

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. Resrv. ☐ 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 28 T28N R7W SWSW 915FSL 1170FWL

At top prod. interval reported below

At total depth

14. Date Spudded

05/07/1973

15. Date T.D. Reached

05/19/1973

16. Date Completed

☐ D & A ☒ Ready to Prod.  
09/22/200518. Total Depth: MD 7798  
TVD19. Plug Back T.D.: MD 7400  
TVD20. Depth Bridge Plug Set: MD 7450  
TVD

21. Type of Electric &amp; Other Mechanical Logs Run (Submit copy of each)

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 HE	32.75	0	222		225		0	
8.75	7 KS	20	0	3650		270		0	
6.25	4.25 KS	11.6&10.50		7798		649		0	

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	5633							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Blanco Mesaverde	4951'	5637'	4951' - 5036'	.34	29	Open
B)			5519' - 5637'	.34	36	Open
C)						
D)						

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

Depth Interval	Amount and Type of Material
4951' - 5036'	Frac'd w/60 Q Slickfoam w/1g/mg FR; 100,000# 20/40 BradySand; 1,204,500 SCF N2 & 1237 bbls fluid.
5519' - 5637'	Frac'd w/60 Q Slickfoam w/1g/mg FR; 125,000# 20/40 BradySand; 1,285,600 SCF N2 & 1661 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
9/22/05	9/21/05	24	→	0	1452	Trace			Flowing from
Choice Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
1/2	0	220	→					Gas Shut In	

## 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)

5. Lease Serial No.  
NMSF078498

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

8. Lease Name and Well No.

San Juan 28-7 Unit 193

9. API Well No.

30-039-20624 S2

10. Field and Pool, or Exploratory

Blanco Mesaverde

11. Sec., T., R., M., on Block and Survey or Area Sec 28 T28N R7W

12. County or Parish

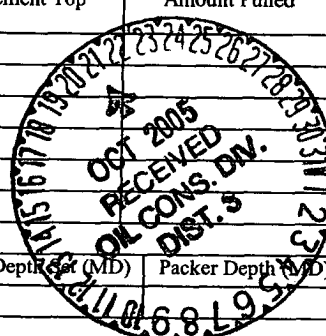
Rio Arriba

13. State

NM

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

6691'GR



ACCEPTED FOR RECORD

OCT 18 2005

FARMINGTON FIELD OFFICE

BY

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.)

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
				Pictured Cliffs	No
				Mesaverde	4931
				Point Lookout	5573
				Gallup	6564
				Greenhorn	7432
				Graneros	7488
				Dakota	7650

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

Recompletion to the Blanco Mesaverde. Permanent bridge plug was set @ 7450' with 50' cement on top. Basin Dakota formation has been permanently plugged. This is now a single well producing from the Blanco Mesaverde. 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 SpecialistSignature Chris GustartisDate 10/11/2005

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.

**Re-Completion, 07/20/2005 13:30**

API/Bottom UWI	County	State/Province	Surface Legal Location	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
300392062400	RIO ARRIBA	NEW MEXICO	NMPM-28N-7W-28-M	915.00		1,170.00	W
Ground Elevation (ft)		Latitude (DMS)		Longitude (DMS)		Spud Date	
6,691.00		36° 37' 38.64" N		107° 34' 58.44" W		05/07/1973	
						Rig Release Date	

**07/20/2005 00:00 - 07/20/2005 17:00**

**Last 24hr Summary**

Move in Rig up Service Unit; Held meeting w/ rig crew & drivers; Discussed possible hazards & ways to avoid them (Move in rig up; Spotting equipment; checking pressures; LO/TO; Extreme heat). LO/TO; Check Pressures: Casing 810 psi, Tubing 350 psi (blew down to nothing in one min). Spot & rig up all equipment; Raise & guide the derrick; Secure well; SIFN.

