

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 772523.a Phone No. (Include area code)  
(832)486-2326

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

At Surface NESE 1525' FSL &amp; 1110' FEL

At top prod. interval reported below

At total depth

14. Date Spudded  
06/27/200315. Date T.D. Reached  
07/01/200316. Date Completed  
☐ D & A ☒ Ready to Prod.  
07/24/20035. Lease Serial No.  
NMSF 079381

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

8. Lease Name and Well No.

SAN JUAN 32-8 UNIT 205A

9. API Well No.  
30-045-3166710. Field and Pool, or Exploratory  
BASIN FRUITLAND COAL11. Sec., T., R., M., on Block and  
Survey or Area I 34 32N 8W12. County or Parish  
SAN JUAN13. State  
NEW MEXICO17. Elevations (DF, RKB, RT, GL)\*  
6871 GL18. Total Depth: MD 3820  
TVD19. Plug Back T.D.: MD 3818  
TVD20. Depth Bridge Plug Set: MD  
TVD21. 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	221		135		0	
8.75	7 J55	20	0	3442		535		0	
6.25	5.5 J55	15.5	3408	3819		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	3737							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) FRUITLAND COAL	3472	3753	3472 - 3753	.75	176	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3472 - 3753	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
08/07/03	07/16/03	24	→	0	2416	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	110	→					PRODUCING	

ACCEPTED FOR RECORD

## 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	
			→						

FARMINGTON FIELD OFFICE

NMOCD

## 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.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				NACIAMENTO	1091
				OJO ALAMO	2536
				KIRTLAND	2591
				FRUITLAND	3331
				PICTURE CLIFFS	3771

32. Additional remarks (include plugging procedure):

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

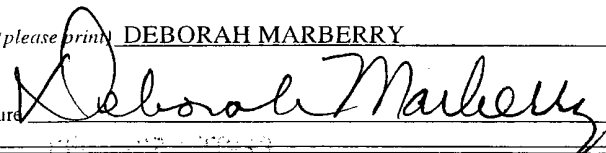
## 33. Circle enclosed attachments:

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 08/28/2003

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 000205A  
 Common Well Name: SAN JUAN 32-8 FRUITLAND #205A UNIT  
 Event Name: Original Completion Start: 06/11/2003 End: 07/24/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 07/23/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/03/2003	12:00 - 15:00	3.00	MV	1	00MMIR	SAFETY MEETING-PRIOR TO STARTING OPERATIONS. MIRU KEY 940.
	15:00 - 15:15	0.25	WC	e	80CMPL	SI 7" INTERMEDIATE CSG -0- PSIG-NIPPLE UP BOP.
	15:15 - 19:00	3.75	CM	6	80CMPL	RU AUXILIARY EQUIPMENT.
	19:00 - 19:15	0.25	CM	z	80CMPL	SDON.
07/04/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING-PRIOR TO STARTING OPERATIONS. SHUT IN 7" INTERMEDIATE CSG & SI BRADENHEAD -0- PSIG, (VACUUM).
	07:30 - 15:30	8.00	CM	6	80CMPL	RIG UP AUXILIARY EQUIPMENT, RIG UP FLOOR, TONGS, ETC.
	15:30 - 16:00	0.50	CM	z	80CMPL	RIG & AIR EQUIPMENT INSPECTION.
	16:00 - 17:30	1.50	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- NOTIFY: BLM OF PENDING CASING INTEGRITY TEST @ 7-03-03- PERFORM CASING INTEGRITY TEST TO 250 PSIG -3MIN & 600 PSIG - 30MIN (OK) PT BLIND RAMS / 7" CASING / CHOKE MANIFOLD INCREASE PRESSURE T/1800 PSIG - 30MIN (OK).
	17:30 - 18:30	1.00	CM	2	80CMPL	SLIP, CALIPER, & TALLY 3-1/2" DC'S.
	18:30 - 19:00	0.50	CM	z	80CMPL	SDON.
07/08/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING-PRIOR TO STARTING OPERATIONS. SHUT IN 7" CSG -0- PSIG- SHUT IN 9-5/8" X 7" CSG ANNULUS -0- PSIG-.
	07:30 - 08:30	1.00	CM	6	80CMPL	SLIP & TALLY 2-7/8" DRILL PIPE.
	08:30 - 13:00	4.50	CM	4	80CMPL	MU 6-1/4" STX-09C TRI-CONE INSERT BIT JETTED W/3-20'S SN: SL51H, W/3-1/2" REG BOX x 2-3/8" IF BOX BIT SUB BORED, TAPPED, AND CONTAINING A FLOAT VALVE, W/ 14-(3-1/2") DC'S W/ 2-3/8" IF PIN x 2-7/8" IF BOX X-O SUB TBHA 428.99'-GIH W/ A TOTAL OF 96 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 @ 3392'KB.
	13:00 - 13:30	0.50	CM	6	80CMPL	RIG UP POWER SWIVEL.
	13:30 - 14:30	1.00	CM	5	80CMPL	CIRCULATE HOLE W/ PRODUCED WATER WHILE PERFORMING SAFETY RIG INSPECTION.
	14:30 - 16:15	1.75	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 (OK)- 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).
	16:15 - 17:00	0.75	CM	5	80CMPL	UNLOAD HOLE WITH AIR MIST.
	17:00 - 21:00	4.00	DR	1	50PRDR	DRILLOUT SOFT-HARD CMT F/ 3392-T/3400'KB FLOAT COLLAR, CMT, GS @ 3442'KB & OPEN HOLE SECTION F/ 3450 -T/3470'KB W/ 2.2 MMSCFD AIR & 12 BPH MIST W/ 6-8K WOB & 90 RPM'S.
	21:00 - 23:00	2.00	RM	m	50PRDR	RIIG REPAIR-LIGHT PLANT & AUXILIARY LIGHTING.
	23:00 - 06:00	7.00	DR	1	50PRDR	DRILLOUT OPEN HOLE SECTION F/ 3470-T/3700'KB,PBTD-W/ 2.2 MMSCFD AIR & 12 BPH MIST W/ 6-8K WOB & 90 RPM'S. COAL INTERVALS NET FEET BG GAS UNITS GAS UNITS INCREASE

