

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

2003 AUG 15 AM 10:01

5. Lease Serial No.
NMSF 0790481a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Otherb. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

2. Name of Operator

CONOCOPHILLIPS CO.

3. Address

P.O. BOX 2197 WL3 4061 HOUSTON TX 77252

3.a. Phone No. (Include area code)

(832)486-2326

8. Lease Name and Well No.

SAN JUAN 32 FED 21 2A

9. API Well No.

30-045-31662

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

At Surface 1300' FNL & 805' FWL

At top prod. interval reported below

At total depth

10. Field and Pool, or Exploratory

BASIN FRUITLAND COAL

11. Sec., T., R., M., on Block and Survey or Area D 21 32N 9W

12. County or Parish

SAN JUAN

13. State

NEW MEXICO

14. Date Spudded

06/03/2003

15. Date T.D. Reached

06/14/2003

16. Date Completed

☐ D & A ☒ Ready to Prod.

07/02/2003

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

6890 GL

18. Total Depth: MD 3725

TVD 3725

19. Plug Back T.D.: MD 3723

TVD 3723

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	9.625	32.3	0	219		135		0	
8.75	7	H40	0	3452		540		0	
6.25	5.5	20 J55	3403	3725		0		NA	
		15.5 J55							

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	3712							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) FRUITLAND COAL	3497	3669	FRUITLAND COAL	.75	104	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3497 - 3669	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
07/22/03	06/27/03	06/27/03	→	0	8690	0			FLOWING
Choice Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
PITOT	0	840	→						PRODUCING GAS WELL

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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD

AUG 18 2003

FARMINGTON FIELD OFFICE

NMOOD

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	870
				OJO ALAMO	2130
				KIRTLAND	2155
				FRUITLAND	3285
				PICTURE CLIFFS	3690

32. Additional remarks (include plugging procedure):

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

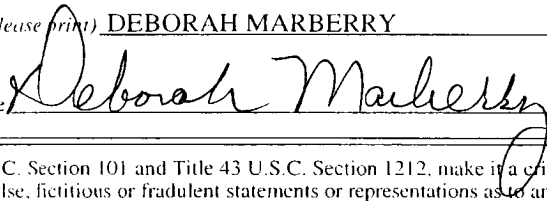
33. Circle enclosed attachments:

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 08/13/2003

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.

Well Name: SAN JUAN 32 Fed 21 # 2AAPI #: 30-045-31662Spud: 3-Jun-03TD 8-3/4" Hole: 6-Jun-03Release Dril Rig: 7-Jun-03Move in Cav. Rig: 12-Jun-03TD 6-1/4" Hole: 14-Jun-03Release Cav. Rig: 1-Jul-03Note: This well is equipped with rods & pump
7-1/16" 3M x 2-3/8" EUE and Bonnet11" 3M x 7 1/16" 3M Tubing Head
9-5/8" 8 RD x 11" 3M Casing Head**Surface Casing**Date set: 4-Jun-03☒ New
☐ UsedSize 9 5/8 inSet at 219 ft # Jnts: 7Wt. 32.3 ppf Grade H-40Hole Size 12 1/4 inWash Out 150 %Est. T.O.C. SURFACECsg Shoe 219 ftTD of 12-1/4" hole 229 ftNotified BLM @ 22:33 hrson 02-Jun-03Notified NMOCD @ 22:35 hrson 02-Jun-03**Intermediate Casing**Date set: 6-Jun-03☒ New
☐ UsedSize 7 inSet at 3452 ft # Jnts: 84Wt. 20 ppf Grade J-55Hole Size 8 3/4 inWash Out 150 %Est. T.O.C. SURFACECsg Shoe 3452 ftTD of 8-3/4" Hole 3455 ft

Notified BLM @ _____ hrs on _____

Notified NMOCD @ _____ hrs on _____

Production LinerDate set: 28-Jul-03☒ New
☐ UsedSize 5 1/2 inConnections: LTCBlank Wt. 15.5 ppfGrade J-55# Jnts: 7Hole Size 6 1/4 inBtm of Liner 3725 ftTop of Liner 3403 ftPBTD / Top of Bit Sub 3723Bottom of Liner / Bottom of 6-1/4" Bit: 3725TD 3,725 ft**Surface Cement**Date cmt'd: 4-Jun-03Lead : 135 sx Class G Cement+ 2% S001 Calcium Chloride+ 0.25 lb/sx D029 Cellophane Flakes1.16 cuft/sx, 156.6 cuft slurry at 15.8 ppgDisplacement: 15.2 bbls fresh wrBumped Plug at: 04:00 w/ 300 psiFinal Circ Press: 55psi @ 0.5 bpmReturns during job: YESCMT Returns to surface: 14 bblsFloats Held: No floats usedW.O.C. for 6.00 hrs (plug bump to drlg cmt)**Intermediate Cement**Date cmt'd: 6-Jun-03Lead : 440sx Class G Cement+ 3% D079 Extender+ 0.25 lb/sx D029 Cellophane Flakes+ 0.2% D046 Antifoam2.61cuft/sx, 1148.4 cuft slurry at 11.7 ppgTail : 100 sx 50/50 POZ : Class G cement+ 2% D020 Bentonite+ 2% S001 Calcium Chloride+ 5 lb/sx D024 Gilsonite+ 0.25 lb/sx D029 Cellophane Flakes+ 0.2% D046 Antifoam1.27 cuft/sx, 127 cuft slurry at 13.5 ppgDisplacement: 136 bblsBumped Plug at: 17:30 hrsFinal Circ Press: 710psi @ 2bpmReturns during job: YESCMT Returns to surface: 48 bblsFloats Held: X Yes ___ No**UNCEMENTED LINER****COMMENTS:**Surface: No float equipment was run. Ran a guide shoe and an aluminum baffle plate 1 jt above the guide shoe.
Displaced top wiper plug with water. Shut in casing head with 150 psi and WOC 3 hrs before backing out landing jt.