**07/21/2005 00:00 - 07/21/2005 12:00**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (rig up; Spotting equipment; checking pressures; Extreme heat; Test BOP's; Tripping). Continue rigging up; lay out flowback line; Spot pipe trailer; Spot anchor blocks over line. ND wellhead; insert BPV in tubing hanger; NU BOP's. Accumulator engine won't start; Call for mechanic; Release Wood Group hand, leave BPV in place. Still no mechanic; Call in BLM notifications requesting contact person; 1-Call inspector checks pit placement. Key cannot find a mechanic; Secure well; lock rams; SIFN; release crew.

**07/22/2005 00:00 - 07/22/2005 18:45**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (checking pressures; Extreme heat; Test BOP's; Tripping). Repair BOP Accumulator.

Test BOP's. Blinds 300 low, 1800 psi high (repair door gasket)

Pipes 225 low, 1850 psi high (replace ram blocks)

All Good, File chart. NU BPV Lubricator; Lube out BPV; ND Lube; Load up well head & hanger; release Wood Group. POOH w/ 240 joints 2 3/8" & BHA. Inspect & Tally, standing back. Secure well; Lock rams; SIFN. Service rig (change oil, & check all fluids & filters).

**07/25/2005 00:00 - 07/25/2005 17:30**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (checking pressures; heat; Tripping; Wireline - dump bailing & logging; Pressure testing). Blow down casing pressure: 270 psi. LD 2 joints; Make up tools; TIH 118 stands w/EZSV CIBP & mechanical setting tool. Set @ 7450' & roll hole w/2% KCL (110 bbl). Pressure test casing to 500 psi - very slow leak - Air? TOH. Dump Bail 50' cement on top of CIBP; 3 Runs. RIH w/ Acoustic Bond Log - Top of Cement @ 4200 +/- . Rig down wireline unit; fill hole w/ 10-12 bbl; attempt to pressure test to 1000 psi - leaking, lost 500 psi/2 minutes. Not able to isolate from surface, will hunt hole in a.m. w/ packer. Secure well; Lock rams; SIFN.

**07/26/2005 00:00 - 07/26/2005 18:45**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (checking pressures; heat; Tripping; Hunting holes; Pressure testing). Fire up rig & pump skid; Open well (0 psi). Load hole & test to 1000 psi - leaking off. PU RTTS & TIH; hunt for leak; Casing from 3922' to 7400' tested to 2200 psi; casing from 3890' back to surface tested to 1200 psi. Leak established @ 3890' - 3922'; Pressure up to 2200 psi, leaks off to zero in 1 minute. attempted to break it down, but holding steady @ 2000 psi/min. leak off w/o injection rate. Call Houston. WOO; Plan to spot 4-5 bbl cement across leak, Pull up & squeeze; Call water; Call cement; Call BLM. Release RTTS & TOH. Wait on RBP. TIH w/ 4 1/2" BV RBP. Set RBP @ 4045'; dump 1 sack sand (10'). Secure well; Lock Rams; SIFN.

**07/27/2005 00:00 - 07/27/2005 18:45**

**Last 24hr Summary**

Quarterly General Safety Meeting @ Best Western - Safety topic: Heat stroke/exhaustion. Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (checking pressures; heat; Tripping; Squeezing; Pressure testing). TOH w/ RBP overshot; LD & PU mule shoe; TIH open-ended. EOT @ 3921'; RU cement crew. Test pumps & lines to 4000 psi; break circulation (took 12 bbl); Injection @ 1/2 bpm, 1250 psi. Call for more cement. Injection @ 3/4 bpm, 1500 psi. TOH w/ tubing; PU 4 1/2 EZSV retainer; TIH. Set EZSV @ 3790'; wait on bulk cement to arrive. Hook up cement & mix & pump 130 sacks - 3/4 BPM @ 1400 - 900 psi. (27 bbl slurry). Sting out w/ 300 psi & reverse 2 bbl slurry to the pit. Pull 15 stands; Secure well; SIFN; Wash up/rack up cement equipment; Hold post-job JSA. Wait on Cement

**07/28/2005 00:00 - 07/28/2005 18:45**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (checking pressures; heat; Tripping; Pressure testing). Check Pressures: casing 0 psi; 7" Intermediate on slight suck. Continue out w/ EZSV setting tool; LD tool. Load hole to full up; pressure up to 2200; take to 2700 w/ test pump; Hold 2700 psi - Good. Secure testing equipment; PU 3 7/8" cone bit & bit sub. TIH w/ bit; LD 6 joints; run 3 stands; PU power swivel on single; set doors in pit; circulate bottoms up. Secure well; Load tools; Lock rams; SIFN; WOC.

