

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 20005. Lease Serial No.
NMSF 0793411a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Otherb. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ 16 Diff. Res.

Other

2. Name of Operator

CONOCOPHILLIPS CO.

070 Farmington, NM

3. Address

P.O. BOX 2197 WL3 4061 HOUSTON TX 77252

3a. Phone No. (Include area code)

(832)486-2326

4. Location of Well (Report location clearly and in accordance with Federal requirements)

At Surface SENW, 1600' FNL & 1725' FWL

At top prod. interval reported below

At total depth

14. Date Spudded

05/29/2003

15. Date T.D. Reached

06/01/2003

16. Date Completed

☐ D & A ☒ Ready to Prod.

07/11/2003

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

8. Lease Name and Well No.

SAN JUAN 32 FED 22 2A

9. API Well No.

30-045-31613

10. Field and Pool, or Exploratory

BASIN FRUITLAND COAL

11. Sec., T., R., M., on Block and
Survey or Area F 22 32N 9W12. County or Parish
SAN JUAN13. State
NEW MEXICO

17. Elevations (DF, RKB, RT, GL)*

6871 GL

18. Total Depth: MD 3829

TVD 3829

19. Plug Back T.D.: MD 3778

TVD 3778

20. Depth Bridge Plug Set: MD

TVD

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)

NONE

22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DST run? ☒ No ☐ Yes (Submit analysis)Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	9.625 H40	32.3	0	219		130		0	
7.875	5.5 155	17	0	3825		725		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	3727							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BASIN FRUITLAND	3614	3652	3614 - 3652	.75	48	OPEN
B) BASIN FRUITLAND	3365	3502	3365 - 3502	.75	32	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
3614 - 3652	FRAC W/25# DELTA FRAC 140 W/75,000# 12/20 SAND & 1094 BBLS FLUID
3365 - 3502	FRAC W/20# DELTA FRAC 140 W/45,000# 12/20 SAND & 713 BBLS FLUID

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/01/03	07/09/03	24	→	0	600	120			FLOWING
Choice Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
1/2	0	45	→					PRODUCING	

Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD

SEP 18 2003

FARMINGTON FIELD OFFICE

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				NACIAMENTO	891
				OJO ALAMO	2171
				KIRTLAND	2191
				FRUITLAND	3291
				PICTURE CLIFFS	3666

32. Additional remarks (include plugging procedure):

This well is a single well producing from the Basin Fruitland Coal. Attached are the daily summaries and current wellbore schematic.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geological Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) DEBORAH MARBERRY Title REGULATORY ANALYST

Signature  Date 09/09/2003

Title 18 U.S.C. Section 101 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 and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 22 #2 000002A

Common Well Name: SAN JUAN 32 FED 22 # 2A FRUITLAND COM

Spud Date:

Event Name: Original Completion

Start: 05/19/2003

End: 05/19/2003

Contractor Name:

Rig Release:

Group:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/20/2003	06:30 - 07:00	0.50	CM		80CMPL	Safety meeting
	07:00 - 08:00	1.00	CM	q	80CMPL	Perforated the lower Fruitland coal w/ 3 1/8" 120 deg select fire. perforated from 3614' - 3652' w/ 4 spf. 48 holes.
	08:00 - 10:00	2.00	CM	s	80CMPL	Frac the lower Fruitland Coal. Tested lines to 5000 #. Set pop off @ 4380 #. pumped pre pad w/ 10 # Polymer @ 15 BPM @ 2829 #. SDRT 10 BPM @ 2717 #. SDRT 5 BPM @ 2543 #. ISIP 2310 #. 5 min 1179 #. 10 min 968 #. 15 min 748 #. 20 min 622 #. 25 min 527 #. 30 min 456 #. Pumped 1000 gals of 10% Formic acid @ 6 BPM @ 2355 #. Frac the lower Fruitland Coal w/ 25 # Delta frac 140 w/ WC SW. 75,000 # 12/20 Brady sand & 1094 bbls fluid. Avg rate 20 BPM. Avg pressure 2828 #. Max pressure 3891 #. Max sand cons 5 # per gal. ISIP 3126 #. Frac gradient 1.1. Ran three Isotopes. Ran Antimony in pad. Ran Scadium in 1#, 2# & 3# sand. Ran Iridium in 4# & 5# sand.
	10:00 - 11:30	1.50	CM	q	80CMPL	RIH w/ 5 1/2" composite plug. Set plug @ 3525'. Tested plug to 4800 #. Held ok. Perforated the Upper Fruitland Coal. RIH w/ 3 1/8" 120 degree select fire perforating gun. perforated from 3365' - 3367' w/ 2 spf, 3458' - 3461' w/ 2 spf, 3481' - 3484' w/ 2 spf, 3494' - 3502' w/ 2 spf. A total of 32 holes.
	11:30 - 14:30	3.00	CM	s	80CMPL	Frac the Upper Fruitland Coal. Tested lines to 5000 #. Set pop off @ 4360 #. Pumped pre pad w/ 10 # Polymer @ 35 BPM @ 2636 #. SDRT 30 BPM @ 2548 #. SDRT 26 BPM @ 2483 #. SDRT 21 BPM @ 2372 #. 5 min 1638 #. 10 min 1431 #. 15 min 1251 #. 20 min 1112 #. 25 min 1025 #. 30 min 949 #. Pumped 1000 gal of 10% Formic acid @ 6 BPM @ 2404 #. Frac the Upper Fruitland Coal w/ 20 # Delta frac 140 w/ WC SW. Screamed out on 3 # sand. Pumped 45,000 # 12/20 Brady sand. Put 60% of frac in formation. 713 bbls fluid. Avg rate 35 BPM. Avg pressure 3911 #. Max pressure 4200 #. Max sand cons 3 # per gal. ISIP 4200 #. Frac gradient 1. Ran three Isotopes. Ran Antimony in pad. Ran Scadium in 1#, 2#, & 3#. SWI. RD Halliburton.
	07:00 - 07:15	0.25	CM	c	80CMPL	HELD DAILY SAFETY MTG, DISCUSSED JSA (RU, NU, PT BOPE, PU TBG)
	07:15 - 08:15	1.00	MV	n	80CMPL	ROAD RIG TO NEW DRILL FRUITLAND COAL LOCATION. P-BH = 0#, P-CSG = 300#.
	08:15 - 09:45	1.50	RM	m	80CMPL	CHANGE OUT RIG'S KELLY HOSE.
07/04/2003	09:45 - 11:00	1.25	MV	6	80CMPL	RU KEY RIG #63 & AUXILLIARY RIG EQUIPMENT (PUMP, BOPE, RIG PIT & TANK, PIPE BASKET)
	11:00 - 11:30	0.50	CM	6	80CMPL	NU FLOW-BACK LINE FROM TUBING HEAD TO RESERVE PIT & BLED PRESSURE TO PIT, RECOVERING UNBROKEN GEL IN SLUGS.
	11:30 - 11:45	0.25	CM	e	80CMPL	LAND TBG HANGER W/ BULL-PLUG IN TBG HEAD & RUN-IN LOCK-DOWN PINS.
	11:45 - 12:00	0.25	CM	e	80CMPL	ND TWO 6" FRAC VALVES.
	12:00 - 12:45	0.75	CM	6	80CMPL	CHANGE OUT BOP & KILL SPOOL. NU SAME.
	12:45 - 13:15	0.50	CM	e	80CMPL	NU MUD CROSS & STRIPPING RUBBER.
	13:15 - 14:00	0.75	CM	8	80CMPL	PT BLIND RAMS TO 200# FOR 3-MINS & 2500# FOR 10-MINS, HELD OK. PU 2-3/8" TBG SUB & PT 2-3/8" PIPE RAMS TO 200# FOR 3-MINS & 2500# FOR 10-MINS, HELD OK.
	14:00 - 15:15	1.25	CM	6	80CMPL	RU 6" BLOOIE LINE & MUFFLER.
	15:15 - 15:30	0.25	CM	6	80CMPL	RU RIG FLOOR.
	15:30 - 15:45	0.25	CM	e	80CMPL	BACK-OUT LOCK-DOWN PINS & PULL TBG HANGER.
	15:45 - 16:30	0.75	CM	4	80CMPL	MU 4-3/4" BIT & BIT-SUB W/ STRING FLOAT & TIH PICKING UP 32-JTS 2-3/8" 4.7# J-55 EUE BRD NEW TBG TO 1005', INCOMPLETE.
	16:30 - 16:45	0.25	CM	e	80CMPL	INSTALL TIW VAVLE, CLOSE/LOCK PIPE RAMS.

