

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.  
NMSF079004

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No. NMNM78424B		
2. Name of Operator CONOCOPHILLIPS COMPANY			8. Lease Name and Well No. SAN JUAN 32-8 221A		
3. Address PO BOX 2197 WL3 6054 HOUSTON, TX 77252			9. API Well No. 30-045-32406-00-S1		
4. Location of Well (Report location clearly and in accordance with Federal requirements) Sec 9 T31N R8W Mer NMP At surface SWNW 2115FNL 670FWL At top prod interval reported below At total depth			10. Field and Pool, or Exploratory BASIN FRUITLAND COAL		
14. Date Spudded 08/02/2004			15. Date T.D. Reached 08/05/2004		
16. Date Completed <input type="checkbox"/> D & W <input checked="" type="checkbox"/> Ready to Prod 08/18/2004			17. Elevations (DF, KB, RT, GL)* 6615 GL		
18. Total Depth: MD 3608 TVD		19. Plug Back T.D.: MD 3607 TVD		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) MUDLOG			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> 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	235		150		0	
8.750	7.000 J-55	20.0	0	3270		530		0	
6.250	5.500 J-55	16.0	3248	3608					

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	3578							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) FRUITLAND COAL	3314	3511	3314 TO 3511	0.750	308	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3274 TO 3608	UNDERREAMED THE 6.25 HOLE TO 9.5
3314 TO 3511	SURGED FOR 3 DAYS

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
08/18/2004	08/16/2004	24	→	0.0	1994.0	0.0			GAS PUMPING UNIT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
2"	SI	45.0	→	0	1994	0		GSI	

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.	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 #35463 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

NMOCOD

ACCEPTED FOR RECORD  
SEP 03 2004  
BLM REVISIONS OFFICE  
BY   508

**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.)**

**VENTED**

**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	824		NACIMIENTO	648
NACIMIENTO	824	2134		OJO ALAMO	2248
OJO ALAMO	2134	2238		KIRTLAND	2308
				FRUITLAND	3098

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

This completion is a single zone producing well from the Basin Fruitland Coal. Attached are the summary reports and schematic. This well has not delivered yet.

**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 #35463 Verified by the BLM Well Information System.  
For CONOCOPHILLIPS COMPANY, sent to the Farmington  
Committed to AFMSS for processing by ADRIENNE BRUMLEY on 09/03/2004 (04AXB3329SE)**

Name (please print) CHRIS GUSTARTIS

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 09/02/2004

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 \*\***

END OF WELL SCHEMATIC

Well Name: San Juan 32-8 #221A  
API #: 30-045-32406  
Location: 2115' FNL & 670' FWL  
Sec. 9 - T31N - R8W  
San Juan County, NM  
Elevation: 6615' GL (above MSL)  
Drl Rig RKB: 13' above Ground Level  
Datum: Drl Rig RKB = 13' above GL

Note - this well is equipped with rods & pump  
7-1/16" 3M x 2-3/8" EUE 8rd Bonnet  
11" 3M x 7-1/16" 3M Tubing Head  
9-5/8" 8 RD x 11" 3M Casing Head

Spud: 2-Aug-04  
Release Drl Rig: 5-Aug-04  
Move In Cav Rig: 9-Aug-04  
Release Cav Rig: 17-Aug-04

**Surface Casing** Date set: 2-Aug-04  
Size 9 5/8 in  
Set at 235 ft # Jnts: 5  
Wt. 32.3 ppf Grade H-40  
Hole Size 12 1/4 in Conn STC  
Excess Cmt 125 %  
T.O.C. SURFACE

Csg Shoe 235 ft  
TD of 12-1/4" hole 245 ft

Notified BLM @ 15:18 hrs on 31-Jul-04  
Notified NMOCD @ 15:20 hrs on 31-Jul-04

**Intermediate Casing** Date set: 5-Aug-04  
Size 7 in 77 jts  
Set at 3270 ft 0 pups  
Wt. 20 ppf Grade J-55  
Hole Size 8 3/4 in Conn STC  
Excess Cmt 160 %  
T.O.C. SURFACE Bottom of Casing Shoe 3270 ft  
Pup @ ft TD of 8-3/4" Hole 3278 ft  
Pup @ ft

