the entire 360 bbl mud pit with the mixing hopper on it. Spot pill. TOH chaining out and laying down 4 1/2" DP. Pull circulate hole. Mix 260 bbl pill for open hole. NOTE: Due to size of bottom hole pill could not mix pill in pill tank. Had to Service rig and mud pump. Cleaned hole and ran sweeps with rapid mud. Short trip 10 stands out of hole hole. TIH and

Current Status: Running 7" casing. Current Depth: 10,385 Daily Cost: \$51,882 AFE Cost to Date: \$1,785,616

239.3 / 10283' Inc-11.3 deg. Azi-254.4 / 10315' Inc-11.9 deg. Azi-265.5 / 10346' Inc.-11.9 deg. Azi-278.3 / PROJECTION to Wait on Schlumberger. RU and ran GR/Density/Neutron/Pe/Sonic/Directional/TVD/FMS. RD. Ran 7: casing. Running 26 lb/ft, M-95/P-110, 7" CSG.RU Frank's Casing Crew. Surveys: 10219' Inc.-10.2 deg Azi-224.0 / 10251' Inc.10.5 deg. Azi-

Current Status: Current Depth: WOC until 4:30 AM. 10,385 Daily Cost: \$214,380 AFE Cost to Date: \$1,999,996

after 48 bbl FW were pumped ahead of the CW-100.WO cement. cemented 7" csg. with 50 bbl FW, 30 bbl CW-100, 25 bbl FW, 515 sx 35/65 Poz-mix, 150 sx Class H, and 150 sx Class H KB when running casing. Decided to set it at 10,372' KB. Set 7" in slips. RD Frank' Casing Crew. RU Dowell and Ran 248 joints; 10,375.95'; M-95/P-110; 26 lb/ft; 7" csg. w/latex\_Displaced w/406 bbl FW. Calc displacement 396 bbl. Plug down at 4:30 AM 10-26-01. Hole circulated fluid Set at 10,372' KB. Insert at 10,328.85' KB. Set down at 10,375'

Current Status: Prep to cut 7" casing, install 7x4 well head, and NU 10,000# BOP stack. Current Depth: 10,385 Daily Cost: \$52,625 AFE Cost to Date \$2,052,621

portion of hole. Hauled in part of Weatherfords equipment. 4:30 AM Bond log and RD Atlas. off location and stacked out to make room for Weatherford Underbalanced equipment and 3 1/2" drill pipe for 6 1/4" improvement. 4:30 PM RU Atlas wireline and bond log 7" casing. 10:00 PM WOC. Hauled pipe tubs with 4 1/2" drill pipe seeing very poor to no bond in 12 hrs on log, decided to wait to 24 hrs and relog bottom 1000'. Log showed good Dowell's lab tests showed compressive strength in 8 hrs of 600/700 psi in 8 hrs and 1250/1350 psi in 24 hrs. After

Project Type:

1-EXP DRILL 11/09/2001 Current Depth: 10,437 Daily Cost: \$30.457 AFE Cost to

Sliding **Current Status:** 

6 AM Serviced rig and mud pump. 6:30 PM TIH. 8:45 AM BOP drill. 9:00 AM TIH. 3:00 PM Circulate ho sub. 4:00 PM Set wet connect @ 10,315'. 6:00 PM Wash to bottom. 7:00 PM Safety meeting with Weat Drilling 6 1/4" hole with motor. 10:00 PM Sliding and rotating. 3:00 AM Service rog and mud pump. 3:30 rotating. When laying flow line up on pit wall it jumped a collar due to the bind it was in. Had to weld a line. Set Nemsco mud plant to begin mixing weighted pill. CASING TEST - tested 7" casing to 3031 p Tested shoe to 1754 psi and held for 15 min. After 15 min pressure had bled off to 1722 psi. Decided to 2000 psi. Put 2005 psi on hole and held for 15 min. After 15 min pressure had bled off to 1987 psi. Calle String weight 132,000#, HOB 7, Stand pipe pressure 1800 psi, Strokes per min 100, Survey @ 10,383