Intermediate:

Production: 6 1/4" BIT, BIT SUB & FLOAT RUN ON BOTTOM JOINT OF LINERPerforated 5-1/2" liner. Ran 2-3/8", 4.7#, J-55 EUE 8rd, tubing (EOT at 3712' RKB). Ran pump and rods.**CENTRALIZERS:**Surface: CENTRALIZERS @ 209', 160', 131', & 43'Total: 4Intermediate: CENTRALIZERS @ 3442', 3367', 3285', 3202', 3120', 3040', & 201'Total: 7TURBOLIZERS @ 2164', 2123', 2082'Total: 3

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 21 #2 000002A
 Common Well Name: SAN JUAN 32 FED 21 # 2A FRUITLAND COM Spud Date: 06/03/2003
 Event Name: Original Completion Start: 05/20/2003 End:
 Contractor Name: KEY FOUR CORNERS Rig Release: 07/01/2003 Group:
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/13/2003	12:00 - 14:00	2.00	MV	1	00MMIR	SAFETY MEETING-PRIOR TO STARTING OPERATIONS. MIRU KEY 940.
	14:00 - 15:30	1.50	WC	e	80CMPL	SI 7" INTERMEDIATE CSG -0- PSIG-NIPPLE UP BOP.
	15:30 - 19:45	4.25	CM	6	80CMPL	RU AUXILARY EQUIPMENT.
	19:45 - 20:00	0.25	CM	z	80CMPL	SDON.
06/14/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING-PRIOR TO STARTING OPERATIONS. SHUT IN 7" CSG -0- PSIG-
	07:30 - 11:30	4.00	CM	6	80CMPL	SHUT IN 9-5/8" X 7" CSG ANNULUS -0- PSIG-. RU BLOOE LINE MUFFLERS-LIGHT PLANT-FLOOR & AUXILARY EQUIPMENT.
	11:30 - 12:30	1.00	CM	z	80CMPL	RIG INSPECTION.
	12:30 - 15:30	3.00	RM	k	80CMPL	CHANGE OUT DRILLING LINE.
	15:30 - 16:30	1.00	WC	9	80CMPL	PT GROUND LINES T/200 PSIG -3MIN & 2000 PSIG-10 MIN (OK)- BREAK CIRCULATION THRU CHOKE MANIFOLD VIA KILL SPOOL & LOAD 7" CASING-
	16:30 - 18:00	1.50	CM	6	80CMPL	NOTIFY: BLM OF PENDING CASING INTEGRITY TEST @ 07:00, 6-12-03- PERFORM CASING INTEGRITY TEST TO 750 PSIG - 30MIN (OK) PT BLIND RAMS / 7" CASING / CHOKE MANIFOLD INCREASE PRESSURE T/1850 PSIG - 15MIN (OK).
	18:00 - 22:30	4.50	CM	4	80CMPL	SLIP, TALLY, & CALIPER 3-1/2" DC'S- SLIP & TALLY 2-7/8" DRILL PIPE. MU 6-1/4" STX-09C TRI-CONE INSERT BIT JETTED W/3-20'S SN: H75YL, 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 W/ 2-3/8" IF PIN x 2-7/8" IF BOX X-O SUB TBHA 369.00'-GIH W/ A TOTAL OF 97 JTS 2-7/8" IF DP CONTAINING A 2-7/8" OD X 1.875" ID F NIPPLE RUN 1-JT ABOVE DC'S & TAG TOP OF CMT @ 3378'KB.
	22:30 - 23:00	0.50	CM	6	80CMPL	RIG UP POWER SWIVEL.
	23:00 - 23:30	0.50	CM	5	80CMPL	CIRCULATE HOLE W/ PRODUCED WATER.
	23:30 - 01:30	2.00	WC	9	80CMPL	PT #2 PIPE RAMS CHOKE MANIFOLD T/250 PSIG -3MIN & 1850 PSIG -15MIN (OK) BLEED DOWN & CHECK FLOAT VALVE IN DRILL STRING PT #1 PIPE RAMS, HCR VALVES TO T/250 PSIG -3MIN & 1800 PSIG -15MIN (OK) BLEED DOWN & CHECK FLOAT VALVE IN DRILL STRING (HOLDING OK) PT STAND PIPE, KELLY HOSE, POWER SWIVEL, TIW VALVE, AIR WATER MANIFOLD, KILL LINES TO 2000 PSIG -10MIN (OK). PT AIR & MIST PUMP LINES IN STAGES @ 300-500-1000-1450 PSIG (OK).
	01:30 - 02:00	0.50	CM	5	80CMPL	UNLOAD HOLE WITH AIR MIST.
	02:00 - 06:00	4.00	DR	1	50PRDR	DRILLOUT SOFT -HARD CMT F/ 3378-T/3408'KB FLOAT COLLAR, CMT, GS @ 3452'KB & OPEN HOLE SECTION F/ 3455-T/3490'KB.
06/15/2003	06:00 - 12:30	6.50	DR	1	50PRDR	SAFETY MEETING-PRIOR TO STARTING OPERATIONS. SHUT IN 9-5/8" X 7" CSG ANNULUS -0- PSIG- DRILLOUT OPEN HOLE SECTION F/ 3490-T/3725'KB,PBTD. COAL INTERVALS NET FEET BG GAS UNITS GAS UNITS INCREASE 3497-3501' 4' 15 140 3503-3507' 4' 140 300 3520-3527' 7' 250 365 3565-3569' 4' 215 215

