

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: November 30, 2000

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
NMSF079341

a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator  
CONOCOPHILLIPS COMPANY

Contact: DEBORAH MARBERRY  
E-Mail: deborah.marberr@conocophillips.com

8. Lease Name and Well No.  
SJ 32 FED 23 2A

3. Address 5525 HIGHWAY 64  
FARMINGTON, NM 87401

3a. Phone No. (include area code)  
Ph: 832.486.2326

9. API Well No.  
30-045-31314-00-S1

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

Sec 23 T32N R9W Mer NMP  
At surface NWNW 780FNL 820FWL 36.97500 N Lat, 107.75440 W Lon

At top prod interval reported below

At total depth

10. Field and Pool, or Exploratory  
BASIN FRUITLAND COAL

11. Sec., T., R., M., or Block and Survey  
or Area Sec 23 T32N R9W Mer NMP

12. County or Parish  
SAN JUAN

13. State  
NM

14. Date Spudded  
03/03/2003

15. Date T.D. Reached  
03/05/2003

16. Date Completed  
☐ D & A ☒ Ready to Prod.  
05/05/2003

17. Elevations (DF, KB, RT, GL)\*  
6836 GL

18. Total Depth: MD 3756  
TVD

19. Plug Back T.D.: MD 3754  
TVD

20. Depth Bridge Plug Set: MD  
TVD

21. Type 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 analysis)

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
12.250	9.625 H-40	32.0	0	216		130		0	
8.750	7.000 J-55	20.0	0	3369		480		0	
6.250	5.500 J-55	16.0	3300	3756		0		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	3735							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) FRUITLAND COAL	3378	3703	3378 TO 3703	0.750	224	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3378 TO 3703	CAVITATE

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
05/15/2003	05/01/2003	24	→	0.0	1644.0	0.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
PITOT	SI	1360.0	→	0	1644	0		PGW	

28a. 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	
	SI		→						

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

ELECTRONIC SUBMISSION #22266 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* OFFICE

NMCCD

ACCEPTED FOR RECORD  
MAY 30 2003  
FARMINGTON 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 of 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
SAN JOSE	0	780		NACIMIENTO	871
NACIMIENTO	780	2304		OJO ALAMO	2151
OJO ALAMO	2304	2348		KIRTLAND	2171
				FRUITLAND	3271
				FRUITLAND COAL	3626
				PICTURED CLIFFS	3636

## 32. Additional remarks (include plugging procedure):

This well is a single producing Basin Fruitland Coal well. Attached are the daily summaries along with a wellbore schematic which includes liner information.

## 33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic 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):

Electronic Submission #22266 Verified by the BLM Well Information System.  
For CONOCOPHILLIPS COMPANY, sent to the Farmington  
Committed to AFMSS for processing by Adrienne Garcia on 05/30/2003 (03AXG1253SE)

Name (please print) DEBORAH MARBERRY

Title SUBMITTING CONTACT

Signature (Electronic Submission)

Date 05/23/2003

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.

**\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\***

Well Name: SAN JUAN 32 FED 23 #2A  
 API #: 30-045-31314

Spud Date: 3-Mar-03  
 Spud Time: 0100 hrs

TD Date: 5-Mar-03  
 Rig Release Date: 6-Mar-03

7 1/16" 5M x 2 1/16" Tree Adapter/Cap  
 11" 3M x 7 1/16" 5M Tubing Head  
 9-5/8" 8 RD x 11" 3M Casing Head

**Surface Casing** Date set: 3-Mar-03  
 Size 9 5/8 in  
 Set at 216 ft # Jnts: 5  
 Wt. 32.3 ppf Grade H-40  
 Hole Size 12 1/4 in  
 Wash Out 100 %  
 Est. T.O.C. SURFACE ft

☒ New  
☐ Used

Csg Shoe 216 ft  
 TD of surface 226 ft

Notified BLM @ 0010 hrs  
 on 3/3/2003  
 Notified NMOCD @ 0012 hrs  
 on 3/3/2003

**Intermediate Casing** Date set: 6-Mar-03  
 Size 7 in 81 jts  
 Set at 3369 ft 2 pups  
 Wt. 20 ppf Grade J-55  
 Hole Size 8 3/4 in  
 Wash Out 150 %  
 Est. T.O.C. SURFACE ft

☒ New  
☐ Used

Csg Shoe 3369 ft  
 TD of intermediate 3375 ft

Notified BLM @ 1835 hrs on 3/5/2003  
 Notified NMOCD @ 1837 hrs on 3/5/2003

**Production Liner** Date set: 2-May-03  
 Size 5 1/2 in Connections: LTC  
 Blank Wt. 15.5 ppf  
 Grade J-55  
 # Jnts: 10  
 Hole Size 6 1/4 in

☒ New  
☐ Used

PBTD 3754'  
 Liner Shoe 3756'

TD 3,756 ft

#### Surface Cement

Date cmt'd: 3-Mar-03  
 Lead: 130sx 50/50/Poz w/2% Gel 5#/sx  
Gilsonite, 3% CaCl<sub>2</sub>, 1/2 #/sx Flocele  
& .2% CFR-3 @ 13.5ppg & 1.32 cuft/sx  
 Displacement vol. & fluid.: 13.8 BBls. FW  
 Bumped Plug at: 1007 HRS  
 Pressure Plug bumped: 460 PSI  
 Returns during job: YES  
 CMT Returns to surface: 11 BBLS.  
 Floats Held: Yes No  
 W.O.C. for 11 hrs (plug bump to drlg cmt)

#### Intermediate Cement

Date cmt'd: 6-Mar-03  
 Lead: 385 sx Class B Cmt w/3%  
Econolite, 10 pps Gilsonite & 1/2 pps  
Flocele @ 11.4 ppg & 2.90 cu/ft/sx.  
 Tail: 95 sx 50/50/B/Poz Cmt w/2%  
Gel, 2% CaCl<sub>2</sub>, 5 pps Gilsonite & 1/4  
pps Flocele @ 13.5 ppg & 1.33 cuft/sx  
 Displacement vol. & fluid.: SEE BELOW  
 Bumped Plug at: 1200 HRS  
 Pressure Plug bumped: 2000 PSI  
 Returns during job: YES  
 CMT Returns to surface: 21 BBLS.  
 Floats Held: X Yes No

#### Liner Cement

**UNCEMENTED LINER**

#### COMMENTS:

Surface: NO FLOAT EQUIPMENT RAN. WELL SHUT-IN WITH 85 PSI.

