

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, 20001a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Otherb. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,

Other

2. Name of Operator

CONOCOPHILLIPS CO.

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 NWSE 2000' FSL &amp; 1495' FEL

At top prod. interval reported below

At total depth

14. Date Spudded

06/16/2003

15. Date T.D. Reached

06/19/2003

16. Date Completed

07/29/2003

☒ D & A ☒ Ready to Prod.

18. Total Depth: MD 3761

TVD 3761

19. Plug Back T.D.: MD 3704

TVD 3704

20. Depth Bridge Plug Set: MD

TVD

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

GSL GR/CCL

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 H4	32.3	0	227		150		0	
7.875	5.5 J55	17	0	3751		720	G	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	3623							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) FRUITLAND COAL	3251	3568	3251 - 3568	.75	53	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3251 - 3568	frac w/191,600# 20/40 sand & 2546 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
08/14/03	07/26/03	24	→	0	400	125			flowing
Choice Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
pitot	SI 0	140	→					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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

NMOC

RECEIVED  
2003 SEP - 5 AM 9:48  
070 Farmington, NM5. Lease Serial No.  
NMSF 079029

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

8. Lease Name and Well No.

SAN JUAN 32-8 UNIT 249A

9. API Well No.

30-045-31626

10. Field and Pool, or Exploratory

BASIN FRUITLAND COAL

11. Sec., T., R., M., on Block and

Survey or Area J 3 31N 8W

12. County or Parish

SAN JUAN

13. State

NEW MEXICO

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

6675 GL

ACCEPTED FOR RECORD

SEP 05 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.)

sold

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	1020
				OJO ALAMO	2345
				KIRTLAND	2415
				FRUITLAND	3185
				PICTURE CLIFFS	3575

32. Additional remarks (include plugging procedure):

This well is a single 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 MARBERRYTitle REGULATORY ANALYST

Signature

Date 08/28/2003

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 32-8 UNIT FRUITLA 000249A

Common Well Name: SAN JUAN 32-8 FRUITLAND #249A UNIT

Spud Date: 06/16/2003

Event Name: Original Completion

Start: 06/10/2003

End: 07/28/2003

Contractor Name: KEY FOUR CORNERS

Rig Release: 06/20/2003 Group:

Rig Name: KEY ENERGY

Rig Number: 49

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/23/2003	08:00 - 08:30	0.50	CM	c	80CMPL	Held safety meeting.
	08:30 - 13:00	4.50	LG	z	80CMPL	RU Blue Jet. Ran GSL log from 3713' to 1800'. Ran GR/CCL log from 3713' to surface. RD Blue Jet. RU Wood Group. Tested 5 1/2" csg to 4800 #. Held ok. SWI. RD Wood Group.
06/27/2003	06:30 - 07:00	0.50	CM			Held safety meeting.
	07:00 - 09:00	2.00	CM			RU Blue Jet. Perforated the Fruitland Coal. RIH w/ 3 1/8" 120 degree select fire perforating gun. Perforated from 3251' - 3252' w/ 1 spf, 3273' - 3274' w/ 1 spf, 3372' - 3376' w/ 4 spf, 3414' - 3418' w/ 4 spf, 3460' - 3472' w/ 1 spf, 3534' - 3537' w/ 2 spf, 3559' - 3568' w/ 1 spf. A total of 53 holes.
	09:00 - 13:30	4.50				RU Halliburton. Frac the Fruitland Coal. Tested lines to 5284 #. Set pop off @ 4402 #. Est rate. Dropped 24 ball sealers in 1000 gals of 10% Formic acid @ 1 ball per bbl and 2 balls per bbl for remaining 18 balls @ 10 BPM @ 1496 #. A total of 42 balls. Good ball action. Balled off @ 1809 #. RIH w/ junk basket retrieve 18 balls. RD Blue Jet. Pumped pre pad @ 31 BPM @ 2180 #. SDRT 25 BPM @ 2107 #. SDRT 15 BPM @ 2010 #. SDRT 10 BPM @ 1908 #. ISIP 930 #. 5 min 877 #. 10 min 561 #. 15 min 357 #. 20 min 211 #. 25 min 96 #. 30 min 0 #. Frac the Fruitland Coal w/ 20# Delta frac 140 w/ wc ws. pumped pad w/ 25# Delta frac 140 and 3000 # 40/70 Arizona sand in pad. pumped 191,600 # of 20/40 Brady sand and 2546 bbls fluid. Avg rate 65 BPM. Avg pressure 2214 #. Max pressure 2891 #. Max sand cons 5 # per gal. ISIP 930 #. Frac gradient .96. Ran three isotope. Ran Antimony in pad. Ran Scadium in 0.5 # - 3 #. Ran Iridium in 4# - 5#. SWI RD Halliburton.
07/24/2003	09:00 - 14:00	5.00	MV	1	00MMIR	MI AND SPOT ALL EQUIP. RU. SICP 600#. BLOW WELL TO PIT. ND WELLHEAD. INSTALL TBG. HANGER W/ BPV. NU BOP'S. TEST BLIND RAMS TO 250# LOW FOR 10 MINS AND 3000# HIGH FOR 15 MINS. BOTH HELD OK. PSI TEST PIPE RAMS 250# LOW FOR 10 MINS AND 3000# HIGH FOR 15 MINS. BOTH HELD OK. RU BLOOEY LINE.
	14:00 - 16:00	2.00	CM	z	80CMPL	RIG INSPECTION
07/25/2003	16:00 - 16:30	0.50	CM	1	80CMPL	SWI SDFN
	07:00 - 07:30	0.50	CM	c	80CMPL	HELD SAFETY MEETING W/ CREW. SICP 650#
	07:30 - 11:30	4.00	CM	2	80CMPL	PU AND RIH W/ 4 3/4" MT BIT, BIT SUB AND 122 JTS 2 7/8" TBG. TAGGED SAND @ 3555' (TOP PERF @ 3251' BOTTOM PERF @ 3568')
	11:30 - 15:45	4.25	CM	1	80CMPL	BROKE CRIC. W/ AIR MIST. UNLOADED APPROX. 10 BBLS FLUID. C/O TO 3704' R AND R PIPE FOR 4 HRS. WELL RETURNING WTR AND NO SAND.
07/26/2003	15:45 - 17:00	1.25	CM	1	80CMPL	CUT MIST. WELL MAKING APPROX. 10 BPH WTR.
	17:00 - 17:30	0.50	CM	4	80CMPL	CUT AIR. TOO H W/ 8 STANDS TBG. SWI SDFN
	07:00 - 07:30	0.50	CM	c	90WOVR	HELD SAFETY MEETING W/ CREW. SICP 450#
	07:30 - 09:30	2.00	CM	1	90WOVR	BLOW WELL DOWN TO PIT. TOO H W/ 8 STANDS 2 3/8" TBG. TAG @ 3704' (PBTD). BREAK CRIC W/ AIR. UNLOADED APPROX 5 BBLS FLUID TO PIT. CONT' TO BLOW AIR TO ACHIEVE WTR TEST. WELL MAKING APPROX. 5 BPH WTR AND NO SAND.
	09:30 - 09:45	0.25	CM	4	90WOVR	TOOH W/ 8 STANDS TBG. START FLOWING WELL THUR 1/2" TO ACHIEVE PRODUCTION TEST OF THE FC FORMATION
	09:45 - 10:15	0.50	CM	u	90WOVR	PERFORATED FROM 3251" TO 3568"
	10:15 - 10:45	0.50	CM	u	90WOVR	CSG PSI. 45# TBG PSI 0# DRY GAS
	10:45 - 11:15	0.50	CM	u	90WOVR	CSG PSI. 70# TBG PSI 0# DRY GAS
	11:15 - 11:45	0.50	CM	u	90WOVR	CSG PSI. 60# TBG PSI 0# DRY GAS
	11:45 - 12:15	0.50	CM	u	90WOVR	CSG PSI. 45# TBG PSI 0# DRY GAS
						CSG PSI. 40# TBG PSI 0# DRY GAS

## Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000249A  
 Common Well Name: SAN JUAN 32-8 FRUITLAND #249A UNIT  
 Event Name: Original Completion  
 Contractor Name: KEY FOUR CORNERS  
 Rig Name: KEY ENERGY

Start: 06/10/2003  
 Rig Release: 06/20/2003  
 Rig Number: 49

Spud Date: 06/16/2003  
 End: 07/28/2003  
 Group:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/26/2003	12:15 - 13:00	0.75	CM	u	90WOVR	CSG PSI 35# TBG PSI 0# DRY GAS. FINAL TEST AS FOLLOWS. 400 MCF/DAY GAS, 125 BWPDI AND NO OIL.
	13:00 - 14:00	1.00	CM	4	90WOVR	TOOH W/ 58 STANDS TBG.
	14:00 - 16:30	2.50	CM	r	90WOVR	RU PHOENIX SLICKLINE AND PROTECHNICS. RIH W/ TRACER LOGGING TOOLS. LOGGED FROM 3251' TO 3568'
	16:30 - 17:00	0.50	CM	1	90WOVR	RD SLICKLINE AND PROTECHNICS.
	17:00 - 17:30	0.50	CM	1	90WOVR	SWI AND SDFWE
07/29/2003	07:00 - 07:30	0.50	CM	c	90WOVR	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 08:00	0.50	CM	g	90WOVR	BLOW DOWN WELL
	08:00 - 08:30	0.50	CM	2	90WOVR	PU & MU PUMPING TUBING BHA
	08:30 - 10:00	1.50	CM	4	90WOVR	RIH W / BHA & 2 7/8" EUE 8RD TUBING = ATTENTION TUBING VERY SHORT, AVG 29'.2" = 27' TO 29' NOT ABLE TO STAND BACK IN DERRICK W/O 3' WORKING PLATFORM FOR TUBING = HAD 1 STAND OF TUBING FALL OUT OF DERRICK TO SHORT
	10:00 - 10:30	0.50	CM	1	90WOVR	LAND DONUT W / PRODUCTION STRING SET AS FOLLOW'S 2 7/8" PURGE VALVE SET @ 3661'.08" 2 7/8" BOTTOM JT MUD ANCHOR SET @ 3660'.29" 2 7/8" 6" PERF SUB SET @ 3630'.96" 2 7/8" FN W / 2.250" PROFILE SET @ 3624'.96"
	10:30 - 12:00	1.50	CM	e	90WOVR	2 7/8" 123 JT'S J-55 6.5# EUE 8RD TUBING SET @ 3623'.96" TO DONUT @ SURFACE = TOTAL OF 124 JT'S IN WELL W / BHA
	12:00 - 13:30	1.50	CM	2	90WOVR	ND BOP & NU B-1 ADAPTER W / MASTER VALVE, PUMPING WELLHEAD EQUIPMENT
	13:30 - 14:00	0.50	CM	n	90WOVR	GIH PU INSERT PUMP & 3/4" PLAIN ROD'S
						SPACED OUT & HANGED OFF ROD'S = ROD STRING AS FOLLOW'S = H.F. 2 1/2" X 1 1/4" X 8' X 8'3" X 12'3" RHAC=Z INSERT PUMP NO # CP018, SERVICED BY ENERGY PUMP'S & SERVICE = 1-4" 3/4" PONY ON TOP OF PUMP = 144 3/4" PLAIN ROD'S = 1-6' 3/4" PONY UNDER POLISH ROD = 22' 1 1/4" POLISH ROD
	14:00 - 14:45	0.75	CM	9	90WOVR	TEST TUBNG TO 500# 15 MIN'S = GOOD TEST = BLED OFF PRESSURE & STROKED PUMP W / RIG BLOCK'S UP TO 500#, HELD 15 MIN'S = GOOD TEST
	14:45 - 17:00	2.25	MV	6	70DMOB	RD & RELEASED RIG & EQUIPMENT ON 07/28/2003 @ 17:00 PM = ATTENTION VERY SHORT TUBING STRING IN WELL, NEED HIGH PLATFORM TO STAND BACK TUBING IN DERRICK