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 Contractor Name: KEY FOUR CORNERS Rig Release: 07/01/2003 Group:
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/15/2003	06:00 - 12:30	6.50	DR	1	50PRDR	3659-3669' 10' 215 385 TOTAL OF 29 NET FEET OF COAL- BASAL COAL INTERVALS FROM 3659-3669' ARE INTERMEDIATE DULL TO SUB VITREOUS LUSTERED COAL. RARE TO OCCASIONAL CLEATING WITH VERY FEW INTERSECTING CLEAT FACES. NOTE: HAD PROBLEMS WITH THE RIGS' DRAW WORK CLUTCH BINDING UP AND HAVING TO PULL 25K OVER AND LOOSING UP TO 10-15K WHILE TRYING TO SLACK OFF WITHOUT ANY CHANGE IN ROTARY TORQUE "NO HOLE PROBLEMS ENCOUNTERED"-DRILLED 6-1/4" OPEN HOLE WITHOUT UTILIZING THE WEIGHT INDICATOR AND BY MAINTAINING A CONSTANT 1400 PSIG = 2100 FT-LBS OF TORQUE. CIRCULATE & CONDITION WELLBORE. DRY UP WELLBORE PRIOR TO FLOW TEST. PULL UP INTO 7" @ 3440'KB. FLOW TEST THRU 2" TIME CHOKE MANIFOLD OZ'S PITOT OZ'S MSCFD / CONSISTENCY 15MIN 14.0 4 309 / DRY 30MIN 14.0 4 309 / DRY 45MIN 14.0 4 309 / DRY 60MIN 14.0 4 309 / DRY RECORD ISIP @ 45 OZ'S. RECORD 1-HR SIPBU AND 2 HR FOR NATURAL SURGES 15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS: SURGE #1 39 50 115 155 300 1/4 SURGE #2 24 62 115 145 300 HANDFUL BLOW AROUND TO PIT AFTER SURGES- ALLOW WELLBORE TO VENT PRIOR TO NATURAL BUILDUP- RETURNS: 1/4 BUCKET DOWN TO A HANDFUL / HR OF FACE POWDER TYPE COAL. PERFORM AIR ASSIST SURGES W/ 5 BBL WATER PADS- SURGE # BREAKOVER PRESSURE PSIG RETURNS: BUCKET / HR 3 1100 1/4 4 1200 1/4 5 1100 1/4 RETURNS: UP T/1/4 BUCKET / HR VERY FINE (FACE POWDER TYPE) COAL.
	12:30 - 15:45	3.25	DR	5	50PRDR	
	15:45 - 16:00	0.25	CM	5	80CMPL	
	16:00 - 16:30	0.50	CM	4	80CMPL	
	16:30 - 17:30	1.00	CM	u	80CMPL	
	17:30 - 00:00	6.50	CM	t	80CMPL	
	00:00 - 06:00	6.00	CM	1	80CMPL	
06/16/2003	06:00 - 14:30	8.50	CM	1	80CMPL	SAFETY MEETING-PRIOR TO STARTING OPERATIONS. RIG REPAIR: REPLACE DRAW WORKS PARTS WHILE PERFORMING NATURAL SURGES- 15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS: SURGE #5 80 130 210 280 370 HANDFUL SURGE #2 290 350 430 450 510 HANDFUL BLOW AROUND TO PIT AFTER SURGES- ALLOW WELLBORE TO VENT PRIOR TO NATURAL BUILDUP- RETURNS: HANDFUL / HR OF FACE POWDER TYPE COAL. GIH W/ 6-1/4" DRLG ASSEMBLY F/3440 & TAG @ 3656'KB. R&R F/3656 - T/3672'KB- W/ 2.2 MSCFD AIR & 12 DOWN TO 6 BPH MIST- RETURNS: 2 DOWN TO 1/2 BUCKET / HR OF VERY FINE (FACE
	14:30 - 15:00	0.50	CM	4	80CMPL	
	15:00 - 05:00	14.00	CM	1	80CMPL	