## Operations Summary Report

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 Common Well Name: SAN JUAN 32-8 FRUITLAND #205A UNIT  
 Event Name: Original Completion Start: 06/11/2003 End: 07/24/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 07/23/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/08/2003	23:00 - 06:00	7.00	DR	1	50PRDR	3472-3474' 2' 10 125 3494-3495' 1' 70 110 3553-3556' 3' 260 333 3563-3578' 15' 330 535 3641-3649' 8' 500 581 3651-3658' 7' 560 582 3695-3697' 2' 560 575  COAL INTERVALS F/ 3472 - T/3697 38 NET FEET OF COAL- COAL INTERVALS FROM 3641-3658' ARE 25% INTERMEDIATE DULL TO 75% VITREOUS LUSTERED COAL. GOOD INTERSECTING CLEATING WITH CALCITE FILLED FRACTURES.
07/09/2003	06:00 - 09:30	3.50	DR	1	50PRDR	SAFETY MEETING-PRIOR TO STARTING OPERATIONS. DRILL OUT OPEN HOLE SECTION F/ 3700-T/3820'KB, TD- W/ 2.2 MMSCFD AIR & 12 BPH MIST W/ 6-8K WOB & 90 RPM'S. COAL INTERVALS NET FEET BG GAS UNITS GAS UNITS INCREASE 3472-3474' 2' 10 125 3494-3495' 1' 70 110 3553-3556' 3' 260 333 3563-3578' 15' 330 535 3641-3649' 8' 500 581 3651-3658' 7' 560 582 3695-3697' 2' 560 575 3737-3747' 10' 560 706 3751-3753' 2' 690 731  TOTAL NET FEET OF COAL 50'  BENTONITE STRINGERS 3732-33' & 3737-40'KB COAL INTERVALS FROM 3641-3658' ARE 25% INTERMEDIATE DULL TO 75% VITREOUS LUSTERED COAL. GOOD INTERSECTING CLEATING WITH CALCITE FILLED FRACTURES. BASAL COALS: 3737-3753'KB 60% DULL & 40% SATIN LUSTER W/ VISUAL CALCITE IN SAMPLES, POOR CLEATING, BUT PLATLY. TOP OF Kpc 3763'KB.
	09:30 - 11:00	1.50	CM	1	80CMPL	R&R F/ 3772 - 3790' R&R PBTD W/ 2.2 MMSCFD AIR & 10 BPH MIST- RETURNS: 2 DN TO 1/2 BPH GRITTY 99+% COAL.
	11:00 - 11:15	0.25	CM	5	80CMPL	DRY UP WELLBORE PRIOR TO FLOW TEST.
	11:15 - 12:00	0.75	CM	4	80CMPL	PULL UP INTO 7" CASING @ 3431'KB.
	12:00 - 13:00	1.00	CM	u	80CMPL	FLOW TEST THRU 2" TIME CHOKE MANIFOLD #S PITOT #S MSCFD / CONSISTENCY 15MIN 25.0 6.25 1578 / DAMP 30MIN 25.0 6.25 1578 / DAMP 45MIN 20.0 5.00 1374 / DRY 60MIN 18.0 4.50 1304 / DRY RECORD ISIP @ 60 PSIG.

