

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, WL3-6081 Houston Tx 77252

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

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

At Surface Sec 33 T28N R7W NESE 1715FSL 670FEL

At top prod. interval reported below

At total depth

14. Date Spudded
01/03/2005

15. Date T.D. Reached
01/19/2005

16. Date Completed
☐ D & A ☒ Ready to Prod.
5-20-05

18. Total Depth: MD 7722
TVD

19. Plug Back T.D.: MD 7707
TVD

20. Depth Bridge Plug Set: MD
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	9.625 H40	32.3	0	232		200		0	
8.75	7 J-55	20	0	3514		570		0	
6.25	4.5 N-80	11.6	0	7722		460		2450	

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	7596							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Cliffhouse	4861	4983	4861 - 4983	.34	55	Open
B) Menefee	5135	5376	5135 - 5376	.34	44	Open
C) Pt. Lookout	5462	5569	5462 - 5569	.34	55	Open
D)						

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

Depth Interval	Amount and Type of Material
4861' - 4983'	Frac'd w/65Q Slickfoam w/1g/mg FR; 100,000# 20/40 Brady Sand; 1,158,100 SCF N2 & 1042 bbls fluid.
5135' - 5376'	Frac'd w/65Q Slickfoam w/1 g/mg FR; 100,000# 20/40 Brady Sand; 1,330,700 SCF N2 & 990 bbls fluid.
5462' - 5569'	Frac'd w/65Q Slickfoam w/1 G/MG FR; 125,000# 20/40 Brady Sand; 1,427,100 SCF N2 & 1345 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
05/20/05	05/16/05	24	➔	1	1320	5			Flows from Well
Choice Size	Tbg. Press. Flwg. SI	Csg. Press. N/A	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
1/2		200	➔					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	JUN 07 2005
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate ➔	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	FARMINGTON FIELD OFFICE BY <u> </u>	

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

ACCEPTED FOR RECORD

JUN 07 2005

FARMINGTON FIELD OFFICE
BY *JB*

NMSF078498

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	987
				Kirtland	2480
				Fruitland	2982
				Pictured Cliffs	3211
				Cliffhouse TS	4862
				Menefee	4995
				Pt Lookout	5448
				Gallup	6694
				Greenhorn	7361
				TWLS	7452
				Cubero	7586

32. Additional remarks (include plugging procedure):

This well is a downhole commingled well producing from the Blanco Mesaverde and Basin Dakota. Well Schematic and Daily Summary report 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 GustartisTitle Regulatory AnalystSignature Chris GustartisDate 05/31/2005

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.

2005 5 0 MUC

BUREAU OF LAND MANAGEMENT

CUBERO

CUBERO

Initial Completion, 01/27/2005 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
300392703200	RIO ARRIBA	NEW MEXICO	NMPM-28N-07W-33-I	1,715.00	S	670.00	E
Ground Elevation (ft)	Latitude (DMS)	Longitude (DMS)	Spud Date	Rig Release Date			
6,629.00	36° 36' 55.3788" N	107° 34' 17.31" W	01/03/2005	01/21/2005			

01/27/2005 08:00 - 01/27/2005 16:00

Last 24hr Summary

HELD PRE-JOB SAFETY MEETING. RU SCHLUMBERGER. PRESSURED UP CSG TO 1500 #. RAN CBL LOG FROM 7692' TO 2200'. TOP OF CEMENT @ 2450'. RAN RST LOG FROM 7692' TO 2200'. RAN GR/CCL LOG FROM 7692' TO SURFACE. RD SCHLUMBERGER.

01/30/2005 11:00 - 01/30/2005 14:00

Last 24hr Summary

HELD PRE-JOB SAFETY MEETING. RU ISOLATION TOOL. TESTED 4 1/2" CSG TO 6700 # FOR 30 MIN. HELD OK. RD ISOLATION TOOL. SWI.

02/01/2005 06:00 - 02/01/2005 12:00

Last 24hr Summary

HELD PRE-JOB SAFETY MEETING. RU BLUE JET. RAN GSL LOG FROM 6000' TO 4000'. SWI. RD BLUE JET.

03/19/2005 08:00 - 03/19/2005 12:00

Last 24hr Summary

HELD PRE-JOB SAFETY MEETING. RU COMPUTALOG. RAN PND LOG FROM 6000' TO 4000'. SWI. RD COMPUTALOG.