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 22 #2 000002A

Common Well Name: SAN JUAN 32 FED 22 # 2A FRUITLAND COM

Spud Date:

Event Name: Original Completion

Start: 05/19/2003

End: 05/19/2003

Contractor Name:

Rig Release:

Group:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/04/2003	16:45 - 17:00	0.25	CM	c	80CMPL	SECURE LOCATION & SWI FOR HOLIDAY WEEKEND.
07/08/2003	07:00 - 07:30	0.50	CM	c	80CMPL	HELD SAFETY MEETING W/ CREW. SICP 300#
	07:30 - 09:00	1.50	CM	2	80CMPL	BLOW WELL TO PIT. FINISH PU 2 3/8" TBG. TAG SAND @ 2588'. BROKE CRIC. W/ AIR MIST
	09:00 - 14:00	5.00	CM	1	80CMPL	C/O TO 3525' R AND R PIPE FOR 3 HRS. WELL APPEARS TO BE CLEANED UP.
	14:00 - 14:15	0.25	CM	4	80CMPL	PUH TO 3300' TESTED UPPER FC. THUR 1/2" CHOKE
	14:15 - 14:30	0.25	CM	u	80CMPL	TBG. PSI 0# CSG 80#
	14:30 - 15:00	0.50	CM	u	80CMPL	TBG. PSI #0 CSG 50#
	15:00 - 15:30	0.50	CM	u	80CMPL	TBG. PSI #0 CSG 30#
	15:30 - 16:00	0.50	CM	u	80CMPL	TBG. PSI 0# CSG 20#
	16:00 - 16:30	0.50	CM	u	80CMPL	TBG. PSI 0# CSG 20#
	16:30 - 17:00	0.50	CM	u	80CMPL	TBG. PSI 0# CSG 20#
	17:00 - 17:30	0.50	CM	u	80CMPL	SWI SDFN.
07/09/2003	07:00 - 07:30	0.50	CM	c	80CMPL	HELD SAFETY MEETING W/ CREW. SICP 350#
	07:30 - 08:30	1.00	CM	4	80CMPL	BLOW WELL TO PIT. RIH W/ 3 STANDS TBG. TAGGED @ 3525' (CBP). NO FILL OVERNIGHT. BROKE CRIC W/ AIR MIST. UNLOADED APPROX. 30 BBLS FLUID. TO PIT.
	08:30 - 09:00	0.50	CM	1	80CMPL	D/O CBP SET @ 3525'B
	09:00 - 09:30	0.50	CM	1	80CMPL	PU AND RIH W/ 4 JT 2 3/8" TBG. TAGGED SAND @ 3642'. BROKE CRIC W/ AIR MIST.
	09:30 - 12:00	2.50	CM	1	80CMPL	C/O SAND TO 3778' R AND R PIPE FOR 2.5 HRS. WELL SEEMS TO BE CLEANED UP. CUT MIST. TO ACHIEVE WTR TEST. WTR RATE APPROX. 9.5 BPH.
	12:00 - 13:45	1.75	CM	1	80CMPL	CONT' TO DRY UP HOLE. WELL STILL RETURNING APPROX. 5.5 BPH.
	13:45 - 14:00	0.25	CM	4	80CMPL	PUH TO 3300' TEST FC PERFS FROM 3652' TO 3365' THUR 1/2" CHOKE.
	14:00 - 14:30	0.50	CM	u	80CMPL	TBG. PSI 0# CSG PSI 100#
	14:30 - 15:00	0.50	CM	u	80CMPL	TBG. PSI 0# CSG PSI 95#
	15:00 - 15:30	0.50	CM	u	80CMPL	TBG. PSI 0# CSG PSI 70#
	15:30 - 16:00	0.50	CM	u	80CMPL	TBG. PSI 0# CSG PSI 60#
