

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.
NMSF079048

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. NMMN99406	
2. Name of Operator CONOCOPHILLIPS COMPANY		8. Lease Name and Well No. SJ 32 FED 7 COM 1A	
3. Address 5525 HIGHWAY 64 FARMINGTON, NM 87401		9. API Well No. 30-045-31267-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 7 T32N R9W Mer NMP At surface NESE 1495FSL 945FEL 36.99611 N Lat, 107.81440 W Lon At top prod interval reported below At total depth		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL	
14. Date Spudded 02/16/2003		15. Date T.D. Reached 02/18/2003	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 03/25/2003		17. Elevations (DF, KB, RT, GL)* 6842 GL	
18. Total Depth: MD 3597 TVD		19. Plug Back T.D.: MD 3594 TVD	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NONE	
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 type="checkbox"/> No <input checked="" 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
			0						
			0						
12.250	9.625 H-40	32.0	0	221		135	32	0	
8.750	7.000 J-55	20.0	0	3334		480	220	0	
6.250	5.500 J-55	16.0	3284	3596		0	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	3345							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) FRUITLAND COAL	3380	3591	3380 TO 3591	0.750	196	OPEN
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
3380 TO 3591	CAVITATE

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/08/2003	03/22/2003	1	→	0.0	3220.0	0.5			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	425.0	→	0	77280	12		PGW	

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
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD

MAY 29 2003

FARMINGTON FIELD OFFICE

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

ELECTRONIC SUBMISSION #21028 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

NMAD

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	797		NACIMIENTO	562
NACIMIENTO	797	2050		OJO ALAMO	1842
OJO ALAMO	2050	2161		KIRTLAND	1907
				FRUITLAND	3202
				FRUITLAND COAL	3242

32. Additional remarks (include plugging procedure):

This well is a single producing from the Basin Fruitland Coal. Attached is the daily summary and wellbore schematic with 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 #21028 Verified by the BLM Well Information System.
For CONOCOPHILLIPS COMPANY, sent to the Farmington
Committed to AFMSS for processing by Adrienne Garcia on 05/29/2003 (03AXG1244SE)

Name (please print) DEBORAH MARBERRY

Title SUBMITTING CONTACT

Signature (Electronic Submission)

Date 05/19/2003

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 COM 7 #1A**API #: **30-045-31267**Spud Date: **16-Feb-03**Spud Time: **03:30**TD Date: **18-Feb-03**Rig Release Date: **19-Feb-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: **16-Feb-03**

Size **9 5/8** in
 Set at **221** ft # Jnts: **5**
 Wt. **32.3** ppf Grade **H-40**
 Hole Size **12 1/4** in
 Wash Out **100** %
 Est. T.O.C. **14** ft

Csg Shoe **221** ft
 TD of surface **229** ft

Notified BLM @ **1815** hrs
 on **2/13/2003**

Notified NMOCD @ **1815** hrs
 on **2/13/2003**

☒ New
☐ Used

Intermediate Casing Date set: **19-Feb-03**

Size **7** in
 Set at **3334** ft **81** jts
 Wt. **20** ppf Grade **J-55**
 Hole Size **8 3/4** in
 Wash Out **150** %
 Est. T.O.C. **SURFACE**

Csg Shoe **3334** ft
 TD of intermediate **3337** ft

Notified BLM @ **2000** hrs on **2/17/2003**
 Notified NMOCD @ **2000** hrs on **2/17/2003**

☒ New
☐ Used

Production Liner Date set: **22-Mar-03**

Size **5 1/2** in Connections: **LTC**
 Blank Wt. **15.5** ppf
 Grade **J-55**
 # Jnts: **7**
 Hole Size **6 1/4** in

☒ New
☐ Used

PBTD **3594'**
 Liner Shoe **3596'**

TD **3,597** ft**Surface Cement**

Date cmt'd: **16-Feb-03**
 Lead: **135sx 50/50/Poz w/2% Gel 5#/sx**
Gilsonite, 3% CaCl₂, 1/2 #/sx Flocele
& .2% CFR-3 @ 13.5ppg & 1.32 cuft/sx
 Displacement vol. & fluid.: **14.2 FW**
 Bumped Plug at: **1200 HRS**
 Pressure Plug bumped: **260 PSI**
 Returns during job: **YES**
 CMT Returns to surface: **13 BBLS**
 Floats Held: **Yes** **No**
 W.O.C. for **9** hrs (plug bump to drlg cmt)

Intermediate Cement

Date cmt'd: **19-Feb-03**
 Lead: **380sx Class B Cmt w/3%**
Econolite, 10 pps Gilsonite & 1/2 pps
Flocele @ 11.4 ppg & 2.90 cuft/sx.
 Tail: **100 sx 50/50/B/Poz Cmt w/2%**
Gel, 2% CaCl₂, 5 pps Gilsonite & 1/4
pps Flocele @ 13.5 ppg & 1.33 cuft/sx
 Displacement vol. & fluid.: **133 FW**
 Bumped Plug at: **1330**
 Pressure Plug bumped: **1400**
 Returns during job: **YES**
 CMT Returns to surface: **27 BBLS**
 Floats Held: **X** **Yes** **No**

Liner Cement**UNCEMENTED LINER****COMMENTS:**Surface: **NO FLOAT EQUIPMENT RAN. WELL SHUT-IN WITH 260 PSI.**Intermediate: **MARKER JT @ 1845'. PBD 3279'.**

Production: **6 1/4" BIT & BIT SUB RUN ON BOTTOM JOINT OF LINER.**
TOP OF LINER @ 3284'. 50' OF 7" CASING OVERLAP.

CENTRALIZERS:Surface: **211', 138', 97', 55'.**

Intermediate: **3324', 3250', 3209', 3127', 3045', 2963', 201'.**
TURBOLIZERS @ 1901', 1860', 1803'.

