

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Northwest Pipeline Corporation

3. ADDRESS OF OPERATOR
P.O. Box 90, Farmington, N.M. 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 950' FWL & 1480' FSL
AT TOP PROD. INTERVAL: Same as above
AT TOTAL DEPTH: Same as above

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,
REPORT, OR OTHER DATA

- REQUEST FOR APPROVAL TO:

- TEST WATER SHUT OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
PULL OR ALTER CASING
MULTIPLE COMPLETE
CHANGE ZONES
ABANDON*

- ABANDON*
(other) Spud, surface csg, Intermediate, liner set.

- SUBSEQUENT REPORT OF:

- [illegible]

5. LEASE
SF 078738

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
San Juan 30-5 Unit

FARM OR LEASE NAME
San Juan 30-5 Unit

30. WELL NO. #83

10. FIELD OR WILDCAT NAME
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 23, T30N, R5W

12. COUNTY OR PARISH Rio Arriba	13. STATE N.M.
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14. API NO.

30-039-22728

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6790' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

Page #1 of 2

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*
5-6-81 5-7-81 Spudded 12-1/4" surface hole at 1145 hrs 5-6-81. Ran 9 jts (360') of 9-5/8", 36#, K-55, ST&C CF&I & set at 374'. Woodco cmt'ed w/ 185 sx C1 "B" w/ 1/4# gel flake/sx & 3% CaCl₂. Plug down at 1915 hrs 5-6-81. Circ out 2 bbls cmt. WOC.

- 5-8-81 Drld to a depth of 3610'.w/ wtr.

- 5-19-81 Drld to a depth of 4020'. Ran 98 jts (4006') of 7", 20#, K-55, ST&C & set at 4020'. Cmt'd w/ 100 sx 65/35 poz w/ 12% gel. Tailed w/ 75 sx C1 "B" w/ 2% CaCl₂. Dispalced plug w/ 161.5 bbls and down at 2245 hrs. Did not circulate behind 7" csg. Calculated top of cmt at 2760'.

- 5-10-81 WOC.

- 5-11-81 to 5-12-81 Drlg ahead to a depth of 7811' w/ gas.

- 5-13-81. Ran IES & Neutron Density GR logs. LDDP.

5-13-81. Ran IES & Neutron Density GR logs. LDDP. _____ Set @ _____ Ft.
Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct

SIGNED Donna J. Brace TITLE Production Clerk DATE 5-19-81

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____
CONFIDENTIAL

BY FARMINGTON DISTRICT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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12. COUNTY OR PARISH
Rio Arriba
13. STATE
N.M.
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30-039-22728
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6790' GR

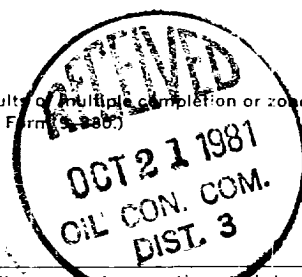
REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☒
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☐
☐
☐

(NOTE: Report results of multiple completion or zone change on Form 9-331-C)



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9-29-81 to 9-30-81 MOL & RU. PU 3-7/8" bit on 2-3/8" tbg and cleaned out to 8200'. Tested csg to 4000# for 15 min - OK. Circ hole w/ 2% CaCl₂ & spotted 750 gallons of 7-1/2% HCl. Jetronics ran GR/CCl & perfed 12 holes from 8092' to 8184'. Western broke down DK and pumped 1000 gal 15% HCl & dropped 30 balls. Balled off. Jetronics ran junk basket & rec'd 24 balls. Western fraced w/ 20,000 gal pad of treated wtr followed by 22,600# of 40/60 sand. Well sanded off. ISIP 3800#; 1 min 2500#; 5 min 2000#, 60 min 1250#, MIR 22 BPM; AIR 17 BPM; MTP 4200#; ATP 4000#. Job completed @ 1730 hrs 9-30-81. Opened up well @ 1930 hrs.

10-1-81 Ran 261 jrs (8125') of 2-3/8", 4.7#, J-55, EUE USS seamless & set @ 8131' KB. Seating nipple on btm of btm jt. Pumped out plugs & gauged well up tbg. Well turned over to production department. Rig released.

NOW WAITING ON IP TEST

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Donna J. Brace TITLE Production Clerk DATE 10-12-81
Donna J. Brace

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

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FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Csg depth change

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☐
☐

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SF 078738
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8. FARM OR LEASE NAME
San Juan 30-5 Unit
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Sec 23, T30N, R5W
12. COUNTY OR PARISH
Rio Arriba
13. STATE
New Mexico
14. API NO.
30-039-22728
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6790' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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4-1/2", 11.6#, N-80, CF&I seamless and 4-1/2", 10.5#, K-55, ST&C USS seamless set @ 8241' instead of 8263' as reported on Sundry notice dated 5-19-81.