**07/29/2005 00:00 - 07/29/2005 18:45**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (checking pressures; heat; Drilling; Pressure testing). Mix Anhib (packer fluid/inhibitor) @ 1 1/4 gal/10bbl & roll into pit. Load 7" annulus w/ 30 bbl of inhibited water. Re-fill pit w/ 2% KCL water. Drill out EZSV retainer. Drill out Cement. Broke through cement, add 1 joint; Circulate clean; Remove swivel & install TIW valve. Work casing pressure up to 2400 psi - held good for ten minutes. Secure well; Lock rams; SIFN.

**08/01/2005 00:00 - 08/01/2005 17:00**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (checking pressures; heat; Tripping; Pressure testing). Start circulating; Drill down on RBP; Circulate sand off. TOH w/ bit. TIH w/ overshot for RBP. Wash down & release RBP. TOH w/ RBP; Lay down tools. Rig up Wood Group pressure testing unit & work the air out of casing. Test casing to 3000 psi for 30 min & chart - Good. Release pressure & rig down Wood Group. MU Scraper & TIH w/ all tubing; Lay down 8 joints. Secure well; Lock rams; SIFN.

**08/02/2005 00:00 - 08/02/2005 18:00**

**Last 24hr Summary**

Monthly Key Safety meeting; Take 5th hand; Drive to location. Held meeting w/ rig crew; discussed possible hazards & ways to avoid them (heat; Laying down pipe; Rigging down). TOH, laying down all tubing (240 joints); Circulate clean 2% KCL @5800'; Dawn begins to haul off water to Basin. ND BOP's; NU Wellhead; Rack up all flowlines/iron; Load power swivel in crew truck; drain pit. Secure well; check valves; SIFN.

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

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (heat; Rigging down; Moving rig). Lay down derrick; Secure all equipment for transport; Pick up trash; Pul LO/TO; inspect rig, pre-trip. Head out; Pick up rig signs; take rig down Gould's Pass; Leave rig @ wash rack in Bloomfield, prior to going to the Key Yard for rig repairs. Well file still open for Frac (Aug. 20th?) and cleanout.

**08/14/2005 10:00 - 08/14/2005 14:00**

**Last 24hr Summary**

Held safety meeting. RU Computalog. Perforated the Point Lookout w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 5519' - 5533' w/ 1/2 spf, 5547' - 5575' w/ 1/2 spf, 5589' - 5595' w/ 1/2 spf, 5621' - 5637' w/ 1/2 spf. A total of 36 holes w/ 0.34 dia. RD Computalog.

**08/16/2005 10:00 - 08/16/2005 18:00**

**Last 24hr Summary**

Held safety meeting. RU Schlumberger. Frac'd the Point Lookout. Tested lines to 4000 #. Set pop off @ 2750 #. Broke down formation @ 3 bpm @ 989 #. Pumped pre pad @ 30 bpm @ 1423 #. Stepped down rate to 25 bpm @ 675 #. Stepped down rate to 20 bpm @ 169 #. Stepped down rate to 15 bpm @ 0 #. Stepped down rate to 10 bpm @ 0 #. ISIP 0 #. Pumped 1000 gals of 15% HCL acid @ 5 bpm @ 0 #. Frac'd the Point Lookout w/ 60 Q slick foam w/1 g/mg FR, 125,000 # 20/40 Brady sand. Treated the last 15% of proppant volume with proppet for proppant flowback control, 1,285,600 SCF N2 & 1661 bbls fluid. Avg rate 45 bpm. Avg pressure 2314 #. Max pressure 2530 #. Max sand cons 1.50 # per gal. ISIP 810 #. Frac gradient .44. RU computalog. RIH w/ 4 1/2" composite plug. Set plug @ 5126'. Tested plug to 2500 #, would not hold. Leaked off 300 # per min. RIH w/ second composite plug. Set plug @ 5086'. Attempted to pressure test plug to 2500 #. Would not hold. Leaked off 300 # per min. Appears that squeeze holes in csg are leaking. Could pump into squeeze holes @ 1 BPM @ 2000 #. SWI. RD Schlumberger & Computerlog.