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 Contractor Name: KEY FOUR CORNERS Rig Release: 07/01/2003 Group:
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/16/2003	15:00 - 05:00	14.00	CM	1	80CMPL	POWDER TYPE) COAL- NO NOTICEABLE WATER GAIN.
06/17/2003	06:00 - 06:15	0.25	CM	4	80CMPL	PULL UP INTO 7" @ 3440'KB.
	06:15 - 07:15	1.00	CM	u	80CMPL	FLOW TEST THRU 2"
						TIME CHOKE MANIFOLD OZ'S PITOT OZ'S MSCFD /
						CONSISTENCY
						15MIN 15.0 4 309 / DRY
						30MIN 15.5 4.5 331 / DRY
						45MIN 15.5 4.5 331 / DRY
						60MIN 15.5 4.5 331 / DRY
						RECORD ISIP @ 45 OZ'S.
	07:15 - 09:15	2.00	CM	t	80CMPL	RECORD 1-HR SIPBU AND 2 HR FOR NATURAL SURGES
						15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS:
						SURGE # 50 100 200 265 310 2-HANDFULS
						BLOW AROUND TO PIT AFTER SURGE-
06/18/2003	09:15 - 18:30	9.25	CM	1	80CMPL	RETURNS: 2- HANDFULS / HR OF FACE POWDER TYPE COAL.
						PERFORM AIR ASSIST SURGES W/ 5 BBL WATER PADS-
						SURGE # BREAKOVER PRESSURE PSIG RETURNS: BUCKET
						/ HR
						8 1200 A COUPLE OF
						HANDFULS
						9 1200 A COUPLE OF
						HANDFULS
						10 1100 1/4
						11 1100 1/4
						12 1100 1/4
						RETURNS: UP T/1/4 BUCKET / HR VERY FINE (FACE POWDER
						TYPE) COAL.
06/18/2003	18:30 - 19:30	1.00	CM	4	80CMPL	GIH W/ 6-1/4" DRLG ASSEMBLY F/3440 - TAG @ 3642', ~ 30' OF NEW
						FILL.
	19:30 - 22:00	2.50	CM	1	80CMPL	R&R F/3642-T/3672' W/ 2.2 MSCFD AIR & 12 BPH MIST-
						RETURNS: 1 DOWN TO 1/4 BUCKET / HR OF VERY FINE COAL.
						100% COAL & -0% SHALE-
						NO NOTICEABLE WATER GAIN.
	22:00 - 22:30	0.50	CM	4	80CMPL	PULL UP BHA INTO 7" @ 3440'KB.
	22:30 - 06:00	7.50	CM	1	80CMPL	PERFORM AIR ASSIST SURGES W/ 5 BBL WATER PADS-
						SURGE # BREAKOVER PRESSURE PSIG RETURNS: BUCKET
						/ HR
						13 850 1/2
						14 800 1/4
						15 800 1/4
06/18/2003						16 800 1/4
						17 800 1/4
						18 800 1/4
						RETURNS: UP T/1/4 BUCKET / HR VERY FINE (FACE POWDER
						TYPE) COAL.
	06:00 - 06:15	0.25	CM	4	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS-
						GIH W/ 6-1/4" BHA F/3440-3502'KB.
	06:15 - 16:15	10.00	CM	1	80CMPL	R&R F/3502-T/3530' BRIDGE-
						RETURNS: UP TO 1/4" COAL & SHALE AND GRITTY COAL-
						TRIP IN & R&R F/3656 -T/3672' W/ 2.2 MSCFD AIR & 12 BPH MIST-
						RETURNS: 2 DOWN TO 1/2 BUCKET / HR OF VERY FINE COAL.

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Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/18/2003	06:15 - 16:15	10.00	CM	1	80CMPL	99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN. DRY UP WELLBORE PRIOR TO FLOW TEST. PULL UP BHA UP INTO 7" CSG @ 3440'KB. FLOW TEST THRU 2"
	16:15 - 16:30	0.25	CM	5	80CMPL	
	16:30 - 17:15	0.75	CM	4	80CMPL	
	17:15 - 18:15	1.00	CM	u	80CMPL	TIME CHOKES MANIFOLD OZ'S PITOT OZ'S MSCFD / CONSISTENCY
						15MIN 26.0 6 372 / DRY 30MIN 27.0 7 404 / DRY 45MIN 30.0 8 434 / DAMP 60MIN 32.0 8 434 / DAMP
	18:15 - 22:00	3.75	CM	t	80CMPL	RECORD ISIP @ 4 PSIG. RECORD 1-HR SIPBU AND 2 HR FOR NATURAL SURGES 15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS: SURGE #19 55 105 185 255 350 2-HANDFULS BLOW AROUND TO PIT AFTER SURGE- RETURNS: 2- HANDFULS / HR OF FACE POWDER TYPE COAL.
	22:00 - 06:00	8.00	CM	1	80CMPL	PERFORM AIR ASSIST SURGES W/ 5 BBL WATER PADS- SURGE # BREAKOVER PRESSURE PSIG RETURNS: BUCKET / HR 20 1100 HANDFUL 21 1100 HANDFUL 22 1100 1/4 23 1100 1/4 24 1200 1/4
06/19/2003	06:00 - 06:15	0.25	CM	4	80CMPL	RETURNS: UP T/1/4 BUCKET / HR VERY FINE COAL. SAFETY MEETING PRIOR TO STARTING OPERATIONS- GIH W/ 6-1/4" BHA F/3440-3530'KB.
	06:15 - 16:30	10.25	CM	1	80CMPL	R&R F/3530-T/3560' - RETURNS: UP TO 1/4 BUCKET / HR SHALE AND GRITTY COAL- TRIP IN & R&R F/3656 -T/3672' W/ 2.2 MSCFD AIR & 12 BPH MIST- RETURNS: 2 DOWN TO 1/2 BUCKET / HR OF VERY FINE COAL. 99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN. DRY UP WELLBORE PRIOR TO FLOW TEST. PULL UP BHA UP INTO 7" CSG @ 3440'KB. FLOW TEST THRU 2"
	16:30 - 17:00	0.50	CM	5	80CMPL	
	17:00 - 17:30	0.50	CM	4	80CMPL	
	17:30 - 18:30	1.00	CM	u	80CMPL	TIME CHOKES MANIFOLD #S PITOT OZ'S MSCFD / CONSISTENCY
						15MIN 2.5 10 492 / DRY 30MIN 2.5 10 492 / DRY 45MIN 3.0 12 539 / DRY 60MIN 3.0 12 539 / DRY
	18:30 - 01:30	7.00	CM	t	80CMPL	RECORD ISIP @ 7 PSIG. RECORD 1-HR SIPBU AND 2 HR FOR NATURAL SURGES 15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS: SURGE #25 80 130 180 235 410 1/4 SURGE #26 70 110 180 220 390 HANDFUL BLOW AROUND TO PIT AFTER SURGE- RETURNS: 1/4 BUCKET DOWN TO A HANDFUL / HR OF FACE POWDER & GRITTY TYPE COAL.
	01:30 - 06:00	4.50	CM	1	80CMPL	PERFORM AIR ASSIST SURGES W/ 10 BBL WATER PADS-