Current Depth: 11/10/2001 10,515 Daily Cost: \$86,434 AFE Cost to Slidina. **Current Status:** 

6:00 AM Sliding. 8:30 AM Worked on pressure sensor leak. 10:30 AM Sliding. 11:15 AM BOP Drill. 11:5 PM BOP drill. 3:00 PM Sliding. 11:15 PM BOP drill. 11:30 PM Sliding and rotated from 10,487 to 10.51: costs for the BOP equipment rental from Weatherford (\$39,174). String weight 115,000#, HOB 26 1/2, 5 pressure 1650-1850 psi, Strokes per min 100, Drag 10-15K.

11/11/2001 Current Depth: 10.547 Daily Cost: \$48,315 AFE Cost to Prep to PU new motor. Current Status:

6:00 AM Sliding. 8:45 AM Put Duplex pump on hole and work on triplex. 10:00 AM Sliding. 1:45 PM Wo 2:30 PM Sliding, 7:30 PM Clean hole and fill trip tank, 8:15 PM TOH for bit/motor, 8:30 PM Pull wet con 10:30 PM TOH for bit/motor. 4:30 AM Break bit. 5:00 AM Examine motor and lay down motor. NOTE: D and was getting worse as the day went on. Directional Driller thought bit was bad. Decided to TOH for t ever was bad. Motor had 3/4" of play up and down in the bearings and 3/8" of play side to side. Bit was a new bit on the new motor to avoid a bit trip in 20 hours or so of drilling with new motor. String weight 1

A. S. 'Buddy' Wylie, Ph.D., P.G. Manager, Exploration-North Cabot Oil & Gas Corporation 2000 Park Lane Drive, Suite 300 Pittsburgh, PA 15275-1121

Direct: 412/249-3930 Main: 412/249-3850

From: McLaughlin, Jeffrey W < Jeffrey.W.McLaughlin@wv.gov>

Sent: Wednesday, June 17, 2020 11:51 AM To: Buddy Wylie <Buddy.Wylie@cabotog.com>

Subject: [EXTERNAL] Speidel 1

Buddy,

#### **Drill Stem Test Procedure**

TIH w/DP, RTTS tool, and circulating valve. Set rotating head and picked up 3 joints DP. RU to flow test well. Set RTTS packer, opened circulating valve, circulated 5 bbl FW, 25 bbl Gel, and 73 bbl FW. Before fluid was completely displaced a Drill Pin change over sub started leaking in the threads. Reverse circulated 12.8 lb/gal mud back to surface and killed well. Installed new TIW valve that did not need change over subs. Unseated RTTS packer. Decided to leave well with pressure sensors on DP and annulus overnight to monitor pressures and SD till daylight. Did not want to leave 2700 psi at surface overnight. Loaded hole with 12.8 lb/gal mud. RD Dowell and install TTW valve. Monitored DP and Annular pressure. Will resume Operations at daylight.

Record DP pressure. Prep to reset packer and test well. Circulate FW to clean off packer. Set RTTS packer and open circulating tool. Pump circulated FW down to circulating tool at 10280'. Chain down DP and RU to flow test. Open well to separator and flow well. SI DP and let pressure build up. Open well to separator. SI DP for 1/2 to 1 1/2 hrs and then flow well. Total fluid recovered 23.5 bbl. SI DP for build up. NOTE: Set RTTS packer, Open circulating valve, Circulated 5 bbl FW, 25 bbl Gel, and 73 bbl FW. Attempting to get well to flow back to separator. Have been shutting in well to let pressure build up and then opening well to let flow. Have been shutting in for 1 1/2 to 4 hours at a time to let pressure build up and then flowing well. Pressure has varied from 160 to 350 psi depending on time shut in. Recovering 0.0 to 2.0 bbl of fluid at a time. Recovered 6.0 bbl of fluid in last 24 hours.