03/23/2005 12:00 - 03/23/2005 18:00

Last 24hr Summary

HELD SAFETY MEETING. RU BLUE JET. PERFORATED THE DAKOTA. RIH W/ 3 1/8" 120 DEGREE PP SELECT FIRE PERFORATING GUN. PERFORATED FROM 7468' - 7470' W/ 2 SPF, 7487' - 7494' W/ 2 SPF, 7588' - 7607' W/ 2 SPF, 7619' - 7621' W/ 2 SPF, 7651' - 7654' W/ 2 SPF, 7662' - 7668' W/ 2 SPF. A TOTAL OF 78 HOLES @ 0.34 DIA. RD BLUE JET. RU SCHLUMBERGER. FRAC'D THE DAKOTA. TESTED LINES TO 6000 #. SET POP OFF @ 4500 #. BROKE DOWN FORMATION @ 4 BPM @ 2249 #. PUMPED PRE PAD @ 41 BPM @ 3110 #. STEPPED DOWN RATE TO 30 BPM @ 2429 #. STEPPED DOWN RATE TO 20 BPM @ 2068 #. STEPPED DOWN RATE TO 10 BPM @ 1804 #. ISIP 1566 #. 5 MIN 1125 #. 10 MIN 942 #. 15 MIN 789 #. 20 MIN 638 #. 25 MIN 510 #. 30 MIN 392 #. PUMPED 1000 GALS OF 15% HCL ACID @ 6 BPM @ 1265 #. FRAC'D THE DAKOTA W/ SLICKWATER @ 1.25 g/mg FR, 40,000 # 20/40 CARBOLITE SAND & 4077 BBLS FLUID. AVG RATE 53 BPM. AVG PRESSURE 3174 #. MAX PRESSURE 3323 #. MAX SAND CONS .40 # PER GAL. ISIP 2060 #. FRAC GRADIENT .65. SWI. RD SCHLUMBERGER.

03/29/2005 08:00 - 03/29/2005 13:00

Last 24hr Summary

HELD SAFETY MEETING. RU BLUE JET. RIH W/ 4 1/2" COMPOSITE PLUG. SET PLUG @ 5669'. TESTED PLUG TO 4800 #. HELD OK. PERFORATED THE POINT LOOKOUT W/ 3 1/8" 90 DEGREE SELECT FIRE PERFORATING GUN. PERFORATED FROM 5462' - 5471' W/ 1 SPF, 5478' - 5488' W/ 1 SPF, 5498' - 5514' W/ 1 SPF, 5522' - 5532' W/ 1 SPF, 5564' - 5569' W/ 1 SPF. A TOTAL OF 55 HOLES W/ 0.34 DIA. SWI. RD BLUE JET.

04/04/2005 06:00 - 04/04/2005 12:00

Last 24hr Summary

HELD SAFETY MEETING. RU SCHLUMBERGER. FRAC'D THE POINT LOOKOUT. TESTED LINES TO 5000 #. SET POP OFF @ 4500 #. BROK DOWN FORMATION @ 5 BPM @ 2703 #. PUMPED PRE PAD @ 32 BPM @ 195 #. STEPPED DOWN RATE TO 29 BPM @ 0 #. ISIP 0 #. PUMPED 1000 GALS OF 15% HCL ACID @ 8 BPM @ 0 #. FRAC'D THE POINT LOOKOUT W/ 65 Q SLICK FOAM W/ 1 G/MG FR, 125,000 # OF 20/40 BRADY SAND AND TREATED THE LAST 15% OF TOTAL PROPPANT VOLUME WITH PROPNET FOR PROPPANT FLOWBACK CONTROL. 1,427,100 SCF N2 & 1345 BBLS FLUID. AVG RATE 45 BPM. AVG PRISURE 1754 #. MAX PRESSURE 1927 #. MAX SAND CONS 1.5 # PER GAL. ISIP 1134 #. FRAC GRADIENT .44. SWI. RD SCHLUMBERGER. START FLOWBACK.