Total: **4**Total: **9**

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 End: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/02/2003	07:00 - 07:15	0.25	MV	c	70DMOB	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	07:15 - 17:00	9.75	MV	1	70DMOB	MOVE KEY #29 TO WITHIN 3MI OF SJ 32 FED 7 COM #1A LOCATION. SPOTTED HALF OF EQUIPMENT ON LOCATION. SD DUE TO WEATHER & ROAD CONDITIONS.
03/03/2003	07:00 - 11:00	4.00	MV	1	00MMIR	MOVE IN KEY #29 ON SJ 32 FED 7 COM #1A LOCATINN.
	11:00 - 11:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	11:30 - 18:30	7.00	CM	6	80CMPL	RU RIG FOR DAYLIGHT CAVITATION. SDFN.
03/04/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	07:30 - 18:30	11.00	CM	6	80CMPL	CONTINUE RIGGING UP FOR DAYLIGHT CAVITATION. SDFN.
03/05/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING.
	07:30 - 11:00	3.50	CM	6	80CMPL	FINISH RIGGING UP.
	11:00 - 12:00	1.00	CM	c	80CMPL	PERFORM RIG INSPECTION.
	12:00 - 13:30	1.50	CM	8	80CMPL	PRESSURE TEST BOTH SETS OF PIPE RAMS TO 3000PSI. TEST CSG & BLIND RAMS TO 250PSI- 3MIN, 650PSI- 30MIN & 1900PSI- 10MIN. ALL DATA RECORDED ON A CHART AS PER NMOC REQUIREMENTS.
03/06/2003	13:30 - 18:00	4.50	CM	2	80CMPL	MU 6 1/4" BUTTON BIT ON BOTTOM OF A 3 1/2" DC. PU 9- MORE COLLARS. STRAP IN HOLE PICKING UP 2 7/8" DP. TAG UP @ 3265'.
	18:00 - 18:30	0.50	CM	z	80CMPL	PU OFF BOTTOM & SWIFN.
	08:00 - 08:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	08:15 - 09:00	0.75	CM	1	80CMPL	PICK UP POWER SWIVEL, TEST AIR LINES
	09:00 - 10:00	1.00	CM	z	80CMPL	UNLOAD HOLE WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR
	10:00 - 16:00	6.00	CM	7	80CMPL	MIST PUMP DOWN, WORK ON MIST PUMP, CHANGE VALVES AND CLEAN OUT
	16:00 - 18:00	2.00	CE	s	80CMPL	DRILL OUT CEMENT, FLOAT & SHOE JT. = 3265' - 3337'
	18:00 - 05:00	11.00	DR	1	80CMPL	DRILL OPEN HOLE F/3337' - T/3597' W/1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLs WATER
	05:00 - 06:00	1.00	DR	5	80CMPL	4-6K ON BIT, 70 RPM, 450 PSI
						CIRCULATE ON BOTTOM & CORRELATE W/MUD LOGGERS
03/07/2003						COAL INTERVALS AS FOLLOWS:
						3381' - 3385' = 5', SEMI BRIGHT BLACK GLASSY, 327 UNITS GAS
						3389' - 3392' = 3',
						3395' - 3398' = 3',
						3401' - 3405' = 5', FLAT BLACK DULL GLASSY, 324 UNITS GAS
	06:00 - 06:15	0.25	CM	c	80CMPL	3409' - 3411' = 2',
	06:15 - 08:30	2.25	CM	1	80CMPL	3413' - 3415' = 3', SEMI BRIGHT DULL GLASSY, 348 UNITS GAS
						3418' - 3425' = 8',
						3427' - 3430' = 3', DARK BROWN SUB PLATY POOR, 385 UNITS GAS
						3434' - 3436' = 2',
						3558' - 3560' = 3', SEMI BRIGHT FAIR CLEATING, 437 UNITS GAS
						3563' - 3565' = 3',
						3575' - 3578' = 4', SAME, 469 UNITS GAS
						3584' - 3588' = 5', SAME, 486 UNITS GAS
						49' TOTAL COALS
						HOLD SAFETY MEETING WITH ALL PERSONNEL
						CLEAN OUT, R&R WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLs WATER
						RETURNS TO SURFACE = COAL AND FINES
						80% COAL, 20% SHALE
						2 BUCKETS DOWN TO 1/2 BUCKET PER HOUR
	08:30 - 09:00	0.50	CM	z	80CMPL	CIRCULATE WITH 1800 CFM AIR TO DRY UP WELL FOR FLOW

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 Spud Date: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/07/2003	08:30 - 09:00	0.50	CM	z	80CMPL	TEST
	09:00 - 09:45	0.75	CM	4	80CMPL	POOH 9 JTS TO 7" SHOE AT 3337', RIG UP FOR FLOW TEST
	09:45 - 10:45	1.00	CM	u	80CMPL	FLOW TEST THROUGH 2" OPEN LINE & PITOT TUBE AS FOLLOWS: 15 MIN = 645 , 30 MIN = 645 , 45 MIN = 645 , 1 HR = 752
	10:45 - 11:45	1.00	CM	t	80CMPL	SHUT IN PRESSURE TEST AS FOLLOWS: ISIP = 20# , 15 MIN = 220# , 30 MIN = 340# , 45 MIN = 420# , 1 HR = 460#
	11:45 - 16:00	4.25	CM	1	80CMPL	SURGE WELL #1, NATURAL, 520 PSI, NO COAL TO SURFACE #2, #3, #4 WITH 1200 PSI AIR/MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLs 5-6 BBLs FOAM PADS, RETURNS TO SURFACE = LIGHT COAL & FINES
	16:00 - 16:30	0.50	CM	4	80CMPL	RIH FROM 7" SHOE, TAG FILL AT 3551'
	16:30 - 19:00	2.50	CM	1	80CMPL	R&R, C/O F/3551' - T/3597' (TD) WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLs RETURNS TO SURFACE = LIGHT COAL & FINES WITH NATURAL FORMATION GAS 2 BUCKETS PER HOUR OFF SAMPLE CATCHER
	19:00 - 19:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R, C/O F/3551' - T/3597' (TD) WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLs RETURNS TO SURFACE = LIGHT COAL & FINES WITH NATURAL FORMATION GAS 2 BUCKETS DOWN TO 1/2 BUCKET PER HOUR OFF SAMPLE CATCHER
	06:00 - 06:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
03/08/2003	06:15 - 07:15	1.00	CM	1	80CMPL	R&R, C/O TO 3597' (TD) WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLs RETURNS TO SURFACE = MED COAL & FINES 1/2 BUCKET PER HOUR, DOWN FROM 4 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	07:15 - 07:45	0.50	CM	4	80CMPL	POOH TO 7" SHOE AT 3318', RIG UP TO SURGE WELL
	07:45 - 11:30	3.75	CM	1	80CMPL	SURGE WELL #5, #6, #7 WITH AIR ASSIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLs 5-6 BBL FOAM PADS, 1100 PSI, RETURNS TO SURFACE = MED COALS & FINES
	11:30 - 15:00	3.50	CM	1	80CMPL	R&R, C/O AT 3318' WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLs RETURNS TO SURFACE = HEAVY COAL & FINES W / NATURAL FORMATION GAS 4 DOWN TO 1/2 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	15:00 - 15:30	0.50	CM	4	80CMPL	RIH FROM 7" SHOE, TAG FILL AT 3348'
	15:30 - 19:00	3.50	CM	1	80CMPL	R&R, C/O AT 3348' WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLs RETURNS TO SURFACE = MED COAL & FINES W / NATURAL FORMATION GAS 2-3 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	19:00 - 19:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R, C/O F/3348' - T/3597' (TD) WITH 1800 CFM AIR, 10 BPH MIST, 2