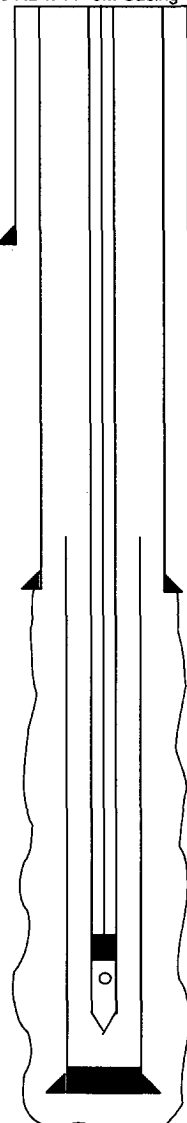
Notified BLM @ 19:00 hrs on 03-Aug-04  
Notified NMOCD @ 19:02 hrs on 03-Aug-04

**Production Liner** Date set: 15-Aug-04  
Size 5 1/2 in  
Nominal Wt. 15.5 ppf  
Grade J-55 Connections: LTC  
# Jnts: 8  
Hole Size 6.25 / 9.5 inches  
Underreamed 6-1/4" hole to 9.5" from 3274' to 3608'  
Top of Liner 3248 ft  
PBD 3607 ft  
Bottom of Liner 3608 ft

☒ New  
☐ Used

☒ New  
☐ Used

☒ New  
☐ Used



TD 3,608 ft

**Surface Cement**

Date cmt'd: 2-Aug-04  
Lead : 150 sx Class G Cement  
+ 2% BWOC S001 CaCl2  
+ 0.25 lb/sx D130 Cellophane Flakes  
1.16 cuft/sx, 174 cuft slurry at 15.8 ppg  
Displacement: 15.3 bbls fresh wtr  
Bumped Plug at: 10:43 hrs w/ 330 psi  
Final Circ Press: 150 psi @ 0.6 bpm  
Returns during job: YES  
CMT Returns to surface: 15 bbls  
Floats Held: No floats used  
W.O.C. for 6.00 hrs (plug bump to start NU BOP)  
W.O.C. for 11.25 hrs (plug bump to test csg)

**Intermediate Cement**

Date cmt'd: 5-Aug-04  
Lead : 430 sx Class G Cement  
+ 3% D079 Extender  
+ 0.25 lb/sx D029 Cellophane Flakes  
+ 0.2% D046 Antifoam  
+ 0.05 gal/sx D047 Antifoam  
2.61cuft/sx, 1122.3 cuft slurry at 11.7 ppg  
Tail : 100 sx 50/50 POZ : Class G cement  
+ 2% D020 Bentonite  
+ 2% S001 Calcium Chloride  
+ 5 lb/sx D024 Gilsontite  
+ 0.25 lb/sx D029 Cellophane Flakes  
+ 0.1% D046 Antifoam  
1.27 cuft/sx, 127 cuft slurry at 13.5 ppg  
Displacement: 130.7 bbls  
Bumped Plug at: 03:11 hrs w/ 1450 psi  
Final Circ Press: 800 psi @ 0.7 bpm  
Returns during job: YES  
CMT Returns to surface: 20 bbls  
Floats Held: ☒ Yes ☐ No

**UNCEMENTED LINER**

Schematic prepared by:  
Steven O. Moore, Drilling Engineer  
30-Aug-2004

**COMMENTS:**

9-5/8" Surf:	No float equipment was run. Ran a guide shoe and an aluminum baffle plate 1 jt above the guide shoe @ 190'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 225', 146', 103', & 59'. Total: 4
7" Intermediate	DISPLACED W/ 20 BBLs. FRESH WATER AND 110.7 BBLs SLIGHTLY POLYMERIZED 8.4PPG DRILLING MUD. CENTRALIZERS @ 3260', 3185', 3100', 3015', 2929', 2847', 205', 78', & 40'. TURBOLIZERS @ 2331', 2287', & 2244'. Total: 9
5.5" Liner	Ran 6-1/6" OD bladed shoe with float valve on bottom of liner. Ran liner w/ TIW H-Latch Drop Off Tool (no liner hanger). Total: 3
Perforations	Perforated 5-1/2" liner with guns on E-line at 4 spf, 0.75" diameter, 120 degree phased holes Perf. Intervals: 3314'-3318', 3322'-3324', 3328'-3330', 3332'-3336', 3370'-3374', 3376'-3382', 3416'-3436', 3470'-3486', 3490'-3504', 3506'-3511'. TOTAL SHOTS 308.
Tubing	30.15' x 2-7/8" OD Orange Peeled Mud Anchor with eight each 0.25" x 8" slots just below the upset, 2-7/8" x 2-3/8" EUE 8rd crossover collar, 2-3/8" OD (1.78" ID) F-Nipple 1 ea 2-3/8" OD pup jt 4.10 ft long and 112 jts 2-3/8" 4.7# J-55 EUE 8rd tubing Bottom of Mud Anchor at 3578'. F-Nipple at 3546' MD RKB.
Pump & Rods	12" long strainer attached below 1-1/2" RWAC-Z insert pump, 1 ea 4' x 3/4" OD rod sub above pump 141 ea 25' x 3/4" OD rods, space out with 1 ea 8' and 1 ea 6' rod subs & 1 ea 1-1/4" OD x 22' polished rod Set pump in F-Nipple at 3546' MD RKB