**08/25/2005 00:00 - 08/25/2005 16:00**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (heat; Rigging down; Moving rig).  
Move Rig.  
Move in, Spot Rig.  
Wait on Trucks to bring other skids; Secure well; SIFN.

**08/26/2005 00:00 - 08/26/2005 17:00**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (heat; Rigging up; Trucks on loc.; Simultaneous Ops; Nippling Down Frac Tree; Nipple up BOP's).  
Wait on Trucks. Move in & Spot all equipment; Transfer water.  
Rig up & guy derrick; lay iron to pumps & pit. ND Frac Tree; NU BOP's.  
Attempt to pressure test BOP's. No Good. Secure well; Leave Hanger locked in place; SIFN.

**08/29/2005 00:00 - 08/29/2005 16:00**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (heat; Pressure test BOP's; Pick up tubing; run packer; presure test & hunt hole).  
Open doors on BOP's; R & R pipe & blind rams.  
Test BOP's; 300 psi low, 2000 psi high, Pipes & Blinds - All good. Chart & file in well file.  
PU RTTS & trip in picking up singles.  
Held meeting w/ rig crew, tool pusher, HSE, Toolman; Discussed possible hazards & ways to avoid them (Pressure test casing; run packer; presure test & hunt hole).  
Hunt hole w/ packer; casing above & below good to 2000 psi; leak (same leak near 3900' - 123 joints) bleeding down to 600 in 30 seconds, leveling off @ around 450 psi.; Pull packer up to 3447' (109 jts) & set to squeeze; test casing & packer seat to 500 psi - good.  
Secure well; Lock rams; Call for cement; SIFN.

**08/30/2005 00:00 - 08/30/2005 12:00**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (Ways to communicate hazards; RU/RD cement equip; squeezing under pressure; tripping).  
Check out & fire up rig; install new stripping rubber. MIRU cement equipment.  
Held meeting w/ rig crew & Cement crew; Toolman; Water Hauler; Discussed possible hazards & ways to avoid them (checking pressures; heat; Tripping; Cementing/Squeezing; Pressure testing).  
  
Test pumps & lines to 3500 psi; pump 5 bbl fresh water ahead (1 bpm @ 1500 psi); mix & pump 50 sacks of neat standard cement (1 bpm @ 1000 psi); Got solid walking squeeze to 3000 psi with 1 bbl still left in tubing;  
Release packer, reverse out, pull 2 stands & re-set packer; Pressure up to 3000 psi & SIFN.  
Got 3 bbl 15.6# cement behind casing.  
  
Secure well; lock rams; rig down cement equipment.  
Leave shut in w/ 3000 psi on squeeze; WOC.

**08/31/2005 00:00 - 08/31/2005 17:45**

**Last 24hr Summary**

Attended COPC safety meeting @ Roadside Restaurant with Operators & Toolpushers. Roughnecks to attend training @ Key's yard.  
Check fluids on rig; check psi (2500 on sqz.); Discuss Safety & training held this morning.  
Release RTTS; TOH; LD Packer; PU 3 7/8" cone bit; TIH.  
Tag up @ 3450'; PU power swivel; Break circulation. Drill cement.  
Made 200'; Secure well; Lock rams; SIFN.

