

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, 2000

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other  
b. 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, WL3-6085 Houston Tx 77252

3.a Phone No. (Include area code)  
(832) 486-2463

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

At Surface Sec 26 T28N R7W NWSW 2100FSL 910FWL

At top prod. interval reported below

At total depth

14. Date Spudded  
06/20/2005

15. Date T.D. Reached  
06/28/2005

16. Date Completed  
☐ D & A ☒ Ready to Prod.  
09/07/2005

18. Total Depth: MD 7800  
TVD

19. Plug Back T.D.: MD 7798  
TVD

20. Depth Bridge Plug Set: MD  
TVD

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)  
CBL; TDT; GR/CCL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit analysis)  
Directional Survey? ☒ No ☐ Yes (Submit copy)

5. Lease Serial No.  
NMSF078496-A

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.  
NMNM 78413A

8. Lease Name and Well No.

San Juan 28-7 Unit 188F

9. API Well No.

30-039-27297

10. Field and Pool, or Exploratory

Blanco Mesaverde/Basin Dakota

11. Sec., T., R., M., on Block and  
Survey or Area Sec 26 T28N R7W

12. County or Parish  
Rio Arriba

13. State  
NM

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

6647' GL

## 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	32.3	0	232		150		0	
8.75	7	20	0	3601		600		0	
6.25	4.5	11.6	0	7800		470		2490	

## 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	7668							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Blanco Mesaverde	4935	5575	4935' - 5575'	.34	51	Open
B)						
C)						
D)						

## 26. Perforation Record

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

Depth Interval	Amount and Type of Material
4935' - 5575'	Frac'd w/60 Q Slickfoam w/1g/mg FR; 200,000# 20/40 Brady sand; 2,349,900 SCF N2 & 2250 bbls fluid

## 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
9/7/05	8/31/05	24	→	1	1914	2			Flows from Well
Choice Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
1/2	290	570	→					GSI	

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	
			→						

SEP 23 2005

FARMINGTON FIELD OFFICE

BY JB

NMOCDD

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

## 28b. Production - Interval C

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

## 28c. Production - Interval D

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

## 29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones 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
				Nacimiento	1070
				Ojo Alamo	2504
				Kirtland	2604
				Fruitland	3016
				Pictured Cliff	3295
				Otero Chacra	4251
				Cliffhouse	4930
				Pt. Lookout	5499
				Gallup	6778
				Greenhorn	7451
				Cubero	7666

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

New completion on downhole commingled well producing from the Blanco Mesaverde and Basin Dakota. Daily summary report and End of Well Schematic is attached.

## 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) Christina Gustartis Title Regulatory Specialist

Signature Chris Gustartis Date 09/20/2005

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.

**Initial Completion, 07/08/2005 00:00**

API/Bottom UWI	County	State/Province	Surface Legal Location	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
300392729700	RIO ARRIBA	NEW MEXICO	NMPM-28N-07W-26-L	2,100.00	S	910.00	W
Ground Elevation (ft)	Latitude (DMS)	Longitude (DMS)	Spud Date	Rig Release Date			
6,647.00	36° 37' 50.9808" N	107° 32' 53.43" W	06/20/2005				

**07/08/2005 00:00 - 07/08/2005 00:00**

**Last 24hr Summary**

Held safety meeting. RU Schlumberger. Pressured up on 4 1/2" CSG to 1500 #. Ran CBL log from 7782' to 2250'. Top of cement @ 2490'. Ran TDT log from 7782' to 2250'. Ran GR/ccl log from 7782' TO surface. RD Schlumberger.

**07/11/2005 00:00 - 07/11/2005 00:00**

**Last 24hr Summary**

Held safety meeting. RU Computalog. Perforated the Dakota. RIH w/ 3 1/8" 120 degree pp Select fire perforating gun. Perforated from 7555' - 7570' w/ 1 SPF, 7577' - 7584' w/ 1 SPF, 7643' - 7647' w/ 1 spf, 7668' - 7683' w/ 1 spf, 7698' - 7708' w/ 1 spf, 7722' - 7730' w/ 1 spf, 7742' - 7747' w/ 1 spf. A total of 71 holes @ 0.34 DIA. SWI. RD Computalog.