04/09/2005 08:00 - 04/09/2005 13:00

Last 24hr Summary

HELD SAFETY MEETING. RU BLUE JET. RIH W/ 4 1/2" COMPOSITE PLUG. SET PLUG @ 5400'. TESTED PLUG TO 4800 #. HELD OK. PERFORATED THE MENEFEE W/ 3 1/8" 90 DEGREE SELECT FIRE PERFORATING GUN. PERFORATED FROM 5135' - 5141' W/ 1/2 SPF, 5152' - 5162' W/ 1/2 SPF, 5173' - 5179' W/ 1/2 SPF, 5193' - 5207' W/ 1/2 SPF, 5227' - 5231' W/ 1/2 SPF, 5284' - 5290' W/ 1/2 SPF, 5348' - 5376' W/ 1.2 SPF. A TOTAL OF 44 HOLES W/ 0.34 DIA. SWI. RD BLUE JET.

04/13/2005 06:00 - 04/13/2005 13:00

Last 24hr Summary

HELD SAFETY MEETING. RU SCHLUMBERGER. FRAC'D THE MEN. TESTED LINES TO 5000 #. SET POP OFF @ 4500 #. BROK DOWN FORMATION @ 6 BPM @ 2153 #. PUMPED PRE PAD @ 31 BPM @ 1455 #. STEPPED DOWN RATE TO 25 BPM @ 1153 #. STEPPED DOWN RATE TO 20 BPM @ 990 #. STEPPED DOWN RATE TO 15 BPM @ 874 #. STEPPED DOWN RATE TO 10 BPM @ 786 #. ISIP 694 #. 5 MIN 598. 10 MIN 585. 15 MIN 573. 20 MIN 562. 25 MIN 549. 30 MIN 541. PUMPED 1000 GALS OF 15% HCL ACID @ 6 BPM @ 645 #. FRAC'D THE MEN W/ 65 Q SLICK FOAM W/ 1 G/MG FR, 100,000 # OF 20/40 BRADY SAND AND TREATED THE LAST 15% OF TOTAL PROPPANT VOLUME WITH PROPNET FOR PROPPANT FLOWBACK CONTROL. 1,330,700 SCF N2 & 990 BBLS FLUID. AVG RATE 45 BPM. AVG PRISURE 2819 #. MAX PRESSURE 2981 #. MAX SAND CONS 1.5 # PER GAL. ISIP 2059 #. FRAC GRADIENT .57. RAN 3 ISOTOPE. RAN SCADIUM IN PAD. RAN IRRIDIUM IN THE .50 # & 1.50 #. RAN ANTIMONY IN THE 1.50 # W/ PN. SWI. RD SCHLUMBERGER. START FLOWBACK.

04/19/2005 00:00 - 04/19/2005 13:00

Last 24hr Summary

Held safety meeting. RU Blue Jet. RIH w/ 4 1/2" composite plug. Set plug @ 5015'. Tested plug to 4800 #. Held ok. Perforated the Mesaverde w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 4861' - 4865' w/ 1 spf, 4884' - 4893' w/ 1 spf, 4906' - 4909' w/ 1 spf, 4921' - 4925' w/ 1 spf, 4936' - 4946' w 1 spf, 4964' - 4983 w/ 1 spf. A total of 55 holes w/ 0.34 dia. RD Blue Jet. RU Schlumberger. Frac'd the Cliffhouse. Tested lines to 6000 #. Set pop off @ 4500 #. Broke down formation @ 5 bpm @ 3410 #. Pumped pre pad @ 31 bpm @ 1325 #. Stepped down rate to 25 bpm @ 1065 #. Stepped down rate to 20 bpm @ 846 #. Stepped down rate to 15 bpm @ 696 #. Stepped down rate to 10 bpm @ 483 #. ISIP 205 #. 5 min. 0 #. Pumped 1000 gals of 15% HCL acid @ 5 bpm @ 292 #. Frac'd the Cliffhouse w/ 65 Q slick foam w/ 1 g/mg FR, 100,000 # 20/40 Brady sand, Treated the last 15% of proppant volume with Propnet for proppant flowback control, 1,158,100 SCF N2 & 1042 bbls fluid. Avg rate 45 bpm. Avg pressure 2623 #. Max pressure 3490 #. Max sand cons 1.50 # per gal. ISIP 2405 #. Frac gradient .48. SWI. RD Schlumberger. Started flowback.

05/10/2005 09:00 - 05/10/2005 17:00

Last 24hr Summary

SICP= 460#.

Held PJSM. Discussed days events and ways to prevent incident. Filled out and reviewed JSA. Load equipment on SJ 29-5 #45M. Road unit and equipment to SJ 28-7# 191F. 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 tbg. tools. Secure well SDFN.