Cleaned mud and barite out of bottom of hole with coil tbg. At bottom of Drill Pipe picked up 1.4 MM of gas for a short time till the pressure above the tail pipe bled off, it then flowed at about 400mcf/d till half way out of the hole when it died. RD coil tbg unit. Opened well to pit. Well flowed a 1/2" to a 1" stream of FW till 8:00 PM when the well began flowing dry gas. Had a 15' flare for 30 minutes and then it started slowly decreasing to a 5' flare by report time.

Clean mud pits and mud plant. Flare well. Work Drill string, attempting to open ports on circulating tool. Open Drill Pipe to pit thru choke and flare.9:30 AM; Took open flow w/digital manometer. Read 56 mcf/d. Put gas back to pit to flare it. Worked Drill string trying to get ports on circulating tool to open. Pulled up to 225K on string and moved it up hole 7'-8'. Got string to go back down to starting point circulating valve never did open. Believe differential pressure keeping circulating valve from opening. Mud system down to clean pits. Called Dowell to pump on drill string.

Clean mud pits. Flare well.9:30 AM; Circulate mud in 210 bbl tanks and RU mud system. WO 10,000 lb Hammer Union iron. Reconfigure 10,000 lb line to choke manifold. RU and pressure test lines to 8,600 psi. Spot 60 bbl 12.4 lb mud and 60 bbl 10.2 lb brine down DP. Work Drill string to release RTTS packer. Worked 10 up hole. RU Dowell and pressured up to 2700 psi. Could not move fluid. Work Drill string to release RTTS packer. Worked another 10 up hole.

Pressured up on drill string to equalize pressure at circulating valve and packer to help release either. Worked string with pressure on it to get circulating valve open or to release packer. After circulating valve opened pumped 200 bbl of mud out of hole to pits and the rest of fluid to the pits. Released packer and worked it up and down the hole to free it up. Once packer freed up it pulled easily. When packer got on the floor the two rubber elements were worn badly and on top of the packer.



WR-35

Date: May 13, 2002 API# 47-013-04394

Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

Farm name:

Henry Cooper

Operator Well No.:

Speidel #1

LOCATION:

1118' Quadrangle:

Grantsville

Elevation: District:

Sherman

County:

Calhoun MIN.

MIN.

0" SEC.

Latitude: Longitude: 1380' 410'

feet South of feet West of

38° DEG. 81° DEG. 57' 2'

30"

SEC.

Company: Cabot Oil & Gas Corporation

900 Lee Street East, Suite 500

Charleston, WV 25301

Agent:	Thomas S. Liberatore
Inspector:	Ed Gainer
Permit Issued:	3/22/01
Well Work Commenced:	3/29/01
Well Work Completed:	2/11/02
Verbal Plugging Permission granted on:	
Rotary X Cable	
Total Depth (feet)	12,204
Fresh Water Depths (ft)	745'
Salt Water Depths (ft)	
Is coal being mined in area	a (Y / N)? N
Coal Depths (ft)	

Casing	Used	Left	Cement
& Tubing Size	in Drilling	in Well	Fill up Cu. Ft.
30"	37'	37'	l cu yd
20"	305'	305'	630 sks
13 3/8"	2,232'	2,232'	1270 sks
9-5/8"	7,368'	7,368'	780 sks
DV tool on 9-	5/8" @ 3524'-3	521'	370 sks
7"	10,372'	10,372'	815 sks
2 7/8"		11,7.5	RECEIVED fice of Oil A Gas

OPEN FLOW DATA

Pay zone depth

psig (surface pressure after

N/A

WV Department of **Environmental Protection** 

NOV 2 1 2002

Producing formation

N.A

MCF/d

(ft) Oil: Initial open flow

Gas: Initial open flow

N/A

N/A

N/A Bbl/d RECEIVED
Office of Oil and Gas

Final open flow Time of open flow between initial and final tests

N/A MCF/d Final open flow

N/A N/A

N/A

JUN 16 2020 Bbl/d Hours WV Department of Environmental Protection Hours

Second producing

Static rock pressure

Pay zone depth

H2S smell 7070' (40 ppm) DV tool @ 3523' to 3521'

