

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103

Revised March 25, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

WELL API NO. 30-045-23568
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: SULLIVAN GAS COM C
8. Well No. #1E
9. Pool name or Wildcat BASIN DAKOTA

Unit Letter J : 1850 feet from the SOUTH line and 1490 feet from the EAST line
Section 28 Township 29N Range 10W NMPM County SAN JUAN

10. Elevation (Show whether DR, RKB, RT, GR, etc.)
5513' GR

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.)

1. Type of Well:
Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

XTO Energy Inc.

3. Address of Operator

2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401

4. Well Location

11. 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 COMPLETION ☐

OTHER: **REPAIR FAILED BRADENHEAD TEST** ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

XTO Energy Inc. plans to repair failed bradenhead test per attached procedure.



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

SIGNATURE Darrin Steed TITLE REGULATORY SUPERVISOR DATE 12/10/02

Type or print name **DARRIN STEED**

Telephone No. **505-324-1090**

(This space for State use)

APPROVED BY Chuck R. L. TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 20 DATE DEC 18 2002

Conditions of approval, if any:

**SULLIVAN GAS COM C #1E
REPAIR FAILED BRADENHEAD TEST
INTERMEDIATE CASING FLOWING
SEC 28J, T29N, R10W
SAN JUAN CO., NM**

Acct Code: 71047
Prod. Csg: 4-1/2", 11.6#, K-55 csg @ 6,508'
Intermediate Csg: 7", 20#, K-55 csg @ 2,186'
PBTD: 6,465'
Tbg: 203 jts 2-3/8" tbg, SN & NC. EOT @ 6,378'.
DK Perfs: 6,300' – 6,422'

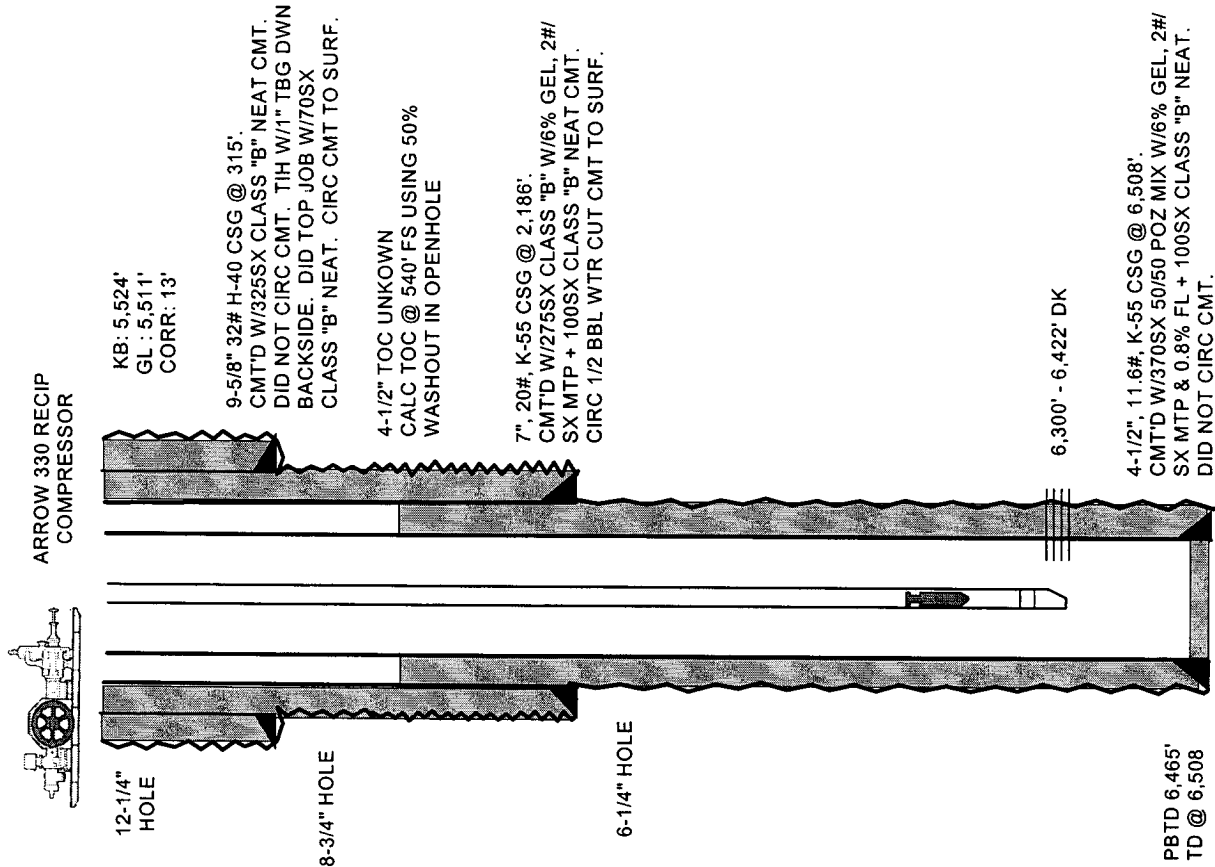
NOTE: This well failed NMOCD bradenhead test because of gas flow out of intermediate csg. See bradenhead test report.

