

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No
NMLC054988A

6 If Indian, Allottee or Tribe Name

7 If Unit or CA/Agreement, Name and/or No

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No
BERRY A FEDERAL 10

2. Name of Operator

COG OPERATING LLC

Contact BRIAN MAIORINO

E-Mail: bmaiorino@concho.com

9. API Well No.
30-015-30289-00-S1

3a. Address

550 WEST TEXAS AVENUE SUITE 100
MIDLAND, TX 79701

3b. Phone No (include area code)

Ph: 432-221-0467

10. Field and Pool, or Exploratory
MAR LOCO-GLORIETA YESO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 21 T17S R30E SWNW 2310FNL 330FWL

11 County or Parish, and State

EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input checked="" type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

* Please see attached subsequent deepening procedures.

AR Daale 7/5/12
Accepted for record
NMOCD

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #140600 verified by the BLM Well Information System

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by KURT SIMMONS on 06/20/2012 (11KMS1109SE)

Name (Printed/Typed) BRIAN MAIORINO

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 06/14/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTEDJAMES A AMOS
Title SUPERVISOR EPS

Date 06/23/2012

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Berry A Federal #10 Subsequent Deepening Procedure.

03/15/2012

HELD 5 MIN SAFETY MEETING, ND FLOR LINE MIRU WSU, UNSET PUMP, LAY DOWN 1 114 X 22' PLISH ROD, 6' X 718 SUB, 39=718 STEEL RODS, 141=314 STEEL RODS, 10= 718 STEEL RODS, 2 112 X 1 112 X 16' INSERT PUMP, 1 114 X 10' GAS ANCHOR, KILL WELL ND WELL HEAD NU BOP, WORK ON GETTING TAC LOOSE, UNABLE TO DO SO, SHEER TAC, HOT WATER DOWN TBG, SWIFN, SHUT WELL IN FOR THE DAY

3/16/12

HELD 5 MIN SAFETY MEETING, BLEAD OFF 300 LBS OF PRESSURE, KILL WELL, FUNCTION TEST BOP TEST OK, TOO H LAYING DOWN PROD TBG, LAY DOWN 139= 2 718 TBG, 2 718 MARKER SUB, 2= 2 718 JTS, 5 112 TAC, 20= 2 718 JTS, 2 718 SN, 6' PRFS SUB, 2 718 MUD JT, 2 718 B PLUG, LOST ONE SPRING OF TAC, DESCRIPTION(118 THICK, 12" LONG, 1" WIDE) RACK UP 190 JTS OF 2 718 WORK STRING, AND 210 JTS OF 2 318 WORK STRING W/ TURNDOWN COLLARS, TALLYED, TIH W/ 4 314 BIT AND 5 112 CSG SCRAPER, DOWN TO 4844' TOO H W/ SCRAPER, SWEFN. SHUT WELL IN FOR THE DAY

3/17/12

MIRU has cement equipment. TIH w/ 5 1/2 CCR on 2 7/8 workstring down to 4318' pump truoth retainer pull up to 4290' set retainer Sting in and out. Get injection rate w/ bls pump 300sx of class C w/ 3% CaCL2+5# sk gillsonite followed by 300 sx of class C neat SWI wash out lines. Open well And hesitate downcsg w/ Class C neat. 5 bls avery 20 min well still no pressure after 22 bls. pressure up to 160 lbs weil. 25 mins get back in to it Pump down and look like we broke in to csg squeeze below CR@ 500 lbs +- and after that pumping @2.5 @ 190 lbs. Overdisplace. 20 bls. Injection rate now is 2 bpm @ 35 lbs. friction pressure, stop pumping well went on vacuum, sting out rever, TOO H w/Stinger

3/20/12

OPENED WELL AND FUNCTION TEST BOP, RIH PICKING UP DRILL COLLARS AND WORK STRING TBG, TAGGED AT 4290', PICKED UP SWIVEL AND INSTALLED STRIPPER HEAD RUBBER, DRILLED OUT CEMENT RETAINER AND SQUEEZED CEMENT FROM 4290 TO 4611', CIRCULATE/CONDITION HOLE PULLED UP ABOVE SQUEEZED PERFS AND SECURED WELL, SDFN