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 Contractor Name: KEY FOUR CORNERS Rig Release: 07/01/2003 Group:
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/19/2003	01:30 - 06:00	4.50	CM	1	80CMPL	SURGE # BREAKOVER PRESSURE PSIG RETURNS: BUCKET / HR 27 900 1/4 28 900 1/4 29 900 1/4 RETURNS: UP T/1/4 BUCKET / HR VERY FINE COAL.
06/20/2003	06:00 - 10:30	4.50	CM	1	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- PERFORM AIR ASSIST SURGES W/ 10 BBL WATER PADS- SURGE # PRESSURE PSIG RETURNS: BUCKET / HR 30 1100 1/4 31 1100 1/4 32 1100 1 RETURNS: UP TO 1 BUCKET / HR VERY FINE COAL. GIH W/ 6-1/4" DRLG ASSEMBLY F/3440 - T/3502'KB. R&R F/3502-T/3530' - RETURNS: 3 DOWN TO 1-1/2 BUCKETS / HR MOSTLY GRITTY COAL- W/ 2.2 MMSCFD AIR & 12 BPH MIST- 99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN- WERE ABLE TO BREAKDOWN UPPER COAL INTERVALS F/3497-T/3527'.
06/21/2003	06:00 - 06:30	0.50	CM	4	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- PULL UP INTO 7" @ 3440'KB.
	06:30 - 16:30	10.00	CM	t	80CMPL	SHUT IN PRESSURE BUILD UP WHILE PERFORMING SCHEDULED "HOURLY" MAINTANENCE ON RIG AND AUXILARY RIG EQUIPMENT. SIPBU- 15MIN 30MIN 45MIN 1HR 2HR 3HR 4HR 5HR 6HR 7HR 8HR 9HR 10HR 65# 130# 190# 240# 400# 500# 570# 615# 640# 660# 675# 700# 710# SURGE #33 RETURNS: A COUPLE OF HANDFULS OF FINE COAL. GIH W/ 6-1/4" DRLG ASSEMBLY F/3440 - T/3502'KB. R&R F/3502-T/3563' - RETURNS: 4 DOWN TO 1-1/2 BUCKETS / HR OF (MOSTLY GRITTY COAL)- W/ 2.2 MMSCFD AIR & 12 BPH MIST- 99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN- UPPER COAL INTERVALS F/3497-T/3527' ARE RUNNING.
06/22/2003	06:00 - 06:00	24.00	CM	4	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- R&R F/3533-T/3563' - RETURNS: 1-1/2 DOWN TO 1 BUCKET / HR OF (MOSTLY GRITTY COAL)- W/ 2.2 MMSCFD AIR & 12 BPH MIST- 99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN-
06/23/2003	06:00 - 17:00	11.00	CM	4	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- R&R F/3563-T/3625' - RETURNS: 1 BUCKET / HR OF (MOSTLY GRITTY COAL)- W/ 2.2 MMSCFD AIR & 12 BPH MIST-