**END OF WELL SCHEMATIC**

Well Name: SAN JUAN 32-8 UNIT # 249A  
 API #: 30-045-31626

Spud Date: 16-Jun-03  
 Spud Time: 19:30

TD Date: 19-Jun-03  
 Rig Release Date: 20-Jun-03

**Surface Casing**Date set: 17-Jun-03
☒ New  
☐ Used

Size 9 5/8 in  
 Set at 227 ft # Jnts: 6  
 Wt. 32.3 ppf Grade H-40  
 Hole Size 12.25 in  
 Excess Cmt 150 %  
 Est. T.O.C. SURFACE  
 Csg Shoe 227 ft  
 TD of surface 237 ft

Notified BLM @ 20:30 hrs  
 on 15-Jun-03

Notified NMOCD @ 20:30 hrs  
15-Jun-03

**Production Casing**Date set: 20-Jun-03
☒ New  
☐ Used

Size 5 1/2 in  
 Wt. 17 ppf Grade J-55 from 12 to 3751 ft  
 Hole Size 7 7/8 in # Jnts: 85  
 Wash Out: 150 % # Pups 0  
 Top of Lead Slurry Cement: Surface  
 Calculated Top of Tail Slurry Cement: 2551 ft

Notified BLM @ \_\_\_\_\_ hrs

on \_\_\_\_\_

Notified NMOCD @ \_\_\_\_\_ hrs

\_\_\_\_\_

FC 3704 ft

Csg Shoe 3751 ft

TD 3,761 ft

Mud Wt. @ TD 9.0 ppg

Trash Cap

11" 3M x 7-1/16" 5M Tubing Spool

9-5/8" 8 RD x 11" 3M Casing Head

**Surface Cement**Date cmt'd: 17-Jun-03

Lead: 150 sx Class G + 2% CaCl<sub>2</sub>  
+0.25lb/sx cell-o-flake, 1.16 cf/sx yield  
174 cuft slurry at 15.8 ppg  
 Displacement vol. & fluid.: 15.5 bbsl fresh wtr  
 Bumped Plug at: 06:05hrs w/ 330psi  
 Final Circ Press: 80 psi @ 0.2 bpm  
 Returns during job: YES  
 CMT Returns to surface: 15.0  
 Floats Held: No floats used  
 W.O.C. for 12.5 hrs (plug bump to drlg cmt)

**Production Cement**Date cmt'd: 20-Jun-03

Lead: 540 sx Class G cement  
+ 3% D079 Extender  
+ 0.25 lb/sx D029 cellophane flakes  
+ 5 lb/sx Pheno Seal  
+0.2% D046 Antifoam  
2.61 cf/sx, 1409 cuft slurry at 11.7 ppg  
 Tail: 180 sx 50:50 POZ / Class G cement  
+ 2% D020 Bentonite  
+ 2% S001 CaCl<sub>2</sub>  
+ 5 lb/sx Gilsonite  
+ 2.5 lb/sx Pheno Seal  
+ 0.25 lb/sx Cellophane Flakes  
+ 0.20% D046 Antifoam  
1.27 cf/sx, 228.6 cuft slurry at 13.5 ppg  
 Dspl: 82.5 bbsl 2% clay stab (L-64)  
 Bumped Plug at: 13:30 hrs w/ 1511 psi  
 Final Circ Pressure: 851 psi @ 2.4 bpm  
 Returns during job: YES  
 CMT Returns to surface: 90 bbsl  
 Floats Held: X Yes    No

**COMMENTS:**

Surface: No floats run. Ran saw tooth guide shoe at 227', aluminum baffle plate at 197'. Used a top plug.  
Shut in cement head with 150 psi and WOC 3 hrs before backing out landing joint.

Production: \_\_\_\_\_

**CENTRALIZERS:**

Surface: CENTRALZERS POSITIONED @ 217', 155', 114', & 43'.

Total: 4

Production: CENTRALIZERS @ 3741', 3668', 3581', 3492', 3404', 3316', & 216'

Total: 7

TURBOLIZERS @ 2420', 2376', & 2331'

Total: 3