3/22/12

OPENED WELL AND FUNCTION TEST BOP, POOH AND PICKED UP AND MADE UP CASING SCRAPER, RIH W/ SCRAPER TO 4841', POOH STANDING BACK, PICKED UP AND MADE UP CEMENT RETAINER, RIH W/ 129 JNTS TO 4230', PUMPED 30 BBLS THRU RETAINER, SET RETAINER@ 4230', STING OUT OF RETAINER AND LOADED BACK SIDE W/ 53 BBLS, PUMPED TOTOL OF 75 BBLS, STING BACK INTO RETAINER, LOADED BACKSIDE W/ 500#, TESTED TBG TO 3500 PSI, GOOD TEST, PUMPED DISPLACEMENT OF 30 BBLS THEN STARTED SQUEEZE, RESQUEEZED PERFS@ 4400-4826' W/ 200 SKS LEAD W/ 3% CaCL2 AND 200 SKS LEAD PRE PLUSS CLASS C NEAT, SQUEEZED W/ 2700 PSI @ 11 BBLS INTO TAIL CEMENT, STUNG OUT AND REVERSED OUT W/ 25 BBLS OF CEMENT TO STEEL PIT, ABTAINED A GOOD SQUEEZE

3/23/12

POOH W/ SETTING TOOL, NIPPLED DN BOP AND CHANGED OUT WELL HEAD, NIPPLED BOP BACK UP, MADE UP BIT AND RIH TO 4260', PICKED UP SWIVEL AND INSTALLED STRIPPER HEAD RUBBER DRILLED OUT CEMENT RETAINER AND SQUEEZED CEMENT F/ 4260' TO 4513', CIRCULATED HOLE CLEAN PULLED UP ABOVE SQUEEZED PERFS AT 4250', SECURED WELL AND SDFN

3/24/12

RIH TO 4513, PICKED UP SWIVEL AND DRILLED OUTSQUEEZED CEMENT F/4513 TO 4831' CIRCULATED HOLE CLEAN, POOH STANDING BACK, SECURED WELL AND SDFWE

3/27/12

TIH W/ 3/4 SHOE W/ 3 SETS OF WIRES AND 2 SETS OF DIAMONDS TAG AT 4844' MAKE 6' OF HOLE TO 4850'. TOH W/ SHOE NOTHING IN IT BOTTOM 2 SETS OF WIRES GONE. EVERYTHING ELSE OK. TIH W/ SHOE. TAG AT 4846' BREAK CIRCULATION. WASH SAND TO 4900' BOTTOM GOT HARD. MAKE 3' TO 4903' CIRCULATE CLEAN. TOH W/ SHOE. CAUGHT REST OF SPRING AND WIPER. PLUG IN SHOE

3/29/12

FINISH TIH TO 4967'. BREAK CIRCULATION. START DRILLING. DRILL TO 5272'. 1150 PSI AT 3' BPM. MAKING 32AN HOUR. LOST PUMP PRESSURE. TOH W/ TUBING 35 JOINTS ABOVE COLLARS TWISTED OFF TIH W/ FISHING TOOL. CAUGHT FISH. TOH TO FISH. CHANGE JOINT. TIH W/ BIT. RESUME DRILLING AT 5272'. DRILL TO 5590'. LOST PUMP PRESSURE AGAIN. START OUT OF HOLE

3/30/12

FINISH TOH TIH W/ FISHING TOOL. CATCH FISH TOH LAYING DOWN TUBING

4/03/12

RIH TO BOTTOM@ 5595', PICKED UP SWIVEL, LOADED HOLE AND TOOK 105 BBLS TO LOAD, DRILLED FORMATION W/ 3/4" BIT F/5595' TO 5717', TIMED LOSS F/ TWO HOURS AND LOST 38 BBLS TOTOL, CIRCULATED HOLE CLEAN. PULLED UP ABOVE SQUEEZED PERFS, SECURED WELL AND SDFN DUE TO HIGH WINDS

4/04/12

POOH W/ BIT AND MOTOR, PICKED UP RBP AND PACKER, RIH TO 4876' AND SET RBP, PULLED UP AND SET PACKER@ 4373', TESTED CASING F/4373 TO SURFACE, TESTED TO 1000# AND HELD GOOD, PUMPED DOWN TBG AND FOUND LEAK ON EXISTING SQUEEZED PERFS, OBTAINED A INJECTION