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM Spud Date: 02/15/2003
 Event Name: Original Completion Start: 03/01/2003 End:
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/08/2003	19:15 - 06:00	10.75	CM	1	80CMPL	GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = MED TO HEAVY COAL & FINES W / NATURAL FORMATION GAS 95% COAL, 5% SHALE
03/09/2003	06:00 - 06:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	06:15 - 10:15	4.00	CM	1	80CMPL	R&R, C/O TO 3597' (TD) WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = MED COAL & FINES W / NATURAL FORMATION GAS 3 DOWN TO 1/2 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	10:15 - 10:45	0.50	CM	4	80CMPL	POOH TO 7" SHOE AT 3318' WITH BHA, PERPARE TO SURGE WELL
	10:45 - 13:45	3.00	CM	1	80CMPL	SURGE WELL #8, #9, #10 WITH AIR ASSIST, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS 5-6 BBL FOAM PADS, 1100 PSI, RETURNS TO SURFACE = MED COAL & FINES
	13:45 - 15:00	1.25	CM	1	80CMPL	R&R, C/O AT 3318' WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY COAL & FINES W / NATURAL FORMATION GAS 4 DOWN TO 1/2 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	15:00 - 15:15	0.25	CM	4	80CMPL	RIH WITH 1 JOINT TO 3349' TAG FILL
	15:15 - 16:30	1.25	CM	1	80CMPL	R&R, C/O TO 3348' WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY COAL & FINES W / NATURAL FORMATION GAS 4 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	16:30 - 16:45	0.25	CM	4	80CMPL	STARTED TO GET TIGHT, COALS RUNNING POOH 1 JOINT TO 3318'
	16:45 - 19:00	2.25	CM	1	80CMPL	R&R, C/O AT 3318' WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY COALS & FINES W / NATURAL FORMATION GAS 3 - 4 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	19:00 - 19:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R, C/O F/3318' - T/3565' WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY COALS & FINES W / NATURAL FORMATION GAS 3 - 4 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
03/10/2003	06:00 - 06:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	06:15 - 13:30	7.25	CM	1	80CMPL	R&R, C/O F/3565' - T/3597' (TD) WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY COAL & FINES W / NATURAL FORMATION GAS 4 DOWN TO 1/2 BUCKETS PER HIUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	13:30 - 14:00	0.50	CM	z	80CMPL	CIRCULATE WITH 1800 CFM AIR TO DRY UP HOLE FOR FLOW

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 End: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/10/2003	13:30 - 14:00	0.50	CM	z	80CMPL	TEST
	14:00 - 14:30	0.50	CM	4	80CMPL	POOH HOLE TO 7" SHOE AT 3318' WITH BHA, PREPARE TO FLOW TEST WELL
	14:30 - 15:30	1.00	CM	u	80CMPL	FLOW TEST WELL THROUGH OPEN 2" AND PITOT TUBE AS FOLLOWS: 15 MIN = 1236 MCFD, 30 MIN = 1374 MCFD, 45 MIN = 1374 MCFD, 1 HR = 1374 MCFD
	15:30 - 16:30	1.00	CM	t	80CMPL	SHUT IN PRESSURE TEST AS FOLLOWS: ISIP = 40 PSI, 15 MIN = 210 PSI, 30 MIN = 320 PSI, 45 MIN = 375 PSI, 1 HR = 425 PSI
	16:30 - 19:00	2.50	CM	1	80CMPL	SURGE WELL #11, #12, #13 WITH AIR ASSIST, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS 5-6 BBL FOAM PADS, 1100 PSI, RETURNS TO SURFACE = MED TO HEAVY COALS
	19:00 - 19:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	19:15 - 23:00	3.75	CM	1	80CMPL	R&R, C/O F/3318' - T/3442' WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY COAL & FINES W / NATURAL FORMATION GAS 4 - 6 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5 % SHALE STARTED TO GET TIGHT, COALS RUNNING
	23:00 - 23:15	0.25	CM	4	80CMPL	POOH 2 JOINTS TO 3380'
	23:15 - 06:00	6.75	CM	1	80CMPL	R&R, C/O F/3380' - T/3504' WITH 1800 CFM AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY COAL & FINES W / NATURAL FORMATION GAS 3 - 6 BUCKETS PER HOUR FROM SAMPLE CATCHER 95% COAL, 5% SHALE (FINES TO 1" DIA IN SIZE)
03/11/2003	06:00 - 06:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	06:15 - 19:00	12.75	CM	1	80CMPL	R&R, C/O F/3504' - T/3580' WITH 1800 CFM AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY COAL & FINES W / NATURAL FORMATION GAS 6 DOWN TO 2 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE (FINES TO 1" DIA IN SIZE)
	19:00 - 19:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R, C/O F/3580' - T/3597' (TD) WITH 1800 CFM AIR, 12 - 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY COAL & FINES W / NATURAL FORMATION GAS 4 DOWN TO 1 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
03/12/2003	06:00 - 06:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	06:15 - 10:00	3.75	CM	1	80CMPL	R&R, C/O TO 3597' (TD) WITH 1800 CFM AIR, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR/20 BBLS RETURNS TO SURFACE = HEAVY TO MED COAL & FINES W / NATURAL FORMATION GAS 3 DOWN TO 1/2 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE
	10:00 - 10:30	0.50	CM	4	80CMPL	POOH TO 7" SHOE AT 3318' W/BHA, PREPARE TO SURGE WELL
	10:30 - 13:30	3.00	CM	1	80CMPL	SURGE WELL #14, #15, #16 WITH AIR ASSIST, 10 BPH MIST 1 GAL FOAMER & INHIBITOR/20 BBLS