Open Hole Fraced with 14,580 gallons 28% HCl

FORMATION	TOP	воттом	REMARKS
SILT/SAND	0	1050	
SALT SAND	1050	1500	
SILT/SAND	1500	1770	
MAXTON	1770	1920	OIL @ 1880,-1886,
LITTLE LIME	1920	1950	0
GREENBRIER			
LEMESTONE	1950	2135	OIL @ 2080.
SANDSTONE	2135	2450	_
UPPER DEVONIAN	2450	6200	OIL @ 2650', 3010'
ONONDAGA			
LIMESTONE	6200	6405	
ORISKANY	6405	6460	
HELDERBERG	6460	6890	
SALINA	6890	7700	1128 @ 7070'
NEWBURG	7700	7710	
McKENZIE	7710	8130	
KEEFER	8130	8160	
UPPER ROSE HILL	8160	8480	
CLINTON IRON ORE	8480	8500	
LOWER ROSE HILL	8500	8680	
TUSCARORA	8680	8815	HECEIVED
JUNIATA SHALE	8815	9615	Office of Oli & Gas Permitting
MARTINSBURG SHALE	9615	11850	0 4 0000
TRENTON	11850	11215	NOV 2 1 2002
BLACK RIVER	11215	11710	WV Department of
CHAZY LIMESTONE	11710	12011'	Environmental Protection

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Office of Oil and Gas

JUN 16 2020

WV Department of Environmental Protection



### Cabot Oil & Gas Corporation

## RECEIVED

OCT 2.2 2001

WV Oil and Gas Conservation Commission

State of West Virginia
Oil & Gas Conservation Commission
1356 Hansford Street
Charleston, WV 25301

17 October, 2001

RE:

Cabot Oil & Gas Corporation Well - Speidel #1

API # 47-013-04394 (Deep Well)

Calhoun County

Dear Sirs:

This letter is to inform the "Commission" that Cabot Oil & Gas Corporation will be using a downhole directional motor to drill a section of the Speidel #1 well. The motor is being used to correct significant well bore deviation and return it to a "near vertical condition".

This well was permitted as a vertical hole but due to geological conditions the well bore is deviating significantly from the planned vertical target. Efforts have been made to time drill and change bottom hole assemblies/bits in an effort to arrest the deviation and return the well to a more vertical condition. These efforts have been unsuccessful. The down hole motor will be run to return the well bore to a near vertical condition. Directional surveys will be taken on a regular basis to monitor the location of the well bore and ensure it remains within the limits of the permit.

If the Commission needs additional information or questions answered I can be reached at 304/347-1625.

Sincerely;

Douglas Gosnell

Senior Drilling Engineer

Cabot Oil & Gas Corporation

XC:

Rod Biggs - Dominion Exploration & Production, Inc.

I. L. Morris - Waco Oil & Gas



Get Data Enter Permit #: 04394 Select County: (013) Calhoun

Reset

< Location

Owner/Completion

Pay/Show/Water Select datatypes: [ (Check All) Production
Stratigraphy
Logs Plugging
Sample
Bim Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information Disdaimer WVGES Main "Pipeline-Plus" New

Well: County = 13 Permit = 04394

Report Time: Wednesday, June 17, 2020 10:35:21 AM

WV Geological & Economic Survey:

Location Information: View Map Location Information: View Map API COUNTY PERMIT TAX\_DISTRICT QUAD\_75 QUAD\_15 LAY\_DD LON\_DD UTNE UTNN 4701304394 Calhoun 4594 Sherman . Grantsville Amoldsour 39.954649 -91.0428 496291.5 4311744.8

