

3-BDOOC Astec
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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Formation Mesa Verde County Rio Arriba
 Initial xx Annual _____ Special _____ Date of Test 5-26-58
 Company PACIFIC NORTHWEST PIPELINE Lease San Juan 29-5 Well No. 26-18
 Unit K Sec. 18 Twp. 23N Rge. 5W Purchaser _____
 Casing 5 1/2" Wt. 14.04 I.D. _____ Set at 5912' Perf. 5979' To 5372'
 Tubing 1-1/4" Wt. 2.34 I.D. _____ Set at 5867' Perf. _____ To _____
 Gas Pay: From 5867' To 5372' L _____ xG .650 -GL _____ Bar.Press. 12
 Producing Thru: Casing _____ Tubing xx Type Well single
 Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: _____ Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Plugged) (Choke) (Plugged) Shut in 7 days Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1075		1110		
1.		3/4"	152		54°	152	54°	1009		3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		164	1.0058	.9668	1.016	1921
2.							
3.							
4.							
5.							

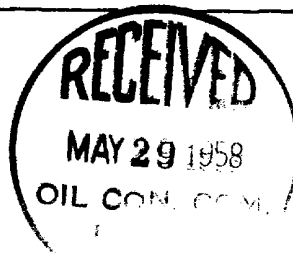
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 $P_c = (1 - e^{-S})$
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 $P_c = 1182$ $P_c^2 = 1398.9$

No.	$\frac{P_w}{P_t}$ (psia)	P_t^2	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1 - e^{-S})}$	$1001 P_w^2$	$P_c^2 - P_w^2$	Cal. $\frac{P_w}{P_c}$	$\frac{P_w}{P_c}$
1.						1082.4	216.5		5.81
2.									
3.									
4.									
5.									

Absolute Potential: 7.451 MCFPD; n .75 / 3.7482
 COMPANY PACIFIC NORTHWEST PIPELINE CORPORATION
 ADDRESS 1181 West Broadway, Huntington, New Mexico
 AGENT and TITLE C. R. Wagner - Well Test Engineer
 WITNESSED _____
 COMPANY _____

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

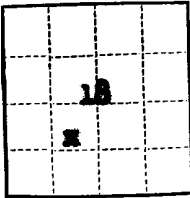
NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressibility factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

OIL CONSERVATION COMMISSION	
ADMINISTRATIVE OFFICE	
County	3
City	
State	
U. S. G.	1
Transfer	
File	1

- 3 - USGS
- 2 - MDOC
- 1 - State Land Office
- 1 - L. G. Truby (SUBMIT IN TRIPLICATE)
- 1 - File



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 87-07077
Unit 14-08-001-437



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 25, 1958

S.J. 29-5 Unit
Well No. 26-18 is located 1735 ft. from S line and 1730 ft. from W line of sec. 18

NE/4 SW/4 Sec. 18 29 North 5 West N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Blanco Mesa Verde Rio Arriba New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6590 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

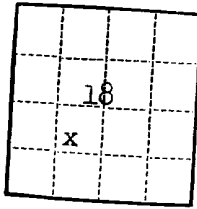
Spudded: April 27, 1958. Set 194' of 10-3/4", 32.75#, K-40 casing @ 207', cemented w/200 sx Portland regular w/2% CaCl. Volume of cement slurry 244 cu. ft. Approximate temp. of cement slurry when mixed 60° F. Estimated formation temp. 70° F. Estimated strength of cement 2575# per square inch. Cement was in place 12hrs before test. Casing tested OK.

Set 3701.65' of 7-5/8, 26.40#, J-55 casing @ 3714.25', cemented w/150 sx Portland regular w/8% gal plus 1/2 floccs per sx and 50 sx neat w/2% CaCl plus 1/2 floccs per sx. Cement was in place 24hrs before test. Casing tested OK.

Set 2294.47' of 5-1/2", 15.50#, J-55 Liner @ 5912.47', Burns Liner Hanger @ 3618', cemented w/100 sx Portland regular w/4% gal and 100 sx Portland regular w/2% gal plus 1/2 floccs per sx. Cement was in place 18hrs before test. Pressured to 2500# held OK.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

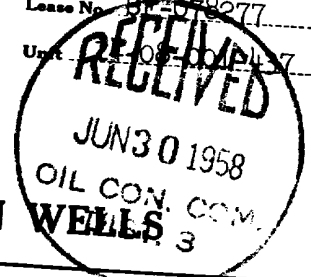
Company PACIFIC NORTHWEST PIPELINE CORPORATION
Address 418 1/2 West Broadway
Farmington, New Mexico
By Original signed by L. E. Stone
Title Division Manager



- 2 - USGS
 - 2 - NMOCC ✓
 - 1 - State Land Office
 - 1 - L. G. Truby
 - 1 - File
- (SUBMIT IN TRIPLICATE)

Land Office Santa Fe
Lease No. 87-2078277
Unit 1 of 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



SUNDRY NOTICES AND REPORTS ON

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		Report of Well Completion	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

S.J. 29-5 _____ June 25th, _____, 1958
Well No. 26-18 is located 1735 ft. from (N) line and 1730 ft. from (E) line of sec. 18
NE/4 SW/4 Sec. 18 29 North 5 West N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Blanco Mesa Verde Rio Arriba New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6590 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Perforations: 5870-66, 5842-38, 5818-14, 5804-5784, 5780-70, 5754-36, 5726-08, 5576-66, 5420-04, 5400-5384, 5380-72.