Intermediate: DISPLACEMENT: 20 BBLS. FRESH WATER & 114.7 BBLS. SLIGHTLY POLYMERIZED DRILL WATER (8.4 PPG).  
LEFT APPROXIMATELY 25' CEMENT ON TOP OF WIPER PLUG (PB: 3300').

Production: 6 1/4" BIT, BIT SUB & FLOAT RUN ON BOTTOM JOINT OF LINER  
TOP OF LINER @ 3300'. 69' OF 7" CASING OVERLAP

#### CENTRALIZERS:

Surface: 206' OVER STOP RING, 137', 97' & 55' OVER CASING COLLARS.

Intermediate: CENTRALIZERS @ 3359', 3284', 3243', 3161', 3079', 3038' & 200'. TURBOLIZERS @ 2180', 2140' & 2098'

Total: 4

Total: 10

## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A

Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND

Spud Date: 03/03/2003

Event Name: Original Completion

Start: 04/14/2003

End: 05/05/2003

Contractor Name: KEY FOUR CORNERS

Rig Release: 05/05/2003

Group:

Rig Name: KEY ENERGY

Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
04/15/2003	07:00 - 07:30	0.50	MV	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	07:30 - 12:00	4.50	MV	1	80CMPL	MOVE KEY #29 TO SJ 32 FED 23 #2A LOCATION.
	12:00 - 18:30	6.50	CM	6	80CMPL	RU RIG. NU BOP STACK & RU BLOOIE LINES. SWIFN.
04/16/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING.
	07:30 - 10:30	3.00	CM	6	80CMPL	FINISH RIGGING UP. PU DCS & DP OUT OF BSKTS & PUT ON RACKS. STRAP ALL.
	10:30 - 12:00	1.50	CM	8	80CMPL	PRESSURE TEST BOTH SETS OF PIPE RAMS INDIVIDUALLY TO 250PSI- 5MIN & THEN 2500PS- 10MIN. HELD OK. TEST AIR LINES TO 1750PSI. HELD OK. TEST & CHART CSG & BLIND RAMS TO 250PSI- 5MIN, 600PSI- 30MIN & 1800PSI- 10MIN.
	12:00 - 15:15	3.25	CM	2	80CMPL	MU 6 1/4" RR BIT ON BIT SUB W/FLOAT. PU 9- 3 1/2" DCS FOLLOWED BY 99-JTS OF 2 7/8" DP(3295').
	15:15 - 16:30	1.25	CM	1	80CMPL	CONDUCT RIG INSPECTION W/CONOCO- PHILLIPS SAFETY PERSONNEL.
04/17/2003	07:00 - 07:30	0.50	DR	c	50PRDR	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	07:30 - 08:00	0.50	DR	2	50PRDR	TIH & TAG UP @ 3300'.
	08:00 - 09:00	1.00	DR	5	50PRDR	PU SWIVEL & UNLOAD CSG W/AIR.
	09:00 - 10:00	1.00	DR	1	50PRDR	DRILL OUT 30' OF SOFT CEMENT, FC & SHOE JT TO 3369' W/1800CFM AIR, 10BPH MIST W/1GAL FOAMER+INHIBITOR.
	10:00 - 18:45	8.75	DR	1	50PRDR	DRILL 6 1/4" OPEN HOLE FR 3370'- 3684' . WOB : 4-5K, 70 RPMs. CIRCULATING PRESSURE: 425PSI - 475PSI. RETURNS OF COAL, SAND & SHALE.
	18:45 - 19:15	0.50	DR	2	50PRDR	LOST AIR BOOSTER. PULL UP INSIDE 7" CSG LAYING DN 13-JTS OF DP.
	19:15 - 00:00	4.75	DR	z	50PRDR	TEAR DN AIR BOOSTER. SDFN.
04/18/2003	06:30 - 10:00	3.50	CM	c	50PRDR	CONOCO- PHILLIPS SAFETY STAND DOWN.
	10:00 - 12:30	2.50	CM	4	50PRDR	RT DP TO PU 2- ADDITIONAL 3 1/2" DCS. TOTAL DCS IN DRILL STRING- 11.
	12:30 - 15:00	2.50	WO	7	50PRDR	SWAP OUT AIR BOOSTER.
	15:00 - 17:00	2.00	CM	1	50PRDR	TIH FR INSIDE CSG SHOE & UNLOAD CSG & CIRCULATE EVERY 3-JTS BACK TO BOTTOM. CLEANED OUT FILL FR 3625'- 84'.
	17:00 - 19:00	2.00	CM	1	50PRDR	RESUMED DRILLING W/6 1/4" BIT W/4K & 70- RPMs. DRILLED FR 3684'- 3756'(TD).
	19:00 - 19:15	0.25	CM	1	80CMPL	SAFETY MEETING.
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R ON BOTTOM FR 3730'- 3756' W/1800CFM AIR- MIST. CIRCULATING PRESSURE - 450PSI. RETURNS OF COAL & SHALE CAVINGS FR DRILL OUT. CORRELATE COAL SHOWS ON MUD LOG. 3378'-80': DULL FLAT BLACK SATIN TO SEMI GLASSY COAL. 229 UNITS OF GAS. 3414'-16' & 3418'- 22': DULL FLAT BLACK TO SEMI BRIGHT SATIN COAL, POORLY CLEATED COAL. 265 UNITS OF GAS. 3438'- 46' SEMI BRIGHT SILKY BLACK COAL W/FAIR- GOOD CLEATING. 455 UNITS OF GAS. 3449'- 52', 3453'-55', 3457'- 61', 3462'- 64' & 3466'- 68': BRIGHT TO DULL SILKY SATIN BLOCKY BLACK COAL INTERBEDDED W/ DRK BRN CARBONACEOUS SHALE. FAIR- GOOD CLEATING. 396 UNITS OF GAS. 3476'- 81' & 3483'- 85': SEMI BRIGHT BLACK SATIN LUSTER COAL W/FAIR CLEATING. 362 UNITS OF GAS. 3496'- 97' & 3520'-21': DULL BLACK TO SEMI BRT SATIN COAL W/POOR CLEATING. NOT OVER 300 UNITS OF GAS.3562'- 63' & 3564'- 66': SEMI BRT BLACK SATIN COAL W/FAIR CLEATING. 340 UNITS OF GAS. 3600'- 04': BRT BLACK GLASSY COAL W/GOOD CLEATING. 388 UNITS OF GAS. 3631'-37', 3638'-42' & 3648'-49': SEMI BRT BLACK SILKY TO SATIN LUSTER COAL W/FAIR CLEATING. 433 UNITS OF GAS. 3698'-3701': SEMI BRT

## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A  
 Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND Spud Date: 03/03/2003  
 Event Name: Original Completion Start: 04/14/2003 End: 05/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 05/05/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
04/18/2003	19:15 - 06:00	10.75	CM	1	80CMPL	BLACK TO GLASSY COAL W/FAIR CLEATING. 562 UNITS OF GAS. TOTAL COAL- 59'.
04/19/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R & R CO COAL FR 3730'-56' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 450PSI. RETURNS OF MOD COAL & SHALE CHIPS W/MOD COAL, SHALE & SAND FINES. 2 1/2 BKTS PR/HR FR SAMPLE CATCHER. 70% COAL, 15% SHALE & 15% SAND.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION. RIG SERVICE.
	07:30 - 09:00	1.50	CM	1	80CMPL	R&R CO COAL FR 3730'- 56' W/1800CFM AIR & 10BPH MIST W/ 1GAL FOAMER+INHIBITOR. RETURNS OF MOD COAL & SHALE CHIPS W/MOD COAL, SHALE & SAND FINES. 2 1/2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 75% COAL, 15% SHALE & 10% SAND.
	09:00 - 09:30	0.50	CM	2	80CMPL	PULL UP INSIDE 7"(3325') LAYING DN 13-JTS OF 2 7/8" DP.
	09:30 - 10:30	1.00	CM	u	80CMPL	CONDUCT 60MIN FLOW TEST OUT 2" W/PITOT. 15MIN- 440MCFD, 30MIN- 490MCFD, 45MIN- 490MCFD & 60MIN- 490MCFD.
	10:30 - 11:30	1.00	CM	t	80CMPL	SI FOR 60MIN BUILD UP. 15MIN- 125PSI, 30MIN- 275PSI, 45MIN- 350PSI & 60MIN- 430PSI.
	11:30 - 16:30	5.00	CM	1	80CMPL	PERFORM AIR ASSIST SURGES #1,#2,#3,#4 & #5, PRESSURING UP TO 1100PSI ON EACH SURGE. PUMPED 2GAL OF FOAMER AHEAD OF 1ST SURGE & 1GAL ON EACH THEREAFTER FOLLOWED BY 3-5BBL H2O PADS SPACED OUT DURING EACH BUILD UP. RETURNS OF HVY MIST, H2O & A SML AMT OF COAL CHIPS ON LAST SURGE.
	16:30 - 19:00	2.50	CM	2	80CMPL	TIH & TAG UP @ 3560'.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING.
	19:15 - 22:00	2.75	CM	1	80CMPL	R&R CO COAL FR 3560'- 72' W/1800CFM AIR, 10BPH MIST W/1GAL FOAMER+INHIBITOR. CIRCULATING PRESSURE- 450PSI. RETURNS OF COAL & SHALE CHIPS & COAL FINES. 2 1/2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 75% COAL, 15% SHALE & 5% SAND.
04/20/2003	22:00 - 00:00	2.00	CM	1	80CMPL	R&R CO COAL FR 3602'- 32' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 450PSI. RETURNS OF MOD COAL & SHALE CHIPS W/MOD COAL FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 75% COAL, 15% SHALE, 5% SAND.
	00:00 - 06:00	6.00	CM	1	80CMPL	R&R CO COAL FR 3680'- 3700' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 450PSI. RETURNS OF MOD COAL CHIPS W/MOD COAL FINES. 3DN TO 1BKT PR/HR FR SAMPLE CATCHER. 85% COAL, 10% SHALE, 5% SAND.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO COAL FR 3680'- 3700' W/1800CFM AIR-MIST. RETURNS OF LT COAL CHIPS & LT COAL & SHALE FINES. 1BKT PR/HR FR SAMPLE CATCHER. 85% COAL, 10% SHALE, 5% SAND.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 08:15	0.75	CM	1	80CMPL	R&R CO COAL FR 3680'- 3700' W/1800CFM AIR- MIST. RETURNS OF LT COAL CHIPS & LT COAL FINES. 1BKT PR/HR FR SAMPLE CATCHER. 80% COAL 10% SHALE, 5% SAND.
	08:15 - 08:45	0.50	CM	2	80CMPL	PULL UP INSIDE 7" CSG LAYING DN 10-JTS OF DP.
	08:45 - 15:30	6.75	CM	1	80CMPL	PERFORM AIR ASSIST SURGES #6,#7,#8,#9 & #10 PRESSURING UP TO 1100PSI ON EACH SURGE. PUMPED 2GAL OF SOAP AHEAD OF 1ST SURGE FOLLOWED BY 1GAL AHEAD OF EACH SURGE THEREAFTER FOLLOWED BY 3- 5BBL H2O SPACERS THROUGH OUT THE BUILD UP. RETURNS OF HVY MIST, FOAM & DIRTY H2O W/ MINIMAL COAL & SHALE CHIPS TO SURFACE.
	15:30 - 16:00	0.50	CM	2	80CMPL	TIH PICKING UP DP & TAG FILL @ 3525'.

## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A

Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND

Spud Date: 03/03/2003

Event Name: Original Completion

Start: 04/14/2003

End: 05/05/2003

Contractor Name: KEY FOUR CORNERS

Rig Release: 05/05/2003

Group:

Rig Name: KEY ENERGY

Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
04/20/2003	16:00 - 17:30	1.50	CM	1	80CMPL	R&R CO COAL FR 3525'- 42' W/1800CFM AIR, 10BPH MIST & 1GAL OF FOAMER+INHIBITOR. RETURNS OF MOD- LT COAL & SHALE CHIPS W/MOD FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 75%COAL, 15%SHALE, 5% SAND.
	17:30 - 19:00	1.50	CM	1	80CMPL	R&R CO COAL FR 3542'- 3575' W/1800CFM AIR-MIST. RETURNS OF MOD- LT COAL & SHALE CHIPS W/MOD COAL FINES. 2 1/2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 75% COAL, 15% SHALE, 5% SAND.
	19:00 - 19:15	0.25	CM	1	80CMPL	SAFETY MEETING.
	19:15 - 23:00	3.75	CM	1	80CMPL	R&R CO COAL FILL FR 3575'- 3605' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 450PSI. RETURNS OF LT COAL CHIPS & MOD COAL FINES. 2 DN TO 1BKT PR HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.
	23:00 - 01:00	2.00	CM	1	80CMPL	R&R CO COAL FR 3605'- 36' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 450PSI. LT COAL CHIPS W/MOD COAL FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.
	01:00 - 06:00	5.00	CM	1	80CMPL	R&R CO RUNNING COAL FR 3636'- 50' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 450PSI. RETURNS OF MOD COAL & SHALE CHIPS W/ MOD-HVY FINES. 5 DN TO 3BKTS PR/HR. 85% COAL, 10%SHALE, 5% SAND.
04/21/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO COAL FR 3635'-60' W/1800CFM AIR,10BPH MIST W/1GAL FOAMER+INHIBITOR. CIRCULATING PRESSURE- 450PSI. RETURNS OF MOD COAL & SHALE CHIPS W/MOD COAL FINES. 3BKTS PR/HR FR SAMPLE CATCHER. 85% COAL, 15% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION. RIG SERVICE.
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R CO RUNNING COAL FR 3635'- 66' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 450PSI. RETURNS OF MOD COAL & SHALE CHIPS & HVY COAL FINES. 3BKTS PR/HR FR SAMPLE CATCHER. 85% COAL, 15% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING.
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R CO RUNNING COAL FR 3635'- 66' W/1800CFM AIR, 10BPH MIST & 1GAL FOAMER+INHIBITOR. CIRCULATING PRESSURE-450PSI. RETURNS OF MOD- COAL & SHALE CHIPS W/HVY COAL FINES. 3BKTS PR/HR FR SAMPLE CATCHER. 85% COAL, 15% SAND & SHALE.
04/22/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO COAL FR 3635'- 66' W/1800CFM AIR- 10BPH MIST W/1GAL FOAMER+INHIBITOR. CIRCULATING PRESSURE- 425PSI. RETURNS OF LT COAL & SHALE CHIPS & MOD- HVY COAL FINES. 3BKTS PR/HR. 90%COAL, 10% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R CO COAL FR 3635'- 66' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 425PSI. RETURNS OF LT COAL & SHALE CHIPS & MOD- LT COAL FINES. 3 DN TO 2 BKTS PR/HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING.
	19:15 - 20:30	1.25	CM	1	80CMPL	R&R CO COAL FR 3635'- 66' W/1800CFM AIR-MIST. CIRCULATING PRESSURE: 425PSI. RETURNS OF MOD-LT COAL FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.

## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A  
 Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND  
 Event Name: Original Completion Start: 04/14/2003 End: 05/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 05/05/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
04/22/2003	20:30 - 06:00	9.50	CM	1	80CMPL	R&R CO COAL FR 3666'- 3700' W/1800CFM AIR-MIST. CIRCULATING PRESSURE: 425PSI- 700PSI. RETURNS OF MOD COAL & SHALE CHIPS W/HVY COAL FINES. 4 DN TO 2 BKTS PR/HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.
04/23/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO COAL FR 3666'- 3700' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 450PSI. RETURNS OF LT COAL & SHALE CHIPS W/ LT COAL FINES. 1/2 BKT PR/HR FR SAMPLE CATCHER. 90%COAL, 10% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 08:45	1.25	CM	2	80CMPL	PULL UP INSIDE 7" CSG TO 3325' LAYING DN 11-JTS OF DP. CIRCULATED 1ST FOUR OUT.
	08:45 - 09:45	1.00	CM	u	80CMPL	FLOW TEST OUT 2" W/PITOT. 15MIN- 610MCFD, 30MIN- 869MCFD, 45MIN- 869MCFD, 60MIN- 869MCFD.
	09:45 - 10:45	1.00	CM	t	80CMPL	SI FOR 60MIN BUILD UP. 15MIN- 160PSI, 30MIN- 260PSI, 45MIN- 350PSI & 60MIN- 460PSI.
	10:45 - 16:15	5.50	CM	1	80CMPL	PERFORM AIR ASSIST SURGES #11,#12,#13 & #14 PRESSURING UP TO 1100PSI ON EACH SURGE. PUMPED 2GALS OF FOAMER AHEAD OF 1ST SURGE & 1GAL AHEAD OF EACH SURGE THEREAFTER. SPACED OUT 3- 5BBL H2O PADS IN EACH ONE. RETURNS OF COAL DUST, FOAM & H2O. LAST 2 SURGES BROUGHT BACK SOME COAL CHIPS & FINES.
	16:15 - 16:45	0.50	CM	2	80CMPL	TIH PICKING UP DP. TAG UP @ 3490'.
	16:45 - 19:00	2.25	CM	1	80CMPL	R&R CO COAL FR 3490'- 3512' W/1800CFM AIR, 10BPH MIST W/1GAL OF FOAMER+INHIBITOR. CIRCULATING PRESSURE- 450PSI. RETURNS OF LT COAL & SHALE CHIPS & MED- LT COAL FINES. 2 DN TO 1 BKT PR/HR FR SAMPLE CATCHER. 90% COAL, 10%SHALE & SAND.
	19:00 - 20:30	1.50	CM	1	80CMPL	R&R CO COAL FR 3512'- 42' W/1800CFM AIR-MIST. CIRCULATING PRESSURE 425PSI. RETURNS OF LT COAL CHIPS & MOD- LT COAL FINES. 1BKT PR/HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.
	20:30 - 21:30	1.00	CM	1	80CMPL	R&R CO COAL FR 3542'- 73' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 425PSI. RETURNS OF LT COAL CHIPS W/LT COAL FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.
	21:30 - 00:00	2.50	CM	1	80CMPL	R&R CO COAL FR 3573'- 3604' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 425PSI. RETURNS OF MOD-LT COAL CHIPS W/ HVY- MOD COAL FINES. 2 1/2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.
	00:00 - 04:00	4.00	CM	1	80CMPL	R&R CO COAL FR 3604'- 35' W/1800CFM AIR-MIST. CIRCULATING PRESSURE-450PSI. RETURNS OF MOD-LT COAL CHIPS W/HVY COAL FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.
	04:00 - 06:00	2.00	CM	1	80CMPL	R&R CO COAL FR 3635'- 3650' W/1800CFM AIR, 10BPH MIST W/1GAL FOAMER+INHIBITOR. CIRCULATING PRESSURE- 850PSI- 450PSI. RETURNS OF MOD COAL CHIPS W/HVY COAL FINES. 3 TO 3 1/2BKTS PR/HR FR SAMPLE CATCHER. 90% COAL, 10% SAND & SHALE.
04/24/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO RUNNING COAL FR 3635'- 50' W/1800CFM AIR, 10BPH MIST W/1GAL FOAMER+INHIBITOR. CIRCULATING PRESSURE- 450PSI. RETURNS OF MOD-LT COAL CHIPS W/HVY COAL FINES. 3 DN TO 2 BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.

## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A  
 Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND Spud Date: 03/03/2003  
 Event Name: Original Completion Start: 04/14/2003 End: 05/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 05/05/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
04/24/2003	07:00 - 08:00	1.00	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	08:00 - 19:00	11.00	CM	1	80CMPL	R&R CO RUNNING COAL FR 3635'- 58' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 425PSI. RETURNS OF MOD COAL CHIPS & HVY COAL FINES. 3 TO 5 BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING.
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R CO RUNNING COAL FR 3635'- 66' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD COAL CHIPS W/HVY COAL FINES. 5 DN TO 2 1/2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
04/25/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO RUNNING COAL FR 3635'- 66' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 425PSI. RETURNS OF LT COAL CHIPS & HVY- MOD COAL FINES. 2 1/2 BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 15:00	7.50	CM	1	80CMPL	R&R CO COAL FR 3635'- 66' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 425PSI. RETURNS OF LT COAL CHIPS & MOD COAL FINES. 2 1/2 DN TO 1BKT PR HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	15:00 - 19:00	4.00	CM	1	80CMPL	R&R CO COAL FR 3666'- 3700' W/1800CFM AIR, 10BPH MIST W/1GAL OF FOAMER+INHIBITOR. CIRCULATING PRESSURE- 425PSI. RETURNS OF MOD COAL CHIPS & HVY COAL FINES. 3 TO 4 BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
04/26/2003	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING.
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R CO COAL FR 3666'- 3700' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD- LT COAL CHIPS & HVY- MOD COAL FINES. 3 DN TO 3/4 BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO COAL FR 3666'- 3700' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT COAL CHIPS W/LT COAL FINES. 1/2 BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 08:00	0.50	CM	2	80CMPL	PULL UP INSIDE 7" CSG LAYING DN 11-JTS OF 2 7/8" DP.
	08:00 - 09:00	1.00	CM	u	80CMPL	CONDUCT FLOW TEST OUT 2" W/PITOT. 15MIN- 1.06MMCFD, 30MIN- 1.23MMCFD, 45MIN- 1.23MMCFD & 60MIN- 1.23MMCFD.
	09:00 - 10:00	1.00	CM	t	80CMPL	SI FOR BUILD UP. 15MIN- 180PSI, 30MIN- 260PSI, 45MIN- 350PSI & 60MIN- 460PSI.
	10:00 - 16:00	6.00	CM	1	80CMPL	PERFORM AIR ASSIST SURGES #15, #16, #17 & #18 PRESSURING UP TO 1100PSI ON EACH SURGE. PUMPED 2GAL OF FOAMER AHEAD OF 1ST SURGE & 1GAL ON EACH OF THE FOLLOWING. SPACED OUT 3- 5BBL H2O PADS ON EACH ONE. RETURNS OF HVY COAL DUST, H2O & DIRTY FOAM FOLLOWED BY RUNNING COAL.
	16:00 - 16:45	0.75	CM	2	80CMPL	TIH PICKING UP DP. TAG UP @ 3542'.
	16:45 - 18:00	1.25	CM	1	80CMPL	R&R CO COAL FR 3512'-42' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT COAL CHIPS & MOD COAL FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	18:00 - 19:00	1.00	CM	1	80CMPL	R&R CO COAL FR 3542'- 75' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT COAL CHIPS & HVY- MOD COAL FINES. 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5%



## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A  
 Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND Spud Date: 03/03/2003  
 Event Name: Original Completion Start: 04/14/2003 End: 05/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 05/05/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
04/26/2003	18:00 - 19:00	1.00	CM	1	80CMPL	SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING.
	19:15 - 20:00	0.75	CM	1	80CMPL	R&R CO COAL FR 3542'- 73' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT COAL CHIPS & MOD COAL FINES. 2 DN TO 1BKT PR/ HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	20:00 - 21:45	1.75	CM	1	80CMPL	R&R CO COAL FR 3573'- 3603' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT COAL CHIPS & MOD COAL FINES. 2 DN TO 1BKT PR HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	21:45 - 02:00	4.25	CM	1	80CMPL	R&R CO COAL FR 3603'- 34' W/1800CFM AIR, 10BPH MIST W/1GAL FOAMER+INHIBITOR. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD COAL CHIPS W/HVY COAL FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
04/27/2003	02:00 - 06:00	4.00	CM	1	80CMPL	R&R CO RUNNING COAL FR 3634'- 50' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD COAL CHIPS & HVY COAL FINES. 4 DN TO 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO RUNNING COAL FR 3634'- 50' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD- LT COAL CHIPS W/HVY COAL FINES. 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R CO RUNNING COAL FR 3634'- 55' W/1800CFM AIR, 10BPH MIST W/1GAL FOAMER+INHIBITOR. CIRCULATING PRESSURE- 400PSI TO 800PSI BACK DN TO 400PSI. RETURNS OF HVY COAL CHIPS & HVY COAL FINES. 5 TO 6BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	1	80CMPL	SAFETY MEETING.
04/28/2003	19:15 - 06:00	10.75	CM	1	80CMPL	R&R CO RUNNING COAL FR 3634'- 60' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD COAL CHIPS & HVY COAL FINES. 5 DN TO 3 1/2BKTS PR/HR FR SAMPLE CATCHER.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO RUNNING COAL FR 3634'- 3660' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT TO MOD COAL CHIPS W/HVY COAL FINES. 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R CO RUNNING COAL FR 3634'- 60' W/1800CFM AIR, 10BPH MIST W/1GAL OF FOAMER+INHIBITOR. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD- LT COAL CHIPS W/HVY COAL FINES. 3 TO 4BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING.
04/29/2003	19:15 - 06:00	10.75	CM	1	80CMPL	R&R CO RUNNING COAL FR 3634'- 60' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 400PSI UP TO 550PSI THEN BACK DN TO 375PSI. RETURNS OF MOD TO LT COAL CHIPS W/HVY COAL FINES. 4 DN TO 2 1/2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO COAL FR 3635'- 60' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD COAL CHIPS & HVY FINES. 3 BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.

## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A  
 Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND  
 Event Name: Original Completion  
 Contractor Name: KEY FOUR CORNERS  
 Rig Name: KEY ENERGY

Start: 04/14/2003  
 Rig Release: 05/05/2003  
 Rig Number: 29

Spud Date: 03/03/2003  
 End: 05/05/2003  
 Group:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
04/29/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R CO RUNNING COAL FR 3635'- 66' W/1800CFM AIR, 10BPH MIST W/1GAL FOAMER+INHIBITOR. CIRCULATING PRESSURE- 400PSI UP TO 700PSI & BACK DN TO 400PSI. RETURNS OF MOD - LT COAL CHIPS & HVY COAL FINES. 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING.
	19:15 - 04:00	8.75	CM	1	80CMPL	R&R CO COAL FR 3635'- 66' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 375PSI. RETURNS OF LT- COAL CHIPS & MOD COAL FINES. 3 DN TO 1BKT PR HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	04:00 - 06:00	2.00	CM	1	80CMPL	R&R CO COAL FR 3666'- 80' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD COAL CHIPS & HVY COAL FINES. 3 BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R CO COAL FR 3666'- 3680' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT COAL CHIPS W/HVY COAL FINES. 3 BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
04/30/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R CO COAL FR 3666'- 3700' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF MOD- LT COAL CHIPS W/HVY- MOD COAL FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING.
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R CO COAL FR 3666'- 3700' W/1800CFM AIR, 10BPH MIST W/1GAL FOAMER+INHIBITOR+ 1/2GAL POLYMER. CIRCULATING PRESSURE- 375PSI. RETURNS OF LT COAL CHIPS & LT COAL FINES. 1 DN TO 1/2BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O AT 3700' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLs. RETURNS TO SURFACE = LIGHT COAL & FINES.
	07:00 - 07:30	0.50	CM	c	80CMPL	1 DN TO 1/2 BUCKET PER HOUR OFF SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
05/01/2003	07:30 - 10:00	2.50	CM	1	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL R&R C/O AT 3700' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLs. RETURNS TO SURFACE = LIGHT COAL & FINES.
	10:00 - 10:30	0.50	CM	1	80CMPL	1 DOWN TO 1/2 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	10:30 - 11:00	0.50	CM	4	80CMPL	CIRCULATE WITH 1800 CFM AIR TO DRY UP HOLE FOR FLOW TEST
	11:00 - 12:00	1.00	CM	u	80CMPL	POOH TO 7" CASING SHOE AT 3354' FOR FLOW TEST FLOW TEST WELL THROUGH OPEN 2" LINE AND PITOT TUBE AS FOLLOWS: 15 MIN = 1340 MMCFD 30 MIN = 1644 MMCFD 45 MIN = 1644 MMCFD 1 HR = 1644 MMCFD
	12:00 - 13:00	1.00	CM	1	80CMPL	FLOW WELL TO PIT THROUGH BLOOIE LINE NATURAL
	13:00 - 13:30	0.50	CM	4	80CMPL	RIH FROM 7" CASING SHOE, TAG FILL AT 3660'
	13:30 - 19:00	5.50	CM	1	80CMPL	R&R C/O F/ 3660' - T/3680' W/1800CFM AIR, 10 BPH MIST W/1GAL

## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A  
 Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND Spud Date: 03/03/2003  
 Event Name: Original Completion Start: 04/14/2003 End: 05/05/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 05/05/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
05/01/2003	13:30 - 19:00	5.50	CM	1	80CMPL	FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLS. RETURNS TO SURFACE = HEAVY COAL & FINES. 3 - 4 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	19:00 - 19:30	0.50	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	19:30 - 06:00	10.50	CM	1	80CMPL	R&R C/O F/ 3680' - T/3695' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLS. RETURNS TO SURFACE = HEAVY COAL & FINES. 4 DOWN TO 1 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
05/02/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O F/ 3680' - T/3695' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLS. RETURNS TO SURFACE = MED COAL & FINES. 1 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	07:30 - 08:00	0.50	CM	1	80CMPL	R&R C/O AT 3700' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLS. RETURNS TO SURFACE = MED COAL & FINES. DOWN TO 1/2 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	08:00 - 08:30	0.50	CM	1	80CMPL	CIRCULATE WITH 1800 CFM AIR TO DRY UP HOLE
	08:30 - 09:00	0.50	CM	4	80CMPL	POOH TO 7" CASING SHOE AT 3354'
	09:00 - 11:00	2.00	CM	1	80CMPL	FLOW WELL TO PTI THROUGH BLOOIE LINES TWO HRS
	11:00 - 11:30	0.50	CM	4	80CMPL	RIH FROM SHOE, TAG FILL AT 3667'
	11:30 - 19:00	7.50	CM	1	80CMPL	R&R C/O F/3667' - T/3728' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLS. RETURNS TO SURFACE = MED COAL & FINES. 1 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE, VERY HARD C/O F/3700' - T/3728' (RAT HOLE) NO TIGHT HOLE, JUST PACKED FILL
	19:00 - 19:30	0.50	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	19:30 - 22:30	3.00	CM	1	80CMPL	R&R C/O F/3728' - T/3755' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLS. RETURNS TO SURFACE = MED COAL & FINES. 2 DOWN TO 1/2 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	22:30 - 23:00	0.50	CM	1	80CMPL	CIRCULATE WITH 1800 CFM AIR TO DRY UP HOLE
	23:00 - 23:30	0.50	CM	4	80CMPL	POOH TO 7" CASING SHOE AT 3354'
	23:30 - 01:30	2.00	CM	1	80CMPL	FLOW WELL TO PTI THROUGH BLOOIE LINES TWO HRS
	01:30 - 02:00	0.50	CM	4	80CMPL	RIH FROM SHOE, TAG FILL AT 3660'
	02:00 - 06:00	4.00	CM	1	80CMPL	R&R C/O F/3660' - T/3755' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLS. RETURNS TO SURFACE = MED COAL & FINES. 2 DOWN TO 1/2 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE, WELL BORE APPEARS TO BE STABLE
05/03/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O AT 3755' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER, INHIBITOR & 1/2 GAL POLYMER/ 10 BBLS. RETURNS TO SURFACE = LIGHT COAL & FINES. DOWN TO 1/2 - 1 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	07:30 - 10:00	2.50	CM	1	80CMPL	R&R C/O AT 3755' W/1800CFM AIR, 10 BPH MIST W/1GAL FOAMER,

## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A

Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND

Spud Date: 03/03/2003

Event Name: Original Completion

Start: 04/14/2003

End: 05/05/2003

Contractor Name: KEY FOUR CORNERS

Rig Release: 05/05/2003

Group:

Rig Name: KEY ENERGY

Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
05/03/2003	07:30 - 10:00	2.50	CM	1	80CMPL	INHIBITOR & 1/2 GAL POLYMER/ 10 BBLs. RETURNS TO SURFACE = LIGHT COAL & FINES. 1/2 OR LESS BUCKET PER HOUR OFF SAMPLE CATCHER
	10:00 - 11:30	1.50	CM	4	80CMPL	POOH WITH BIT
	11:30 - 12:00	0.50	CS	7	80CMPL	CHANGE OUT PIPE RAMS FOR CASING RAMS
	12:00 - 13:00	1.00	CS	1	80CMPL	PICK UP 10 JOINTS OF 5-1/2", 15.5#, J-55, LT&C CASING AND LINER HANGER
	13:00 - 15:00	2.00	CS	1	80CMPL	RIH WITH LINER AND DRILL PIPE
	15:00 - 15:30	0.50	CS	1	80CMPL	SET LINER HANGER AS FOLLOWS: SETTING SLEEVE = 3298.61' - 3299.61' LINER HANGER = 3299.61' - 3303.41' 10 JTS CSG = 3303.41' - 3754.05' BIT SUT W/FLOAT = 3754.05' - 3755.40' 6-1/4" BIT = 3755.40' - 3756.00'
	15:30 - 18:30	3.00	CM	4	80CMPL	TRIP OUT OF THE HOLE, LAY DOWN DRILL PIPE AND DRILL COLLARS
	18:30 - 19:00	0.50	CM	1	80CMPL	SECURE WELL, SHUT DOWN FOR THE NIGHT
	07:00 - 07:30	0.50	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	07:30 - 08:00	0.50	CM	1	80CMPL	SHUT IN CASING PRESSURE = 930 PSI BLOW WELL DOWN TO PIT
05/04/2003	08:00 - 11:00	3.00	CM	q	80CMPL	RIG UP BLUE JET WIRE LINE PERFORATE FRUITLAND COAL INTERVAL AS FOLLOWS: 3-1/8" HOLLOW CARRIER GUNS, 4 JSPF 3378' - 3380' - 2' - 8 HOLES 3414' - 3416' - 2' - 8 HOLES 3418' - 3422' - 4' - 16 HOLES 3438' - 3446' - 8' - 32 HOLES 3450' - 3452' - 2' - 8 HOLES 3454' - 3456' - 2' - 8 HOLES 3458' - 3460' - 2' - 8 HOLES 3462' - 3464' - 2' - 8 HOLES 3466' - 3468' - 2' - 8 HOLES 3477' - 3481' - 4' - 16 HOLES 3482' - 3486' - 4' - 16 HOLES 3561' - 3565' - 4' - 16 HOLES 3600' - 3604' - 4' - 16 HOLES 3632' - 3636' - 4' - 16 HOLES 3638' - 3642' - 4' - 16 HOLES 3697' - 3703' - 6' - 24 HOLES TOTAL OFF 56' AND 224 HOLES PICK UP 2-3/8", 4.7#, J-55, EUE 8RD TUBING RIH AND LAND TUBING AS FOLLOWS: KB = 12.00 @ 12.00' 118 JTS TBG = 3687.04' @ 3699.04' 1.78" ID F-NIPPLE = 0.80' @ 3699.84' 2-3/8" PERF SUB = 6.10' @ 3705.94' 2-3/8" ORANGE PEEL = 29.85' @ 3735.79'
	11:00 - 13:30	2.50	CM	2	80CMPL	NIPPLE DOWN BOP, NIPPLE UP WELL HEAD
	13:30 - 15:00	1.50	CM	e	80CMPL	RUN RODS AND PUMP AS FOLLOWS: 1 = POLISH ROD 1 = 3/4" STD PONY ROD 147 = 3/4" STD SUCKER ROD
	15:00 - 17:00	2.00	CM	i	80CMPL	

## Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 23 #2 000002A

Common Well Name: SAN JUAN 32 FED 23 # 2A FRUITLAND

Spud Date: 03/03/2003

Event Name: Original Completion

Start: 04/14/2003

End: 05/05/2003

Contractor Name: KEY FOUR CORNERS

Rig Release: 05/05/2003

Group:

Rig Name: KEY ENERGY

Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
05/04/2003	15:00 - 17:00	2.00	CM	I	80CMPL	1 = INSERT PUMP = 2" X 1-1/4" X 8' X 8'3" X 12'3" RHAC-Z 83" STROKE, HEXPLUG T.V., VERTICAL DISCHARGE GUIDE, 4-PIECE INSERT GUIDED CAGES, 6" STRAINER NIPPLE
	17:00 - 18:00	1.00	CM	9	80CMPL	LOAD TUBING WITH 15 BBLs PRODUCED WATER PRESSURE TEST PUMP TO 500 PSI - TEST GOOD STROKE PUMP - PRESSURE UP TO 500 PSI - TEST GOOD
	18:00 - 19:00	1.00	CM	1	80CMPL	SECURE WELL, SHUT IN FOR THE NIGHT
05/05/2003	07:00 - 07:30	0.50	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	07:30 - 15:00	7.50	MV	6	80CMPL	RIG DOWN SERVICE UNIT AND RELATED EQUIPMENT PLAN TO MOVE TO THE SAN JUAN 32-7 #208A ON 05/50/2003

Well Name: SAN JUAN 32 FED 23 #2A  
API #: 30-045-31314

Spud Date: 3-Mar-03  
Spud Time: 0100 hrs

TD Date: 5-Mar-03  
Rig Release Date: 6-Mar-03

7 1/16" 5M x 2 1/16" Tree Adapter/Cap  
11" 3M x 7 1/16" 5M Tubing Head  
9-5/8" 8 RD x 11" 3M Casing Head

**Surface Casing** Date set: 3-Mar-03  
Size 9 5/8 in  
Set at 216 ft # Jnts: 5  
Wt. 32.3 ppf Grade H-40  
Hole Size 12 1/4 in  
Wash Out 100 %  
Est. T.O.C. SURFACE ft

Csg Shoe 216 ft  
TD of surface 226 ft

Notified BLM @ 0010 hrs  
on 3/3/2003  
Notified NMOCD @ 0012 hrs  
on 3/3/2003

**Intermediate Casing** Date set: 6-Mar-03  
Size 7 in 81 jts  
Set at 3369 ft 2 pups  
Wt. 20 ppf Grade J-55  
Hole Size 8 3/4 in  
Wash Out 150 %  
Est. T.O.C. SURFACE ft

Csg Shoe 3369 ft  
TD of intermediate 3375 ft

Notified BLM @ 1835 hrs on 3/5/2003  
Notified NMOCD @ 1837 hrs on 3/5/2003

**Production Liner** Date set: 2-May-03  
Size 5 1/2 in Connections: LTC  
Blank Wt. 15.5 ppf  
Grade J-55  
# Jnts: 10  
Hole Size 6 1/4 in

PBTD 3754'  
Liner Shoe 3756'

TD 3,756 ft

**Surface Cement**

Date cmt'd: 3-Mar-03  
Lead : 130sx 50/50/Poz w/2% Gel 5#/sx  
Gilsonite, 3% CaCl<sub>2</sub>, 1/2 #/sx Flocele  
& .2% CFR-3 @ 13.5ppg & 1.32 cuft/sx  
Displacement vol. & fluid.: 13.8 BBls. FW  
Bumped Plug at: 1007 HRS  
Pressure Plug bumped: 460 PSI  
Returns during job: YES  
CMT Returns to surface: 11 BBLS.  
Floats Held: Yes No  
W.O.C. for 11 hrs (plug bump to drlg cmt)

**Intermediate Cement**

Date cmt'd: 6-Mar-03  
Lead : 385 sx Class B Cmt w/3%  
Econolite, 10 pps Gilsonite & 1/2 pps  
Flocele @ 11.4 ppg & 2.90 cu/ft/sx.  
Tail : 95 sx 50/50/B/Poz Cmt w/2%  
Gel, 2% CaCl<sub>2</sub>, 5 pps Gilsonite & 1/4  
pps Flocele @ 13.5 ppg & 1.33 cuft/sx  
Displacement vol. & fluid.: SEE BELOW  
Bumped Plug at: 1200 HRS  
Pressure Plug bumped: 2000 PSI  
Returns during job: YES  
CMT Returns to surface: 21 BBLS.  
Floats Held: X Yes No

**Liner Cement****UNCEMENTED LINER****COMMENTS:**

Surface: NO FLOAT EQUIPMENT RAN. WELL SHUT-IN WITH 85 PSI.

Intermediate: DISPLACEMENT: 20 BBLS. FRESH WATER & 114.7 BBLS. SLIGHTLY POLYMERIZED DRILL WATER (8.4 PPG).  
LEFT APPROXIMATELY 25' CEMENT ON TOP OF WIPER PLUG (PB: 3300').

Production: 6 1/4" BIT, BIT SUB & FLOAT RUN ON BOTTOM JOINT OF LINER  
TOP OF LINER @ 3300'. 69' OF 7" CASING OVERLAP

**CENTRALIZERS:**

Surface: 206' OVER STOP RING, 137', 97' & 55' OVER CASING COLLARS.

Intermediate: CENTRALIZERS @ 3359', 3284', 3243', 3161', 3079', 3038' & 200'. TURBOLIZERS @ 2180', 2140' & 2098'

Total: 4

Total: 10