**07/13/2005 09:00 - 07/13/2005 17:00**

**Last 24hr Summary**

Held safety meeting. RU Schlumberger. Fac'd the Dakota. Tested lines to 5300 #. Set pop off @ 4300 #. Broke down formation @ 3 bpm @ 1230 #. Pump pre pad @ 40 bpm @ 2447 #. Stepped down rate to 35 bpm @ 2158 #. Stepped down rate to 30 bpm @ 1881 #. Stepped down rate to 20 bpm @ 1632 #. Stepped down rate to 10 bpm @ 1193 #. ISIP 1233 #. 5 min 732 #. 10 min 622 #. 15 min 514 #. 20 min 423 #. 25 min 350 #. 30 min 281 #. Pumped 1000 gals of 15% HCL acid @ 5 bpm @ 1037 #. Frac'd the Dakota w/slickwater @ 1.25 g/mg FR, 35,000 # 20/40 Carbolite sand & 3740 bbls fluid. Avg rate 53 bpm. Avg pressure 2834 #. Max pressure 3067 #. Max sand cons .40 # per gal. ISIP 2170 #. Frac gradient .60. SWI. RD Schlumberger.

**07/14/2005 07:00 - 07/14/2005 14:00**

**Last 24hr Summary**

Held safety meeting. RU Computalog. RIH w/ 4 1/2" composite plug. Set plug @ 5675'. Tested plug to 4300 #. Held ok. Perforated the Mesaverde w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 4935' - 4943' w/ 1/2 spf, 4967' - 4977' w/ 1/2 spf, 4990' - 4998' w/ 1/2 spf, 5023' - 5027' w/ 1/2 spf, 5045' - 5061' w/ 1/2 spf, 5501' - 5517' w/ 1/2 spf, 5532' - 5540' w/ 1/2 spf, 5550' - 5556' w/ 1/2 spf, 5567' - 5575' w/ 1/2 spf. A total of 51 holes w/ 0.34 dia. RU Schlumberger. Broke down formation on the Point Lookout @ 4 BPM @ 2350 # and set pressure gauges @ 5491' on the Point Lookout. Perfs @ 5501' to 5575'. Broke down formation on the Cliffhouse @ 4 BPM @ 1025 # and set pressure gauges @ 4925' on the Cliffhouse. Perfs @ 4935' to 5061'. SWI. RD Computalog & Schlumberger.

**07/17/2005 12:00 - 07/17/2005 19:00**

**Last 24hr Summary**

Held safety meeting. RU Computalog. Pulled pressure gauges. POOH w/ Cliffhouse pressure gauges. BHP 650 #. Attempted to pull gauges on the Point Lookout. RBP would not release. SWI. RD Computalog.

**07/18/2005 07:00 - 07/18/2005 19:00**

**Last 24hr Summary**

Held safety meeting. RU Computalog. Pulled pressure gauges. POOH w/ Point Lookout pressure gauges. BHP 850 #. RD Computalog. RU Schlumberger. Frac'd the Mesaverde. Tested lines to 5500 #. Set pop off @ 4050 #. Broke down formation @ 3 bpm @ 989 #. Pumped pre pad @ 30 bpm @ 1675 #. Stepped down rate to 25 bpm @ 736 #. Stepped down rate to 20 bpm @ 402 #. Stepped down rate to 15 bpm @ 125 #. Stepped down rate to 10 bpm @ 0 #. ISIP 0 #. Pumped 1000 gals of 15% HCL acid @ 5 bpm @ 0 #. Frac'd the Mesaverde w/ 60 Q slick foam w/ 1 g/mg FR, 200,000 # 20/40 Brady sand, Treated the last 15% of proppant volume with proppnet for proppant flowback control, 2,349,900 SCF N2 & 2250 bbls fluid. Avg rate 65 bpm. Avg pressure 2421 #. Max pressure 2509 #. Max sand cons 1.50 # per gal. ISIP 1230 #. Frac gradient .44. SWI. RD Schlumberger. Started flowback.

**08/25/2005 07:00 - 08/25/2005 18:00**

**Last 24hr Summary**

SICP= 650#.

Held PJSM. Discussed days events and ways to prevent incident. Filled out and reviewed JSA.

Load equipment on Mims 36 St Com 1M. Road unit and equipment to SJ 28-7# 188 F. Spot unit and equipment. Ru unit. Ru pump and pit.BWD, Kill csg w/ 30 bbl. Set hanger. ND frac stack. NU BOPE. Load and test BOPE ( blind and pipe rams to 250# low for 5 min and 3000# high for 10 min each. Test was good. Charted and witnessed by G.Maez w/ Key Energy. RU blooie lines and flow test lines. Place concrete blocks. RU floor and tbq. tools. Secure well SDFN.