05/11/2005 07:00 - 05/11/2005 17:00

Last 24hr Summary

SICP= 720#.

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA. BWD. Kill csg. Pooh w/ hanger. Mu and TIH picking up w/ 3 7/8" mill, bit sub and 147 jts 2 3/8" tbg. Tag fill @ 4588'. (427' fill to CBP). Start to unload hole w/ air and air unit broke down. Repair unit. Unload hole and c/o fill from 4588' to 5015'. Circulate clean. Pooh w/ 8 jts 2 3/8" tbg. Secure well SDFN.

05/12/2005 07:00 - 05/12/2005 17:00

Last 24hr Summary

SICP= 400#.

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA. BWD. Tih w/ 8 jts tbg. Tag fill @ 5005'. Break circulation w/ air. Unload hole and c/o 10' to CBP. PUH to 4920'. (MP @ 4922'). Open well flowing up backside w/ 1/2" choke @ surface. Flow test CH zone 4 hrs for Engineering purposes. (THIS TEST NOT FOR MV ALLOCATION.)

CH perfs 4861'- 4983'

SITP= N/A

FCP= 40#

CH production= 264 MCFPD

1 BWPD

0 BOPD

No sand

Tih and tag fill @ 5013'. (2' fill). RU swivel. Break circulation w/ air. Drill out CBP @ 5015'. Continue to tih and tag fill @ 5205'. (171' Menefee pay covered). Break circulation w/ air. unload hole. C/O fill from 5205' to CBP @ 5400'. Circulate clean. Pooh w/ 22 jts 2 3/8" tbg. Secure well SDFN.

05/13/2005 07:00 - 05/14/2005 18:30

Last 24hr Summary

SICP= 440#

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA. BWD. Tih w/ 21 jts 2 3/8" tbg. Tag fill @ 5347'. Break circulation w/ air mist. Unload hole and C/O fill to CBP @ 5400'. Circulate clean. PUH to MP @ 5255'. Open well flowing up backside to atmosphere w/ 1/2" choke @ surface. Pressure fell from 100# to 40# in 3 hrs. Well may be logging off. Contacted Engineering. Decided to unload and re-test zones. Tih and unload hole @ 5396'. Circulate clean. PUH to 5290' Flow test MEN/CH zones for Engineering purposes only. (NOT FOR MESA VERDE ALLOCATION). Test is as follows. CH perfs- 4861'- 4983'

MEN perfs- 5135'- 5376'

2 3/8" tbg set @ 5290'.

SITP= n/a

FCP= 50#

MEN/CH production= 330 MCFPD

1 BOPD

3 BWPD

no sand.

Pooh w/ 20 jts 2 3/8" tbg.

Secure well SDFN.

05/16/2005 07:00 - 05/17/2005 18:00

Last 24hr Summary

SICP= 400#

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

BWD. Tih w/ 20 jts 2 3/8" tbg. Tag fill @ 5390'. Break circulation w/ air. Unload hole. C/O fill from 5390' to CBP @ 5400'. RU swivel. Drill out CBP. Continue to tih w/ 4 jts and tag fill @ 5523'. Ru swivel. C/O fill from 5523' to CBP @ 5669'. Circulate clean. PUH to 5533'. Open well flow up csg. for 4 hrs to atmosphere w/ 1/2" choke @ surface. (TEST MV FOR ALLOCATION). Test is as follows.

CH perfs- 4861'- 4983'

MEN perfs- 5135'- 5376'

PLO perfs- 5462'- 5569'

2 3/8" tbg set @ 5533'.

SITP= n/a

FCP= 200#

MV production= 1320 mcfpd

1 BOPD

5 BWPD

no sand

Test witnessed by G.Maez w/ Key Energy Services.

Pooh w/ 25 jts 2 3/8" tbg. Secure well SDFN.

05/17/2005 07:00 - 05/18/2005 17:00

Last 24hr Summary

SICP= 540#

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

BWD, Tooh w/ 156 jts 2 3/8" tbg. LD mill. Mu and tih w/ MS collar, 1.81" FN, and 181 jts 2 3/8" tbg. Tag w/ 9' fill @ 5660'. Break circulation w/ air mist. Unload hole. c/o fill to CBP @ 5669'. Circulate clean. Pooh w/ 5 jts to 5533'.