1. Notify OCD.
2. MIRU PU. ND WH. NU BOP.
3. TIH & tag fill.
4. Tally OH w/2-3/8" prod tbg.
5. TIH w/RBP.
6. Set RBP @ 2,500'.
7. Press tst RBP & 4-1/2" csg to 500 psig.
8. Dump 10' sand on RBP.
9. Run GR/CBL fr/2,500' to surface w/500 psig on csg.
10. Perf 4 sqz holes using 3-1/8" gun loaded w/HSC-4000-311NT charges (0.36" hole, 26.36" pene) between 315' & TOC as per OCD direction.
11. Establish circ dwn csg & out 4-1/2" x 7" annulus. Close csg vlv. EIR into 7" x 8-3/4" openhole annulus w/intermediate csg valve open. Chk for circ out intermediate csg vlv. Max press 2,500 psig.
12. MIRU cmt equip.
13. Pmp ±150 sx Class B cmt w/0.3% Halad-344 FLA + 0.1% CFR3 disp + 2% CaCl₂ (mixed @ 15.6 ppg & 1.18 cf/sx) dwn csg & circ out 4-1/2" x 7" annulus. After circ cmt to surf close prod csg vlv. Open intermediate csg vlv. Sqz cmt into 7" x 8-3/4" openhole annulus (if able to circ attempt to bring cmt to surf in 7" x 9-5/8" annulus). Displace w/wtr to 200' above sqz holes. Bleed off press. SWI. WOC.

**SULLIVAN GAS COM C #1E
REPAIR FAILED BRADENHEAD TEST
INTERMEDIATE CASING FLOWING
SEC 28J, T29N, R10W
SAN JUAN CO., NM**

14. Open intermediate csg vlv & chk for flow.
15. TIH w/bit & DO sqz.
16. Press tst sqz & csg to 500 psig.
17. TIH w/RBP RTHD. Wash sd off RBP. Rel RBP.
18. TOH. LD RBP.
19. If needed, CO fill tagged in Step 3.
20. TIH w/NC, SN & 2-3/8" tbg. **NOTE:** add 1 jt to tbg string to get EOT @ $\pm 6,410'$.
ND BOP. NU WH.
21. Broach tbg to SN.
22. Swab well in.
23. Drop BHBS & plngr. Cycle plngr to surf. RWTP.
24. RDMO PU.

SULLIVAN GAS COM "C" #1E WELLBORE DIAGRAM



DATA

LOCATION: 1,850' FSL & 1,490' FEL, UNIT J, SEC-28, T29N, R10W
COUNTY/STATE: SAN JUAN COUNTY, NEW MEXICO
FIELD: BASIN DAKOTA
FORMATION: DAKOTA
NM LEASE#: 22838 **API#:** 3004523568 **XTO WELL#:** 71047
SPUD DATE: 10/2/79 **COMPLETION DATE:** 11/30/79
IP: SITP 1,050 PSIG, SICP 1,270 PSIG. IP: F. 1,182 MCFPD, FTP 80 PSIG, SICP 470 PSIG, 3/4" CK, 3 HRS. CAOF 1,325 MCFPD. 12/12/79.
PROD METHOD: PLNGR LIFT
TBG: 203 JTS 2-3/8" 4.7# J-55 EUE 8RD TBG, SN & NC. EOT @ 6,378'. SN @ 6,376'.
PERFS: DAKOTA FR/6,300'-38', 6,362'-70' & 6,387'-6,422' (2 JSPF)