**09/01/2005 00:00 - 09/01/2005 17:00**

**Last 24hr Summary**

Held meeting w/ rig crew; Discussed possible hazards & ways to avoid them (Ways to communicate hazards; Drilling; tripping; pressure testing; Laying down tubing).  
Check out rig; break circulation; Drill ahead. Broke through on # 124, 3914'.  
Circulate clean & rig up to test. Test casing to 2500 psi, 30 minutes - Good.  
Call Wood group for tester; bleed off & LD swivel; TOH w/ bit. LD bit & PU scraper; TIH.  
  
Rig up Wood group; Pressure test casing & squeeze to 3000 psi - Good.  
  
PU & run 24 more joints. Roll clean KCL into well from 5055'; displace drill water into pit.  
TOH laying down.

**09/04/2005 08:00 - 09/04/2005 11:00**

**Last 24hr Summary**

Held safety meeting. RU Computalog. Perforated the Cliffhouse w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 4951' - 4961' w/ 1/2 spf, 4967' - 4977' w/ 1/2 spf, 4989' - 5003' w/ 1/2 spf, 5020' - 5036' w/ 1/2 spf. A total of 29 holes w/ 0.34 dia. RD Computalog.

**09/06/2005 11:00 - 09/06/2005 11:00**

**Last 24hr Summary**

Held safety meeting. RU Schlumberger. Frac'd the Cliffhouse. Tested lines to 4000 #. Set pop off @ 2750 #. Broke down formation @ 5 bpm @ 2048 #. Pumped pre pad @ 30 bpm @ 1291 #. Stepped down rate to 25 bpm @ 910 #. Stepped down rate to 20 bpm @ 590 #. Stepped down rate to 15 bpm @ 306 #. Stepped down rate to 10 bpm @ 0 #. ISIP 0 #. Pumped 1000 gals of 15% HCL acid @ 10 bpm @ 0 #. Frac'd the Cliffhouse w/ 60 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, 1,204,500 SCF N2 & 1237 bbls fluid. Avg rate 35 bpm. Avg pressure 2220 #. Max pressure 2410 #. Max sand cons 1.50 # per gal. ISIP 1789 #. Frac gradient .44. SWI. RD Schlumberger. Started flowback.

**09/13/2005 08:30 - 09/13/2005 17:30**

**Last 24hr Summary**

Road rig from 28 - 7 # 124f to s.j. 28 - 7 # 193.  
JSA. Discuss spotting rig to well head.  
Spot rig to wellhead. RU unit & rig Pump & pit. 2" bleed off line to earth pit.  
Pump 40 bbls 2% kcl water to kill well. Install tubing hanger w/ bull plug in bottoms of hanger. NDWH. NUBOP.  
Pressure test bop. Low pressure test 250 psi for 10 minutes. High pressure test 2000 psi for 15 minutes. Held OK.  
RU 3" return line to flow back tank. RU line to standpipe & manifold.  
Secure well & location. SDFN.  
Travel to yard.

**09/14/2005 07:00 - 09/14/2005 17:00**

**Last 24hr Summary**

ALL DAY SAFETY STAND DOWN. CREW & SUPERVISOR IN SAFETY MEETINGS.

**09/15/2005 05:30 - 09/15/2005 17:00**

**Last 24hr Summary**

Travel to location.  
JSA. PJSM. Casing pressure 280 psi. BDW.  
Service, start & warm up equipment. Well dead.  
Finish RU 3" flowline. Strap & number first layer of tubing. Open blind rams. Install joint in tubing hanger to pull hanger. Pull tubing hanger.  
PU 3-7/8" mill & 2' stabilizer pup joint & 150 joints of 2-3/8" tubing. Strap & number tubing while picking up. Tag @ 4730'.  
Presssure test Air discharge line to 2000 psi. Held OK. Release pressure. Establish circulation. Pump 850 cfm AIR & 5 BPH 2% KCL water mist w/ 3 gallons foamer & 4 gallons inhibitor per 20 bbls. Well dead. No returns.  
Circulation Established. Continue to pump as above. Returns of water (50 bbls). Light sand (1/8 cup per minute). Cleanout from 4730' to 4991'.  
SD AIR & Mist. RD chickens & kelly hose.  
PUH from 4991' to 4706'. Close & lock tubing rams.  
Secure well & location. SDFN.  
Travel to yard.