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 21 #2 000002A
 Common Well Name: SAN JUAN 32 FED 21 # 2A FRUITLAND COM Spud Date: 06/03/2003
 Event Name: Original Completion Start: 05/20/2003 End:
 Contractor Name: KEY FOUR CORNERS Rig Release: 07/01/2003 Group:
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/23/2003	06:00 - 17:00	11.00	CM	4	80CMPL	99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN- HUNG UP WHILE R&R F/3594-3625'- NO CIRCULATION & UNABLE TO ROTATE- SIW & PRESSURE UP ON DRILLSTRING TO EQUALIZE W/ SICP- WORK DRILLSTRING F/3625-T/3471'KB UNDER 400 PSIG SHUT IN PRESSURE- ABLE TO ESTABLISH CIRCULATION ABOVE 3527'KB. TIGHT SPOT F/3527-T/3530'KB.
	17:00 - 20:30	3.50	CM	z	80CMPL	R&R F/3471-T/3533' - RETURNS: 3 DOWN TO 2 BUCKETS / HR OF (MOSTLY GRITTY COAL)- W/ 2.2 MMSCFD AIR & 12 BPH MIST- 99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN-
	20:30 - 06:00	9.50	CM	1	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- R&R F/3502-T/3594' - RETURNS: 1 BUCKET DOWN TO 1/2 BUCKET / HR PRIOR TO MAKING CONNECTION OF (MOSTLY GRITTY COAL)- W/ 2.2 MMSCFD AIR & 12 BPH MIST- 99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN-
06/24/2003	06:00 - 00:00	18.00	CM	4	80CMPL	AFTER CLEANING OUT F/3563-3594' THE UPPER COAL INTERVALS CAVED IN- ABLE TO WORK DRILLSTRING BACK UP F/3594-T/3563'KB. R&R F/3533-T/3563' - RETURNS: 1-1/2 BUCKETS / HR OF (MOSTLY GRITTY COAL)- W/ 2.2 MMSCFD AIR & 12 BPH MIST- 99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN-
	00:00 - 00:30	0.50	CM	z	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- R&R F/3563-T/3672' - RETURNS: 3 DOWN TO 1/2 BUCKET / HR MOSTLY GRITTY (FRAC SAND SIZE) COAL IN UPPER SECTION & FACE POWDER TYPE IN BOTTOM COAL- W/ 2.2 MMSCFD AIR & 10 BPH MIST- 99% COAL & ~1% SHALE- NO NOTICEABLE WATER GAIN.
	00:30 - 06:00	5.50	CM	1	80CMPL	CUT BACK MIST RATE TO REDUCE FLUID LOADING DURING FLOW TEST. PULL UP BHA UP INTO 7" CSG @ 3440'KB. FLOW TEST THRU 2"
06/25/2003	06:00 - 01:00	19.00	CM	1	80CMPL	TIME CHOKE MANIFOLD #S PITOT #S MSCFD / CONSISTENCY
						15MIN 6.0 1.5 752 / DAMP
						30MIN 6.0 1.5 752 / DAMP
						45MIN 6.0 1.5 752 / DAMP
						60MIN 6.0 1.5 752 / DAMP
						90MIN 5.0 1.25 687 / DAMP
	01:00 - 01:15	0.25	CM	5	80CMPL	2 HR 5.0 1.25 687 / DAMP
	01:15 - 02:00	0.75	CM	4	80CMPL	RECORD ISIP @ 9 PSIG.
	02:00 - 04:00	2.00	CM	u	80CMPL	RECORD 1-HR SIPBU AND 3+ HR FOR NATURAL SURGES 15MIN 30MIN 45MIN 60MIN 90 MIN 120 MIN
	04:00 - 06:00	2.00	CM	t	80CMPL	

Operations Summary Report

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 Contractor Name: KEY FOUR CORNERS Rig Release: 07/01/2003 Group:
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/25/2003	04:00 - 06:00	2.00	CM	t	80CMPL	SIPBU 90 140 200 245 300 330
06/26/2003	10:00 - 17:00	7.00	CM	t	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- RECORD 9-HR SIPBU DURING RIG & AIR COMPRESSOR MAINTANENCE ALONG WITH ADDITIONAL 2 HR BUILD UP FOR NATURAL SURGES SURGE #34 MONTHLY SAFETY MEETING- 6HR 9HR RETURNS: 600# 630# 1/4 15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS: SURGE #35 120# 210# 280# 310# 460# 2-HANDFULS BLOW AROUND TO PIT AFTER SURGE- RETURNS: 1/4 DOWN TO 2- HANDFULS / HR OF FACE POWDER TYPE COAL.
	17:00 - 01:00	8.00	CM	1	80CMPL	PERFORM AIR ASSIST SURGES W/ 5-10 BBL WATER PADS- SURGE # BREAKOVER PRESSURE PSIG RETURNS: BUCKET / HR 36 1100 HANDFUL 37 1100 HANDFUL 38 1000 1/4 39 900 1/4 40 900 1/4
	01:00 - 01:30	0.50	CM	4	80CMPL	RETURNS: UP T/1/4 BUCKET / HR VERY FINE COAL.
	01:30 - 06:00	4.50	CM	1	80CMPL	GIH W/ 6-1/4" BHA F/3440-T/3481'KB. R&R F/3481-T/3563'- RETURNS: GRITTY (FRAC SAND SIZE) COAL - W/ 2.2 MMSCFD AIR & 12 BPH MIST- RETURNS: 2 BUCKETS / HR OF VERY FINE COAL. 99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN.
06/27/2003	06:00 - 23:00	17.00	CM	1	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- R&R F/3563-T/3672'KB, R&R PLUG BACK DEPTH- RETURNS: GRITTY (FRAC SAND SIZE) COAL - W/ 2.2 MMSCFD AIR & 12 BPH MIST- RETURNS: 2 DOWN TO 1/2 OF A BUCKET / HR OF VERY FINE COAL. 99% COAL & -1-% SHALE- NO NOTICEABLE WATER GAIN.
	23:00 - 23:45	0.75	CM	4	80CMPL	PULL UP 6-1/4" DRILLING ASSEMBLY INTO 7" @ 3440'KB.
	23:45 - 01:45	2.00	CM	u	80CMPL	FLOW TEST THRU 2" TIME CHOKE MANIFOLD #S PITOT #S MSCFD / CONSISTENCY 15MIN 4.0 1.0 615 / DRY 30MIN 5.0 1.25 687 / DAMP 45MIN 8.0 2.0 869 / DAMP 60MIN 8.0 2.0 869 / DAMP 90MIN 8.0 2.0 869 / DAMP 2 HR 4.0 1.0 615 / DAMP POSSIBLE LOADING UP RECORD ISIP @ 8 PSIG.
	01:45 - 02:00	0.25	CM	4	80CMPL	GIH W/ 6-1/4" DRILLING ASSEMBLY.
	02:00 - 06:00	4.00	CM	1	80CMPL	R&R F/3510-T/3625'- RETURNS: GRITTY (FRAC SAND SIZE) COAL -