This well was NOT cavitated.

## Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT 221A  
 Common Well Name: SAN JUAN 32-8 UNIT 221A  
 Event Name: COMPLETION  
 Contractor Name: KEY ENERGY SVCS  
 Rig Name: KEY ENERGY

Start: 4/3/2004  
 Rig Release: 8/17/2004  
 Rig Number: 22  
 Spud Date: 8/2/2004  
 End: 8/17/2004  
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/10/2004	10:00 - 12:00	2.00	MOVE	MOB	COMPZN	SAFETY MEETING PRIOR TO STARTING OPERATIONS-
	12:00 - 14:30	2.50	WELCTL	NUND	COMPZN	MIRU KEY 22 & SPOT AUXILARY EQUIPMENT- SI 7" INTERMEDIATE CSG -0- PSIG- LEVEL 7-1/16" X 3M TBG HEAD, PT SECONDARY SEAL T/1800 PSIG (OK)- NU BOPE- NOTIFIED BLM @ 05:00, 8-10-2004 OF PENDING CSG INTEGRITY TEST.
	14:30 - 18:00	3.50	RIGMNT	RGRP	COMPZN	WELD HAND RAIL POCKETS ON RIG WALKWAY- FABRICATE DRIP PAN FOR DRAWWORKS WHILE RIGGING UP AUXILARY EQUIPMENT.
	18:00 - 18:30	0.50	WELLPR	RURD	COMPZN	SDON.
8/11/2004	09:30 - 18:30	9.00	WELLPR	RURD	COMPZN	SAFETY MEETING PRIOR TO STARTING OPERATIONS- RIG UP COMPLETION RIG & AUXILARY EQUIPMENT- SDON.
	18:30 - 19:00	0.50	WELLPR	OTHR	COMPZN	SDON.
8/12/2004	07:00 - 08:30	1.50	WELLPR	RURD	COMPZN	SAFETY MEETING PRIOR TO STARTING OPERATIONS- RIG UP AUXILARY EQUIPMENT.
	08:30 - 09:30	1.00	WELCTL	BOPE	PROD1	SI 7" INTERMEDIATE CSG -0- PSIG- PT BLIND RAMS & PERFORM CASING INTEGRITY TEST T/ 250 PSIG-3MIN & 1800 PSIG-30 MIN (OK) NOTIFIED BLM @ 05:00, 8-10-2004 OF PENDING CSG INTEGRITY TEST.
	09:30 - 11:00	1.50	WELLPR	SFTY	PROD1	RIG INSPECTION AND CORRECTIONS.
	11:00 - 15:00	4.00	RPCOMP	PULD	PROD1	SI 7" INTERMEDIATE CSG PRESSURE -0- PSIG- MU 6-1/4" RR XK-20T TRI-CONE INSERT BIT JETTED W/ 3-20'S W/ 3-1/2" REG BOX x 2-3/8"IF BOX BIT SUB BORED, TAPPED, AND CONTAINING A FLOAT VALVE, W/ 12-(3-1/2") DC'S-TBHA 377.95', W/ 2-3/8"IF X 2-7/8" AOH X-O SUB, W/ 91- JOINTS 2-7/8" AOH DRILL PIPE T/3215'KB, TOC.
	15:00 - 16:00	1.00	EVALWB	CIRC	PROD1	RU POWER SWIVEL & CIRCULATE 7" WELLBORE CLEAN W/ Kfc PRODUCED WATER.
	16:00 - 18:00	2.00	WELCTL	BOPE	PROD1	PT #2 PIPE RAMS CHOKE MANIFOLD / 7" CASING T/250 PSIG -3 MIN & 1800 PSIG -15MIN (OK) PT #1 PIPE RAMS & HCR VALVES T/250 PSIG-3MIN & 1800 PSIG-15MIN (OK) ISOLATE AND CHECK DRILL PIPE FLOAT VALVE (OK)- PT STANDPIPE / KELLY HOSE / POWER SWIVEL / & 2-7/8" TIW VALVE T/ 2000 PSIG-10 MIN (OK) . PT AIR LINES & MIST PUMP T/1350 PSIG (OK).
	18:00 - 06:00	12.00	DRILL	DRLG	PROD1	BREAK CIRCULATION W/ 1500 CFM AIR & 6 BPH MIST CONTAINING 1 GAL F-450 FOAMER & 1/4 GAL CORRISION INHIBITOR / 10 BBLs PRODUCED Kfc WATER@ 1300-480 PSIG- DRILLOUT CEMENT / FC @3228'KB / CEMENT / GS @ 3269'KB / CEMENT T/ 3278'KB, 8-3/4" TD. DRILLING 6-1/4" OPEN HOLE SECTION F/3279 - T/ 3593'KB- W/ 6K WOB @ 70-80 RPM'S @ 1100-1400 FT-LBS OF TORQUE- COAL INTERVALS      NET FEET OF COAL      MAX GAS UNITS 3315-3316'                      (1') 3322-3323'                      (1')                      250 3328-3330'                      (2')                      660 3331-3332'                      (1')                      695 3334-3335'                      (1')                      600 3372-3374'                      (2')                      678

## Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT 221A  
 Common Well Name: SAN JUAN 32-8 UNIT 221A  
 Event Name: COMPLETION  
 Contractor Name: KEY ENERGY SVCS  
 Rig Name: KEY ENERGY

Start: 4/3/2004  
 Rig Release: 8/17/2004  
 Rig Number: 22  
 Spud Date: 8/2/2004  
 End: 8/17/2004  
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations										
8/12/2004	18:00 - 06:00	12.00	DRILL	DRLG	PROD1	3375-3382' (7') 678										
						3416-3436' (20') 690										
						3438-3439' (1') 690										
						3470-3487' (17') 680										
						3489-3505' (16') 680										
						3507-3511' (4') 680										
8/13/2004	06:00 - 06:15	0.25	DRILL	DRLG	PROD1	TOTAL NET FEET OF COAL 73'.										
						PICTURED CLIFF TOP @ 3516'KB. " HAD ~3 HOURS OF DOWNTIME WHILE CHANGING OUT LEAKING POWER SWIVEL HOSE".										
	06:15 - 07:30	1.25	EVALWB	CIRC	COMPZN	SAFETY MEETING PRIOR TO STARTING OPERATIONS- DRILLING W/ 1500 CFM AIR & 6 BPH MIST CONTAINING 1 GAL F-450 FOAMER & 1/4 GAL CORRISION INHIBITOR / 10 BBLS PRODUCED Kfc WATER@ 500 PSIG- DRILLING 6-1/4" OPEN HOLE SECTION F/3593 - T/ 3608'KB, TD PBTD- W/ 6K WOB @ 70-80 RPM'S @ 1100-1400 FT-LBS OF TORQUE- SAFETY MEETING PRIOR TO STARTING OPERATIONS- R&R @ 3608'TD, PBTD W/ 1500 CFM & 6 BBL / HR MIST RATE W/ ABOVE CHEMICALS @ 450 PSIG- RETURNS: 1+ DOWN T/ 1/2 OF A BUCKET / HR OFF MUD LOGGER SAMPLIER VALVE OF 1/4" CHUNKS DOWN TO COFFEE GROUNDS SIZE OF COAL.										
						07:30 - 09:30	2.00	EVALWB	CIRC	COMPZN	DRY UP WELLBORE W/ 1500 CFM AIR- ~ 16 BWPD W/ PH 8.					
											09:30 - 10:15	0.75	RPCOMP	TRIP	COMPZN	PULL UP INTO 7" @ 3246'KB.
	10:15 - 11:30	1.25	EVALFM	PRDT	COMPZN	FLOW TEST THRU 2"										
	11:30 - 13:30	2.00	EVALFM	SIPB	COMPZN	TIME CHOK MANIFOLD #S PITOT #S MSCFD / CONSISTENCY										
						15MIN 20.0 5.00 1374 / DRY										
						30MIN 20.0 5.00 1374 / DRY										
						45MIN 20.0 5.00 1374 / DRY										
60MIN 20.0 5.00 1374 / DRY																
13:30 - 18:00	4.50	RPCOMP	TRIP	PROD1	SIPBU											
					ISIP 15MIN 30MIN 45MIN 60MIN 45# 140# 155# 170# 170# NATURAL SURGE #1 W/ 170 #'S- RETURNS: VERY LITTLE IF ANY RETURNS TO SURFACE AFTER SURGE.											
					SHORT TRIP F/ 3246 - T/3600'KB, 8' OF FILL AFTER SURGE #1- PULL UP INTO 7" @3246'KB- RD POWER SWIVEL- REVIEW DERRICK RESCUE AND FALL PROTECTION- COOH W/ 6-1/4" DRLG ASSEMBLY - MU 5-7/8" X 9.5" BAKER OIL TOOLS UNDER-REAMER W/ (ROLLER CUTTERS), W/ 16/32" INCH JET W/ SHOCK SUB BORED, TAPPED, AND CONTAINING A FLOAT VALVE, W/ 12-(3-1/2") DC'S,- GIH W/ BHA W/ 2-7/8" AOH DRILL PIPE W/ 1.875" ID "F" NIPPLE RUN 1-JT ABOVE DRILL COLLARS T/3274'KB. RU POWER SWIVEL.											

## Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT 221A  
 Common Well Name: SAN JUAN 32-8 UNIT 221A  
 Event Name: COMPLETION  
 Contractor Name: KEY ENERGY SVCS  
 Rig Name: KEY ENERGY

Start: 4/3/2004  
 Rig Release: 8/17/2004  
 Rig Number: 22

Spud Date: 8/2/2004  
 End: 8/17/2004  
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/13/2004	18:00 - 03:30	9.50	DRILL	REAM	PROD1	BREAK CIRCULATION & UNLOADED A 5 BBL SLUG OF WATER-UNDER-REAM @ 725-650 PSIG W/ 1500 CFM AIR & 8-10 BPH MIST (CONTAINING 1-GAL F-450 / 10 BBLs AND 1/4 GAL CORR INHIBITOR / 10 BBLs Kfc PRODUCED WATER)-F/3274-3608'KB,PBTD W/ 1100-1500-FT-LBS OF TORQUE, W/ ~3-6K WOB @ 80+ RPM'S.
	03:30 - 06:00	2.50	EVALWB	CIRC	PROD1	CIRCULATE & CONDITION WELLBORE PRIOR TO PULLING UNDER-REAMER-RETURNS: F/ 1 DOWN T/ 1/2 OF A BUCKET / HR OF FINE SAND T/ 1/4" COAL CHUNKS-, DRY UP W/ 1500 CFM AIR.
8/14/2004	06:00 - 08:30	2.50	RPCOMP	CIRC	PROD1	SAFETY MEETING PRIOR TO STARTING OPERATIONS-CIRCULATE AND WORK UNDER-REAMER UP INTO 7" CASING.
	08:30 - 09:30	1.00	EVALFM	PRDT	COMPZN	FLOW TEST THRU 2"
						TIME CHOK MANIFOLD #S PITOT #S MSCFD / CONSISTENCY
						15MIN 36.0 9.00 1865 / DRY
						30MIN 36.0 9.00 1865 / DRY
						45MIN 36.0 9.00 1865 / DRY
						60MIN 36.0 9.00 1865 / DRY
	09:30 - 14:00	4.50	EVALFM	SIPB	COMPZN	SIPBU ISIP 15MIN 30MIN 45MIN 60MIN 75MIN 90MIN 2HR 150MIN 180MIN 75# 155# 160# 160# 165# 170# 174# 168# 172# 170#
						BLEED WELL SLOWLY DOWN TO PIT.
	14:00 - 17:30	3.50	RPCOMP	TRIP	COMPZN	COOH & LAYDOWN UNDER-REAMER-GIH W/ 6-1/4" DRLG ASSEMBLY T/3246'KB.
	17:30 - 19:45	2.25	EVALFM	SIPB	COMPZN	SIPBU ISIP 15MIN 30MIN 45MIN 60MIN 70# 150# 160# 165# 170#
						NATURAL SURGE #2 W/ 170 #'S-RETURNS: VERY LITTLE IF ANY RETURNS TO SURFACE AFTER SURGE.
	19:45 - 20:15	0.50	RPCOMP	TRIP	COMPZN	SHORT TRIP F/3246 & TAG 9' OF NEW FILL @ 3599'KB, PULL UP T/ 3590'KB
	20:15 - 22:30	2.25	EVALWB	CIRC	COMPZN	BREAK CIRCULATION W/ 1500 CFM AIR & 6 BPH MIST CONTAINING 1 GAL F-450 FOAMER & 1/4 GAL CORRISION INHIBITOR / 10 BBLs PRODUCED Kfc WATER@ 520 PSIG DOWN T/ 500 PSIG-UNLOADED A ~5 BBL SLUG OF WATER-DRY UP W/ 1500 CFM AIR PRIOR TO PULLING UP FOR NATURAL SURGES.
	22:30 - 23:30	1.00	RPCOMP	TRIP	COMPZN	PULL UP INTO 7".
	23:30 - 06:00	6.50	EVALFM	SIPB	COMPZN	SIPBU FOR NATURAL SURGES SURGE # ISIP 15MIN 30MIN 45MIN 60MIN #3 70# 160# 160# 165# 170# #4 75# 160# 165# 170# 172# #5 80# 160# 165# 165# 170#
						PERFORM NATURAL SURGES #3-#5 W/ 170-172#'S RETURNS: VERY LITTLE IF ANY RETURNS TO SURFACE AFTER SURGE.
8/15/2004	06:00 - 08:30	2.50	EVALFM	SIPB	COMPZN	SAFETY MEETING PRIOR TO STARTING OPERATIONS-SIPBU FOR NATURAL SURGE

## Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT 221A  
 Common Well Name: SAN JUAN 32-8 UNIT 221A  
 Event Name: COMPLETION  
 Contractor Name: KEY ENERGY SVCS  
 Rig Name: KEY ENERGY

Start: 4/3/2004  
 Rig Release: 8/17/2004  
 Rig Number: 22  
 Spud Date: 8/2/2004  
 End: 8/17/2004  
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/15/2004	06:00 - 08:30	2.50	EVALFM	SIPB	COMPZN	SURGE # ISIP 15MIN 30MIN 45MIN 60MIN 120 MIN #6 75# 160# 160# 165# 168# 170# PERFORM NATURAL SURGES #6 W/ 170#S RETURNS: VERY LITTLE IF ANY RETURNS TO SURFACE AFTER SURGE.
	08:30 - 09:00	0.50	RPCOMP	TRIP	COMPZN	SHORT TRIP F/3246 & TAG 2' OF NEW FILL @ 3597'KB.
	09:00 - 12:30	3.50	EVALWB	CIRC	COMPZN	BREAK CIRCULATION W/ 1500 CFM AIR & 6 BPH MIST CONTAINING 1 GAL F-450 FOAMER & 1/4 GAL CORRISION INHIBITOR / 10 BBLs PRODUCED Kfc WATER- CLEAN OUT FILL F/3597-T/3608'KB DRY UP W/ 1500 CFM AIR PRIOR TO PULLING UP FOR NATURAL SURGES RETURNING: BLACK PRODUCED COAL WATER.
	12:30 - 13:30	1.00	RPCOMP	TRIP	COMPZN	PULL UP INTO 7" @ 3246'KB.
	13:30 - 14:30	1.00	EVALFM	PRDT	COMPZN	FLOW TEST THRU 2" TIME CHOKES MANIFOLD #S PITOT #S MSCFD / CONSISTENCY
						15MIN 45.0 10.50 1994 / DRY 30MIN 45.0 10.50 1994 / DRY 45MIN 45.0 10.50 1994 / DRY 60MIN 45.0 10.50 1994 / DRY
	14:30 - 21:00	6.50	EVALFM	SIPB	COMPZN	SIPBU FOR NATURAL SURGES SURGE # ISIP 15MIN 30MIN 45MIN 60MIN #7 70# 160# 160# 165# 168# #8 70# 160# 165# 165# #9 80# 160# 165# 165# 170#
						PERFORM NATURAL SURGES #7-#9 W/ 165-170#S RETURNS: VERY LITTLE IF ANY RETURNS TO SURFACE AFTER SURGE.
	21:00 - 21:30	0.50	RPCOMP	TRIP	COMPZN	GIH W/ 6-1/4" DRLG ASSEMBLY F/3246-T/3604'KB, 4' OF FILL.
	21:30 - 03:00	5.50	EVALWB	CIRC	COMPZN	BREAK CIRCULATION W/ 1500 CFM AIR & 6 BPH MIST CONTAINING 1 GAL F-450 FOAMER & 1/4 GAL CORRISION INHIBITOR / 10 BBLs PRODUCED Kfc WATER- CLEANOUT 2' OF FILL AND CONDITION WELLBORE FOR LINER- PULL UP INTO 7". HANG BACK POWER SWIVEL- DERRICKMAN FALL HAZARD ASSESTMENT PLAN- COOH FOR LINER.
8/16/2004	06:00 - 07:30	1.50	WELLPR	RURD	PROD1	SAFETY MEETING PRIOR TO STARTING OPERATIONS- 6-1/4" RR BIT GRADED:-( 1-1-NO-A-E-I-NO-TD)- MU "H" LATCH LINER HANGER ASSEMBLY ON FIRST JOINT OF DRILL PIPE. MU 6-1/16" TIW BLADED SHOE ON 1ST JOINT OF CASING.- "FLOW AND SHUT IN WELL DURING CHANGE OVER OPERATIONS" FCP 45 PSIG 10.5 PSIG PITOT = 1994 MSCFD DRY.
	07:30 - 08:30	1.00	WELCTL	BOPE	PROD1	X-O & PT PIPE RAMS T/ 160 PSIG- (OK)
	08:30 - 12:00	3.50	CASING	RUNC	PROD1	GIH W/ 5-1/2" 15.5 PPF J-55 LT&C CASING / LINER AS FOLLOWS:  6-1/16" OD BLADED SHOE W/ FLOAT VALVE - 1.00' 8- JTS 5-1/2" CASING - 355.87' 6-1/8" TIW "H" ROTATING SET COLLAR -

## Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT 221A

Common Well Name: SAN JUAN 32-8 UNIT 221A

Event Name: COMPLETION

Contractor Name: KEY ENERGY SVCS

Rig Name: KEY ENERGY

Start: 4/3/2004

Rig Release: 8/17/2004

Rig Number: 22

Spud Date: 8/2/2004

End: 8/17/2004

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/16/2004	08:30 - 12:00	3.50	CASING	RUNC	PROD1	2.40' TOTAL LINER ASSEMBLY 359.27'
	12:00 - 13:00	1.00	CASING	HOSO	PROD1	GIH W/ 93 JTS 2-7/8" DRILLPIPE T/3270'KB. GIH & SET 5-1/2" LINER ASSEMBLY F/ 3270-T/3608'KB EOL- W/ PBTD @ 3607'KB- RELEASE OFF OF LINER ASSEMBLY TOL @ 3248.73'KB. 7" SHOE @ 3269'KB.
	13:00 - 20:00	7.00	RPCOMP	PULD	COMPZN	COOH & LAYDOWN 2-7/8" DP AND SETTING TOOL- TRIP IN & LAYDOWN DC'S. "WINDY AFTERNOON"
	20:00 - 06:00	10.00	WELLPR	RURD	COMPZN	CHANGE OUT #1 PIPE RAMS T/ 2-3/8"- RD POWER SWIVEL & MANUAL TONGS- PREP & TALLY TBG RU TO PERFORATE.
8/17/2004	06:00 - 11:30	5.50	PERF	PERF	COMPZN	SAFETY MEETING PRIOR TO STARTING OPERATIONS- SICP-170 PSIG. RU BLUE JET PERFORATORS- PT LUBRICATOR T/ 170 PSIG. GIH & PERFORATE Kfc INTERVALS: 3506-3511' 3490-3504' 3470-3486' 3416-3436' 3376-3382' 3370-3374' 3332-3336' 3328-3330' 3322-3324' 3314-3318'
	11:30 - 12:30	1.00	WELCTL	BOPE	COMPZN	TOTAL 308 (0.75") DIAMETER 120 DEGREE PHASED HOLES- RD PERFORATORS. PT 2-3/8" PIPE RAMS T/ 170 PSIG (OK)- BLEED WELL DOWN TO PIT.
	12:30 - 14:30	2.00	RPCOMP	PULD	COMPZN	GIH W/ 30.15' X 2-7/8" 8RD EUE BOX ORANGE PEELED MUD ANCHOR W/ 8-(1/4" X 8") SLOTS, 2-7/8" X 2-3/8" EUE 8RD X-O COLLAR (0.46') , W/ 0.85' x 2-3/8" OD X 1.78" ID "F" NIPPLE CONTAINING BLANKING PLUG (PT BP IN FN T/ 1000 PSIG 8-13-2004 @ B&R SERVICE'S SHOP), W/ 2-3/8" X 4.10' PUP JOINT- W/ 112 JTS 2-3/8" EUE 8RD 4.7 PPF J-55 TBG MEASURING (3531.30')- LAND TBG W/ 2-3/8" EUE 8RD X 7-1/16" TBG HGR CONTAINING A BPV PBTD @ 3607'KB EOT / MUD ANCHOR @ 3578'KB 1/4" X 8" SLOTS 3550'KB. 1.78" FN @ 3546'KB. PERF INTERVAL 3314-3511'KB. TOP OF LINER @ 3248'KB.