There is no Bottom Hole Location data for this well

Owner friormation:

Owner friormation:

Dept CMP T SUFFIX STATUS SURFACE OWNER WELL\_NUM CO\_NUM LEASE LEASE\_NUM MINERAL\_OWN OPERATOR AT COMPLETION PROP\_VD PROP\_TROT\_FM TFM\_EST\_PR

4701304394 2/11/2002 Original Loc Completed Henry W Cooper Jr

4701304394 2/11/2002 Original Loc Completed Henry W Cooper Jr

Completion Information:
Completion Information
Completion
Comple RIG CMP MTHD TVD TMD NEW FTG KOD G\_BEF G\_AFT O\_BEF O\_AFT NGL\_BEF NGL\_AFT P\_BEF TLBEF P\_AFT TLAFT BH\_P\_BEI 1 Robay Add+Frac 12204

Pay/Show/Water Information:
API CMP DT ACTIVITY
4701304394 2/11/2002 Water F
4701304394 2/11/2002 Show 0
4701304394 2/11/2002 Show 0
4701304394 2/11/2002 Water F
4701304394 2/11/2002 Dvy P Fresh Water Oil Oil Oil Sulfur Gas None PRODUCT SECTION DEPTH\_TOP FM\_TOP

Tresh Water Vertical 1880 Maxton

The product of the product o 1880 Maxton 2650 Price Fm & equivs DEPTH\_BOT\_FM\_BOT 745 Pennsylvanian System 186 Maxton 2080 Big Lime 2080 Big Lime 3010 UDev undr.Ber/LoHURN 7070 Saltna 11710 Black River Group G\_BEF G\_AFT O\_BEF O\_AFT WATER\_ONTY

Production Gas Information: (Volumes in Mdf) \* 2019 data for HSA wells only. Other wells are incomplete at this production of the method of th

There is no Production NGL data for this well \*\* some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API SUFFIX FM

56

NEWBURG

4701304394 Original Loc Newburg WA 4701304394 Original Loc Markton WA 4701304394 Original Loc Little Linne WA 4701304394 Original Loc Little Linne WA 4701304394 Original Loc Big Linne 4701304394 Original Loc Oriondaga Lis WA 4701304394 Original Loc Oriondaga Lis WA 4701304394 Original Loc Mekenzie Fin WA 4701304394 Original Loc Mekenzie Fin WA 4701304394 Original Loc Keetier Sis 4701304394 Original Loc Traces Hill Fin WA 4701304394 Original Loc Trace Hill Fin WA 4701304394 Original Loc Unitatis Fin WA 4701304394 Original Loc Markinsburg Fin WA 4701304394 Original Loc Drazy Lis WA 4701304394 Original Loc Chazy Lis WA 4701304394 Original Loc Markinsburg Fin WA 4701304394 Original Loc Trenton Group WA 4701304394 Original Loc Ma Well Record
Well Record DEPTH 1,TOP 1770 1970 1950 1950 1950 6200 6200 6405 6460 6480 6890 7710 8130 8160 8150 8815 
 TOP DEPTH\_QUALITY THICKNESS\_THICKNESS\_QUALITY ELETY?
 THICKNESS\_THICKNESS\_QUALITY ELETY?

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 11

 17/0 Ressonable
 11

 17/10 Ressonable
 11

 17/10 Ressonable
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 1930 Reasonable
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 2405 Reasonable
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 250 Reasonable
 30 Reasonable
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 1930 Reasonable
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 1930 Reasonable
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 1940 Reasonable
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 1950 Reasonable
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 11
 </tr Y ELBY DATUM

| 118 Ground Level | 119 Ground Level SHOULD

Wireline (E-Log) Information:

API LOG TOP LOG BOT DEEPEST\_FML LOGS AVAIL SCAN DIGITIZED GR\_TOP GR. BOT D. TOP D. BOT N. TOP N. BOT L. TOP T. BOT S. TOP S. BOT O. TOP O. BOT INCHZ INCHS REDUCED KOP LOGMD ELEV, KB. ELEV, GL. ELEV, DF. LOG\_MSRD\_FROM 1701304394

2 17203 Y Y N. 1135 1118 1135 1139

Comment: \*Togs: caliper, tension, PE, den. por. & corr., delta rho, laterolog & QC, bit size, delta t shear & comp. SPHI, peak coherence, AMP, TT, directional survey, cement bond log, micro imager, HHLS, HHLD.