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 Event Name: Original Completion  
 Contractor Name: KEY FOUR CORNERS  
 Rig Name: KEY ENERGY

Spud Date: 06/27/2003  
 Start: 06/11/2003 End: 07/24/2003  
 Rig Release: 07/23/2003 Group:  
 Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/09/2003	13:00 - 22:00	9.00	CM	t	80CMPL	RECORD 1-HR SIPBU AND 2 HR FOR NATURAL SURGES 15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS: SURGE #1 220# 395# 470# 520# 700# 1/2 SURGE #2 210# 390# 470# 515# 610# 1/2 SURGE #3 250# 415# 500# 540# 560# 1/4 BLOW AROUND TO PIT AFTER SURGES- ALLOW WELLBORE TO VENT PRIOR TO NATURAL BUILDUP- RETURNS: 1/2 DOWN TO A 1/4 BUCKET / HR OF FRAC SAND GRIT TO LARGE 1/2" DIAMETER CHUNKS OF COAL.
	22:00 - 06:00	8.00	CM	1	80CMPL	PERFORM AIR ASSIST SURGES #4-#7 F/ 950 UP T/1100 PSIG W/ 5 BBL WATER PADS- RETURNS: UP T/1/2 BUCKET / HR VERY FINE TO OCCASIONAL LARGER DIAMETER CHUNKS OF COAL.
07/10/2003	06:00 - 06:00	24.00	CM	1	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- REVIEW & APPLY FOREST SERVICE LEVEL "3" RESTRICTIONS- R&R & CLEANOUT F/3571 - T/3709'- W/ 2.2 MMSCFD AIR, 10BPH MIST CONTAINING 1 GAL FOAMER, & INHIBITOR @ 500 PSIG. RETURNS: 3 DOWN TO 1 BUCKET (S) /HR PRIOR TO EACH CONNECTION OF 1" CHUNKS DOWN TO FINE COAL (FRAC SAND SIZE) ~99% COAL & ~1% SHALE. NO NOTICEABLE WATER GAIN.
07/11/2003	06:00 - 14:00	8.00	CM	1	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- R&R & CLEANOUT F/3709 - T/3753' R&R DEPTH W/ 2.2 MMSCFD AIR, 10BPH MIST CONTAINING 1 GAL FOAMER, & INHIBITOR @ 500 PSIG. RETURNS: 1-1/2 DOWN TO 1/2 BUCKET /HR OF FINE GRITTY COAL (FRAC SAND SIZE) ~99% COAL & ~1% SHALE. NO NOTICEABLE WATER GAIN.
	14:00 - 14:15	0.25	CM	5	80CMPL	DRY UP PRIOR TO FLOW TEST.
	14:15 - 14:45	0.50	CM	4	80CMPL	PULL UP INTO 7" CASING @ 3431'KB.
	14:45 - 15:45	1.00	CM	u	80CMPL	FLOW TEST THRU 2" TIME CHOKER MANIFOLD #S PITOT #S MSCFD / CONSISTENCY
						15MIN 31.0 7.75 1739 / DAMP 30MIN 36.0 9.00 1860 / DAMP 45MIN 34.0 8.50 1808 / DRY 60MIN 33.0 8.25 1793 / DRY
	15:45 - 02:00	10.25	CM	t	80CMPL	RECORD ISIP @ 60 PSIG. RECORD 1-HR SIPBU AND 2 HR FOR NATURAL SURGES 15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS: SURGE #8 330# 460# 510# 540# 600# HANDFUL SURGE #9 290# 410# 500# 510# 570# 1/4 SURGE #10 280# 450# 490# 520# 590# 1/4 BLOW AROUND TO PIT AFTER SURGES- ALLOW WELLBORE TO VENT PRIOR TO NATURAL BUILDUP- RETURNS: 1/4 BUCKET / HR OF GRITTY (FRAC SAND SIZE 10/20 MESH) OF COAL.
	02:00 - 06:00	4.00	CM	1	80CMPL	PERFORM AIR ASSIST SURGES #11-#12 F/ 1050 UP T/1100 PSIG W/ 5 BBL WATER PADS- RETURNS: UP T/1/2 BUCKET / HR VERY FINE COAL.