4/05/12

PICKED UP AND MADE UP CEMENT RETAINER, RIH TO 4367', PUMPED 32 BBLS THROUGH RETAINER, RETRIEVED CIRCULATION@ 24 BBLS INTO PUMPING, SET RETAINER@ 4360', STUNG OUT AND PUMPED 5 BBLS TO CONFIRM THAT BACKSIDE WAS FULL, STUNG BACK INTO CEMENT RETAINER AND WENT TO PUMPING, STARTED PUMPING AND EMEDIATLY PRESURED UP, EXISTING SQUEEZED FERFS WERE PLUGGED UP AND WOULD NOT TAKE ANY FLUID, POOH W/ RETAINER, PICKED UP AND MADE UP BIT, RIH TO 4360 AND DRILLED OUT CEMENT RETAINER, PUSHED RETAINER ALL THE WAY DOWN TO TOP OF RBP@ 4876', PULLED UP ABOVE SQUEEZED PERFS@ 4367', CLOSED BOP AND TRIED TO ESTABLISH AN INJECTION RATE, EMEDIATLY PRESURED UP TO 1500# AND HELD PRESURE

4/06/12

POOH W/ BIT, PICKED UP AND MADE UP SHOE, RIH TO TOP OF SAND TO RETRIEVE PIECE OF CEMENT RETAINER, PICKED UP SWIVEL AND REVERSE CIRCULATED, MADE 2 112', WORKED SHOE OVER FISH SEVERAL TIMES, POOH W/ SHOE AND DID NOT RETRIEVE ANYTHING, RAN BACK IN THE HOLE, MADE A DRY RUN TURNING WITHOUT PUMP, MADE 4 112FT, POOH W/ SHOE AND RETRIEVED THE PIECE OF CEMENT RETAINER, RIH W/ RETRIEVING TOOL, PICKED UP SWIVEL AND CIRCULATED SAND OUT, SHUT WELL IN AND PRESURED UP TO 1000# F130 MIN, HAD NO PRESURE LOSS, PULLED UP ABOVE SQUEEZED PERFS, SECURED WELL AND SHUT DOWN FOR EASTER WEEKEND. PICKED UP SWIVEL AND CIRCULATED SAND OUT, SHUT WELL IN AND PRESURED UP TO 1000# F130 MIN HAD NO PRESURE LOSS PULLED UP ABOVE SQUEEZED PERFS

4/10/12

LOADED HOLE W/ 15 BBL, RIH TO TOP OF RBP, CIRCULATED HOLE CLEAN THEN LATCHED ON TO RBP AND UNSEATED IT. POOH W/ RBP, PICKED UP AND MADE UP BIT AND MUDDMOTOR, RIH W/ DRILL COLLARS AND CHECKED MUDDMOTOR, RIH TO BOTTOM @ 5717'. PICKED UP SWIVEL AND INSTALLED STRIPPER HEAD RUBBER, BROKE CIRCULATION @ 82 BBLs, WENT TO BOTTOM AND HAD NO DIFFERENTIAL PRESSURE, HAD 900 PSI @ 3 BPM. WORKED BIT AND WOULD NOT DRILL OFF, POOH WET LOOKING FOR POSSIBLE HOLE IN PIPE, PIPE ALL GOOD, LAVED DN BAD MUDDMOTOR, PICKED UP NEW MUDDMOTOR, RIH W/ COLLARS AND CHECKED MUDDMOTOR, RIH TO 4380