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 Spud Date: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/12/2003	10:30 - 13:30	3.00	CM	1	80CMPL	5-6 BBLs FOAM PADS, 1100 PSI RETURNS TO SURFACE = MED TO HEAVY COAL & FINES R&R, C/O AT 3318' WITH 1800 CFM AIR, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR/20 BBLs
	13:30 - 15:00	1.50	CM	1	80CMPL	RETURNS TO SURFACE = HEAVY TO MED COAL & FINES W / NATURAL FORMATION GAS 4 DOWN TO 1 BUCKET PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE, (FINES TO 1/2" DIA)
	15:00 - 15:30	0.50	CM	4	80CMPL	RIH FROM 7" SHOE, TAG FILL AT 3380'
	15:30 - 19:00	3.50	CM	1	80CMPL	R&R, C/O F/3380' - T/3402' WITH 1800 CFM AIR, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR/20 BBLs RETURNS TO SURFACE = HEAVY TO MED COAL & FINES W / NATURAL FORMATION GAS 3 - 4 BUCKETS PER HOUR OFF SAMPLE CATCHER 95% COAL, 5% SHALE, (FINES TO 1/2" DIA)
	19:00 - 19:15	0.25	CM	c	80CMPL	HOLD SAFETY MEETING WITH ALL PERSONNEL
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R, C/O F/3402' - T/3535' WITH 1800 CFM AIR, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR/20 BBLs RETURNS TO SURFACE = HEAVY COAL & FINES W / NATURAL FORMATION GAS 4 - 6 BUCKETS PER HOUR OFF SAMPLE CATCHER 90 - 95% COAL, 5 - 10% SHALE, (FINES TO 1/2" DIA)
						R&R C/O COAL FR 3504'- 3535' W/1800CFM AIR & 15BPH MIST W/1/2GAL SOAP+INHIBITOR. CIRCULATING PRESSURE - 400PSI. RETURNS OF MED-SML COAL CHIPS & FINES. 1 1/2 BKTS PR/HR FR SAMPLE CATCHER. 90-95% COAL & 5- 10% SAND & SHALE.
						SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
03/13/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O COAL FR 3535'-65' W/1800CFM AIR & 15BPH MIST W/1/2GAL SOAP+INHIBITOR. CIRCULATING PRESSURE - 400PSI. RETURNS OF SML COAL CHIPS & HVY FINES. 4 DN TO 2BKTS PR/HR FR SAMPLE CATCHER. 90-95% COAL, 5- 10% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	07:30 - 11:30	4.00	CM	1	80CMPL	R&R C/O COAL FR 3565'- 97'(TD) W/1800CFM AIR-MIST. RETURNS OF MED TO SML COAL CHIPS & HVY FINES. 6-DN TO 4BKTS PR/HR FR SAMPLE CATCHER. 90- 95% COAL, 5- 10% SAND & SHALE.
	11:30 - 19:00	7.50	CM	1	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	19:00 - 19:15	0.25	CM	c	80CMPL	R&R C/O COAL FR 3565'- 97' W/1800CFM AIR & 15BPH MIST W/1/2GAL SOAP+INHIBITOR. CIRCULATING PRESSURE - 375PSI TO 400PSI. RETURNS OF SML COAL CHIPS & HVY- MED COAL FINES. 4 DN TO 1 1/2BKT PR/HR BY MORNING. 90- 95% COAL, 5- 10% SAND & SHALE.
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R C/O FR 3565'- 97' W/1800CFM AIR-MIST. RETURNS OF LT COAL FINES. 1BKT PR/HR FR SAMPLE CATCHER. 90- 95% COAL, 5- 10% SAND & SHALE.
						SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
						PULL UP INSIDE 7" CSG SHOE TO 3318' LAYING DN 9-JTS OF 2 7/8" DP.
03/14/2003	06:00 - 07:00	1.00	CM	1	80CMPL	CONDUCT FLOW TEST OUT 2" W/PITOT. 15MIN- 1.41MMCFD, 30MIN- 1.68MMCFD, 45MIN 1.87MMCFD, 60MIN 1.87MMCFD.
	07:00 - 07:30	0.50	CM	c	80CMPL	SI WELL FOR BUILD UP. 15MIN- 250PSI, 30MIN- 310PSI, 45MIN- 360PSI, 60MIN- 385PSI.
	07:30 - 08:15	0.75	CM	2	80CMPL	PERFORM AIR ASSIST SURGES #19, #20 & # 21 USING 1-
	08:15 - 09:15	1.00	CM	u	80CMPL	
	09:15 - 10:15	1.00	CM	t	80CMPL	
	10:15 - 14:30	4.25	CM	1	80CMPL	

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 End: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/14/2003	10:15 - 14:30	4.25	CM	1	80CMPL	COMPRESSOR TO BUILD UP TO 1000PSI EACH TIME. PUMPED 2-5BBL H2O PADS DURING EACH BUILD UP. RETURNS OF HEAVY COAL DUST, FINES & SOME COAL CHIPS FR 1/4"- 1/2" IN SIZE.
	14:30 - 15:15	0.75	CM	1	80CMPL	R&R C/O COAL FR 3318'- 3348' W/1800CFM AIR MIST. RETURNS OF HVY FINES CLEANING UP FAIRLY QUICKLY.
	15:15 - 15:30	0.25	CM	2	80CMPL	TIH PICKING UP DP. TAG FILL @ 3380'(217' FILL).
	15:30 - 19:00	3.50	CM	1	80CMPL	BREAK CIRCULATION W/AIR MIST. R&R C/O COAL FILL FR 3380'- 3405' W/1800CFM AIR & 12BPH MIST. RETURNS OF LT- MED COAL CHIPS W/HVY FINES. 6 DN TO 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R C/O COAL FR 3405'- 3504' W/1800CFM AIR, 12BPH MIST(NO ADDITIONAL SOAP). CIRCULATING PRESSURE - 375 TO 400PSI. RETURNS OF MED- LT COAL CHIPS W/HVY FINES. 5 DN TO 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE. MADE 3- DP CONNECTIONS.
03/15/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O FR 3473'- 3504' W/1800CFM AIR-MIST. CIRCULATING PRESSURE 375PSI- 400PSI. RETURNS OF LT COAL CHIPS W/ MED FINES. 2 DN TO 1 BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	07:30 - 10:15	2.75	CM	1	80CMPL	R&R C/O FR 3504'-97'(TD) W/1800CFM AIR & 15BPH MIST. RETURNS OF MED- LT COAL CHIPS W/ HVY- MED COAL FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	10:15 - 10:45	0.50	CM	2	80CMPL	PULL UP INSIDE 7" CSG SHOE TO 3318'.
	10:45 - 14:30	3.75	CM	1	80CMPL	PERFORM AIR ASSIST SURGES #22,#23 & #24 USING 1 COMPRESSOR PRESSURING UP TO 1000PSI EACH TIME. PUMPED 2- 5BBL H2O PADS DURING EACH BUILD UP. RETURNS OF LT COAL CHIPS & MED FINES.
	14:30 - 15:00	0.50	CM	2	80CMPL	TIH PICKING UP DP. TAG FILL @ 3395'.
	15:00 - 19:00	4.00	CM	1	80CMPL	R&R C/O FR3395'- 3405' W/1800CFM AIR & 15BPH MIST. CIRCULATING PRESSURE - 400PSI. RETURNS OF HVY- MED COAL CHIPS & HVY FINES. 5 DN TO 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	19:15 - 02:45	7.50	CM	1	80CMPL	R&R C/O COAL FR 3405'- 3436' W/1800CFM AIR-MIST. RETURNS OF MED COAL CHIPS W/HVY FINES. 4 DN TO 1BKT PR/HR 95% COAL, 5% SAND & SHALE.
	02:45 - 04:45	2.00	CM	1	80CMPL	R&R C/O FR 3436'- 3535' W1800CFM AIR-MIST. RETURNS OF LT- COAL CHIPS W/ MED COAL FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
03/16/2003	04:45 - 06:00	1.25	CM	1	80CMPL	R&R C/O FR 3535'- 3573' W/1800CFM AIR- MIST. CIRCULATING PRESSURE - 375PSI. RETURNS OF LT- MED COAL CHIPS W/ HVY FINES. 4 DN TO 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O FR 3573'- 3597' W/1800CFM AIR-MIST. CIRCULATING PRESSURE - 375PSI. RETURNS OF LT COAL CHIPS, HVY-MED COAL FINES. 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION. RIG SERVICE.
	07:30 - 10:45	3.25	CM	1	80CMPL	R&R C/O COAL FR 3573'- 3597' W/1800CFM AIR-MIST. RETURNS