Flow test MV formation up to bg to atmosphere w/ 1/2" choke @ surface.

(FOR ENGINEERING PURPOSES ONLY)

Test is as follows:

MV perfs- 4861'- 5569'

2 3/8" tbg set @ 5533'.

SICP= 430#

FTP= 130#

(Choke coefficient of 6.6)

1 BOPD

5 BWPD

no sand

Secure well. SDFN.

05/18/2005 07:00 - 05/19/2005 18:00

Last 24hr Summary

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

SICP= 540#. SITP= 530#

BWD, Break circulation w/ air. Unload hole @ 5533'. Circulate clean. PUH to 4771'. (90' above top MV perf.) PJSM w/ Protechnics and H&H wireline. RU wireline. RIH w/ EOT locator. Tag w/ no fill @ 5670'. PUH and find EOT @ 4771'. Pooh. Ru Protechnics memory Production logging tools & Spectra scan w/ temp/psi probes and fluid gradient. RIH to 4810' and get SBHP. RIH below perms. Open well flowing up tbg w/ 1/2" choke @ surface. Wait for pressure to stabilize - FTP=137#, SICP= 500#. Log MV interval w/ 6 passes @ varied speeds. Run Spectra scan in Menefee. Pooh w/ tools. LD and retrieve data. Release service companys. BWD, Tooh w/ 152 jts 2 3/8" tbg. Mu and tih w/ 3 7/8" mill, bit sub and 152 jts 2 3/8" tbg. Secure well and SDFN.

05/19/2005 07:00 - 05/20/2005 19:00

Last 24hr Summary

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

SICP= 520#

BWD, Tih w/ 30 jts 2 3/8" tbg and tag fill @ 5649'. RU power swivel. C/O fill to CBP and drill out plug. LD swivel Continue to tih and tag fill @ 7566'. Break circulation w/ air. Unload hole and C/O fill to PBD of 7707'. Circulate clean. Pooh w/ 246 jts 2 3/8" tbg. LD mill, MU and tih drifting every jt w/ 2 3/8" 1/2 MS expendable ck, 1.81" FN and 246 jts 2 3/8" tbg. Tag fill @ 7685'. Break circulation w/ air. Unload hole and c/o fill to pbtd of 7707'. Pooh w/ 20 jts 2 3/8" tbg. Secure well SDFN.

05/20/2005 07:00 - 05/21/2005 18:00

Last 24hr Summary

SICP= 595#

PJSM w/ crews. Discussed days events and ways to prevent incident. Filled out and reviewed JSA. Tih w/ 20 jts and tag w/ 5' fill @ 7702'. Break circulation w/ air mist. Unload hole and c/o fill. Circulate clean. PUH to 7368'. Pump off ck @ 780#. Unload hole. S/D air. Open well flowing up tbg w/ no choke @ surface, to unload fluid. PJSM w/ H&H wireline & Protechnics. 2 3/8" tbg set @ 7368' (100' above top DK perf.) SWI, RU H&H SL unit. Mu and Rih w/ EOT locator. Tagged PBTD @ 7707'. (no fill). PooH and find EOT @ 7368' SLM. PooH. MU and Rih w/ Protechnics completion profile logging tools. Stop 50' above top DK perf. Get static BHP. Rih below perfs. Open well flowing to pit w/ 1/2" choke @ surface. Wait for pressures to stabilize. Pressures are : FTP= 120#, SICP= 540#. Log DK w/ 6 passes @ various speeds. PooH and LD tools. Retrieve data. RD SL unit.

DK Production= 820 mcfpd

BWPD= 2.8

BOPD= 0

TIH drifting and tag fill @ 7706'. Establish circulation w/ air. unload hole and c/o fill to PBTD of 7707'. Circulate clean. Pooh w/ 4 jts. Ru hanger and land well w/ EOT @ 7596' kb w/ tbg string as follows: 1/2 MS re-entry guide, 1.81" FN, 242 jts 2 3/8" j-55 tbg. All w/ slim hole collars. ND bope, NU tbg. master valve. RD unit and equipment. Prep to MOLOC. Turn over to construction group to build facility.