Operations Summary Report

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 Contractor Name: KEY FOUR CORNERS Rig Release: 07/01/2003 Group:
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/27/2003	02:00 - 06:00	4.00	CM	1	80CMPL	W/ 2.2 MMSCFD AIR & 12 BPH MIST- RETURNS: 1-1/2 BUCKETS / HR OF VERY FINE COAL. 99+ % COAL & ~1-% SHALE- NO NOTICEABLE WATER GAIN.
06/28/2003	06:00 - 16:00	10.00	CM	1	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- R&R F/3625-T/3672'KB, R&R PLUG BACK DEPTH- RETURNS: GRITTY (FRAC SAND SIZE) COAL - W/ 2.2 MMSCFD AIR & 12 BPH MIST- RETURNS: 1-1/2 DOWN TO 1/4 OF A BUCKET / HR OF VERY FINE COAL. 99% COAL & ~1-% SHALE- NO NOTICEABLE WATER GAIN.
	16:00 - 23:00	7.00	CM	5	80CMPL	CLEANOUT RATHOLE SECTION F/3672 -T/3725'KB TD- CONDITION HOLE W/ 2.2 MMSCFD AIR & 10-12 BPH MIST CONTAINING 1-GAL POLYMER / 12 BBLS PRODUCED WATER.
	23:00 - 04:00	5.00	CM	4	80CMPL	SHORT TRIP 6-1/4" DRILLING ASSEMBLY INTO 7" @ 3440'KB- GIH & TAG @ 3725'PBD (NO FILL)- COOH W/ 6-1/4" DRILLING ASSEMBLY.
06/29/2003	04:00 - 06:00	2.00	CM	6	80CMPL	RIG UP TO RUN 5-1/2" LINER ASSEMBLY.
	06:00 - 08:00	2.00	CS	6	50PRRC	SAFETY MEETING-PRIOR TO STARTING OPERATIONS- BREAK OUT BIT SUB & 6-1/4" BIT GRADED 1-4-WT-A-F-I-LN-TD RU TO RUN 5-1/2" LINER. MU 5-1/2" X 7" BAKER SLPR HYDRAULIC LINER HANGER ON #1 JOINT OF DRILL PIPE. MU 6-1/4" RR BIT SN: H75YL & FLOAT SUB ON 1ST JOINT OF CASING. PT 5-1/2" PIPE RAMS TO 200 PSI-3MIN & 275 PSIG-10 MIN (OK). GIH W/ 5-1/2" 15.5 PPF J-55 LT&C CASING / LINER AS FOLLOWS: 6-1/4" STX-09 RR BIT SN: H75YL 0.60' 3-1/2 REG X 5-1/2" LTC BIT SUB W/ FLOAT 1.40' 7- JTS 5-1/2" CASING 316.05' SLPR HYDRAULIC LINER HANGER W/ STEEL SLEEVE 3.75' TOTAL LINER ASSEMBLY 321.80' GIH W/ TOTAL OF 101 JTS 2-7/8" DRILLPIPE T/3450'KB, 7" SHOE @ 3452'KB. RU POWER SWIVEL. DRILL DOWN LINER THRU SHALE / SILTSTONE BRIDGES @ 3527, 3552'KB- W/ 1.1 MSCFD W/ 12 BPH AIR MIST @ 325-350 PSIG. DRILL DOWN THRU 6-1/4" RATHOLE SECTION F/3672-T/ 3725'KB, PBD PUMP 10 BBLS PRODUCED FRUITLAND COAL WATER AHEAD-DROP SETTING BALL-DISPLACE W/ 20 BBLS WATER-SET & RELEASE HYDRAULIC HANGER W/ 2200 PSIG. TOP OF LINER @ 3403'KB PBD @ 3723'KB. 6-1/4" BIT @ 3725'KB. PICK UP OFF OF LINER HANGER 5' AND CIRCULATE 7" CASING
	08:00 - 08:30	0.50	WC	8	50PRRC	
	08:30 - 11:00	2.50	CS	4	50PRRC	
	11:00 - 11:30	0.50	CS	6	50PRRC	
	11:30 - 13:45	2.25	CS	z	50PRRC	
	13:45 - 14:15	0.50	CS	5	50PRRC	