Frac w/101,000 gallons water, 150 rubber balls. BD 1000#, IP 900#, MP 1100#, AP 1000#, FP 1100#, standing vac. IR before balls 60 bbls/min. Avg. IR 56 bbls/min.

Cleaned out to total depth, set 5857.25' of 1-1/4" tubing @ 5867.25', completed well.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company PACIFIC NORTHWEST PIPELINE CORPORATION

Address 418 1/2 West Broadway

Farmington, New Mexico

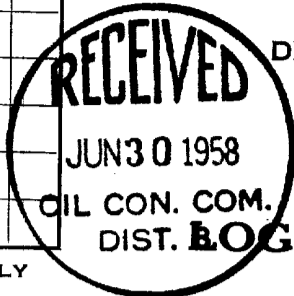
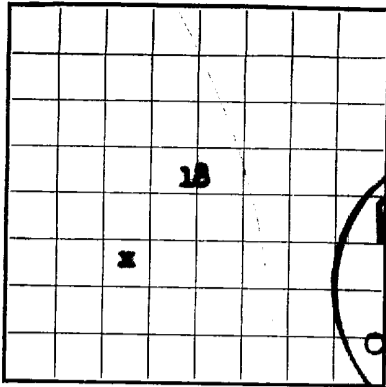
By Original signed by L. F. Stone

Title Division Manager

3 - OCS
2 - MOC
1 - State Land Office
1 - L. G. Truby
1 - File

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 87-070277
LEASE OR PERMIT TO PROSPECT 14-08-001-437



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DIST. LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company PACIFIC NORTHWEST PIPELINE CORP. Address 418 1/2 W. 24th., Farmington, N.M.
Lessor or Tract San Juan 29-5 Unit Field Blanco Mesa Verde State New Mexico
Well No. 26-18 Sec. 18 T. 29N R. 5W Meridian N.M.P.M. County Rio Arriba
Location 1735 ft. N of S Line and 1730 ft. E of W Line of Section 18 Elevation 6590'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Original signed by L. F. Stone

Date June 25th, 1958 Title Division Manager

The summary on this page is for the condition of the well at above date.

Commenced drilling April 27th, 1958 Finished drilling May 14th, 1958

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from G 5372' to G 5870' No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4	32.75	8rd	Rep.	194.00'	Tex. Pat.				
7-5/8	26.40	8rd	Rep.	370.65'	Outside & float collar				
5-1/2	15.50	8rd	Rep.	228.47'	Float & plug collar				
1-1/4	2.3	10rd	Young	597.25'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	207.00'	200	Pump Plug		
7-5/8	3714.25'	200	Pump Plug		
5-1/2	5912.47'	200	Pump Plug		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0' feet to 5912' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

May 14th, 1958 Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 1,994,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. Tag. 1075#, Csg. 1110# CAGP 7,451 MCF/D

EMPLOYEES

_____, Driller shut in 7 days _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	2620'	2620'	Surface
2620'	2805'	185'	Ojo Alamo
2805'	3195'	390'	Kirtland
3195'	3499'	304'	Fruitland
3499'	3593'	94'	Pictured Cliffs
3593'	5325'	1732'	Levis
5325'	5421'	96'	Cliff House
5421'	5702'	281'	Manafee
5702'	5912'	210'	Point Lookout
5912'			Total Depth
5900'			Plug Back Total Depth



(Original signed by R. H. Stone)