Well Name: San Juan 28-7 # 191F
 API #: 30-039-27032-00-X1
 Location: 1715' FSL & 670' FEL
Sec. 33 - T28N - R7W
Rio Arriba County, NM
 Elevation: 6629' GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

Spud: 3-Jan-05
 Spud Time: 18:30
 Date TD Reached: 19-Jan-05
 Release Drl Rig: 21-Jan-05
 Release Time: _____

11" 3M x 7 1/16" 5M Tubing Head
 11" 3M x 11" 3M Casing Spool
 9-5/8" 8 RD x 11" 3M Casing Head

Surface Casing Date set: 6-Jan-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 229 ft
 TD of 12-1/4" hole 232 ft

☒ New
☐ Used

Notified BLM @ 14:00 hrs on 02-Jan-05
 Notified NMOCD @ 14:00 hrs on 02-Jan-05

Intermediate Casing Date set: 14-Jan-05
 Size 7 in 83 jts
 Set at 3514 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 150 %
 T.O.C. SURFACE Top of Float Collar 3470 ft
 Bottom of Casing Shoe 3514 ft
 Pup @ _____ ft TD of 8-3/4" Hole 3535 ft
 Pup @ _____ ft

☒ New
☐ Used

Notified BLM @ _____ hrs on _____
 Notified NMOCD @ _____ hrs on _____

Production Casing: Date set: 20-Jan-05
 Size 4 1/2 in 181 jts
 Set at 7722 ft 3 pups
 Wt. 11.6 ppf Grade N-80
 Hole Size 6 1/4 in Conn LTC
 Excess Cmt 50 %
 T.O.C. (est) _____ Top of Float Collar 7721 ft
 Bottom of Casing Shoe 7722 ft
 Marker Jt @ 7339 ft TD of 8-3/4" Hole 7722 ft
 Marker Jt @ 4736 ft
 Marker Jt @ 4673 ft

☒ New
☐ Used

Notified BLM @ _____ hrs on _____
 Notified NMOCD @ _____ hrs on _____

Top of Float Collar 7721 ft
 Bottom of Casing Shoe 7722 ft

TD of 8-3/4" Hole: 7722 ft

SurfaceCement

Date cmt'd: 6-Jan-05
 Lead : 200 sx Class B Cement
 + 3% Calcium Chloride
 + 0.25 lb/sx Flocale
 1.18 cuft/sx, 236.0 cuft slurry at 15.6 ppg
 Displacement: 15.0 bbls fresh wtr
 Bumped Plug at: 21:15 hrs w/ 350 psi
 Final Circ Press: 210 psi @ 2.0 bpm
 Returns during job: YES
 CMT Returns to surface: 17.5 bbls
 Floats Held: No floats used
 W.O.C. for 7.75 hrs (plug bump to start NU BOP)
 W.O.C. for 18.50 hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: 14-Jan-05
 Lead : 360 sx Standard Cement
 + 3% Econolite
 + 10.00 lb/sx Phenoseal
 2.88cuft/sx, 1036.8 cuft slurry at 11.5 ppg
 Tail : 210 sx 50/50 POZ : Cement
 + 2% Bentonite
 + 6 lb/sx Phenoseal
 1.33 cuft/sx, 279.3 cuft slurry at 13.5 ppg
 Displacement: 140 bbls
 Bumped Plug at: 11:30 hrs w/ 1700 psi
 Final Circ Press: 1200 psi @ 2 bpm
 Returns during job: YES
 CMT Returns to surface: 37 bbls
 Floats Held: Yes X No
 W.O.C. for 8.00 hrs (plug bump to start NU BOP)
 W.O.C. for 32.00 hrs (plug bump to test csg)

Production Cement

Date cmt'd: 20-Jan-05
 Cement : 460 sx 50/50 POZ : Cement
 + 3% Bentonite Gel
 + 3.5 lb/sx Phenoseal
 + 0.20% CFR-3
 + 0.80% Halad®-9
 + 0.1% HR-5
 1.45 cuft/sx, 667.0 cuft slurry at 13.1 ppg
 Displacement: 119.7 bbls
 Bumped Plug: 03:39hrs w/ 2200 psi
 Final Circ Press: 1200 psi @ 2.0 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
 21-January-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 @ 185'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 219', 186', 142', 100'.	Total: 4
7" Intermediate	DISPLACED W/ 140 BBLs. DRILL WATER. CENTRALIZERS @ 3500', 3469', 3383', 3296', 3210', 216', 130', 87'. TURBOLIZERS @ 2520', 2480', 2437', 2394', 2350'.	Total: 8
4-1/2" Prod.	NONE.	Total: 5