	16:00 - 16:30	0.50	CM	u	80CMPL	TBG. PSI 0# CSG PSI 50#
	16:30 - 17:00	0.50	CM	u	80CMPL	TBG. PSI 0# CSG PSI 45#
	17:00 - 17:30	0.50	CM	u	80CMPL	TBG. PSI 0# CSG PSI 45#
	17:30 - 18:00	0.50	CM	u	80CMPL	SWI SDFN. FINAL TEST AS FOLLOWS. 600 MCF/D GAS, 120 BW/D AND NO OIL.
07/10/2003	07:00 - 07:30	0.50	CM	c	80CMPL	HELD SAFETY MEETING W/ CREW. SICP 900#.
	07:30 - 08:30	1.00	CM	4	80CMPL	BLOW WELL TO PIT THUR 1/2" CHOKE. BROKE CRIC. W/ AIR.
	08:30 - 09:30	1.00	CM	1	80CMPL	UNLOADED APPROX. 5 BBLS FLUID TO PIT. CONT' CRIC. HOLE W/ AIR NO MIST. WELL RETURNING APPROX. 12 BBLS WTR PER HR. AND NO SAND.
	09:30 - 10:30	1.00	CM	4	80CMPL	TOOH W/ 119 JT 2 3/8" TBG AND 4 3/4" BIT.
	10:30 - 11:00	0.50	WO	r	80CMPL	WO PROTECH-NICS TO ARRIVE TO LOC.
	11:00 - 12:00	1.00	CM	z	80CMPL	RU PROTECHNICS AND H AND H SLICKLINE
	12:00 - 13:30	1.50	CM	z	80CMPL	PU AND RIH W/ TRACER LOGGING TOOLS. LOG FC PERFS FROM 3652' TO 3365'
	13:30 - 15:30	2.00	CM	4	80CMPL	RD H AND H SLICKLINE AND PROTECHNICS. PU AND RIH W/ HF PURGE VALVE, 1 JT 2 3/8" TBG, 6' PERFORATED SUB, 1.78" F-NIPPLE, AND 118 JTS 2 3/8" TBG. LAND TBG. F-NIPPLE @ 3690.55' EOT @ 3727.18' ND BOP'S. NU PUMPING TEE.
	15:30 - 16:30	1.00	CM	z	80CMPL	PREP LOC. TO RUN RODS. RD BOOLEY LINE.
	16:30 - 17:00	0.50	CM	1	80CMPL	SWI SDFN

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 22 #2 000002A

Common Well Name: SAN JUAN 32 FED 22 # 2A FRUITLAND COM

Event Name: Original Completion

Start: 05/19/2003

Spud Date:

End: 05/19/2003

Contractor Name:

Rig Release:

Group:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/11/2003	07:00 - 07:30	0.50	CM	c	80CMPL	HELD SAFETY MEETING W/ CREW. SITP 610# SICP 920# BLOW TBG TO PIT. PU AND RIH W/ 2" X 1 1/4" X 8' RHAC INSERT PUMP W/ 1' STRIANER. MAX STROKE 83". PUMP # CP 015, 4' X 3/4" PONY ROD. 147 3/4" SUCKER ROD 1 - 4' X 3/4" PONY ROD AND 22' CENTER SPRAYED ??? METAL POLISH ROD. SEATED AND SPACED OUT PUMP. LOADED HOLE AND PSI TEST TBG TO 500#. HELD OK. BLED OFF PSI. LONG STROKE PUMP. PSI UP TO 500# IN 12 STROKES. HELD OK. BLED DOWN PSI. PU LOC. RDMO FINAL REPORT
	07:30 - 11:00	3.50	CM	2	80CMPL	
	11:00 - 13:00	2.00	CM	1	80CMPL	