**08/26/2005 07:00 - 08/26/2005 18:00**

**Last 24hr Summary**

SICP= 500#.

Held PJSM. Discussed days events and ways to prevent incident. Filled out and reviewed JSA.

BWD, Kill csg w/ 30 BBL 2% KCL. Pooh w/ Hanger. MU and TIH picking up w/ 1/2 MS collar, 1.81" FN and 177 jts 2 3/8" tbq. Tag fill @ 5550'. Establish circulation w/ air. Unload hole. C/O fill from 5550' to PBTD of 5675' w/ 1100 cfm air and 8 bbl/hr mist. Circulate clean. POOH w/ 20 jts 2 3/8" tbq. Secure well SDFWE.

**08/29/2005 07:00 - 08/30/2005 18:00**

**Last 24hr Summary**

SICP= 630#.

Held PJSM. Discussed days events and ways to prevent incident. Filled out and reviewed JSA.

BWD, TIH and tag fill @ 5680'. Establish circulation w/ air. Unload hole, C/O fill from 5680' to CBP @ 5675' w/ 1100 cfm air and 8 bph mist. Circulate remainder of day. Formation clean up w/ slight trace of sand & returning light fluid. Pooh w/ 26 jts 2 3/8" tbq to string float. Secure well SDFN.

**08/30/2005 07:00 - 08/30/2005 18:00**

**Last 24hr Summary**

SICP=640#.

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA.

BWD, TIH and tag no fill. Start air unit. Establish circulation w/ air. Unload hole @ 5675. ( Returned 2-3 bbl) Circulate clean. PUH to 4836' KB.

PJSM w/ logging crews. RU H&H wireline unit. MU and Rih w/ EOT locator. Find PBTD @ 5675'. Find EOT @ 4836'. Pooh. Mu Protechnics Completion Profile logging tools. Rih to 5625' Stop and record SBHP for 10 min.

Open well flowing up tbg to atmosphere w/ 1/4" choke @ surface. Pressures stabilized as follows: FTP= 540#, SICP= 590#. Log MV w/ 8 passes @ set speeds. 30,60,90,120 ft/min. Rih below perms. SWI and change out 1/4" choke for 1/2 " choke.

Open well flowing up tbg to atmosphere w/ 1/2" choke @ surface. Pressures stabilized as follows: FTP= 320#, SICP= 570#. Log MV w/ 8 passes @ same speeds as above.

SWI, Pooh and LD logging tools. Retrive data. Data was good. RD and release service companys.

Secure well SDFN.

**08/31/2005 06:00 - 08/31/2005 18:30**

**Last 24hr Summary**

COPC Quarterly safety mtg @ Road side. Drive to location. On location @ 09:30 am.

Held PJSM. Discussed days events and ways to prevent incident. Filled out and reviewed JSA.

SICP= 640#.

BWD, TIH and tag no fill. Start air unit. Establish circulation w/ air. Unload hole @ 5675. ( Returned 2-3 bbl) Circulate clean. PUH to 5507' KB. Open well flowing to atmosphere w/ 1/2" choke @ surface. Flow test MV for 4 hrs as follows:

MV perms 4935'- 5575'

2 3/8" tbg set @ 5507'

FTP= 290#

SICP= 570#

MV Prod= 1914 MCFPD

1 BOPD

2 BWPD

No sand. Test wit nessed by W. Shenefield w/ MVCI and G. Maez w/ Key Energy services. BWD.

Tooh w/ 175 jts. LD BHA, MU and tih w/ 3 7/8" 3 bladed junk mill, bit sub, and 181 jts 2 3/8" tbg. Tag w/ 8' fill. Establish circulation w/ air. Unload hole. C/o fill to CBP. RU power swivel. Drill out CBP @ 5675'. Tih w/ 1 jt to ensure plug is drilled. Tooh w/ 28 jts Secure well SDFN.

**09/01/2005 07:00 - 09/02/2005 18:00**

**Last 24hr Summary**

SICP=640#.

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA.

BWD, TIH w/ tbg and tag fill @ 7701'. RU swivel. Establish circulation w/ air mist. C/O fill from 7701' to PBTD of 7798'. Circulate clean. Start to POOH and tbg tongs broke. Make repairs to tbg tongs. Continue to Pooh standing back. MU and tih Drifting w/ 1/2 MS expendable ck, 1.81" FN and 150 jts 2 3/8" tbg. Secure well SDFN.

**09/02/2005 07:00 - 09/02/2005 16:00**

**Last 24hr Summary**

SICP=660#.