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 End: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/16/2003	07:30 - 10:45	3.25	CM	1	80CMPL	OF LT- COAL CHIPS, MED COAL FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	10:45 - 11:00	0.25	CM	2	80CMPL	PULL UP INSIDE 7" CSG SHOE TO 3318'.
	11:00 - 15:00	4.00	CM	1	80CMPL	PERFORM AIR ASSIST SURGES #25, #26 & #27 USING 1-COMPRESSOR PRESSURING UP TO 1000PSI EACH TIME. PUMPED 2- 5BBL H2O PADS DURING EACH BUILD UP. RETURNS OF HVY DUST, HVY COAL FINES & 1/4"- 3/4" SIZE COAL CHIPS.
	15:00 - 16:30	1.50	CM	1	80CMPL	R&R C/O COAL INSIDE CSG # 3318' W/1800CFM AIR-MIST. RETURNS OF HVY COAL FINES CLEANING UP TO LT- FINES.
	16:30 - 16:45	0.25	CM	2	80CMPL	TIH & TAG COAL FILL @ 3385'.
	16:45 - 19:00	2.25	CM	1	80CMPL	R&R C/O RUNNING COAL FR 3385'- 95' W/1800CFM AIR, 15BPH MIST W/NO ADDITIONAL SOAP. CIRCULATING PRESSURE- 400PSI- 500PSI. RETURNS OF HVY COAL CHIPS & HVY FINES. 8 BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R C/O RUNNING COAL FR 3385'- 95' W/1800CFM AIR-MIST. CIRCULATING PRESSURE - 400PSI- 500PSI. RETURNS OF HVY COAL CHIPS 1/8"- 1/2" IN SIZE & HVY FINES. 8 DN TO 6BKTS PR/HR BY MORNING FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
03/17/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O RUNNING COAL FR 3385'-95' W/1800CFM AIR, 15BPH MIST W/NO ADDITIONAL SOAP. CIRCULATING PRESSURE - 400PSI. RETURNS OF COAL CHIPS 1/8"- 1/2" IN SIZE, HVY FINES. 6BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% 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 C/O RUNNING COAL FR 3385'- 3405' W/1800CFM AIR-MIST. CIRCULATING PRESSURE - 375PSI- 400PSI. RETURNS OF CHIPS 1/8"- 1/2" IN SIZE W/HVY FINES. 6 DN TO 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	19:15 - 01:00	5.75	CM	1	80CMPL	R&R C/O COAL FR 3385'- 3405' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 375PSI. RETURNS OF COAL CHIPS, HVY- MED FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	01:00 - 06:00	5.00	CM	1	80CMPL	R&R C/O RUNNING COAL FR 3405'- 3436' W/1800CFM AIR-MIST. CIRCULATING PRESSURE - 375PSI. RETURNS OF MED COAL CHIPS & HVY FINES. 5 DN TO 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
03/18/2003	-		CM		80CMPL	
	-		CM		80CMPL	
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O COAL FR 3405'- 3436' W/1800CFM AIR-MIST. NO ADDITIONAL SOAP. CIRCULATING PRESSURE - 375PSI. RETURNS OF LT COAL CHIPS, HVY- MOD COAL FINES. 3 DN TO 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	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 C/O COAL FR 3405'- 36' W/1800CFM AIR-MIST. RETURNS OF LT- COAL CHIPS, MOD- LT COAL FINES. 2DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	09:00 - 12:00	3.00	CM	1	80CMPL	R&R C/O RUNNING COAL FR 3436'- 3467' W/1800CFM AIR-MIST. CIRCULATING PRESSURE - 375PSI. RETURNS OF MOD COAL