There is no Wireline (E-Log) images available for download

There is no Plugging data for this well

There is no Sample data for this well

4394

WW-4A Revised 6-07

1) Date: June 12, 2020 2) Operator's Well Number Speidel No 1 3) API Well No.: 47 -013

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

/_\		ner(s) to be served:	5) (	a) Coal Operator	
, ,	Name dress	Terry and Karen Shreve 1584 Road Fk Rd		- Name	N/A
Aut	aress	Grantsville, WV 26147		Address	1
(h)	Name	Grandsville, VVV 20147		- (h) Cr-1 O	(-) '(1 D 1 )'
	dress	-		Name	ner(s) with Declaration
2 200	21000	-		- Address	NA
				Address	
(c)	Name			Name	
Ado	dress			Address	
		-		-	
6) Insp	ector	Doug Newlin		(c) Coal Less	see with Declaration
-	ress	douglas.c.Newlin@wv.gov		Name	N/A
				Address	
771.1	phone	1-304-932-8049		_	
			ABOVE: You	u should have recei	ved this Form and the following documents:
	(1) The a well i (2) The p The reason However, you	RSONS NAMED  application to Plug and Ab ts and the plugging work of lat (surveyor's map) showing you received these documents out are not required to take any that under Chapter 22-6 of the ng documents for a permit to p	andon a Well on Forder; and ng the well location is that you have riginaction at all.  West Virginia Code blug and abandon a very serior of the code o	Form WW-4B, which so on Form WW-6.  This regarding the applicate, the undersigned well of well with the Chief of the	sets out the parties involved in the work and describes the tion which are summarized in the instructions on the reverses side.  perator proposes to file or has filed this Notice and Application and Office of Oil and Gas. West Virginia Department of Environmental
	(1) The a well i (2) The p The reason However, you Take notice accompanyi Protection, the Applica	RSONS NAMED  application to Plug and Ab ts and the plugging work of the collat (surveyor's map) shows you received these documents ou are not required to take any that under Chapter 22-6 of the ng documents for a permit to g with respect to the well at the tion, and the plat have been a unstances) on or before the day	andon a Well on Forder; and ing the well location is that you have rigitation at all.  West Virginia Code blug and abandon a vilocation described or nailed by registered of mailing or delive	Form WW-4B, which so on Form WW-6.  Into regarding the applicate, the undersigned well of the in the attached Application or certified mail or delivity of the mattached of the control of the mattached mail or delivity.	sets out the parties involved in the work and describes the tion which are summarized in the instructions on the reverses side.  perator proposes to file or has filed this Notice and Application and Office of Oil and Gas, West Virginia Department of Environmental in and depicted on the attached Form WW-6. Copies of this Notice, wered by hand to the person(s) named above (or by publication in
	(1) The a well i (2) The p The reason However, you Take notice accompanyi Protection, the Applicate certain circums	RSONS NAMED  application to Plug and Ab ts and the plugging work of alat (surveyor's map) shows you received these documents ou are not required to take any that under Chapter 22-6 of the ng documents for a permit to p with respect to the well at the tion, and the plat have been r unstances) on or before the day	andon a Well on Forder; and ng the well location is that you have riginaction at all.  West Virginia Code blug and abandon a wolcation described or nailed by registered of mailing or delive	Form WW-4B, which so on Form WW-6.  Into regarding the applicate, the undersigned well of the inthe attached Application or certified mail or delivery to the Chief.	sets out the parties involved in the work and describes the tion which are summarized in the instructions on the reverses side perator proposes to file or has filed this Notice and Application and Office of Oil and Gas, West Virginia Department of Environmenta in and depicted on the attached Form WW-6. Copies of this Notice wered by hand to the person(s) named above (or by publication in