4/11/12

RIH FITOP OF SQUEEZED PERFS TO BOTTOM @ 5717', PICKED UP SWIVEL AND INSTALLED STRIPPER HEAD RUBBER, STARTED PUMPING AND BROKE CIRCULATION @ 54 BBLs INTO PUMPING, DRILLED FORMATION W/ 4 3/4" BIT F15717' TO 6226', MADE 509 FT, AVERAGED 35.1 FT PHR, DRILLED W/ 3 GPM @ 1500 PSI, HOLE WAS LOSING 20 BBLs PHR WHILE DRILLING, TD WELL SHORT @ 6226', CIRCULATED HOLE CLEAN, POOH LAYING DOWN WORK STRING, WAITED FOR LOGGERS, PREPARE TO LOG WELL. DRILLED FORMATION W/ 4 3/4" BIT F15717' TO 6226', MADE 509 FT, AVERAGED 35.1 FT PHR, DRILLED W/ 3 GPM @ 1500 PSI, HOLE WAS LOSING 20 BBLs PHR WHILE DRILLING, TD WELL SHORT @ 6226', BIT AND MOTOR GAVE OUT. CIRCULATED HOLE CLEAN. POOH LAYING ON WORK STRING. WAITED ON LOGGERS TO SHOW UP RIGGED UP LOGGERS

4/12/12

RIGGED UP LOGGERS, RIH W/ LOGGS AND LOGGS DID NOT GO, HIT A BRIDGE @ 4940', POOH W/ LOGGING TOOLS, RIGGED DN LOGGERS

4/13/12

RIH W/ BIT AND STRING MILL PICKING UP TBG, TAGGED BRIDGE @ 4950', WIPED OUT BRIDGE W/ 10 POINTS, WORKED BIT AND MILL THROUGH BAD SPOT SEVERAL TIMES. RIH TO BOTTOM @ 2626', HAD NO FILL. PICKED UP SWIVEL AND STRIPPER HEAD RUBBER. BROKE CIRCULATION @ 110 BBLs INTO PUMPING, CIRCULATED 1 1/2 TIMES CAPACITY. RECOVERED OIL AND GAS, NO SOLIDS, SET SWIVEL BACK AND POOH STANDING BACK TO TOP OF SQUEEZED PERFS, WAITED ON BANK FOR 30 MIN, MADE SHORT TRIP THROUGH 4950, HOLE WAS CLEAN, POOH STANDING BACK RIGGED UP LOGGERS AND LOGGED WELL, LOGGERS TD @ 6230', RIGGED DN LOGGERS, RIH TO TOP OF SQUEEZED PERFS

4/14/12

RIH TO 6226 AND TAGGED BOTTOM, POOH LAYING ON WORK STRING. RIGGED UP LEWIS CASING CREW AND BIG BEAR LAY ON, HELD PRE JOB SAFETY MEETING PRIOR TO STARTING JOB, RAN 144 JNTS OF 4" LBO ULTFJNT CASING, SET LINER @ 6220', SET DV TOOL @ 4858', RIGGED DN CASING CREW AND LAY ON, RIGGED UP HALLIBURTON CEMENTERS, HELD PRE JOB SAFETY MEETING PRIOR TO STARTING JOB. RIGGED UP HALLIBURTON CEMENTERS, HELD PRE JOB SAFETY MEETING PRIOR TO STARTING JOB. CEMENTED W/ 150 SKS HALCEM CLASS C CEMENT @ 14.8 WT, 1.34 YLD, 6.28 GAL/SK W/ 5% LAP-1, 6% CFR-3, .25 LBM D-AIR 500, .3% HR-601, .25 LBM POLY-E-FLAKE, BUMPED PLUG @ 19:39, DROPPED OPENING PLUG AND WAITED 30 MINUTED, OPENED TOOL @ 840 PSI, CIRCULATED 20 SKS 83 BBLs OF CEMENT TO STEEL PIT, DROPPED

4/17/12

UNLOADED AND SET IN AND TALLIED WRK STRING TBG, PICKED UP AND MADE UP BIT AND COLLARS, RIH PICKING UP WORK STRING TBG TO DV TOOL @ 4858'. PICKED UP SWIVEL AND STRIPPER HEAD RUBBER, DRILLED OUT DV TOOL, CIRCULATED HOLE CLEAN. RIH PICKING UP WRK STRING TBG TO BOTTOM AND TAGGED @ 6180'. POOH STANDING BACK TO PICK UP STRING MILL TO WORK THROUGH DV TOOL

4/18/12

RIH W/ STRING MILL AND CLEANED UP DV TOOL, WORKED MILL THROUGH DV TOOL SEVERAL TIMES, RIH TO BOTTOM @ 6180'. RIGGED UP ACID PUMP TRUCK AND PICKLED CASING W/500 GAL OF 15% PICKLE ACID, CIRCULATED ALL ACID OUT POOH LAYING DN WRK STRING

