

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 20001a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Otherb. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.

Other _____

2. Name of Operator

CONOCOPHILLIPS CO.

3. Address

P.O. BOX 2197 WL3 4061 HOUSTON TX 77252

3.a Phone No. (Include area code)

(832)486-2326

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

At Surface SWSE 820' FSL & 1620' FEL

At top prod. interval reported below

At total depth

14. Date Spudded

07/09/2003

15. Date T.D. Reached

07/13/2003

16. Date Completed

☐ D & A ☒ Ready to Prod.

08/28/2003

18. Total Depth: MD 3743

TVD 3743

19. Plug Back T.D.: MD 3734

TVD 3734

20. Depth Bridge Plug Set: MD

TVD

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)
NONE22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DST run? ☒ No ☐ Yes (Submit analysis)Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	9.625 H40	32.3	0	233		155 CL G		0	
8.75	7 J55	20	0	3458		540 CL G		0	
6.25	5.5 J55	15.5	3379	3735		0		NA	

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	3689							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BASIN FRUITLAND	3471	3675	3471 - 3675	.75	172	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3471 - 3675	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
09/11/03	08/21/03	24	→	0	2039	0			FLOWING
Choice Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
PITOT	0	420	→					PRODUCING	

Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

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

NMOCD

ACCEPTED FOR RECORD

OCT 01 2003

FARMINGTON FIELD OFFICE

BY *Al*

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.)

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.

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				NACIAMENTO	901
				OJO ALAMO	2376
				KIRTLAND	2436
				FRUITLAND	3241
				PICTURE CLIFFS	3696

32. Additional remarks (include plugging procedure):

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

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 MARBERRY

Title REGULATORY ANALYST

Signature

Deborah Marberry

Date 09/22/2003

Title 18 U.S.C. Section 101 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000230A
 Common Well Name: SAN JUAN 32-8 FRUITLAND #230A UNIT
 Event Name: Original Completion Start: 06/11/2003 Spud Date: 07/09/2003
 Contractor Name: Rig Release: Group:
 Rig Name: Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
08/10/2003	07:00 - 07:30	0.50	MV	c	70DMOB	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 09:00	1.50	MV	1	70DMOB	LOAD OUT EQUIPMENT ON FLOAT'S
	09:00 - 16:30	7.50	MV	n	00MMIR	MIRU KEY RIG # 18 & EQUIPMENT
08/11/2003	16:30 - 17:00	0.50	MV	1	00MMIR	SECURED LOCATION & S.D.O.N.
	07:00 - 07:30	0.50	MV	c	00MMIR	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 14:30	7.00	MV	6	00MMIR	NU & RU BOP'S, HCR VALVE'S, BLOOIE LINE'S, CHOKE MANIFOLD & LINE'S, ALL GROUND LINE'S
08/12/2003	14:30 - 15:15	0.75	CM	9	50PRDR	TEST 7" CSG & BLIND RAM'S 200# 3 MIN'S & 750# 30 MIN'S FOR STATE INTEGRITY TEST = CHARTED GOOD TEST
	15:15 - 17:00	1.75	CM	8	50PRDR	TEST STACK, PIPE RAMS', HCR VALVE'S, CHOKE MANIFOLD = 200# 3 MIN'S & 1800# 10 MIN'S = GOOD TEST
	07:00 - 07:30	0.50	CM	c	50PRDR	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
08/13/2003	07:30 - 14:00	6.50	CM	6	50PRDR	RU RIG FLOOR & EQUIPMENT, WELD CIRCLE GROUND SYSTEM ON ALL EQUIPMENT
	14:00 - 16:00	2.00	CM	c	50PRDR	RIG & EQUIPMENT INSPECTION BY COPC SAFETY REP.
	16:00 - 17:00	1.00	CM	2	50PRDR	PU PIPE OUT OF PIPE BASKET & PUT ON PIPE RACK = TALLY PIPE
08/14/2003	17:00 - 18:30	1.50	CM	2	50PRDR	GIH PU 6 1/4" BIT EHP 51H SR C/3035, BIT SUB, 12-3 1/2" DC'S, 1-2 7/8" DP, 1.81 FN & DP
	18:30 - 19:00	0.50	CM	1	50PRDR	SECURED WELL & LOCATION = S.D.O.N.
	07:00 - 07:30	0.50	CM	c	50PRDR	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
08/15/2003	07:30 - 08:30	1.00	CM	6	50PRDR	PU & RU POWER SWIVEL
	08:30 - 10:00	1.50	CM	5	50PRDR	UNLOAD HOLE W / AIR ASSIST
	10:00 - 11:30	1.50	CM	h	50PRDR	DRILL OUT CMT, 7" F.C. @ 3411', 7" SHOE @ 3458' TO 7" TD @ 3461'
08/16/2003	11:30 - 12:00	0.50	CM	5	50PRDR	CIRC BOTTOM'S UP & CORRELATE W / MUD LOGGERS
	12:00 - 19:00	7.00	CM	1	50PRDR	DRILLING COAL INTERVAL W / 6 1/4" BIT T/3645'
	19:00 - 19:30	0.50	CM	c	50PRDR	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
08/17/2003	19:30 - 22:00	2.50	CM	1	50PRDR	DRILLING COAL INTERVAL T/3743' TD W / AIR ASSIST
	22:00 - 22:30	0.50	CM	5	50PRDR	CIRC & CORRELATE W / MUD LOGGERS = COAL INTERVAL AS FOLLOWS 3464'-65' = 1 FT = 25 GAS UNITS 3467'-68' = 1 FT = 50 TO 140 GAS UNITS 3471'-80' = 9 FT = 464 GAS UNITS 3481'-83' = 2 FT = 385 GAS UNITS 3488'-94' = 6 FT = 330 GAS UNITS 3545'-57' = 12 FT = 340 GAS UNITS 3558'-63' = 5 FT = 340 GAS UNITS 3593'-95' = 2 FT = 340 GAS UNITS 3604'-05' = 1 FT = 340 GAS UNITS 3659'-61' = 2 FT = 370 GAS UNITS 3662'-66' = 4 FT = 370 GAS UNITS 3671'-74' = 3 FT = 378 GAS UNITS TOTAL NET COAL 48 FT = RAT HOLE 69 FT
	22:30 - 22:45	0.25	CM	2	80CMPL	LAI D DOWN 2 JT'S OF DP TO GET OUT OF RAT HOLE
08/18/2003	22:45 - 06:00	7.25	CM	1	80CMPL	R&R C/O T/3682' W / 1.5 MMCFD AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURNS TO SURFACE, MED TO LIGHT COAL & FINES W / NO WATER GAIN = 5 DOWN TO 1 BUCKETS PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3682' W / 1.5 MMCFD AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, LIGHT COAL & FINE'S W / NO WATER GAIN = 1 TO 2 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE

Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000230A

Common Well Name: SAN JUAN 32-8 FRUITLAND #230A UNIT

Spud Date: 07/09/2003

Event Name: Original Completion

Start: 06/11/2003

End:

Contractor Name:

Rig Release:

Group:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
08/14/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 08:00	0.50	CM	4	80CMPL	R&R C/O T/3682' W / 1.5 MMCDF AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, LIGHT COAL & FINE'S W / NO WATER GAIN = 1/2 BUCKET PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	08:00 - 08:30	0.50	CM	4	80CMPL	PUH INSIDE 7" CSG W / BHA
	08:30 - 09:30	1.00	CM	u	80CMPL	2" OPEN FLOW TEST W / PITOT TUBE = 15 MIN'S-425 MCFD = 30 MIN'S-475 MCFD = 45 MIN'S-500 MCFD = 1 HR-500 MCFD
	09:30 - 10:30	1.00	CM	t	80CMPL	SHUT IN TEST = ISIP-15# = 15 MIN'S-150# = 30 MIN'S-280# = 45 MIN'S-335# = 1 HR-400#
	10:30 - 18:30	8.00	CM	1	80CMPL	SURGE'S # 1 - # 2 - # 3 - # 4 @ 1100# TO 1200# AIR ASSIST W / 1.5 MMCDF AIR, 10 BPH MIST, 2 GAL'S FOAMER & INHIBITOR W / 5 BBL WATER PAD'S = RETURN'S TO SURFACE, LIGHT TO MED COAL & FINE'S = BREAKOVER POINT @ 1075#
	18:30 - 19:00	0.50	CM	4	80CMPL	RIH FROM 7" CSG & TAG FILL @ 3480'
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	19:30 - 06:00	10.50	CM	1	80CMPL	R&R C/O T/3559' W / 1.5 MMCDF AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL & FINE'S W / NO WATER GAIN = 9 DOWN TO 3 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
08/15/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3559' W / 1.5 MMCDF AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, LIGHT COAL & FINE'S W / NO WATER GAIN = 1 BUCKET PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 12:30	5.00	CM	1	80CMPL	R&R C/O T/3682' W / 1.5 MMCDF AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED TO LIGHT COAL & FINE'S W / NO WATER GAIN = 5 DOWN TO 1/2 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	12:30 - 13:00	0.50	CM	4	80CMPL	PUH INSIDE 7" CSG W / BHA
	13:00 - 19:00	6.00	CM	c	80CMPL	SURGE'S # 5 - # 6 - # 7 - # 8 @ 1100# TO 1200# AIR ASSIST W / 1.5 MMCDF AIR, 12 BPH MIST, 2 GAL'S FOAMER & 5 BBL WATER-FOAMER PAD'S = RETURN'S TO SURFACE, LIGHT TO MED COAL & FINE'S
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	19:30 - 20:00	0.50	CM	4	80CMPL	RIH FROM 7" CSG & TAG FILL @ 3555'
	20:00 - 06:00	10.00	CM	1	80CMPL	R&R C/O T/3590' W / 1.5 MMCDF AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED COAL & FINE'S W / NO WATER GAIN = 5 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
08/16/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3590' W / 1.5 MMCDF AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED COAL & FINE'S W / NO WATER GAIN = 5 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 16:00	8.50	CM	1	80CMPL	R&R C/O T/3682' W / 1.5 MMCDF AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED TO LIGHT COAL & FINE'S W / NO WATER GAIN = 7 DOWN TO 1 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	16:00 - 16:30	0.50	CM	4	80CMPL	PUH INSIDE 7" CSG W / BHA
	16:30 - 19:00	2.50	CM	1	80CMPL	SURGE # 9 @ 500# NATURAL FORMATION GAS PRESSURE = RETURN'S TO SURFACE, LIGHT COAL & FINE'S
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION

Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000230A

Common Well Name: SAN JUAN 32-8 FRUITLAND #230A UNIT

Spud Date: 07/09/2003

Event Name: Original Completion

Start: 06/11/2003

End:

Contractor Name:

Rig Release:

Group:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
08/16/2003	19:30 - 21:30	2.00	CM	1	80CMPL	SURGE # 10 @ 500# NATURAL FORMATION GAS PRESSURE = RETURN'S TO SURFACE, LIGHT COAL & FINE'S
	21:30 - 01:30	4.00	CM	1	80CMPL	SURGE'S # 11 - # 12 - # 13 @ 1100# TO 1200# W / BREAKOVER POINT @ 1050# = W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & 5 BBL WATER-FOAMER PAD'S = RETURN'S TO SURFACE, LIGHT TO MED COAL & FINE'S
	01:30 - 02:00	0.50	CM	4	80CMPL	RIH FROM 7" CSG & TAG FILL @ 3475'
	02:00 - 06:00	4.00	CM	1	80CMPL	R&R C/O T/3497' W / 1.5 MMCFD AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL & FINE'S W / NO WATER GAIN = 9 DOWN TO 5 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
08/17/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3497' W / 1.5 MMCFD AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED COAL & FINE'S W / NO WATER GAIN = 5 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R C/O T/3559' W / 1.5 MMCFD AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED TO LIGHT COAL & FINE'S W / NO WATER GAIN = 6 DOWN TO 2 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
08/18/2003	19:30 - 06:00	10.50	CM	1	80CMPL	R&R C/O T/3682' W / 1.5 MMCFD AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED TO LIGHT COAL & FINE'S W / NO WATER GAIN = 5 DOWN TO 1 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3682' W / 1.5 MMCFD AIR, 12 BPH MIST, 1 GAL FOAMER & INHIBITOR = RETURN'S TO SURFACE, LIGHT COAL & FINE'S W / 1 BPH WATER GAIN = 1 DOWN TO 1/2 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 08:00	0.50	CM	1	80CMPL	R&R C/O & BLOW WELL DRY FOR TEST @ 3682' W / 1.5 MMCFD AIR, RETURN'S TO SURFACE, LIGHT COAL & FINE'S W / 1 BPH WATER GAIN = 1/2 BUCKET PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	08:00 - 08:30	0.50	CM	4	80CMPL	PUH INSIDE 7" CSG W / BHA
	08:30 - 09:30	1.00	CM	u	80CMPL	2" OPEN FLOW TEST W / PITOT TUBE = 15 MIN'S-1000 MCFD = 30 MIN'S-1100 MCFD = 45 MIN'S-1200 MCFD = 1 HR-1200 MCFD
	09:30 - 10:30	1.00	CM	t	80CMPL	SHUT IN TEST = ISIP-45# = 15 MIN'S-200# = 30 MIN'S-280# = 45 MIN'S-360# = 1 HR-400#
	10:30 - 16:30	6.00	CM	1	80CMPL	SURGE'S # 14 - # 15 - # 16 - # 17 @ 1100# TO 1200# AIR ASSIST W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR W / 5 BBL WATER-FOAMER PAD'S = RETURN'S TO SURFACE, LIGHT TO MED COAL & FINE'S
	16:30 - 17:00	0.50	CM	4	80CMPL	RIH FROM 7" CSG & TAG FILL @ 3480'
	17:00 - 19:00	2.00	CM	1	80CMPL	R&R C/O T/3497' W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL & FINE'S W / 10 BPH WATER GAIN = 9 DOWN TO 5 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	19:30 - 06:00	10.50	CM	1	80CMPL	R&R C/O T/3622' W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL & FINE'S W / 12 TO 14 BPH WATER GAIN = 10 DOWN TO 4

Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000230A

Common Well Name: SAN JUAN 32-8 FRUITLAND #230A UNIT

Spud Date: 07/09/2003

Event Name: Original Completion

Start: 06/11/2003

End:

Contractor Name:

Rig Release:

Group:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
08/18/2003	19:30 - 06:00	10.50	CM	1	80CMPL	BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & FINE'S W / 5% SHALE
08/19/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3622' W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, LIGHT COAL, FINE'S & SHALE W / 10 BPH WATER GAIN = 1.5 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & FINE'S W / 5% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 15:00	7.50	CM	1	80CMPL	R&R C/O F/3622'-T/3682' W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED TO LIGHT COAL, FINE'S & SHALE W / 7 BPH WATER GAIN = 6 DOWN TO 1 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & FINE'S W / 5% SHALE
	15:00 - 15:30	0.50	CM	4	80CMPL	PUH INSIDE 7" CSG W / BHA
	15:30 - 19:00	3.50	CM	1	80CMPL	SURGE'S # 18 - # 19 - # 20 @ 1150# AIR ASSIST W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR W / 5 TO 7 BBL WATER-FOAMER PAD'S = RETURN'S TO SURFACE, LIGHT TO MED COAL, FINE'S & SHALE
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	19:30 - 22:00	2.50	CM	1	80CMPL	SURGE'S # 21 - # 22 @ 1150# AIR ASSIST W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR W / 5 TO 7 BBL WATER-FOAMER PAD'S = RETURN'S TO SURFACE, MED COAL, FINE'S & SHALE
	22:00 - 22:30	0.50	CM	4	80CMPL	RIH FROM 7" CSG & TAG FILL @ 3475'
	22:30 - 06:00	7.50	CM	1	80CMPL	R&R C/O F/3475'-T/3559' W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL, FINE'S & SHALE W / 5 BPH WATER GAIN = 10 DOWN TO 5 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & FINE'S W / 5% SHALE
08/20/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3559' W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED COAL & FINE'S W / 4 BPH WATER GAIN = 4 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & FINE'S W / 5% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 10:00	2.50	CM	1	80CMPL	R&R C/O T/3559' W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, LIGHT COAL & FINE'S W / 3 TO 4 BPH WATER GAIN = 2 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	10:00 - 10:30	0.50	CM	c	80CMPL	BOP DRILL W / ALL PERSONNEL ON LOCATION
	10:30 - 19:00	8.50	CM	1	80CMPL	R&R C/O F/3559'-T/3622' W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL, FINE'S & SHALE W / 3 BPH WATER GAIN = 10 DOWN TO 5 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & FINE'S W / 5% SHALE
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	19:30 - 06:00	10.50	CM	1	80CMPL	R&R C/O F/3622'-T/3682' W / 1.5 MMCFD AIR, 12 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL, FINE'S & SHALE W / 2 TO 3 BPH WATER GAIN = 9 DOWN TO 4 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & FINE'S W / 5% SHALE
08/21/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3682' W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED COAL & FINE'S W / 2 BPH WATER GAIN - 4 DOWN TO 2 BUCKET'S PER

Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000230A

Common Well Name: SAN JUAN 32-8 FRUITLAND #230A UNIT

Spud Date: 07/09/2003

Event Name: Original Completion

Start: 06/11/2003

End:

Contractor Name:

Rig Release:

Group:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
08/21/2003	06:00 - 07:00	1.00	CM	1	80CMPL	HOURLY OFF SAMPLE CATCHER = 95% COAL & 5% 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 T/3682' W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED TO LIGHT COAL & FINE'S W / 1.5 BPH WATER GAIN = 3 DOWN TO 1/2 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 98% COAL & 2% SHALE
	11:30 - 12:00	0.50	CM	4	80CMPL	PUH INSIDE 7" CSG W / BHA
	12:00 - 13:00	1.00	CM	u	80CMPL	2" OPEN FLOW TEST W / PITOT TUBE 15 MIN'S = 35# MANIFOLD PRESSURE = 10# PITOT = 1948 MCFD = DRY 30 MIN'S = 38# MANIFOLD PRESSURE = 11# PITOT = 2039 MCFD = WET 45 MIN'S = 38# MANIFOLD PRESSURE = 11# PITOT = 2039 MCFD = WET 1 HR = 38# MANIFOLD PRESSURE = 11# PITOT = 2039 MCFD = WET
	13:00 - 14:00	1.00	CM	t	80CMPL	SHUT IN TEST ISIP = 48# 15 MIN'S = 230# 30 MIN'S = 300# 45 MIN'S = 385# 1 HR = 420#
	14:00 - 19:00	5.00	CM	1	80CMPL	SURGE'S # 23 & # 24 @ 450# NATURAL FORMATION GAS PRESSURE = RETURN'S TO SURFACE, LIGHT COAL & FINE'S
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	19:30 - 22:30	3.00	CM	1	80CMPL	SURGE'S # 25 - # 26 @ 1100# TO 1200# AIR ASSIST W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR W / 5 TO 7 BBL WATER-FOAMER PAD'S = RETURN'S TO SURFACE, LIGHT TO MED COAL & FINE'S = WELLBORE BRIDGED OFF W / COAL
	22:30 - 23:00	0.50	CM	4	80CMPL	RIH FROM 7" CSG & TAG FILL @ 3468'
	23:00 - 06:00	7.00	CM	1	80CMPL	R&R C/O F/3468'-T/3497' W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL & FINE'S W / 1 TO 2 BPH WATER GAIN = 12 DOWN TO 5 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 98% COAL & 2% SHALE
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3497' W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED TO HEAVY COAL, FINE'S & SHALE, 4 UP TO 7 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 85% TO 90% COAL & FINE'S W / 10% TO 15% SHALE = 1 TO 2 BPH WATER GAIN
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R C/O T/3497' W / 1.5 MMCFD AIR, 12 TO 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL, FINE'S & SHALE = 7 DOWN TO 4 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 85% COAL & FINE'S W / 15% SHALE = 1/2 TO 2 BPH WATER GAIN
08/22/2003	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	19:30 - 06:00	10.50	CM	1	80CMPL	R&R C/O T/3497' W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, MED TO LIGHT COAL, FINE'S & SHALE = 5 DOWN TO 2 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 85% COAL & FINE'S W / 15% SHALE = 1 TO 2 BPH WATER GAIN

Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000230A
 Common Well Name: SAN JUAN 32-8 FRUITLAND #230A UNIT
 Event Name: Original Completion Start: 06/11/2003 End: 07/09/2003
 Contractor Name: Rig Release: Group:
 Rig Name: Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
08/23/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3497' W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY COAL, FINE'S & SHALE W / 1.5 BPH WATER GAIN = 2 UP TO 9 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 85% COAL & FINE'S W / 15% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R C/O T/3497' W / 1.5 MMCFD AIR, 14 BPH MIST, 2 GAL'S FOAMER & INHIBITOR = RETURN'S TO SURFACE, HEAVY TO MED COAL, FINE'S & SHALE W / 2 BPH WATER GAIN = 9 DOWN TO 4 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 85% COAL & FINE'S W / 15% SHALE
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	19:30 - 06:00	10.50	CM	1	80CMPL	R&R C/O & CONDITION HOLE T/3559' W / 1.5 MMCFD AIR, 12 BPH MIST, 4 GAL'S FOAMER, 2 TO 3 GAL'S POLYMER & INHIBITOR = RETURN'S TO SURFACE, MED COAL, FINE'S & SHALE W / 1.5 BPH WATER GAIN = 4 TO 6 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 85% COAL & FINE'S W / 15% SHALE
08/24/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O & CONDITION HOLE T/3559' W / 1.5 MMCFD AIR, 12 BPH MIST, 4 GAL'S FOAMER, 4 GAL'S POLYMER & INHIBITOR = RETURN'S TO SURFACE, MED COAL, FINE'S & SHALE W / 1 BPH WATERGAIN = 4 BUCKET'S PER HOUR OFF SAMPLE = 85% COAL & FINE'S W / 15% SHALE
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 19:00	11.50	CM	1	80CMPL	R&R C/O & CONDITION HOLE T/3682' W / 1.5 MMCFD AIR, 14 BPH MIST, 6 GAL'S FOAMER, 6 GAL'S POLYMER & INHIBITOR = RETURN'S TO SURFACE, MED COAL, FINE'S & SHALE W / 1.5 BPH WATER GAIN = 5 DOWN TO 3 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 85% COAL & FINE'S W / 15% SHALE
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	19:30 - 03:00	7.50	CM	1	80CMPL	R&R C/O & CONDITION HOLE T/3743' TD W / 1.5 MMCFD AIR, 14 BPH MIST, 6 GAL'S FOAMER, 6 GAL'S POLYMER & INHIBITOR = RETURN'S TO SURFACE, MED TO LIGHT COAL, FINE'S & SHALE W / 1.5 BPH WATER GAIN = 4 DOWN TO 1 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 85% COAL & FINE'S W / 15% SHALE
08/25/2003	03:00 - 03:30	0.50	CM	4	80CMPL	PUH INSIDE 7" CSG W / BHA
	03:30 - 03:45	0.25	CM	6	80CMPL	HANG BACK POWER SWIVEL
	03:45 - 04:00	0.25	CM	4	80CMPL	COOH W / DP, DC'S & BHA
	06:00 - 06:30	0.50	CM	6	80CMPL	RU 5 1/2" EQUIPMENT
	06:30 - 07:00	0.50	CM	u	80CMPL	FINAL WELL FLOW GAGE ON 2" OPEN FLOW TEST W / PITOT TUBE
						3000 MCFD
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 08:30	1.00	CM	6	80CMPL	RU 5 1/2" RAM'S & EQUIPMENT
	08:30 - 09:00	0.50	CM	8	80CMPL	TEST 5 1/2" RAM'S TO 525# WELLBORE PRESSURE = GOOD TEST
	09:00 - 10:30	1.50	CM	2	80CMPL	PU & MU 6 1/4" BIT, BIT SUB, 8 JT'S STL FLUSH JT CSG, X/O & HANGER
	10:30 - 11:30	1.00	CM	4	80CMPL	GIH W / BHA & DP TO 3682'
	11:30 - 11:45	0.25	CM	6	80CMPL	RU POWER SWIVEL
	11:45 - 12:15	0.50	CM	1	80CMPL	WORKING LINER DOWN TO 3735' = DP PRESSURED UP TO 950# = SHUT DOWN AIR ASSIST
	12:15 - 15:00	2.75	CM	1	80CMPL	SET 5 1/2" LINER AS FOLLOWS 6 1/4" BIT SET @ 3735' 5 1/2" BIT SUB SET @ 3734'

Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000230A

Common Well Name: SAN JUAN 32-8 FRUITLAND #230A UNIT

Spud Date: 07/09/2003

Event Name: Original Completion

Start: 06/11/2003

End:

Contractor Name:

Rig Release:

Group:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
08/25/2003	12:15 - 15:00	2.75	CM	1	80CMPL	8 JT'S 5 1/2" J-55 15.50# STL FJ CSG SET @ 3733' 1 JT 3 FT X/O = STL X LT&C SET @ 3386' 7" X 5 1/2" BAKER SLPR HYDRA HANGER W/ STEEL SLEEVE @ 3383' TOP OF HANGER SET @ 3379' OVERLAP OF 7" CSG SHOE = 79 FT ATTENTION = HAD TROUBLE RELEASING OFF HANGER = USED BALL TO SET HANGER, USED 1ST DART TO PRESSURE, USED 2ND DART TO GET OFF HANGER
08/26/2003	15:00 - 15:30	0.50	CM	4	80CMPL	PUH W / DP TO CLEAR TOP OF HANGER
	15:30 - 16:00	0.50	CM	1	80CMPL	SECURED WELL & S.D.O.N.
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 08:00	0.50	CM	g	80CMPL	BLOW DOWN WELL = HAD 520# ON CSG
	08:00 - 08:15	0.25	CM	6	80CMPL	RD POWER SWIVEL
	08:15 - 11:00	2.75	CM	2	80CMPL	COOH LAYING DOWN DP, DC'S & SETTING TOOL
	11:00 - 11:15	0.25	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	11:15 - 11:30	0.25	CM	6	80CMPL	RU BLUE JET PERFORATING EQUIPMENT
	11:30 - 11:45	0.25	CM	8	80CMPL	TEST PERFORATING LUBICATOR TO WELLBORE PRESSURE 520# = GOOD TEST
	11:45 - 13:00	1.25	CM	q	80CMPL	RIH W / 3 1/8" CSG GUN'S, 4 SPF, 0.75" DIA HOLE'S, 120 DEGREE PHASING, 302'S CHARGE AS FOLLOW'S 3671'-75' = 4 FT = 16 HOLE'S 3659'-66' = 7 FT = 28 HOLE'S 3595'-97' = 2 FT = 8 HOLE'S 3558'-63' = 5 FT = 20 HOLE'S 3551'-56' = 5 FT = 20 HOLE'S 3546'-50' = 4 FT = 16 HOLE'S 3489'-94' = 5 FT = 20 HOLE'S 3483'-85' = 2 FT = 8 HOLE'S 3478'-81' = 3 FT = 12 HOLE'S 3475'-77' = 6 FT = 24 HOLE'S TOTAL 43 FT & 172 HOLE'S
08/27/2003	13:00 - 13:15	0.25	CM	6	80CMPL	RD BLUE JET PERFORATING EQUIPMENT
	13:15 - 14:30	1.25	CM	6	80CMPL	RU 2 3/8" RAMS' & EQUIPMENT
	14:30 - 15:15	0.75	CM	8	80CMPL	TEST PIPE RAMS' = 200# 3 MIN'S & 1800# 10 MIN'S = GOOD TEST
	15:15 - 16:30	1.25	CM	2	80CMPL	GIH PU BHA & 2 3/8" TUBING OFF PIPE RACK
	16:30 - 17:00	0.50	CM	1	80CMPL	SECURED WELL & LOCATION = S.D.O.N. = BAD LIGHTNING STORM
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 08:30	1.00	CM	g	80CMPL	BLOW DOWN WELL = HAD 515# ON CSG
	08:30 - 10:15	1.75	CM	2	80CMPL	GIH PU 2 3/8" EUE 8RD J-55 4.7# TUBING
	10:15 - 10:30	0.25	CM	1	80CMPL	LAND TUBING HANGER W / PRODUCTION STRING SET AS FOLLOW'S 2 3/8" BOTTOM JT MUD ANCHOR W/ ORANGED PEEL SET @ 3727'.93" 2 3/8" 4' PERF. SUB SET @ 3695'.30" 2 3/8" EXP CHECK W / 1.78" PROFILE SET @ 3691'.15" 2 3/8" 1.78" FN SET @ 3690'.44" 2 3/8" 117 JT'S EUE 8RD J-55 4.7# TUBING SET @ 3689'.59" TO TUBING HANGER @ SURFACE 2 3/8" SUB'S UNDER TOP JT TUBING = 1-10', 1-8' & 1-2'
	10:30 - 12:30	2.00	CM	e	80CMPL	TOTAL TUBING IN WELL 118 JT'S COUNTING MUD ANCHOR ND BOP'S, HCR VALVE'S & NU PUMPING WELLHEAD

Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000230A

Common Well Name: SAN JUAN 32-8 FRUITLAND #230A UNIT

Spud Date: 07/09/2003

Event Name: Original Completion

Start: 06/11/2003

End:

Contractor Name:

Rig Release:

Group:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
08/27/2003	12:30 - 13:00	0.50	CM	6	80CMPL	RU 3/4" ROD EQUIPMENT
	13:00 - 15:00	2.00	CM	2	80CMPL	GIH PU INSERT PUMP & 3/4" ROD'S
	15:00 - 15:45	0.75	CM	n	80CMPL	SPACE OUT & HANG OFF ROD'S = ROD STRING AS FOLLOW'S INSERT PUMP = H.F. 2" X 1 1/4" X 8' X 8'3" X 12'3" RHAC-Z PUMP NO = # CP028 1-2' 3/4" PONY ON TOP OF PUMP 146 3/4" PLAIN ROD'S 1-8' 3/4" PONY ROD 1-6' 3/4" PONY ROD 2-4" 3/4" PONY ROD 1-1 1/4" 22' POLISH ROD
08/28/2003	15:45 - 16:30	0.75	CM	9	80CMPL	TEST TUBING & PUMP TO 600# FOR 15 MIN'S = GOOD TEST RELEASED PRESSURE, PUMPED UP PUMP W / RIG BLOCK'S TO 500# FOR 15 MIN'S = GOOD TEST & PUMP ACTION SECURED WELL & LOCATION = S.D.O.N.
	16:30 - 17:00	0.50	CM	1	80CMPL	SECURED WELL & LOCATION = S.D.O.N.
	06:00 - 08:30	2.50	CM	c	80CMPL	SAFETY MEETING IN TOWN W / ALL KEY & COPC PERSONNEL
	08:30 - 09:45	1.25	CM	z	80CMPL	TRAVEL TIME TO LOCATION
	09:45 - 10:00	0.25	MV	c	70DMOB	SAFETY MEETING ON LOCATION W / ALL PERSONNEL
	10:00 - 15:30	5.50	MV	6	70DMOB	RD & RELEASED RIG & EQUIPMENT ON 08 / 27 / 2003 @ 16:00 PM
	15:30 - 16:00	0.50	MV	1	70DMOB	SECURED WELL & LOCATION = JOB COMPLETE - DROP FROM REPORT = RELEASED WELL TO PRODUCTION DEPT. = MOVING RIG & EQUIPMENT OFF LOCATION ON 08 / 28 / 2003