Subscribed and sworn before me this

JAMES A HAGA

1595 US Highway 33 East Glenville, WV 26351

My Commission Expires February 27, 2023

Address

Telephone

JUN 16 2020

Notary Public

WV Department of Environmental Protection

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Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

P.O. Box 397

Glenville, WV 26351

1-304-462-5347

#### SURFACE OWNER WAIVER

Operator's Well Number

Speidel No 1

#### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

#### NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

1) The proposed well work will constitute a hazard to the safety of persons.

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Office of Oil and Gas

2) The soil erosion and sediment control plan is not adequate or effective;

3) Damage would occur to publicly owned lands or resources;

JUN 16 2020

4) The proposed well work fails to protect fresh water sources or supplies:

 The proposed wen work lans to protect tresh water sources of supplies,
 The applicant has committed a substantial violation of a previous permit or a substantial violation or a permit or a permi or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

#### **VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the population to a permit being issued on those materials.	lanned wo	ork described in these mat	erials, and I have no
FOR EXECUTION BY A NATURAL PERSON ETC.	/	FOR EXECUTION B	Y A CORPORATION,
Karen Shieve Date 6/15 be	) Name		
Signature	By		
	Its	-	Date
		Signature	Date

WW-9 (5/16)

API Number 47 - 013 \_04394 Operator's Well No. 5 \_ de No. 1

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Waco Oil & Gas Co., Inc.	OP Code	306294
Watershed (HUC 10) Road Fork	Quadrangle Grantsville 7.5'	
Do you anticipate using more than 5,000 bbls of water to comple Will a pit be used? Yes No	PIT WILL BE USED	No DOWN TANK
If so, please describe anticipated pit waste: Cement w	ater from plagging.	USED TO CONTAIN
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? well	EFFLUENT.
Proposed Disposal Method For Treated Pit Wastes:		6/22/2020
Land Application (if selected provide Underground Injection (UIC Permit Reuse (at API Number Off Site Disposal (Supply form WW Other (Explain	Number 2008510142 -9 for disposal location)	SEE RMAIL
Will closed loop system be used? If so, describe:		
Drilling medium anticipated for this well (vertical and horizontal	l)? Air, freshwater, oil based, etc.	
-If oil based, what type? Synthetic, petroleum, etc		
Additives to be used in drilling medium?		
Drill cuttings disposal method? Leave in pit, landfill, removed o	ffsite, etc	RECEIVED Office of Oil and Gas
-If left in pit and plan to solidify what medium will be u	ised? (cement, lime, sawdust)	
-Landfill or offsite name/permit number?		
Permittee shall provide written notice to the Office of Oil and Ga West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	s of any load of drill cuttings or associated within 24 hours of rejection and the permittee	waste rejection at Albarat Protection shall also disclose
I certify that I understand and agree to the terms and co on April 1, 2016, by the Office of Oil and Cas of the West Virg provisions of the permit are enforceable by law. Violations of ar or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, based on me the information, I believe that the information is true, accurate submitting false information, including the possibility of fine of Company Official Signature  Company Official (Typed Name) Stephen E Holloway  Company Official Title Land Manager/Agent	inia Department of Environmental Protection by term or condition of the general permit and examined and am familiar with the information by inquiry of those individuals immediately recommend and complete am aware that there are imprisonment	n. I understand that the d/or other applicable law ation submitted on this esponsible for o btaining
Subscribed and sworn before me this /5th day of Janus Altege  My commission expires 1eb 27, 2023	, 20 20 Notary Public	

roposed Revegetation Tre	eatment: Acres Disturb	ed No disturbancepad	is rock. Preveg etation p	Н	_
		correct to pH		•	
Fertilizer type					
Fertilizer amount		lbs/acre			
Mulch		Tons/acre			
		Seed Mixtures	i		
,	<b>Temporary</b>		Perma	ment	
Seed Type	lbs/acre		Seed Type	lbs/acre	
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47-013-04-394-8