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 Event Name: Original Completion Start: 06/11/2003 End: 07/24/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 07/23/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/12/2003	06:00 - 09:30	3.50	CM	1	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- PERFORM AIR ASSIST SURGES #13-#14 @ 900 PSIG W/ 5 BBL WATER PADS- RETURNS: F/1/2 DOWN TO 1/4 BUCKET / HR VERY FINE COAL. POSSIBLE BRIDGE AFTER SURGING # 14- NO NOTICEABLE WATER GAIN.
	09:30 - 10:00	0.50	CM	4	80CMPL	GIH W/ 6-1/4" BHA F/3431' & TAG @ 3563', TOP OF 15' COAL SEAM.
	10:00 - 16:00	6.00	CM	1	80CMPL	R&R & CLEANOUT F/3556 - T/3587' 15' COAL SEAM 3563-3578' W/ 2.2 MMSCFD AIR, 10BPH MIST CONTAINING 1 GAL FOAMER, & INHIBITOR @ 500 PSIG. RETURNS: 3 DOWN TO 1/2 BUCKET /HR OF FINE GRITTY COAL (FRAC SAND SIZE) ~99% COAL & ~1% SHALE. NO NOTICEABLE WATER GAIN.
	16:00 - 06:00	14.00	CM	1	80CMPL	R&R & CLEANOUT F/3587 - T/3649' 8' COAL SEAM F/3641-T/3649' W/ 2.2 MMSCFD AIR, 10BPH MIST CONTAINING 1 GAL FOAMER, & INHIBITOR @ 500 PSIG. RETURNS: 2 BUCKET (S) /HR OF FINE GRITTY COAL (FRAC SAND SIZE) W/ OCCASIONAL 1/4" -3/8" CHIPS OF ~99% COAL & ~1% SHALE. NO NOTICEABLE WATER GAIN.
07/13/2003	06:00 - 11:00	5.00	CM	1	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- R&R & CLEANOUT F/3649 - T/3753' R&R DEPTH 7' & 8' COAL SEAMS F/3641-3658' W/ 2.2 MMSCFD AIR, 10BPH MIST CONTAINING 1 GAL FOAMER, & INHIBITOR @ 500 PSIG. RETURNS: 2 DOWN TO 1/2 BUCKET /HR OF FINE GRITTY COAL (FRAC SAND SIZE) ~99% COAL & ~1% SHALE. NO NOTICEABLE WATER GAIN.
	11:00 - 11:15	0.25	CM	5	80CMPL	DRY UP WELLBORE PRIOR TO FLOW TEST W/ 2.2 MMSCFD AIR.
	11:15 - 12:00	0.75	CM	4	80CMPL	PULL UP BHA INTO 7" @ 3431'KB.
	12:00 - 13:00	1.00	CM	u	80CMPL	FLOW TEST THRU 2" TIME CHOK MANIFOLD #S PITOT #S MSCFD / CONSISTENCY
						15MIN 33.0 8.25 1793 / DRY 30MIN 49.0 12.00 2148 / DRY 45MIN 51.0 13.00 2237 / DRY 60MIN 51.0 13.00 2237 / DRY
	13:00 - 23:00	10.00	CM	t	80CMPL	RECORD ISIP @ 80 PSIG. RECORD 1-HR SIPBU AND 2 HR FOR NATURAL SURGES 15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS: SURGE #15 400# 460# 500# 500# 520# HANDFUL SURGE #16 360# 460# 500# 500# 520# 1/4 SURGE #17 380# 490# 510# 510# 540# 1/4
	23:00 - 06:00	7.00	CM	1	80CMPL	BLOW AROUND TO PIT AFTER SURGES- ALLOW WELLBORE TO VENT PRIOR TO NATURAL BUILDUP- RETURNS: 1/4 BUCKET / HR OF VERY FINE (FACE POWDER) TYPE OF COAL. PERFORM AIR ASSIST SURGES #18-#21 @ 850 UP TO 900 PSIG BREAKOVER PRESSURES W/ 5 BBL WATER PADS- RETURNS: 1/4 BUCKET / HR VERY FINE COAL. NO NOTICEABLE WATER GAIN.

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 Contractor Name: KEY FOUR CORNERS Rig Release: 07/23/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/14/2003	06:00 - 07:00	1.00	CM	1	80CMPL	SAFETY MEETING PRIOR TO STARTING OPERATIONS- CIRCULATE TO PIT AFTER AIR ASSIST SURGE #21 RETURNS: 1/4 BUCKET / HR VERY FINE COAL. NO NOTICEABLE WATER GAIN.
	07:00 - 07:30	0.50	CM	4	80CMPL	GIH W/ 6-1/4" BHA F/3431' & TAG @ 3609'KB.
	07:30 - 12:30	5.00	CM	1	80CMPL	R&R & CLEANOUT F/3609 - T/3753' CLEANOUT BRIDGES @ 3609', & 3727'KB W/ 2.2 MMSCFD AIR, 10BPH MIST CONTAINING 1 GAL FOAMER, & INHIBITOR @ 500 PSIG. RETURNS: 1-1/2 DOWN TO 1/4 BUCKET /HR OF VERY FINE COAL ~99% COAL & ~1% SHALE. NO NOTICEABLE WATER GAIN.
	12:30 - 12:45	0.25	CM	5	80CMPL	DRY UP WELLBORE PRIOR TO FLOWTEST.
	12:45 - 13:30	0.75	CM	4	80CMPL	PULL UP BHA INTO 7" @ 3431'KB.
	13:30 - 14:30	1.00	CM	u	80CMPL	FLOW TEST THRU 2" TIME CHOKER MANIFOLD #S PITOT #S MSCFD / CONSISTENCY
						15MIN 36.0 9.00 1865 / DAMP
						30MIN 41.0 11.00 2039 / DRY
						45MIN 47.0 12.00 2148 / DRY
						60MIN 56.0 14.00 2326 / DRY
07/15/2003	14:30 - 01:00	10.50	CM	t	80CMPL	RECORD ISIP @ 100 PSIG. RECORD 1-HR SIPBU AND 2 HR FOR NATURAL SURGES 15MIN 30MIN 45MIN 60MIN 120 MIN RETURNS: SURGE #22 380# 460# 500# 500# 540# 1/4 SURGE #23 390# 460# 500# 520# 540# 1/4 SURGE #24 400# 490# 510# 515# 520# 1/4 BLOW AROUND TO PIT AFTER SURGES- ALLOW WELLBORE TO VENT PRIOR TO NATURAL BUILDUP- RETURNS: 1/4 BUCKET / HR OF VERY FINE (FACE POWDER) TYPE OF COAL.
	01:00 - 06:00	5.00	CM	1	80CMPL	PERFORM AIR ASSIST SURGES #25-#27 @ 900 PSIG BREAKOVER PRESSURES W/ 5 BBL WATER PADS- RETURNS: 1/4 BUCKET / HR VERY FINE COAL.
	06:00 - 07:30	1.50	CM	1	80CMPL	PERFORM AIR ASSIST SURGE #28 @ 900 PSIG BREAKOVER PRESSURE W/5 BBL WATER PADS- RETURNS = 1/4 BUCKET / HR VERY FINE COAL HOLD SAFETY MEETING AT CREW CHANGE PRIOR TO STARTING OPERATIONS
	07:30 - 08:00	0.50	CM	4	80CMPL	RIH W/6-1/4" BHA FROM SHOE, TAG BRIDGE @ 3578'
	08:00 - 17:30	9.50	CM	1	80CMPL	R&R, C/O F/3578' - T/3609', W / 2.2 MMSCFD AIR, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR / 10 BBLS CIRCULATE AT 500 PSI, RETURNS = 2 DOWN TO 1/2 BUCKET / HR COAL FINES, 98% COAL & 2% SHALE NO NOTICEABLE WATER GAIN
	17:30 - 06:00	12.50	CM	1	80CMPL	R&R, C/O F/3609' - T/3679', W / 2.2 MMSCFD AIR, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR / 10 BBLS CIRCULATE AT 500 PSI, RETURNS = 1-1/2 - 2 BUCKETS / HR COAL FINES, 98% COAL & 2% SHALE NO NOTICEABLE WATER GAIN
	06:00 - 00:00	18.00	CM	1	80CMPL	HOLD SAFETY MEETING PRIOR TO STARTING OPERATIONS CLEAN OUT F/3679' - T/3753'