	14:30 - 16:30	2.00	WELCTL	NUND	COMPZN	RIG DOWN FLOOR & AUXILIARY EQUIPMENT- ND BOPE & NU 2-3/8" EUE 8RD X 7-1/16" 3M BONNET.

## Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT 221A  
 Common Well Name: SAN JUAN 32-8 UNIT 221A  
 Event Name: COMPLETION  
 Contractor Name: KEY ENERGY SVCS  
 Rig Name: KEY ENERGY

Start: 4/3/2004  
 Rig Release: 8/17/2004  
 Rig Number: 22  
 Spud Date: 8/2/2004  
 End: 8/17/2004  
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/17/2004	14:30 - 16:30 16:30 - 17:30	2.00 1.00	WELCTL RPEQPT	NUND SLKL	COMPZN COMPZN	PULL BPV. SICP 170 PSIG- RU B&R SERVICE- PT LUBRICATOR T/ 170 PSIG (OK)- GIH W/ EQUALIZING PROBE & RUPTURE DISC IN "FWE" PLUG IN FN @ 3546'KB- TRIP AND RETRIEVE BP IN FN- FL @ 3450'GL- RD SLICKLINE.
8/18/2004	17:30 - 18:30 07:00 - 12:00	1.00 5.00	WELLPR RPCOMP	OTHR PULD	COMPZN COMPZN	SDON. SAFETY MEETING PRIOR TO STARTING OPERATIONS- SICP-170 PSIG. BLEED CSG DOWN TO PIT- RU TO RUN RODS- FUNCTION TEST INSERT PUMP (OK)- GIH W/ 12" STRAINER ATTACHED BELOW 2" X 1 1/2" X 12' RWAC-Z INSERT PUMP SN: (CP153) W/ 4' PONY ROD AND 141 3/4" NORRIS, TYPE 78, API GRADE "D" RODS & SPACE W/ 8' & 6' PONY RODS, RUN 1 1/4" X 22' POLISHED ROD. RIG UP ABOVE 2-3/8" COLLAR 1-1/4" ROD RATAGAN, 2-3/8" PUMPING TEE W/ 2" & 1" OUTLETS W/ BALL VALVES, STUFFING BOX. PUMP SEATED @ 3546'KB,FN. LOAD TBG W/ 12 BBLS CLEAN PRODUCED Kfc WATER- PT STANDING VALVE, TBG, STUFFING BOX T/ 500 PSIG (OK)- STROKE PUMP T/500 PSIG & CHECK TRAVELING VALVE (OK). HANG OFF PUMP.
	12:00 - 15:00	3.00	WELLPR	RURD	COMPZN	RIG DOWN & RELEASE RIG @ 15:00, 8-17-2004 DROP FROM REPORT- TURN OVER TO PRODUCTION OPERATIONS- "JOB COMPLETE"