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA.

BWD, Continue to drift prod. tbg in hole. Tag w/ 15' fill @ 7778'. Establish circulation w/ air-mist. Unload hole, C/O fill from 7778' to Pbtd of 7797' KB.

Circulate clean remainder of day to unload DK formation fluid. Drop ball, pressure up w/ air to 795# and pump off expendable ck. Unload hole w/ air. Pooh w/ 14 jts 2 3/8" tbg. Secure well SDFN.

**09/03/2005 08:45 - 09/03/2005 18:00**

**Last 24hr Summary**

SICP=660#., SITP= 720#

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA.

Open well Flowing up tbg. PJSM w/ logging crews. RU H&H wire line. MU and Rih w/ EOT locator. Tag w/ no fill @ 7798'. Puh and find EOT @ 7440'. Pooh. Ru Protechnics memory Completion profile logging tools. Rih Below perms and record SBHP for 10 Min. PUH and found fluid level @ 7675'. Lower half of perms covered. Pooh w/ tools and RD wireline. Contacted Engineering and decided to Unload well and Re-log in the morning.

TIH w/ 14 jts 2 3/8" tbg. Tag no fill. Establish circulation w/ air. Circulate remainder of day. Pooh w/ 14 jts 2 3/8" tbg. Secure well SDFN.

09/07/2005 07:00 - 09/08/2005 18:00

## Last 24hr Summary

SICP=640#.

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA.

Bwd, Tih w/ 14 jts and tag no fill. Establish circulation w/ air. Unload well. ( returned 3-4 bbl). Pooh w/ 14 jts to 7439' KB.

PJSM w/ wireline and logging crews. RU H&amp;H wireline unit. RIH w/ EOT locator. Tag no fill. PUH and find EOT @ 7439' Pooh. RU Protechnics memory logging tools. RIH to 7780' Record SBHP for 15 min. Open well to flow to pit w/ 1/2" choke @ surface. Wait for flowing pressure to stabilize. FTP = 190 # , SICP= 625#. ( Fluid level @ 7670' ). Log DK interval w/ 8 passes @ set speeds. . Pooh and retrieve data. RD service companys.

BWD, Drift in hole w/ 7 jts. Ru hanger. Land well w/ 244 jts 2 3/8" tbg , 1.81" FN, and 1/2 MS re-entry guide, EOT @ 7668 KB. Top of FN @ 7666' KB. ND BOPE, NU Tbg master valve, Check Seals for leaks. RD equipment and unit. Purge air from tbg and csg. Checked w/ O2 monitor.

Prep to Move off Location. Turn over to Construction group to build facility.

FINAL REPORT.

DK PRODUCTION= 789 MSCF/D

4.25 BWPD

0 BOPD

TEST WITNESSED BY TYRONE DAYE W/ PROTECHNICS.

Well Name: San Juan 28-7 #188F  
 API #: 30-039-27297-00-X1  
 Location: 2100' FSL & 910' FWL  
Sec. 26 - T28N - R7W  
Rio Arriba County, NM  
 Elevation: 6647' GL (above MSL)  
 Drl Rig RKB: 13' above Ground Level  
 Datum: Drl Rig RKB = 13' above GL

Patterson Rig: #749  
 Spud: 20-Jun-05  
 Spud Time: 1:00  
 Date TD Reached: 28-Jun-05  
 Release Drl Rig: 29-Jun-05  
 Release Time: 4:00

**Surface Casing** Date set: 20-Jun-05  
 Size 9 5/8 in  
 Set at 232 ft # Jnts: 5  
 Wt. 32.3 ppf Grade H-40  
 Hole Size 12 1/4 in Conn STC  
 Excess Cmt 125 %  
 T.O.C. SURFACE Csg Shoe 232 ft  
 TD of 12-1/4" hole 240 ft

☒ New  
☐ Used

Notified BLM @ 9:00 hrs on 18-Jun-05  
 Notified NMOCD @ 9:00 hrs on 18-Jun-05

**Intermediate Casing** Date set: 25-Jun-05  
 Size 7 in 84 jts  
 Set at 3601 ft 0 pups  
 Wt. 20 ppf Grade J-55  
 Hole Size 8 3/4 in Conn STC  
 Excess Cmt 150 % Top of Float Collar 3563 ft  
 T.O.C. SURFACE Bottom of Casing Shoe 3601 ft  
 Pup @        ft TD of 8-3/4" Hole 3625 ft  
 Pup @        ft