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 End: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/18/2003	09:00 - 12:00	3.00	CM	1	80CMPL	CHIPS W/HVY FINES 5BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	12:00 - 19:00	7.00	CM	1	80CMPL	R&R C/O COAL FR 3436'- 67' W/1400CFM AIR-MIST. CIRCULATING PRESSURE - 250PSI. RETURNS OF MOD COAL CHIPS W/HVY FINES. 5DN TO 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE. @ NOON, SHUT DN 1- COMPRESSOR. ORDER PARTS.
	19:00 - 19:15	0.25	CM	1	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	19:15 - 06:00	10.75	CM	1	80CMPL	R&R C/O COAL FR 3436'- 67' W/1400CFM AIR-MIST. CIRCULATING PRESSURE - 250PSI. RETURNS OF MOD- LT COAL CHIPS W/HVY FINES. 3 DN TO 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
03/19/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O COAL FR 3436'- 67' W/1400CFM AIR-MIST. NO ADDITIONAL SOAP. RETURNS OF LT- COAL CHIPS, HVY FINES. 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION. RIG SERVICE.
	07:30 - 14:00	6.50	CM	1	80CMPL	R&R C/O COAL FR 3436'- 67' W/1400CFM AIR-MIST. RETURNS OF HVY- MOD COAL FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	14:00 - 19:00	5.00	CM	1	80CMPL	R&R C/O COAL FR 3436'- 67' W/1800CFM AIR 15BPH MIST. RETURNS OF HVY COAL CHIPS & HVY FINES. 4BKTS DN TO 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	19:15 - 20:45	1.50	CM	1	80CMPL	R&R C/O COAL FR 3436'- 67' W/1800CFM AIR- 15BPH MIST. CIRCULATING PRESSURE - 375PSI. RETURNS OF MOD- LT COAL CHIPS & MOD FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	20:45 - 00:00	3.25	CM	1	80CMPL	R&R C/O COAL FR 3467'- 99' W/1800CFM AIR-MIST. CIRCULATING PRESSURE - 375PSI. RETURNS OF MOD COAL CHIPS & HVY COAL FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	00:00 - 04:00	4.00	CM	1	80CMPL	R&R C/O COAL FILL FR 3499- 3531' W/1800CFM AIR- MIST. CIRCULATING PRESSURE - 375PSI. RETURNS OF MOD COAL CHIPS W/HVY FINES. 5 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	04:00 - 06:00	2.00	CM	1	80CMPL	R&R C/O COAL FR 3531'- 40' W/1800CFM AIR-MIST. CIRCULATING PRESSURE - 375PSI. RETURNS OF MOD COAL CHIPS W/HVY COAL FINES. 3BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O COAL FR 3531'- 63' W/1800CFM AIR, 15BPH MIST. CIRCULATING PRESSURE - 375PSI. RETURNS OF LT COAL CHIPS W/HVY FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
03/20/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING. RIG SERVICE.
	07:30 - 11:00	3.50	CM	1	80CMPL	R&R C/O COAL FR 3563'- 97' W/1800CFM AIR-MIST. NO ADDITIONAL SOAP. CIRCULATING PRESSURE - 375PSI. RETURNS OF LT COAL CHIPS W/HVY- MOD COAL FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	11:00 - 12:00	1.00	CM	1	80CMPL	SHUT OFF MIST. BLOW WELL DRY ON BOTTOM W/1800CFM AIR.
	12:00 - 12:45	0.75	CM	2	80CMPL	PULL UP INSIDE 7" CSG SHOE TO 3318'.

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 Spud Date: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/20/2003	12:45 - 13:45	1.00	CM	u	80CMPL	CONDUCT FLOW TEST OUT 2" W/PITOT. 15MIN- 2.41MMCFD, 30MIN- 2.93MMCFD, 45MIN- 3.15MMCFD & 60MIN- 3.15MMCFD. 1/4BPH H2O.
	13:45 - 15:45	2.00	CM	1	80CMPL	OPEN WELL UP TO FLOW NATURALLY OUT BOTH BLOOIE LINES.
	15:45 - 16:30	0.75	CM	2	80CMPL	TIH PICKING UP DP. TAG FILL @ 3415'.
	16:30 - 18:00	1.50	CM	5	80CMPL	BREAK CIRCULATION W/1800CFM AIR-MIST.
	18:00 - 19:00	1.00	CM	1	80CMPL	R&R C/O COAL FR 3415'- 40' W/1800CFM AIR, 15BPH MIST W/1/2 GAL POLYMER, NO ADDITIONAL SOAP. RETURNS OF LT COAL CHIPS & HVY COAL FINES. 4BKTS PR/ HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	19:00 - 19:15	0.25	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	19:15 - 04:00	8.75	CM	1	80CMPL	R&R C/O RUNNING COAL FR 3415'- 40' W/1800CFM AIR-MIST, 1/2GAL POLY. CIRCULATING PRESSURE - 425PSI. RETURNS OF LT- MOD COAL CHIPS W/HVY FINES. 4 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	04:00 - 06:00	2.00	CM	1	80CMPL	R&R C/O COAL FR 3440'- 72' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT COAL CHIPS W/HVY COAL FINES. 4 DN TO 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O COAL FR 3440'-72' W/1800CFM AIR-MIST, 1/2GAL POLY. CIRCULATING PRESSURE- 375PSI. RETURNS OF MOD FINE COAL. 2 DN TO 1BKT PR/ HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION. RIG SERVICE.
03/21/2003	07:30 - 09:30	2.00	CM	1	80CMPL	R&R C/O COAL FR 3472'- 3504' W/1800CFM AIR, 15BPH MIST W/1/2GAL POLYMER. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT COAL CHIPS & HVY FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	09:30 - 12:00	2.50	CM	1	80CMPL	R&R C/O COAL FR 3504'- 3533' W/1800CFM AIR- MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT- COAL CHIPS & HVY FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	12:00 - 14:30	2.50	CM	1	80CMPL	R&R C/O COAL FR 3533'- 64' W/1800CFM AIR-MIST. RETURNS OF LT- COAL CHIPS & HVY FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	14:30 - 18:00	3.50	CM	1	80CMPL	R&R C/O COAL FR 3564'- 97' W/1800CFM AIR, 15BPH MIST W/1GAL POLYMER. 400PSI CIRCULATING PRESSURE. RETURNS OF LT- COAL CHIPS & HVY FINES. 4 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	18:00 - 18:30	0.50	CM	2	80CMPL	PULL UP INTO 7" CSG SHOE @ 3318'.
	18:30 - 20:30	2.00	CM	1	80CMPL	FLOW WELL NATURAL OUT BLOOIE LINES.
	20:30 - 21:00	0.50	CM	2	80CMPL	TIH PICKING UP DP. TAG UP @ 3448'.
	21:00 - 22:30	1.50	CM	5	80CMPL	BREAK CIRCULATION W/AIR-MIST.
	22:30 - 02:00	3.50	CM	1	80CMPL	R&R C/O COAL FR 3448'- 3473' W/1800CFM AIR-MIST. CIRCULATING PRESSURE- 400PSI. RETURNS OF LT COAL CHIPS & HVY FINES. 4 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	02:00 - 03:45	1.75	CM	1	80CMPL	R&R C/O COAL FR 3473'- 3504' W/1800CFM AIR-MIST. RETURNS OF LT-COAL CHIPS & MOD COAL FINES. 2 1/2 DN TO 1BKT PR HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	03:45 - 06:00	2.25	CM	1	80CMPL	R&R C/O COAL FR 3504'- 3535' W/1800CFM AIR, 15BPH MIST W/1GAL OF POLYMER. CIRCULATING PRESSURE - 400PSI.