4/19/12

OPENED WELL AND FUNCTION TEST BOP, RIGGED UP HALLIBURTON WIRELINE TRUCK AND RAN GAUGE RING, RIGGED UP SCIENTIFIC DRILLING AND RAN RYRO, RIGGED DN GYRO AND RAN CEMENT BOND LOGG, FOUND DV TOOL @ 4862 and logs PBTD @ 6174' RIGG ED ON LOGGERS

4/24/12

MIRU HES WIRE LINE, HELD 5 MIN PREJOB SAFETY MEETING, FOUND PBTD @ 6179' DV TOOL @ 4858' PRFS @ 5670'-5870' 26 SHOTS ALL FIRE CHECK GUNS ON SURFACE

4/25/12

MIRU BHS FRAC EQUIPMENT. HELD 5 MIN PREJOB SAFETY MEETING, TEST LINES TO 8000 LBS HOLD GOOD. Lower blinebry acid job. Pbtd @6179, prfs @5670-5870" 26 holes 1 spf. Break@3506 # acidize via 4" 11.6#L80 csg w/2500 gls of 15% acid 26 bio balls. Ball out @ 4387# flush w/ 67 bls of slick water Proceed w/ frac Lower blinebry frac Frac via 4" 11.6 csg w/123824 gls of Viking 2000. carrying 148316#16130 white+29751#16130 Siber p flush w/750 gls of 15% acid +51 bls of gel SWIRUWL TIH W/3.240 CBP, WENT DOWN TRY TO SETED @ 5640, HAD MIS FIRE. TOO H W/ CBP HANG ON DV TOOL, HELF SET CBP, PUMP CBP LOOSE WALKED DOWN TO 5666' PUMP 30 BLS TO PUT ACID AWAY, SHEER OFF ROPE SOCKET, TOO H W/ LINE RECOVER ALL WIRE LINE, SWIFN, RIG DOWN HES WIRE LINE AND BHS FRAC EQUIPMENT

4/30/12

MIRU HES WIRE LINE, RUN A 3114 GAUGE RING, DOWN TO 5820 TAG CBP, TOO H W TOOLS, TIH W/ CBP AND GUN, SET CBP @ 5590' TEST CSG AND CBP TO 3000 LBS HOLD GOOD, PERFORATED FROM 5370-5570, 24 SHOTS ALL FIRE, DUMPT TWO BAILERS=(20 gls) OF ACID ACROSS PRFS, SWIFWE, RIG DOWN HES WL, WSU AND CLEAR LOG, WELL NOW READY TO BE FRACED

5/01/12

MIRU BHS FRAC EQUIPMENT. HELD 5 MIN PREJOB SAFETY MEETING. TEST LINES TO 7000 LBS HOLD GOOD. Middle blinebry acid job. Cbp @5590 prfs @5370-5570' 24 holes 1 spf. Break@5075# acidize via 4" 11.6#L80 csg w/2000 gls of 15% acid 26 bio balls. Good ball action @4500# flush w/ 64 bls of slick water Proceed w/ frac Middle blinebry frac Frac via 4" 11.6 csg w/121532 gls of Viking 2000. carrying 127629#16/30 white+23180#16/30 Siber p flush w/750 gls of 15% acid +46 bls of gel

5/09/12

RU TO RIH W/ STEEL RODS RIH W/2 112 X 2 X 20' PUMP (ANDREWS PUMP), RHR, 1" X 1' LIFT SUB, 6- 1 112 SINKER BAR, 140- 314 N97 STEEL ROD (SAME RODS THAT WAS PULLED), 36- 718 N97 (SAME RODS THAT WAS PULLED), 718 X 8' SUB, 718 X 6' SUB, 1 112 X 26' POLISH ROD WELL HUNG ON AND SPACED OUT 7" OFF BOTIOM LOAD AND TESTED TO 500PSI, TESTED GOOD W/ GOOD PUMP ACTION. PUMPING UNIT OUT OF ALIGNMENT. LEFT PUMPING UNIT OFF AND CONTACTED PROD FOREMAN TURN WELL OVER TO PRODUCTION. RDMO