END OF WELL SCHEMATIC

Well Name: San Juan 32-8 # 230A
 API #: 30-045-31661
 Location: 820' FSL & 1620' FEL
Sect 28 - T32N - R8W
 Elevation: 6763 GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

Spud: 9-Jul-03
 Release Drl Rig: 13-Jul-03
 Move In Cav Rig: 9-Aug-03
 Release Cav Rig: 27-Aug-03

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

Surface Casing Date set: 10-Jul-03
 Size 9 5/8 in
 Set at 233 ft # Jnts: 5
 Wt. 32.3 ppf Grade H-40
 Hole Size 12 1/4 in
 Excess Cmt 120 %
 T.O.C. SURFACE

Csg Shoe 233 ft
 TD of 12-1/4" hole 234 ft

Notified BLM @ 21:20 hrs on 08-Jul-03
 Notified NMOCD @ 21:20 hrs on 08-Jul-03

Intermediate Casing Date set: 13-Jul-03
 Size 7 in 83 jts
 Set at 3458 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in
 Excess Cmt 150 %
 T.O.C. SURFACE

Csg Shoe 3458 ft
 TD of 8-3/4" Hole 3461 ft

Notified BLM @ 18:00 hrs on 11-Jul-03
 Notified NMOCD @ 18:00 hrs on 11-Jul-03

Production Liner Date set: 24-Aug-03
 Size 5 1/2 in
 Blank Wt. 15.5 ppf
 Grade J-55 Connections: LTC & STL
 # Jnts: 8
 Hole Size 6 1/4 in
 Btm of Liner 3735 ft
 Top of Liner 3379 ft

PBTD / Top of Bit Sub 3734
 Bottom of Liner / Bottom of 6-1/4" Bit: 3735

☒ New
☐ Used

☒ New
☐ Used

☒ New
☐ Used

Surface Cement

Date cmt'd: 10-Jul-03
 Lead : 155 sx Class G Cement
+ 2% S001 Calcium Chloride
+ 0.25 lb/sx D029 Cellophane Flakes
1.16 cuft/sx, 179.8 cuft slurry at 15.8 ppg
 Displacement: 15.0 bbls fresh wtr
 Bumped Plug at: 300 psi
 Final Circ Press: 110psi @ 0.5 bpm
 Returns during job: YES
 CMT Returns to surface: 15 bbls
 Floats Held: No floats used
 W.O.C. for 8.0 hrs (plug bump to csg pressure test)

Intermediate Cement

Date cmt'd: 13-Jul-03
 Lead : 440 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, 1148 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 Gilsonite
+ 0.25 lb/sx D029 Cellophane Flakes
+ 0.2% D046 Antifoam
1.27 cuft/sx, 127 cuft slurry at 13.5 ppg
 Displacement: 136 bbls Fresh Wtr
 Bumped Plug at: 00:30 hrs w/ 1460 psi
 Final Circ Press: 850 psi @ 2 bpm
 Returns during job: YES
 CMT Returns to surface: 18 bbls
 Floats Held: X Yes ___ No

UNCEMENTED LINER

TD 3,743 ft

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 and WOC before backing out landing jt.

Intermediate:

Production: Ran a bit, float sub & float on btm of 5.5" liner & ran a hydraulic liner hanger. Plugged up & stopped at 3735' (ie 8' off btm)
Perforated 5-1/2" liner. Ran 2-3/8", 4.7#, J-55 EUE 8rd, tubing (EOT at 3728' RKB)
Ran pump and rods. Set pump in F Nipple (FN) at 3690' MD RKB.

CENTRALIZERS:

Surface: CENTRALIZERS @ 223', 145', 101', & 58'.

Total: 4

Intermediate: CENTRALIZERS @ 3448', 3366', 3277', 3205', 3121', 3032', & 200'.
TURBOLIZERS @ 2451', 2406', 2365'

Total: 7

Total: 3