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 Common Well Name: SAN JUAN 32-8 FRUITLAND #205A UNIT  
 Event Name: Original Completion  
 Contractor Name: KEY FOUR CORNERS  
 Rig Name: KEY ENERGY

Start: 06/11/2003  
 Rig Release: 07/23/2003  
 Rig Number: 940

Spud Date: 06/27/2003  
 End: 07/24/2003  
 Group:

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/16/2003	06:00 - 00:00	18.00	CM	1	80CMPL	WITH 2.2 MMSCFD AIR, 10 BPH MIST, 1 BBL FOAMER & INHIBITOR / 10 BBLS @ 500 PSI RETURNS = 2 DOWN TO 1/4 BUCKET / HR OFF SAMPLE CATCHER, COAL FINES 98% COAL, 2% SHALE
	00:00 - 00:30	0.50	CM	4	80CMPL	POOH WITH BHA TO THE 7" SHOE AT 3431'
	00:30 - 01:30	1.00	CM	u	80CMPL	FLOW TEST WELL THROUGH A 2" OPEN LINE: TIME      MANIFOLD PSI      PITOT PSI      MSCFD / COSISTENCY
						15 MIN      54#      11.2#      2039 / WET 30 MIN      58#      12.2#      2148 / WET 45 MIN      62#      15.0#      2416 / WET 60 MIN      62#      15.0#      2416 / WET
	01:30 - 06:00	4.50	CM	1	80CMPL	RECORDED ISIP @ 110 PSI RECORD 1 - HR SHUT IN PRESSURE AND 2 - HR FOR NATURAL SURGES 15 MIN    30 MIN    45 MIN    60 MIN    120 MIN RETURNS: SURGE #29    400#    460#    480#    500#    530# LIGHT DUST SURGE #30    390#    450#    470#    500#    530# LIGHT DUST ALLOW WELLBORE TO VENT PRIOR TO NATURAL BUILD UP RETURNS VERY FINE COAL DUST
07/17/2003	06:00 - 12:30	6.50	CM	1	80CMPL	RECORD 1 - HR SHUT IN PRESSURE AND 2 - HR FOR NATURAL SURGES 15 MIN    30 MIN    45 MIN    60 MIN    120 MIN    RETURNS SURGE #30    390#    450#    470#    500#    530#    LIGHT DUST SURGE #31    370#    470#    480#    510#    525#    1/4 BUCKET FINES BLOW AROUND TO PIT AFTER SURGES ALLOW WELLBORE TO VENT PRIOR TO NATURAL BUILD UP
	12:30 - 19:30	7.00	CM	1	80CMPL	PREFORM AIR ASSIST SURGES #32 - #35 @ 900 - 1100 PSI BREAK OVER PRESSURE W / 5 BBL WATER PADS RETURNS = 1 BUCKET / HR FINE COAL
	19:30 - 20:00	0.50	CM	4	80CMPL	RIH W/6-1/4" BHA FROM SHOE, TAG BRIDGE @ 3578'
	20:00 - 06:00	10.00	CM	1	80CMPL	R&R, CLEAN OUT F/3578' - T/3679' W / 2.2 MMSCFD AIR, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR/10 BBLS AT 500 PSI RETURNS = 1-1/2 - 2 BUCKETS / HR OFF SAMPLE CATCHER, FINE GRITTY COAL
						95% COAL & 5% SHALE
07/18/2003	06:00 - 10:30	4.50	CM	1	80CMPL	HOLD SAFETY MEETING PRIOR TO STARTING OPERATIONS CLEAN OUT F/3679' - T/3753' W / 2.2 MMSCFD AIR, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR / 10 BBLS RETURNS = 2 DOWN TO 1/2 BUCKET / HR OFF SAMPLE CATCHER, COAL FINES
	10:30 - 06:00	19.50	CM	1	80CMPL	95% COAL & 5% SHALE, NO NOTICEABLE WATER GAINS R&R, CLEAN OUT F/ 3753' - T/3772' W / 2.2 MMSCFD AIR, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR / 10 BBLS PUMP 5 BBL SWEEP / HR, RETURNS = 1/2 - 3/4 BUCKET / HR OFF SAMPLE CATCHER, COAL FINES 95% COAL & 5% SHALE



## Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000205A  
 Common Well Name: SAN JUAN 32-8 FRUITLAND #205A UNIT  
 Event Name: Original Completion Start: 06/11/2003 End: 07/24/2003  
 Contractor Name: KEY FOUR CORNERS Rig Release: 07/23/2003 Group:  
 Rig Name: KEY ENERGY Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/18/2003	10:30 - 06:00	19.50	CM	1	80CMPL	START TO STABILIZE WELL BORE FOR LINER
07/19/2003	06:00 - 06:00	24.00	CM	1	80CMPL	CLEAN OUT F/3772' - T/3820' (TD) RAT HOLE F/3753' - T/3820' (67') WITH 2.2 MMSCFD, 10 BPH MIST, 1 GAL FOAMER & INHIBITOR / 10 BBL'S WATER RETURNS = 2 DOWN TO 3/4 BUCKET / HR OFF SAMPLE CATCHER, COAL FINES 95% COAL & 5% SHALE ADDED 1 - 2 GAL / HR POLYMER TO HELP STABILIZE WELL BORE
07/20/2003	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3820' W / 1.5 MMCFD AIR, 10 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 - 18:00	10.50	CM	1	80CMPL	R&R C/O & CONDITION HOLE T/3820 TD W / 1.5 MMCFD AIR, 10 BPH MIST, 1 GAL FOAMER, 1/2 GAL POLYMER & 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
	18:00 - 18:30	0.50	CM	4	80CMPL	PUH INSIDE 7" CSG W / BHA
	18:30 - 19:00	0.50	CM	g	80CMPL	FLOW WELL NATURAL OUT BLOOIE LINE'S TO CHECK HOLE CONDITION'S
	19:00 - 19:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
07/21/2003	19:30 - 21:30	2.00	CM	g	80CMPL	FLOW WELL NATURAL OUT BLOOIE LINE'S TO CHECK HOLE CONDITION'S
	21:30 - 22:00	0.50	CM	4	80CMPL	RIH FROM 7" CSG TAG TIGHT SPOT @ 3700'
	22:00 - 06:00	8.00	CM	1	80CMPL	R&R C/O & CONDITION HOLE T/3820' TD W / 1.5 MMCFD AIR, 10 BPH MIST, 1 GAL FOAMER, 1/2 GAL POLYMER & INHIBITOR = RETURN'S TO SURFACE, MED TO LIGHT COAL & FINE'S W / NO WATER GAIN = 95 COAL & 5% SHALE
	06:00 - 07:00	1.00	CM	1	80CMPL	R&R C/O T/3820' TD W / 1.5 MMCFD AIR, 10 BPH MIST, 1 GAL FOAMER, 1/2 GAL POLYMER & INHIBITOR = RETURN'S TO SURFACE, LIGHT COAL & FINE'S W / NO WATER GAIN = 3 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/3820' TD W / 1.5 MMCFD AIR, 10 BPH MIST, 2 GAL'S FOAMER, 1/2 GAL POLYMER & INHIBITOR = RETURN'S TO SURFACE, LIGHT COAL & FINE'S W / NO WATER GAIN = 3 DOWN TO 1/2 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	g	80CMPL	FLOW WELL NATURAL OUT BLOOIE LINE'S TO CHECK HOLE CONDITION'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 @ 3753'
	20:00 - 03:00	7.00	CM	1	80CMPL	R&R C/O T/3820' TD W / 1.5 MMCFD AIR, 10 BPH MIST, 2 GAL'S FOAMER, 1/2 GAL POLYMER & INHIBITOR = RETURN'S TO SURFACE, LIGHT COAL & FINE'S W / NO WATER GAIN = 2 DOWN TO 1/2 BUCKET'S PER HOUR OFF SAMPLE CATCHER = 95% COAL & 5% SHALE
	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 & RU TO COOH
	03:45 - 06:00	2.25	CM	4	80CMPL	COOH W / DP, DC'S & BHA

## Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000205A

Common Well Name: SAN JUAN 32-8 FRUITLAND #205A UNIT

Spud Date: 06/27/2003

Event Name: Original Completion

Start: 06/11/2003

End: 07/24/2003

Contractor Name: KEY FOUR CORNERS

Rig Release: 07/23/2003

Group:

Rig Name: KEY ENERGY

Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/22/2003	06:00 - 07:00	1.00	CM	6	80CMPL	RU 5 1/2" RAM'S & EQUIPMENT
	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
	07:30 - 08:15	0.75	CM	6	80CMPL	RU 5 1/2" RAM'S & EQUIPMENT
	08:15 - 08:30	0.25	CM	8	80CMPL	TEST 5 1/2" RAM'S TO 540# WELLBORE PRESSURE = GOOD TEST
	08:30 - 08:45	0.25	CM	u	80CMPL	2" OPEN FLOW TEST W / PITOT TUBE = 2800 MCFD = LAST GAUGE
	08:45 - 09:15	0.50	CM	2	80CMPL	PU & MU T.I.W. JGS MECH 7" X 5 1/2" HANGER W / STEEL SLEEVE ON JT OF DP
	09:15 - 11:00	1.75	CM	2	80CMPL	GIH PU 5 1/2" V-SHOE, 9 JT'S OF 5 1/2" 15.50# J-55 LT&C CSG & T.I.W. HANGER
	11:00 - 12:15	1.25	CM	4	80CMPL	RIH W / LINER, HANGER & DP T/3442'
	12:15 - 12:30	0.25	CM	6	80CMPL	PU POWER SWIVEL
	12:30 - 14:45	2.25	CM	1	80CMPL	WORKING LINER THROUGH TIGHT'S SPOT'S T/3820' TD
	14:45 - 15:00	0.25	CM	1	80CMPL	SET T.I.W. JGS 7" X 5 1/2" HANGER & RELEASED OFF HANGER = 5 1/2" LINER SET AS FOLLOWS 5 1/2" V-SHOE SET @ 3819' 9 JT'S OF 5 1/2" CSG SET @ 3817'.50" BOTTOM OF HANGER @ 3412'.73" TOP OF HANGER SET @ 3407'.98" CSG - 9 JT'S 404'.77" J-55 15.50# LT&C HANGER - T.I.W. 7" X 5 1/2" JGS MECH W / STEEL SLEEVE, LT&C OVERLAP OF 7" SHOE = 34'
	15:00 - 15:30	0.50	CM	6	80CMPL	RD POWER SWIVEL
	15:30 - 19:15	3.75	CM	2	80CMPL	COOH LAYING DOWN DP, DC'S & SETTING TOOL
	19:15 - 19:30	0.25	CM	1	80CMPL	SECURED WELL & LOCATION = S.D.O.N.
07/23/2003	07:00 - 07:30	0.50	CM	c	80CMPL	SAFETY MEETING W / ALL PERSONNEL ON LOCATION = HAD 540# ON CSG
	07:30 - 08:00	0.50	CM	6	80CMPL	RU BLUE JET PERFORATING EQUIPMENT
	08:00 - 08:15	0.25	CM	8	80CMPL	TEST LUBRICATOR TO 540# WELLBORE PRESSURE
	08:15 - 09:30	1.25	CM	q	80CMPL	RIH & PERFORATED 5 1/2" LINER W / 3 1/8" CSG GUN'S, 0.75" DIA HOLE'S, 4 SPF, 90 DEGREE PHASING AS FOLLOWS 3751'-53' = 2 FT = 8 HOLE'S 3743'-47' = 4 FT = 16 HOLE'S 3738'-42' = 4 FT = 16 HOLE'S 3695'-97' = 2 FT = 8 HOLE'S 3651'-58' = 7 FT = 28 HOLE'S 3641'-49' = 8 FT = 32 HOLE'S 3571'-78' = 7 FT = 28 HOLE'S 3561'-67' = 6 FT = 24 HOLE'S 3554'-56' = 2 FT = 8 HOLE'S 3472'-74' = 2 FT = 8 HOLE'S TOTAL HOLE'S 176
	09:30 - 09:45	0.25	CM	6	80CMPL	RD BLUE JET PERFORATING EQUIPMENT
	09:45 - 10:15	0.50	CM	6	80CMPL	RU 2 7/8" RAM'S & EQUIPMENT
	10:15 - 10:45	0.50	CM	8	80CMPL	TEST 2 7/8" RAMS' = 200# 3 MIN'S & 1800# 10 MIN'S = GOOD TEST
	10:45 - 11:00	0.25	CM	2	80CMPL	PU & MU BHA
	11:00 - 14:00	3.00	CM	2	80CMPL	GIH PU BHA & 2 7/8" EUE 8RD PRODUCTION STRING
	14:00 - 14:30	0.50	CM	1	80CMPL	LAND TUBING HANGER W / PRODUCTION STRING SET AS FOLLOWS 2 7/8" EUE 8RD EXP CHECK SET @ 3736'.62" 2 7/8" EUE 8RD BOTTOM JT TUBING SET @ 3735'.97" 2 7/8" EUE 8RD 2.250" FN SET @ 3704'.65"