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 Spud Date: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: Group:
 Rig Name: KEY ENERGY Rig Number: 29

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/21/2003	03:45 - 06:00	2.25	CM	1	80CMPL	RETURNS OF LT- COAL CHIPS & HVY FINES. 3 DN TO 1BKT PR HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
03/22/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O COAL FR 3535'-67' W/1800CFM AIR-MIST. RETURNS OF LT COAL CHIPS & HVY FINES. 2BKTS PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION. RIG SERVICE.
	07:30 - 08:30	1.00	CM	1	80CMPL	R&R CO COAL FR 3535'- 67' W/1800CFM AIR, 15BPH MIST W/1GAL OF POLY. CIRCULATING PRESSURE - 425PSI. RETURNS OF LT- COAL CHIPS & MOD COAL FINES. 2 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	08:30 - 13:30	5.00	CM	1	80CMPL	R&R CO COAL FR 3567'- 97' W/1800CFM AIR-MIST. CIRCULATING PRESSURE - 425PSI. RETURNS OF LT COAL CHIPS & HVY FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	13:30 - 14:00	0.50	CM	2	80CMPL	PULL UP INSIDE 7" CSG SHOE TO 3318'.
	14:00 - 15:00	1.00	CM	u	80CMPL	PERFORM FLOW TEST THROUGH 2" W/PITOT. 15MIN- 2.82MMCFD, 30MIN- 3.0MMCFD, 45MIN -3.22MCFD & 60MIN- 3.22MCFD. 1/2 BPH H2O.
	15:00 - 17:00	2.00	CM	g	80CMPL	OPEN WELL UP TO FLOW NATURAL THROUGH BOTH BLOOIE LINES.
	17:00 - 17:30	0.50	CM	2	80CMPL	TIH PICKING UP DP. TAG UP @ 3448'.
	17:30 - 19:00	1.50	CM	5	80CMPL	BREAK CIRCULATION W/1800CFM AIR-MIST.
	19:00 - 21:00	2.00	CM	1	80CMPL	R&R CO COAL FR 3448'-67' W/1800CFM AIR, 12BPH MIST W/2GAL SOAP+INHIBITOR & 1GAL POLYMER. CIRCULATING PRESSURE - 450PSI. RETURNS OF LT COAL CHIPS & HVY FINES. 4 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
03/23/2003	21:00 - 00:30	3.50	CM	1	80CMPL	R&R CO COAL FR 3567'- 97' W/1800CFM AIR-MIST. CIRCULATING PRESSURE - 450PSI. RETURNS OF LT COAL CHIPS & HVY FINES. 3 DN TO 1BKT PR/HR FR SAMPLE CATCHER. 95% COAL, 5% SAND & SHALE.
	00:30 - 04:30	4.00	CM	1	80CMPL	R&R FR 3567'-97'. CONDITION HOLE TO RUN 5 1/2" CSG LINER.
	04:30 - 06:00	1.50	CM	4	80CMPL	LAY DN 7- JTS OF 2 7/8" DP. POOH W/49-STANDS OF DP.
	06:00 - 07:30	1.50	CM	4	80CMPL	POOH W/DP, DCS & BIT.
	07:30 - 07:45	0.25	CM	c	80CMPL	SAFETY MEETING W/ALL PERSONNEL ON LOCATION.
	07:45 - 09:00	1.25	CM	6	80CMPL	RU TO RUN 5 1/2" CSG LINER.
	09:00 - 12:00	3.00	CM	2	80CMPL	MU 6 1/4" BIT ON 5 3/4" BIT SUB FOLLOWED BY 7-JTS (305.30') OF 5 1/2", 15.5#, JE, LT&C, 8-RD CSG TOPPED OFF BY 5 1/2"x 7" HYFLO III LINER HANGER. TIH W/2 7/8" DP. TAG UP @ 3405'.
	12:00 - 15:00	3.00	CM	1	80CMPL	BREAK CIRCULATION W/1800AIR-MIST. CIRCULATE CSG DN FR 3405' TO 3597'.
	15:00 - 15:30	0.50	CM	5	80CMPL	CIRCULATE HOLE CLEAN @ 3597'(TD).
	15:30 - 15:45	0.25	CM	1	80CMPL	PULL UP OFF BOTTOM. SET LINER HANGER & ROTATE OFF. BOTTOM OF BIT @ 3596'KB. TOP OF BIT SUB- 3594'. TOP OF LINER- 3284'.
03/24/2003	15:45 - 19:00	3.25	CM	2	80CMPL	POOH W/SETTING TOOL LAYING DN 2 7/8" DP. SWIFN.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING.
	07:30 - 09:00	1.50	CM	2	80CMPL	TIH W/10- 3 1/2" DCS. POOH LAYING DN.
	09:00 - 11:30	2.50	CM	q	80CMPL	RU BLUE JET WL. USING A 4" HSC, PERFORATE THE FRUITLAND COAL W/196-.75" HOLES 4-JSPF AS FOLLOWS:3591'- 94', 84'- 88', 74'- 77', 70'- 74', 63'- 65', 57'- 60', 3445'- 47', 34'- 36', 26'- 30', 18'- 24', 13'- 15', 09'- 11', 01'- 05', 3395'- 98', 89'- 92' & 3380'- 85'. ALL SHOTS FIRED OK.

Operations Summary Report

Legal Well Name: SAN JUAN 32 FED COM 7 # 1 000001A
 Common Well Name: SAN JUAN 32 FED 7 # 1A FRUITLAND COM
 Event Name: Original Completion Start: 03/01/2003 Spud Date: 02/15/2003
 Contractor Name: KEY FOUR CORNERS Rig Release: End:
 Rig Name: KEY ENERGY Rig Number: 29 Group:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
03/24/2003	11:30 - 14:30	3.00	CM	2	80CMPL	MU 2 3/8" EXPENDABLE CHECK ON BOTTOM OF 1-JT OF 2 3/8" TBG W/ 2 3/8"x 1.81" F NIPPLE ON TOP. STRAP IN HOLE PICKING UP 115-JTS OF TBG. TAG PBTD @ 3594'(NO FILL).
	14:30 - 14:45	0.25	CM	2	80CMPL	LD 8-JTS. MU & LAND TBG HANGER IN TBG HEAD W/107-JTS OF 2 3/8" PRODUCTION TBG IN THE HOLE. BOTTOM OF CHECK @ 3345'KB. TOP OF F NIPPLE @ 3312'.
	14:45 - 16:15	1.50	CM	e	80CMPL	ND BOP STACK & NU UPPER TREE.
	16:15 - 16:45	0.50	CM	9	80CMPL	USING AIR, PRESSURE TEST TBG TO 1000PSI. PUMP OFF CHECK @ 1200PSI & CIRCULATE.
03/25/2003	16:45 - 17:00	0.25	CM	g	80CMPL	FLOW BOTH CSG & TBG TO PIT. SWI, JOB COMPLETE.
	07:00 - 07:15	0.25	CM	c	80CMPL	SAFETY MEETING.
	07:15 - 15:15	8.00	CM	6	80CMPL	RD KEY #29 TO MOVE.