HISTORY

10/02/79 ARAPAHO DRLG CO. RIG #22 SPURRED 11" HOLE FOR AMOCO PROD CO. KB: 5.524'. GL: 5.511'.
10/03/79 DRLD 11" HOLE TO 51'. OPENED TO 12-1/4" DRLD 12-1/4" HOLE TO 318'.
10/04/79 SET 9-5/8", 32.3# H-40 CSG @ 315'. CMT'D W/325SX CLASS "B" NEAT CMT. DID NOT CIRC CMT. TIH W/1" TBG DWN BACKSIDE. DID TOP JOB W/70SX CLASS "B" NEAT. CIRC CMT TO SURF.
10/07/79 TD 8-3/4" HOLE @ 2,185'. GO RAN CDL/SNP & IEL LOGS. WL TD 2,177'. SET 7" 20#, K-55, ST&C CSG @ 2,186'. CMT'D W/275SX CLASS "B" W/6% GEL, 2#SX MTP + 100SX CLASS "B" NEAT CMT. CIRC 1/2 BBL WTR CUT CMT TO SURF.
10/08/79 DO UNDER INTERMEDIATE W/6-1/4" BIT. DRLG W/AIR.
10/14/79 HVY GAS FLOW W/1" STREAM OF COND @ 5,617'. MUDDUP.
10/18/79 TD 6-1/4" HOLE @ 6,510'. GO RAN CDL/SNP & IEL LOGS. WL TD 6,505'. MW 9.0, VIS 51, PH 8.5, WL 7.2.
10/19/79 SET 4-1/2", 11.6# K-55 CSG @ 6,508'. CMT'D W/370SX 50/50 POZ MIX W/6% GEL, 2#SX MTP & 0.8% FL + 100SX CLASS "B" NEAT.
11/20/79 TIH W/BIT, CSG SCRAPER & 2-3/8" TBG. TAGGED CMT @ 6,370'.
11/21/79 DO CMT FR/6,370'-6,465'. TSTD CSG TO 4000 PSIG. HELD OK. SPOTTED 200 GALS 15% HCl ACID. POH W/TBG, SCRAPER & BIT. RAN GR/CCLOG. PERFD DAKOTA FR/6,422'-6,387', 6,370'-62' & 6,338'-6,300' (2 JSPF, 162 HOLES). TIH W/RBP & PKR. SET PKR BELOW TOP SET OF PERFS. BROKE DWN LOWER SETS OF PERFS W/15% HCl ACID. PERFS COMM W/UPPER SET. POH W/TBG, PKR & RBP.
11/23/79 F. DAKOTA FR/6,300'-6,422' IN 2 STAGES AS FOLLOWS: PPD 1ST STAGE W/113,000 GALS 40# XL, GELLED 2% KCl WTR & 286,000 LBS 20/40 SD. PRESS DECR FR/2,800 PSIG - 900 PSIG IN 5 PPA STG. DROPPED 92 BS. PPD 2ND STAGE W/87,500 GALS 40# XL, GELLED 2% KCl WTR & 220,000 LBS 20/40 SD @ 24 BPM & 1,333 PSIG. ISIP 800 PSIG, 15" SIP 800 PSIG. MAX SD CONC 5 PPA. RAN AFTER FRAC TS TO 5,515'. FOUND FLUID MOVING UP HOLE. SICP 650 PSIG. SIBDHP 650 PSIG.
11/24/79 TIH W/BIT & CO TO 6,465'. POH.
11/25/79 SET CIBP @ 6275'. ISOLATED SPLIT FR/2425'-2457'.

SULLIVAN GAS COM "C" #1E WELLBORE DIAGRAM

11/26/79 RAN BACKOFF SHOT @ 2,590'. CSG CAME FREE. POH W/4-1/2" CSG. REMOVED SPLIT JT. TIH W/4-1/2" CSG. SCREWED BACK INTO CSG. TSTD CSG TO 3,000. PSIG. HELD OK. TIH W/BIT & TBG. DO CIBP TO 6275'. CO TO PBDT. POH.

11/27/79 REFRAC'D DAKOTA FR/6,300'-6,422' W/89,500 GALS 40#, XL, GELLED 2% KCI WTR & 220,000 LBS 20/40 SD @ 31 BPM & 2,350 PSIG. ISIP 1,700 PSIG. 10" SIP 1,050 PSIG.

11/28/79 TIH W/BIT. CO SD FR/6,430'-6,465'. POH. TIH W/TBG. LANDED TBG @ 6,405'. SWBD WELL.

11/29/79 RDMO PU. MIRU SWB UNIT.

11/30/79 SWBD WELL. WELL KO FLWG. FTP 40 PSIG, SICP 400 PSIG.

12/12/79 SITP 1,050 PSIG, SICP 1,270 PSIG. IP: F. 1,182 MCFPD, FTP 80 PSIG, SICP 470 PSIG, 3/4" CK, 3 HRS. CAOF 1,325 MCFPD.

06/10/80 KILLED WELL. REPL MSTR VALVE. SWBD WELL IN.

02/24/92 FOUND COMM BETWEEN CSG & BDHD.

03/29/94 KILLED WELL W/12 BBLS KCIWTR.