**09/16/2005 05:30 - 09/16/2005 17:00**

**Last 24hr Summary**

Travel to location.

JSA. Casing pressure 480 PSI. BDW.

Service, Start & Warmup equipment. Open tubing rams.

RIH from 4706' to 4985'. Tag fill @ 5985'.

RU chickens & Kelly Hose to tubing. Establish Circulation. Pump 850 CFM Air & 5 BPH 2% KCL mist w/ 2 gallons foamer & 4 gallons inhibitor per 20 bbls.

Circulation Established. Returns of 7 BPH water. Heavy sand (1/2 cup every minute). Cleanout from 4985' to 5086'. Tag top CBP. Blow well clean.

SD Air & mist. RD chickens & kelly hose. PUH to 4959'. Close tubing rams. Close 3" flow line. Open 2" bleedoff line w/ 1/2" choke inline. Install TIW Valve in tubing.

Flow test well up casing w/ 1/2" choke in flow line. Flow test results as follows:

Tubing pressure @ 0 through intire test because of string float in tubing string.

Initial Shut in pressure of 150 psi @ 11:00. Reading taken every 30 minutes.

11:30 - FCP @ 65 PSI. Mist of 1.5 BPH. 12:00 FCP @ 60 PSI. Mist of 1 BPH. 12:30 - FCP @ 60 PSI. Mist of 1 BPH. 13:00 FCP @ 85 PSI. Mist of 2 BPH.

13:30 FCP @ 65 PSI. Mist of 1 BPH. 14:00 FCP @ 65 PSI. Mist of 1 BPH. 14:30 FCP @ 65 PSI. Mist of 1 BPH. Well stalalized @ 65 psi. 65 psi X 6.6

(1/2" choke coefficient) = 429 MCFPD.

Open tubing rams. Close 2" bleed line. Remove 1/2" choke from bleed line. RIH to 5072'. Tag 14' of fill above upper CBP.

RUPS

Establish circulation. Pump 900 CFM Air & 5 BPH 2% KCL Mist W/ 2 gallons foamer & 4 gallons inhibitor per 20 bbls. Well flowing 2.5 BPH, trace of sand & no condensate.

Circulation established. Cleanout 14' of fill to CBP. Drill out CBP @ 5085'. Cleanout fill to CBP @ 5136'.

SD Air & mist. Hang back P.S. PUH to 4896'. SWI.

Secure well & location. SDF Weekend.

Travel to yard.

**09/19/2005 05:30 - 09/19/2005 17:00**

**Last 24hr Summary**

Travel to location.

JSA.

Service, start & warmup equipment. Casing pressure @ 460 PSI. BDW.

Open tubing rams. RIH. Tag fill @ 5048'.

RU chickens & kelly hose. Establish circulation. Pump 850 CFM & 5 BPH 2% KCL Mist w/ 2 gallons foamer & 4 gallons inhibitor per 20 bbls.

Circulation estblished. Pump as above. Returns of 7 bph water & trace of sand. Circulating pressure @ 450 psi. Cleanout from 5048' to 5136'.

RD chickens & kelly hose. R.U.P.S. DRill out CBP @ 5136'. Through CBP. Blow well to let CBP cutting come to surface.

Hang back P.S.

Strap & PU tubing. RIH from 5148' to 7200'. Tag fill @ 7200'.

P.U.P.S.

Circulation estblished. Pump as above. Returns of 7 bph water & trace of sand. Circulating pressure @ 450 psi. Drill remainder of CBP. Cleanout from 7200' to 7235'. Returns of 7.5 BPH water & heavy sand deminishng to light sand after 1.5 hours. Blow well to clean up sand.

R.D.P.S. & return swivel to carrier.

TOOH w/ tubing & mill.

Secure well & location. SDFN.

Travel to yard.

**09/20/2005 08:30 - 09/20/2005 17:00**

**Last 24hr Summary**

Travel to location.

JSA.