Well Name: SAN JUAN 32 FED COM 7 #1A
 API #: 30-045-31267

Spud Date: 16-Feb-03
 Spud Time: 03:30

TD Date: 18-Feb-03
 Rig Release Date: 19-Feb-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: 16-Feb-03
 Size 9 5/8 in
 Set at 221 ft # Jnts: 5
 Wt. 32.3 ppf Grade H-40
 Hole Size 12 1/4 in
 Wash Out 100 %
 Est. T.O.C. 14 ft

☒ New
☐ Used

Csg Shoe 221 ft
 TD of surface 229 ft

Notified BLM @ 1815 hrs
 on 2/13/2003
 Notified NMOCD @ 1815 hrs
 on 2/13/2003

Intermediate Casing Date set: 19-Feb-03
 Size 7 in
 Set at 3334 ft 81 jts
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in
 Wash Out 150 %
 Est. T.O.C. SURFACE

☒ New
☐ Used

Csg Shoe 3334 ft
 TD of intermediate 3337 ft

Notified BLM @ 2000 hrs on 2/17/2003
 Notified NMOCD @ 2000 hrs on 2/17/2003

Production Liner Date set: 22-Mar-03
 Size 5 1/2 in Connections: LTC
 Blank Wt. 15.5 ppf
 Grade J-55
 # Jnts: 7
 Hole Size 6 1/4 in

☒ New
☐ Used

PBTD 3594'
 Liner Shoe 3596'

TD 3,597 ft

Surface Cement

Date cmt'd: 16-Feb-03
 Lead : 135sx 50/50/Poz w/2% Gel 5#/sx
Gilsonite, 3% CaCl₂, 1/2 #/sx Flocele
& .2% CFR-3 @ 13.5ppg & 1.32 cuft/sx
 Displacement vol. & fluid.: 14.2 FW
 Bumped Plug at: 1200 HRS
 Pressure Plug bumped: 260 PSI
 Returns during job: YES
 CMT Returns to surface: 13 BBLS
 Floats Held: Yes No
 W.O.C. for 9 hrs (plug bump to drlg cmt)

Intermediate Cement

Date cmt'd: 19-Feb-03
 Lead : 380sx Class B Cmt w/3%
Econolite, 10 pps Gilsonite & 1/2 pps
Flocele @ 11.4 ppg & 2.90 cu/ft/sx.
 Tail : 100 sx 50/50/B/Poz Cmt w/2%
Gel, 2% CaCl₂, 5 pps Gilsonite & 1/4
pps Flocele @ 13.5 ppg & 1.33 cuft/sx
 Displacement vol. & fluid.: 133 FW
 Bumped Plug at: 1330
 Pressure Plug bumped: 1400
 Returns during job: YES
 CMT Returns to surface: 27 BBLS
 Floats Held: X Yes No

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

Surface: NO FLOAT EQUIPMENT RAN. WELL SHUT-IN WITH 260 PSI.

Intermediate: MARKER JT @ 1845'. PBD 3279'.

Production: 6 1/4" BIT & BIT SUB RUN ON BOTTOM JOINT OF LINER.
TOP OF LINER @ 3284'. 50' OF 7" CASING OVERLAP.

CENTRALIZERS:

Surface: 211', 138', 97', 55'.

Intermediate: 3324', 3250', 3209', 3127', 3045', 2963', 201'.
TURBOLIZERS @ 1901', 1860', 1803'.

Total: 4

Total: 9

Well Name: SAN JUAN 32 FED COM 7 #1A
API #: 30-045-31267

Spud Date: 16-Feb-03
Spud Time: 03:30

TD Date: 18-Feb-03
Rig Release Date: 19-Feb-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: 16-Feb-03
Size 9 5/8 in
Set at 221 ft # Jnts: 5
Wt. 32.3 ppf Grade H-40
Hole Size 12 1/4 in
Wash Out 100 %
Est. T.O.C. 14 ft

☒ New
☐ Used

Csg Shoe 221 ft
TD of surface 229 ft

Notified BLM @ 1815 hrs
on 2/13/2003
Notified NMOCD @ 1815 hrs
on 2/13/2003

Intermediate Casing Date set: 19-Feb-03
Size 7 in
Set at 3334 ft # Jnts: 81
Wt. 20 ppf Grade J-55
Hole Size 8 3/4 in
Wash Out 150 %
Est. T.O.C. SURFACE

☒ New
☐ Used

Csg Shoe 3334 ft
TD of intermediate 3337 ft

Notified BLM @ 2000 hrs on 2/17/2003
Notified NMOCD @ 2000 hrs on 2/17/2003

Production Liner Date set: 22-Mar-03
Size 5 1/2 in Connections: LTC
Blank Wt. 15.5 ppf
Grade J-55
Jnts: 7
Hole Size 6 1/4 in

☒ New
☐ Used

PBTD 3594'
Liner Shoe 3596'

TD 3,597 ft

Surface Cement

Date cmt'd: 16-Feb-03
Lead : 135sx 50/50/Poz w/2% Gel 5#/sx
Gilsonite, 3% CaCl₂, 1/2 #/sx Flocele
& .2% CFR-3 @ 13.5ppg & 1.32 cuft/sx
Displacement vol. & fluid.: 14.2 FW
Bumped Plug at: 1200 HRS
Pressure Plug bumped: 260 PSI
Returns during job: YES
CMT Returns to surface: 13 BBLS
Floats Held: Yes No
W.O.C. for 9 hrs (plug bump to drlg cmt)

Intermediate Cement

Date cmt'd: 19-Feb-03
Lead : 380sx Class B Cmt w/3%
Econolite, 10 pps Gilsonite & 1/2 pps
Flocele @ 11.4 ppg & 2.90 cuft/sx.
Tail : 100 sx 50/50/B/Poz Cmt w/2%
Gel, 2% CaCl₂, 5 pps Gilsonite & 1/4
pps Flocele @ 13.5 ppg & 1.33 cuft/sx
Displacement vol. & fluid.: 133 FW
Bumped Plug at: 1330
Pressure Plug bumped: 1400
Returns during job: YES
CMT Returns to surface: 27 BBLS
Floats Held: X Yes No

Liner Cement
UNCEMENTED LINER**COMMENTS:**

Surface: NO FLOAT EQUIPMENT RAN. WELL SHUT-IN WITH 260 PSI.

Intermediate: MARKER JT @ 1845'. PBD 3279'.

Production: 6 1/4" BIT & BIT SUB RUN ON BOTTOM JOINT OF LINER.
TOP OF LINER @ 3284'. 50' OF 7" CASING OVERLAP.

CENTRALIZERS:

Surface: 211', 138', 97', 55'.

Intermediate: 3324', 3250', 3209', 3127', 3045', 2963', 201'.
TURBOLIZERS @ 1901', 1860', 1803'.

Total: 4

Total: 9