Well Name: SAN JUAN 32 FED 22 #2A
 API #: 30-045-31613

Spud Date: 29-May-03
 Spud Time: 0200 HRS

TD Date: 1-Jun-03
 Rig Release Date: 3-Jun-03

Surface Casing Date set: 05/29/03
 Size 9 5/8 in
 Set at 219 ft # Jnts: 7
 Wt. 32.3 ppf Grade H-40
 Hole Size 12 1/4 in
 Wash Out 100 %
 Est. T.O.C. SURFACE

Csg Shoe 219 ft
 TD of surface 230 ft

Notified BLM @ 2310 hrs
 on 5/25/2003
 Notified NMOCD @ 2313 hrs
5/25/2003

Production Casing Date set: 6/2/03
 Size 5 1/2 in
 Wt. 17 ppf Grade J-55 from 12 to 3825 ft
 Hole Size 7 7/8 in # Jnts: 86
 Wash Out: 150 % # Pups 2

Est. T.O.C. SURFACE
 Marker Jnt @ 3126 ft
 Marker Jnt @ 3141 ft
 Ported Collar @ 921 ft

Notified BLM @ 1423 hrs
 on 6/1/2003
 Notified NMOCD @ 1420 hrs
6/1/2003

FC 3778 ft
 Csg Shoe 3825 ft

Mud Wt. @ TD 9.1 ppg

Trash Cap
 11" 3M x 7 1/16" 5M Tubing Spool
 9-5/8" 8 RD x 11" 3M Casing Head

☒ New
☐ Used

SurfaceCement

Date cmt'd: 5/29/2003
 Lead: 130 sx Class G Neat w/2% S001 and
1/4 pps D029 mixed @ 15.8 ppg & 1.16
 cuft/sx.
 Displacement vol. & fluid.: 15.3 BBLS
 Bumped Plug at: 1418 HRS
 Pressure Plug bumped: 200 PSI
 Returns during job: YES
 CMT Returns to surface: 8 BBLS.
 Floats Held: Yes No
 W.O.C. for 13.0 hrs (plug bump to drlg cmt)

Cement Date cmt'd: 6/2/2003
 Lead: 540 sx Class G Cmt w/3% D079,
0.2% D046, 5 pps Phenoseal and
0.25 pps D029. Mixed @ 11.7 ppg
 and 2.61 cuft/sx
 Tail: 185 sx 50/50/G/Poz w/5.0 pps D024,
2.5 pps Phenoseal, 2% D020,
2% S001, 0.25 pps D029 & 0.2%
D046. Mixed @ 13.5 ppg & 1.27 cuft/sx
 Displacement vol. & fluid.: 87.4 bbls Fresh Wtr
 Bumped Plug at: 2002 HOURS
 Pressure Plug bumped: 1500 PSI
 Returns during job: YES
 CMT Returns to surface: 71 BBLS.
 Floats Held: X Yes No

TD 3,829 ft

COMMENTS:

Surface: NO FLOAT EQUIPMENT RAN. SHUT-IN WITH 85 PSI ON CASING.
 Production: OPENHOLE LOGS WERE RUN. BAKER PORTED COLLAR SHOP TESTED W/2500 POUNDS.

CENTRALIZERS:

Surface: CENTRALZERS @ 209', 160', 102' & 43' Total: 4
 Production: CENTRALZERS @ 3815', 3734', 3645', 3557', 3469', 3381' & 215'
TURBOLIZERS @ 2201', 2157' & 2113' Total: 10