Service, start & warmup equipment. Casing pressure @ 480 psi. BDW.

Open tubing rams. Open flow back line. Continue TOOH. Pump 15 bbls 2% KCL water @ 1500' to kill well. Finish TOOH. LD 3-7/8" mill.

PU expendable check valve & "F" nipple w/ 1.81 ID. TIH w/ check & "F" nipple & 2-3/8" tubing. Tag fill @ 7205' (35' OF FILL OVER NIGHT).

PUH from 7202' to 5623'. Close tubing rams. SWI.

Secure well & location. SDFN.

Travel to yard.



**09/21/2005 05:30 - 09/21/2005 17:00**

**Last 24hr Summary**

Travel to location.

JSA.

Service, start & warmup equipment. Casing pressure @ 440 psi. BDW.

EOT set @ 5623'. Close bleedoff line. Install 1/2" choke on 2" bleedoff line. Open 2" line. Flow test well up casing. Tubing has expendable check on EOT.

Using 6.6 choke coefficient for 1/2" choke.

Initial CFP @ 07:30 = 250 psi, (Dry gas) (1650 mcf), CFP @ 08:00 = 270 psi, (dry gas) (1782 mcf), CFP @ 08:30 = 270 psi (Light mist) (1782 psi), CFP @ 09:00 = 260 psi (dry gas) (1716 mcfpd), CFP @ 09:30 = 230 psi (1518 mcfpd) (light mist), CFP @ 10:00 = 220 psi (1452 mcfpd) (light mist), CFP @ 10:30 = 220 psi (1452 mcfpd) (light mist), CFP @ 11:00 = 220 psi (1452 mcfpd) (light mist).

TEST COMPLETE.

Open 3" flow line. Remove 1/2" choke from bleedoff line.

RIH from 5623' to 7190'. 10' of fill over night. RU chickens & kelly hose.

Establish circulation. Pump 900 cfm Air & 5 BPH 2% KCL mist w/ 2 gallons foamer & 4 gallons inhibitor per 20 bbls.

Circulation established. Pump as above. Returns of 8 BPH water including mist pumped. Trace of sand. Circulating pressure @ 550 psi. Cleanout fill from 7190' to 7395'.

SD Air & mist. Pump 4 bbls 2% KCL Water down tubing to kill tubing. Drop ball for expendable check valve. Wait 10 minutes for ball to fall. Pump Air @ 900 cfm. Pressure tubing up to 1000 psi for pressure test. Watch for 15 minutes. Held OK. Start pumping Air again. pressure up to 1150 psi & expendable check valve pumped put. SD Air. Open tubing bleed line. Flow well through tubing to insure valve is out of expendable check.

LD 56 joints of tubing to bring EOT to 5623'. Remove tubing collar. Install tubing hanger on top of joint # 178. Land tubing. Secure tubing hanger lock down bolts. Remove landing pup. Close blind rams & all well head valves.

RAN EXPENDABLE CHECK VALVE (0.90"), "F" NIPPLE w/ 1.81 I.D. (0.85"), 178 JOINTS OF NEW 2-3/8" 4.7# J-55 TUBING (5622') & TUBING HANGER (1.25'). EOT TUBING @ 5633'.

Secure well & location. SDFN.

Travel to yard.

**09/22/2005 05:30 - 09/22/2005 17:00**

**Last 24hr Summary**

Travel to location.

JSA.

Service, start & warm up equipment. Blow down casing to eliminate air in well.

RD power tongs, slips & floor. Casing flow back reading @ .05% oxygen.

NDBOP. Pump 3 bbls 2% KCL water to kill tubing. Remove BPV from tubing. NUWH.

Pump Air down tubing. Pressure up to 500 psi. SD Air. Open 2" bleedoff line to pit. Blow tubing down to remove Air & water from tubing. Let blow for 1 hour.

O2 reading @ 1%. Close bleed off line.

RDMOL. Rig released @ 11:00 A.M. on 09/22/05.

Pre- trip rig before roading to next to location. Off location @ 11: hours.