# Operations Summary Report

Legal Well Name: SAN JUAN 32-8 UNIT FRUITLA 000205A

Common Well Name: SAN JUAN 32-8 FRUITLAND #205A UNIT

Spud Date: 06/27/2003

Event Name: Original Completion

Start: 06/11/2003

End: 07/24/2003

Contractor Name: KEY FOUR CORNERS

Rig Release: 07/23/2003

Group:

Rig Name: KEY ENERGY

Rig Number: 940

Date	From - To	Hours	Code	Subco	Phase	Description of Operations
07/23/2003	14:00 - 14:30	0.50	CM	1	80CMPL	2 7/8" EUE 8RD 122 JT'S TUBING SET @ 3703'.65"
						TOTAL OF 123 JT'S 2 7/8" EUE 8RD J-55 6.5# TUBING IN WELL W /
	14:30 - 17:30	3.00	CM	e	80CMPL	2-8' SUB'S UNDER TOP JT @ SURFACE
07/24/2003	17:30 - 19:00	1.50	CM	5	80CMPL	ND BOP'S & NU WELLHEAD = TEST SEAL TO 3000# = GOOD TEST
	07:00 - 07:30	0.50	MV	c	70DMOB	PUMP-OFF EXP CHECK & FLOW WELL BACK TO PURGE AIR OUT OF WELLBORE = SECURED WELL & LOCATION = S.D.O.N.
	07:30 - 13:00	5.50	MV	6	70DMOB	SAFETY MEETING W / ALL PERSONNEL ON LOCATION
						RD RIG & EQUIPMENT = RELEASE RIG & EQUIPMENT ON 07 / 23 / 2003 @ 13:00 PM = RELEASED WELL TO PRODUCTION DEPT FOR HOOK-UP TO PRODUCE BASIN FRUITLAND COAL WELL = SECURED WELL & LOCATION = S.D.O.N.

Well Name: San Juan 32-8 # 205AAPI #: 30-045-31667Spud: 27-Jun-03TD 8-3/4" Hole: 30-Jun-03Release Drl Rig: 1-Jul-03Move in Cav. Rig: 2-Jul-03TD 6-1/4" Hole: 8-Jul-03Release Cav. Rig: 23-Jul-03**Surface Casing**Date set: 27-Jun-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. SURFACE

Csg Shoe 221 ftTD of 12-1/4" hole 231 ftNotified BLM @ 02:48 hrson 26-Jun-03Notified NMOCD @ 02:50 hrson 26-Jun-03**Intermediate Casing**Date set: 30-Jun-03

Size 7 in 83 jts  
 Set at 3442 ft pups  
 Wt. 20 ppf Grade J-55  
 Hole Size 8 3/4 in  
 Wash Out 150 %  
 Est. T.O.C. 400

Csg Shoe 3442 ftTD of 8-3/4" Hole 3450 ftNotified BLM @ 06:33 hrs on 29-Jun-03Notified NMOCD @ 06:33 hrs on 29-Jun-03**Production Liner**Date set: 21-Jul-03

Size 5 1/2 in Connections: LTC  
 Blank Wt. 15.5 ppf  
 Grade J-55  
 # Jnts: 9  
 Hole Size 6 1/4 in  
 Btm of Liner 3819 ft  
 Top of Liner 3408 ft

PBTD / Top of float 3818Liner Shoe: 3819TD 3,820 ft**Surface Cement**Date cmt'd: 27-Jun-03

Lead : 135 sx Class G Cement  
 + 2% S001 Calcium Chloride  
 + 0.25 lb/sx D029 Cellophane Flakes  
 1.16 cuft/sx, 156.6 cuft slurry at 15.8 ppg  
 Displacement: 14.7 bbls fresh wtr  
 Bumped Plug at: 14:30 hrs w/ 388 psi  
 Final Circ Press: 68 psi @ 0.5 bpm  
 Returns during job: YES  
 CMT Returns to surface: 14 bbls  
 Floats Held: No floats used  
 W.O.C. for 6.5 hrs (plug bump to drlg cmt)

**Intermediate Cement**Date cmt'd: 30-Jun-03

Lead : 435 sx Class G Cement  
 + 3% D079 Extender  
 + 0.25 lb/sx D029 Cellophane Flakes  
 + 0.2% D046 Antifoam  
 + 0.05 gal/sx D047 Antifoam  
 2.61 cuft/sx, 1135.4 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: 137.7 bbls mud  
 Bumped Plug at: 22:30 hrs w/ 1495 psi  
 Final Circ Press: 570 psi @ 1.5 bpm  
 Returns during job: YES  
 CMT Returns to surface: None  
 Floats 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 and WOC before backing out landing jt.

Intermediate: Ran temperature log after moving Key 49 off location. Found top of cement at 400'. BLM approved - no remediation req'd.

Production: Perforated 5-1/2" liner. Ran 2-7/8", 6.5#, J-55 EUE 8rd, tubing (EOT at 3737' RKB).

**CENTRALIZERS:**Surface: CENTRALIZERS @ 211', 179', 138' & 55'.Total: 4

Intermediate: CENTRALIZERS @ 3432', 3357', 3275', 3192', 3109', 3027', & 202'.  
TURBOLIZERS @ 2554', 2512', 2471'

Total: 7Total: 3