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED 21 #2 000002A
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 Event Name: Original Completion Start: 05/20/2003 End:
 Contractor Name: KEY FOUR CORNERS Rig Release: 07/01/2003 Group:
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
06/29/2003	13:45 - 14:15	0.50	CS	5	50PRRC	CLEAN W/ AIR MIST.
	14:15 - 18:00	3.75	CS	4	50PRRC	COOH & LAYDOWN DRILL PIPE & SETTING TOOL-TRIP IN & LAYDOWN 3-1/2" DRILL COLLARS.
	18:00 - 19:00	1.00	CM	6	80CMPL	RIG DOWN POWER SWIVEL & MANUAL TONGS-RU TO PERFORATE & RUN 2-3/8" TBG.
06/30/2003	19:00 - 19:30	0.50	CM	z	80CMPL	SDON.
	07:00 - 08:00	1.00	CM	c	80CMPL	SAFETY MEETING-PRIOR TO STARTING OPERATIONS-SICP 660 PSIG-RU PERFORATORS.
	08:00 - 12:30	4.50	CM	q	80CMPL	PT PERFORATOR'S LUBRICATOR T/660 PSIG (OK)-GIH & PERFORATE Kfc INTERVALS: 3659-3669', 3566-3569', 3520-3527', 3505-3507', & 3497-3501'-@ 4SPF TOTAL 104 (0.75") DIAMETER 90 DEGREE PHASED HOLES.
07/01/2003	12:30 - 13:00	0.50	WC	8	80CMPL	RD PERFORATORS.
	13:00 - 15:00	2.00	CM	4	80CMPL	PT 2-3/8" PIPE RAMS T/200 PSIG -3MIN & 660 PSIG -10 MIN (OK)-BLEED WELL DOWN TO PIT.
	15:00 - 17:00	2.00	WC	e	80CMPL	GIH W/ 32.6' X 2-3/8" MUD ANCHOR, 6.12' X 2-3/8" PERF SUB, W/ 0.85' x 2-3/8" OD X 1.78" ID BAKER PROFILE NIPPLE W/ BP, W/ 10' X 2-3/8" PUP JOINT W/ 117 JTS 2-3/8" EUE 8RD 4.7 PPF J-55 TBG MEASURING (3650.91') & LAND TBG W/ 2-3/8" EUE 8RD X 7-1/16" TBG HGR CONTAINING A BPV
07/02/2003	17:00 - 17:30	0.50	CM	z	80CMPL	EOT @ 3712'KB
	07:00 - 07:30	0.50	CM	c	80CMPL	PERF SUB 3673-3679'KB
	07:30 - 09:00	1.50	CM	f	80CMPL	FN @ 3672.43'KB.
07/02/2003	09:00 - 09:30	0.50	WC	g	80CMPL	ND BOPE & NU 2-3/8" EUE 8RD X 7-1/16" 3M BONNET.
	09:30 - 11:30	2.00	WS	2	90WOVR	SDON.
	11:30 - 12:00	0.50	WC	9	90WOVR	SAFETY MEETING-PRIOR TO STARTING OPERATIONS-SICP 680 PSIG, & SITP -0- PSIG.
07/02/2003	12:00 - 15:30	3.50	CM	6	80CMPL	RU B&R SERVICE SLICKLINE-
	15:30 - 16:00	0.50	CM	z	80CMPL	PT LUBRICATOR TO 680 PSIG (OK)-
	08:00 - 17:00	9.00	CM	6	80CMPL	GIH W/ EQUALIZING PROBE & PUNCTURE RUPTURE DISC-ROUNDRIP & PULL BP IN FN @ 3672'KB-
07/02/2003						RD SLICKLINE.
						SICP & SITP 680 PSIG-BLEED WELL DOWN TO PIT-PUMP 10 BBLS OF CLEAN Kfc PRODUCED WATER DOWN TBG & OBSERVE WELL FOR FLOW (VACUUM).
						FUNCTION TEST INSERT PUMP (OK)-
07/02/2003						GIH W/ 2" X 1 1/4" X 8' X 8'3" X 12'3" RHAC-Z INSERT PUMP W/ 2' PONY ROD AND 146 3/4" NORRIS, TYPE 78, API GRADE "D" RODS, SPACE OUT W/ 8' PONY ROD, RUN 1 1/4" X 22' POLISHED ROD.
						RIG UP ABOVE 2-3/8" FULL OPENING BALLVALVE, 1-1/4" ROD RATAGAN, 2-3/8" PUMPING TEE W/ 2" & 1" OUTLETS W/ BALL VALVES, STUFFING BOX.
						LOAD TBG W/ 12 BBLS CLEAN PRODUCED Kfc WATER-
07/02/2003						PT STANDING VALVE, TBG, STUFFING BOX T/600 PSIG (OK)-
						BLEED DOWN PRESSURE-
						STROKE PUMP AND TEST TRAVELING VALVE T/600 PSIG (OK)-
07/02/2003						SPACE OUT AND PLACE POLISH ROD CLAMP ON STUFFING BOX.
						RIG DOWN BLOOIE LINES, PADS, & AUXILIARY EQUIPMENT.
						SDON.
07/02/2003						SAFETY MEETING-PRIOR TO STARTING OPERATIONS-
						WRITE OUT HOT WORK PERMIT FOR WELDER & CONFINED
						SPACE FOR CLEANING COAL OUT OF SURGE TANK
07/02/2003						DRILL COLLAR INSPECTION, WELD ON DRAWWORKS, REPLACE AIR

Operations Summary Report

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Event Name: Original Completion Start: 05/20/2003 End:
Contractor Name: KEY FOUR CORNERS Rig Release: 07/01/2003 Group:
Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/02/2003	08:00 - 17:00	9.00	CM	6	80CMPL	COMPRESSOR TANK, WELD ON RIG FLOOR & MISC RIG EQUIPMENT- RIG DOWN & RELEASE RIG @ 17:00, 7-1-2003 T/ SJ 32-8 #205A- DROP FROM REPORT-TURN OVER TO PRODUCTION OPERATIONS- "JOB COMPLETE".