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Donna J. Brace TITLE Production Clerk DATE 10-16-81
Donna J. Brace

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NMOCC

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REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) ☐

SUBSEQUENT REPORT OF:

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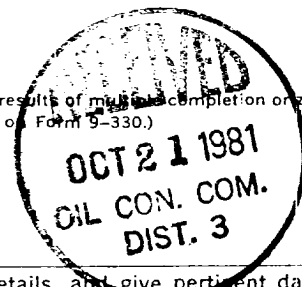
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9-30-81 to 10-1-81 Jetronics ran junk basket & rec'd balls. Rec'd 24 balls. Western fraced w/ 20,000 gallon pad of treated wtr followed by 22,600# of 40/60 sand. Well sanded off. ISIP 3800#; 1 min 2500#; 5 min - 2000#; 60 min 1250#. MIR 22 BPM; AIR 17 BPM; MTP 4200#; ATP 4000#. Job completed @ 1730 hrs 9-30-81. Gauged well @ 0600 hrs.

10-2-81. Ran 261 jts (8125') of 2-3/8", 4.7#, J-55, EUE, seamless & set @ 8131' KB. Rig released. NOW WAITING ON CLEAN UP AND IP TEST.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Donna J. Brace TITLE Production Clerk DATE 10-16-81
Donna J. Brace

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY.

*See Instructions on Reverse Side

NMOC

Edm

DEVIATION REPORT

COMPANY NORTHWEST PIPELINE CORPORATION ADDRESS P.O. BOX 90, Farmington, N.M. 87401
 LEASE San Juan 30-5 Unit WELL 83 UNIT LETTER L SEC 23 T T 30N R 5W
 POOL and FORMATION Basin Dakota COUNTY Rio Arriba

<u>(')</u> <u>DEPTH</u>	<u>(°)</u> <u>DEVIATION</u>
<u>897'</u>	<u>1/4°</u>
<u>1380'</u>	<u>1-1/2°</u>
<u>1875'</u>	<u>1/2°</u>
<u>2387'</u>	<u>1°</u>
<u>2606'</u>	<u>1-1/2°</u>
<u>3126'</u>	<u>1-1/4°</u>
<u>3627'</u>	<u>1-1/4°</u>
<u>4020'</u>	<u>1/2°</u>
<u>4444'</u>	<u>1/2°</u>
<u>5043'</u>	<u>3/4°</u>
<u>5545'</u>	<u>3/4°</u>
<u>6139'</u>	<u>2°</u>
<u>6673'</u>	<u>2°</u>
<u>7205'</u>	<u>2°</u>
<u>7739'</u>	<u>1-3/4°</u>
<u>8260'</u>	<u>1-3/4°</u>
_____	_____



Certificate: I, the undersigned, state that I, Virginia A. Copeland, acting in my capacity as Production Clerk of Northwest Pipeline Corporation, am authorized by said Company to make this report which was prepared by me or under my supervision and direction; and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to before me this 22 day of October, 19 81

Virginia A. Copeland
 NOTARY PUBLIC IN AND FOR SAN JUAN COUNTY, NEW MEXICO

My Commission Expires 12-18-83

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 10-13-81		
Company Northwest Pipeline Corporation				Connection New Completion				
Pool Basin				Formation Dakota		Unit San Juan 30-5		
Completion Date 10-02-81		Total Depth 8263'		Plug Back TD 8200'		Elevation 6790'		
Csg. Size 4.500		Wt. 10.5		Set At 8263'		Perforations: From 8092' To 8184'		
Tng. Size 2.375		Wt. 4.7		Set At 8131'		Perforations: From To		
Type Well - Single - Brazenhead - G.G. or G.O. Multiple Gas - Single						Facker Set At None		
Producing Thru Tubing		Reservoir Temp. °F A		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		
L		H		G _g		County Rio Arriba		
				% CO ₂		State New Mexico		
				% N ₂		Meter Run		
				% H ₂ S		Taps		
FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow	
1.	2"	X	.750	261		76°	3 hrs.	
2.								
3.								
4.								
5.								
RATE OF FLOW CALCULATIONS								
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd	
1	9.604		273	.985	1.291	1.022	3407	
2.								
3.								
4.								
5.								
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio			Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons			Deq.
2					Specific Gravity Separator Gas			
3					Specific Gravity Flowing Fluid			
4					Critical Pressure			P.S.I.A.
5					Critical Temperature			R
P _c 2743 P _c ² 7524049					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1583$			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1165$			
1		1014	1028196	6495853	ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,804$			
2								
3								
4								
5								
Absolute Open Flow 3,804 Mcfd @ 15.025					Angle of Slope °		Slope, n .75	
Remarks: Produced heavy mist of water throughout test. Vented 476 MCF/D.								
Approved By Commission:			Conducted By: Fred S. Hamrick			Calculated By: B.J. Broughton		Checked By: <i>B.B.B.</i>

R.12/ cba