03/30/94 POH W/TBG. TIH W/RBP. SET RBP @ 3,707'. TIH W/PKR. SET PKR 20'. TSTD CSG TO 1000 PSIG. HELD OK. CHANGED OUT SLIPS ASSBLY. POH W/PKR.

03/31/94 SICP 0 PSIG, SIBDHP 280 PSIG. TIH W/TBG & RETRIEVING TOOL. LATCHED ONTO & REL RBP. POH. TIH W/TBG.

04/01/94 CO FILL TO 6,465' W/N2. PU & LANDED TBG @ 6,405'.

08/31/98 SET 330 RECIP COMP.

10/08/98 TGD BTM @ 6,418' (47' FILL).

04/27/99 MIRU SU. REC 2 PLNGRS. S. 1 BLW, 1 BC, 1 RUN. BFL 6,000' FS. FFL 6,000' FS. KO FLWG TO PIT.

10/12/00 TBG @ 6,280'. IB INDICATED POSS SD @ 6,280'. BHBS SET @ 6,370'. MIRU SU. TGD OBSTRUCTION @ 6,200'. NO LIQUID IN TBG. GRAY-WHITE FINES IN SWB CUPS (FMT FINES OR DRLG MUD?).

05/23/02 RU PU. COULD NOT TIH. FILL @ BTM OF TBG. TOH. FILL @ 6,405'. TBG PLUGGED W/FRAC SD & FES. TIH W/3-7/8" BIT. CO FILL FR/6,405' - 6,465' (PBDT). DO FLOAT COLLAR & CMT IN SHOE JT TO 6,505' (NEW PBDT). CIRC HOLE FOR 1 HR. SWI. SDFN.

05/24/02 TIH. TGD FILL @ 6,498' (7' FILL OVERNIGHT). CO FILL FR/6,498' - 6,505' PBDT & CIRC WAFU 3 HRS. POH 125' & WAIT 1 HR. TIH & TGD FILL @ 6,504' (1' FILL). RD AFU. TOH. LD BIT. TIH W/NC, SN & TBG TO 6,460'. RU SWB. BFL 5,700' FS. TP 0 PSIG. SICP 140 PSIG. S. 7 BW, 4 RUNS. FFL 6,100' FS. SICP 200 PSIG. WELL KO FLWG. F. 0 BO, 8 BW, FTP 7 PSIG, SICP 150 PSIG, 2" FULL OP VLV, 14 HRS.

05/25/02 TIH W/4 JTS TBG. TGD FILL @ 6,504' (1' FILL OVERNIGHT). TOH LD 6 JTS TBG. LANDED PROD TBG AS FOLLOWS: 203 JTS 2-3/8" 4.7#, J-55, EUE, 8RD TBG, SN & NC. EOT @ 6,378'. SN @ 6,376'. RAN 1,886" TBG BROADCH TO SN. NO TIGHT SPOTS. DROPPED BHBS & DUAL PAD PLNGR. STD COMP. CYCLED PLNGR. OK. RDMO PU. RWTP.



**OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-8178 FAX: (505) 334-8170
[http://emnrnd.state.nm.us/ocd/District III/3distrct.htm](http://emnrnd.state.nm.us/ocd/District%20III/3distrct.htm)**

SUBMITTED
OCT 04 2002
ELECTRONICALLY

BRADENHEAD TEST REPORT

(submit 2 copies to above address)

Date of Test 8-14-02 Operator XTO ENERGY API #30-0 4523568

Property Name Sullivan Gas Com C Well No. 1E Location: Unit J Section 28 Township 24N Range 10W

Well Status(Shut-In or Producing) Tubing 127 Intermediate 468 Casing 174 Brandenhead 462

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

TIME	PRESSURES:		BRADENHEAD FLOWED	INTERMEDIATE FLOWED
	INTERMEDIATE	CASING		
5 minutes	466 466	174	Steady Flow	X
10 minutes	466	175	Surges	
15 minutes	466	176	Down to Nothing	X
20 minutes			Nothing	
25 minutes			Gas	X
30 minutes			Gas & Water	
			Water	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR **FRESH** **SALTY** **SULFUR** **BLACK**

5 MINUTE SHUT-IN BRADENHEAD / INTERMEDIATE 2

REMARKS:

BRADENHEAD BLEW DOWN TO A PLUS OR MINUS 1 PSI BLOW IN 23 SECONDS.
AFTER 5 MINUTE BRADENHEAD WAS BLOWN DOWN TO NOTHING. INTERMEDIATE
BLEW VERY STRONG FOR 8 MINUTES. THEN SLOWLY DIED DOWN TO A STEADY BLOW
OF 1 TO 2 PSI.

By J.L. Divine

Witness

LEASE OPERATOR

(Position)