### McLaughlin, Jeffrey W

From:

Steve Holloway <steve.holloway@wacowv.com>

Sent:

Friday, June 19, 2020 8:55 AM

To:

McLaughlin, Jeffrey W

Subject:

[External] Speidel No. 1

CAUTION: External email. Do not click links or open attachments unless you verify sender.

Jeff:

I spoke with the consultant engineer at the site and he is telling me there is no plan to utilize a pit. They have a 500 bbl lay down tank on site to contain any fluid. Let me know what else you might need from me.

Thanks, Steve

Waco Oil & Gas Co., Inc.

Stephen E. Holloway Land Manager P.O. Box 397 Glenville, WV 26351

Office Phone: (304) 462-5741 Ext. 221

Fax: (304) 462-8670 Cell: (304) 678-9988

E-Mail: steve.holloway@wacowv.com

WW-9- GPP Rev. 5/16 6/22/2020 NO PIT WILL BE USED.

API Number 47 -Operator's Well No.

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS GROUNDWATER PROTECTION PLAN

Operator Name: Waco Oil & Gas Co., Inc. Watershed (HUC 10): Road Fork Quad: Grantsville 7.5' Farm Name: 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above. Pit Liner to be used. Plugging operation will not affect ground water. 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area. 2000 plus feet to nearest stream and 2500 feet plus to nearest water well. Summarize all activities at your facility that are already regulated for groundwater protection. RECEIVED Office of Oil and Gas JUN 1 6 2020 WV Department of Environmental Protection

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

ww	-9-	GPP
Rev.	5/1	6

NO PAT WILL BE USED.
6/22/2020 gaven

Page of 7
API Number 47 - 013 - 04394
Operator's Well No.

Duo	14			
TOV	ide a statem	ent that no waste mate	erial will be used for deicir	ng or fill material on the property.
Des	cribe the gro	undwater protection on how to prevent g	instruction and training to roundwater contamination.	o be provided to the employees. Job procedures sha
UUV				
orov.				

Signature:

Date: 6-12-2020



WW-7 8-30-06



## West Virginia Department of Environmental Protection Office of Oil and Gas

## WELL LOCATION FORM: GPS

<sub>API:</sub> 47-013-04394	WELL NO.: Speidel No 1
FARM NAME: Terry and Karen S	
RESPONSIBLE PARTY NAME: Waco	Oil & Gas Co., Inc.
COUNTY: Calhoun	DISTRICT: Sherman
QUADRANGLE: Grantsville 7.5'	
SURFACE OWNER: Terry and Kare	en Shreeve
ROYALTY OWNER: Joe Speidel III	
UTM GPS NORTHING: 43 11736 N 911,723	
UTM GPS NORTHING: 911,723 496 271 € UTM GPS EASTING: 498 77 21	GPS ELEVATION: 1118
The Responsible Party named above has chosen preparing a new well location plat for a plugging above well. The Office of Oil and Gas will not a the following requirements:  1. Datum: NAD 1983, Zone: 17 North, height above mean sea level (MSL) –  2. Accuracy to Datum – 3.05 meters  3. Data Collection Method: Survey grade GPS: Post Processed Difference of the p	copermit or assigned API number on the coper GPS coordinates that do not meet  Coordinate Units: meters, Altitude: - meters.  RECEIVED Gas Office of Oil and Gas
Mapping Grade GPS: Post Processed I	tion of the ment of the state o
Real-Time Diffe	erential
4. Letter size copy of the topography I the undersigned, hereby certify this data is corr belief and shows all the information required by prescribed by the Office of Oil and Gas.  Signature	ect to the best of my knowledge and