☒ New  
☐ Used

Notified BLM @        hrs on         
 Notified NMOCD @        hrs on       

**Production Casing:** Date set: 28-Jun-05  
 Size 4 1/2 in 186 jts  
 Set at 7800 ft 2 pups  
 Wt. 11.6 ppf Grade N-80  
 Hole Size 6 1/4 in Conn LTC  
 Excess Cmt 50 % Top of Float Collar 7798 ft  
 T.O.C. (est) 3401 Bottom of Casing Shoe 7800 ft  
 Marker Jt @ 4870 ft TD of 8-3/4" Hole 7800 ft  
 Marker Jt @ 7462 ft  
 Marker Jt @        ft  
 Marker Jt @        ft

☒ New  
☐ Used

Notified BLM @        hrs on         
 Notified NMOCD @        hrs on       

Top of Float Collar 7798 ft  
 Bottom of Casing Shoe 7800 ft

TD of 8-3/4" Hole: 7800 ft

**Surface Cement**

Date cmt'd: 20-Jun-05  
 Lead : 150 sx Class G Cement  
 + 3% S001 Calcium Chloride  
 + 0.25 lb/sx D029 Cellophane Flakes  
 1.16 cuft/sx, 174.0 cuft slurry at 15.8 ppg  
 Displacement: 14.8 bbls fresh wtr  
 Bumped Plug at: 10:00 hrs w/ 500 psi  
 Final Circ Press:         
 Returns during job: YES  
 CMT Returns to surface: 10 bbls  
 Floats Held: No floats used  
 W.O.C. for 6.00 hrs (plug bump to start NU BOP)  
 W.O.C. for 12.00 hrs (plug bump to test csg)

**Intermediate Cement**

Date cmt'd: 25-Jun-05  
 Lead : 385 sx Class G Cement  
 + 0.25 lb/sx D029 Cellophane Flakes  
 + 3% D079 Extender  
 + 0.20% D046 Antifoam  
 + 10.00 lb/sx Phenoseal  
 2.72 cuft/sx, 1047.2 cuft slurry at 11.7 ppg  
 Tail : 215 sx 50/50 POZ : Class G Cement  
 + 0.25 lb/sx D029 Cellophane Flakes  
 + 2% D020 Bentonite  
 + 1.50 lb/sx D024 Gilsonite Extender  
 + 2% S001 Calcium Chloride  
 + 0.10% D046 Antifoam  
 + 6 lb/sx Phenoseal  
 1.31 cuft/sx, 281.65 cuft slurry at 13.5 ppg  
 Displacement: 145 bbls  
 Bumped Plug at: 6:30 hrs w/ 1500 psi  
 Final Circ Press:         
 Returns during job: YES  
 CMT Returns to surface: 20 bbls  
 Floats Held: X Yes   No  
 W.O.C. for NA hrs (plug bump to start NU BOP)  
 W.O.C. for 12.50 hrs (plug bump to test csg)

**Production Cement**

Date cmt'd: 28-Jun-05  
 Cement : 470 sx 50/50 POZ : Class G Cement  
 + 0.25 lb/sx D029 Cellophane Flakes  
 + 3% D020 Bentonite  
 + 1.00 lb/sx D024 Gilsonite Extender  
 + 0.25% D167 Fluid Loss  
 + 0.15% D065 Dispersant  
 + 0.10% D800 Retarder  
 + 0.10% D046 Antifoam  
 + 3.5 lb/sx Phenoseal  
 1.45 cuft/sx, 674.25 cuft slurry at 13.0 ppg  
 Displacement: 120.9 bbls  
 Bumped Plug: 19:37 hrs w/ 2700 psi  
 Final Circ Press: 1500 psi @ 1.7 bpm  
 Returns during job: None Planned  
 CMT Returns to surface: None Planned  
 Floats Held: X Yes   No

Schematic prepared by:  
 Michael P. Neuschafer, Drilling Engineer  
 29-June-2005

**COMMENTS:**

9-5/8" Surf:	No float equipment was run. Ran a guide shoe and an aluminum baffle plate 1 jt above the guide shoe @ 175'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 220', 175', 137', 94'.	Total: 4
7" Intermediate	DISPLACED W/ 145 BBLs. FRESH WATER. CENTRALIZERS @ 3519', 3432', 3346', 3260', 3173', 3087', 213', 84', 41'. TURBOLIZERS @ 2660', 2618', 2575', 2533', 2490'.	Total: 9
4-1/2" Prod.	NONE.	Total: 5