Logs: Lane Wells Gamma Ray from surface to 5807' and neutron from 15' to 5899'.
 Core: None
 Test: 101,000 gallons water, 150 rubber balls. 10 900', 10 1000', 10 1100', 10 1200', 10 1300', 10 1400', 10 1500', 10 1600', 10 1700', 10 1800', 10 1900', 10 2000', 10 2100', 10 2200', 10 2300', 10 2400', 10 2500', 10 2600', 10 2700', 10 2800', 10 2900', 10 3000', 10 3100', 10 3200', 10 3300', 10 3400', 10 3500', 10 3600', 10 3700', 10 3800', 10 3900', 10 4000', 10 4100', 10 4200', 10 4300', 10 4400', 10 4500', 10 4600', 10 4700', 10 4800', 10 4900', 10 5000', 10 5100', 10 5200', 10 5300', 10 5400', 10 5500', 10 5600', 10 5700', 10 5800', 10 5900', 10 6000', 10 6100', 10 6200', 10 6300', 10 6400', 10 6500', 10 6600', 10 6700', 10 6800', 10 6900', 10 7000', 10 7100', 10 7200', 10 7300', 10 7400', 10 7500', 10 7600', 10 7700', 10 7800', 10 7900', 10 8000', 10 8100', 10 8200', 10 8300', 10 8400', 10 8500', 10 8600', 10 8700', 10 8800', 10 8900', 10 9000', 10 9100', 10 9200', 10 9300', 10 9400', 10 9500', 10 9600', 10 9700', 10 9800', 10 9900', 10 10000'.
 Part: 5870-66, 5872-38, 5874-14, 5876-70, 5878-74, 5880-78, 5882-82, 5884-86, 5886-88, 5888-90, 5890-92, 5892-94, 5894-96, 5896-98, 5898-100, 5900-102, 5902-104, 5904-106, 5906-108, 5908-110, 5910-112, 5912-114, 5914-116, 5916-118, 5918-120, 5920-122, 5922-124, 5924-126, 5926-128, 5928-130, 5930-132, 5932-134, 5934-136, 5936-138, 5938-140, 5940-142, 5942-144, 5944-146, 5946-148, 5948-150, 5950-152, 5952-154, 5954-156, 5956-158, 5958-160, 5960-162, 5962-164, 5964-166, 5966-168, 5968-170, 5970-172, 5972-174, 5974-176, 5976-178, 5978-180, 5980-182, 5982-184, 5984-186, 5986-188, 5988-190, 5990-192, 5992-194, 5994-196, 5996-198, 5998-200, 6000-202, 6002-204, 6004-206, 6006-208, 6008-210, 6010-212, 6012-214, 6014-216, 6016-218, 6018-220, 6020-222, 6022-224, 6024-226, 6026-228, 6028-230, 6030-232, 6032-234, 6034-236, 6036-238, 6038-240, 6040-242, 6042-244, 6044-246, 6046-248, 6048-250, 6050-252, 6052-254, 6054-256, 6056-258, 6058-260, 6060-262, 6062-264, 6064-266, 6066-268, 6068-270, 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6862-1064, 6864-1066, 6866-1068, 6868-1070, 6870-1072, 6872-1074, 6874-1076, 6876-1078, 6878-1080, 6880-1082, 6882-1084, 6884-1086, 6886-1088, 6888-1090, 6890-1092, 6892-1094, 6894-1096, 6896-1098, 6898-1100, 6900-1102, 6902-1104, 6904-1106, 6906-1108, 6908-1110, 6910-1112, 6912-1114, 6914-1116, 6916-1118, 6918-1120, 6920-1122, 6922-1124, 6924-1126, 6926-1128, 6928-1130, 6930-1132, 6932-1134, 6934-1136, 6936-1138, 6938-1140, 6940-1142, 6942-1144, 6944-1146, 6946-1148, 6948-1150, 6950-1152, 6952-1154, 6954-1156, 6956-1158, 6958-1160, 6960-1162, 6962-1164, 6964-1166, 6966-1168, 6968-1170, 6970-1172, 6972-1174, 6974-1176, 6976-1178, 6978-1180, 6980-1182, 6982-1184, 6984-1186, 6986-1188, 6988-1190, 6990-1192, 6992-1194, 6994-1196, 6996-1198, 6998-1200, 7000-1202, 7002-1204, 7004-1206, 7006-1208, 7008-1210, 7010-1212, 7012-1214, 7014-1216, 7016-1218, 7018-1220, 7020-1222, 7022-1224, 7024-1226, 7026-1228, 7028-1230, 7030-1232, 7032-1234, 7034-1236, 7036-1238, 7038-1240, 7040-1242, 7042-1244, 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7954-2156, 7956-2158, 7958-2160, 7960-2162, 7962-2164, 7964-2166, 7966-2168, 7968-2170, 7970-2172, 7972-2174, 7974-2176, 7976-2178, 7978-2180, 7980-2182, 7982-2184, 7984-2186, 7986-2188, 7988-2190, 7990-2192, 7992-2194, 7994-2196, 7996-2198, 7998-2200, 8000-2202, 8002-2204, 8004-2206, 8006-2208, 8008-2210, 8010-2212, 8012-2214, 8014-2216, 8016-2218, 8018-2220, 802

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, New Mexico 7/1/58

(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

PACIFIC NORTHWEST San Juan 29-5, Well No. 26-18, in NE $\frac{1}{4}$ SW $\frac{1}{4}$,
(Company or Operator) (Lease)
K, Sec. 18, T. 29N, R. 7W, NMPM, Blanco Mesa Verde Pool
Unit Letter

Rio Arriba

County. Date Spudded 4-27-58 Date Drilling Completed 5-14-58
Elevation 6581' m Total Depth 5912' PBTD 5900'

Please indicate location:

Top Oil/Gas Pay 5372' Name of Prod. Form. Mesa Verde

D	C	B	A
E	F	G	H
L	K X	J	I
M	N	O	P

PRODUCING INTERVAL -

Perforations 5372' - 5870'
Open Hole _____ Depth _____
Casing Shoe _____ Tubing 5867'

OIL WELL TEST -

Natural Prod. Test: _____ bbls. oil, _____ bbls water in _____ hrs, _____ min. Choke Size _____
Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): _____ bbls. oil, _____ bbls water in _____ hrs, _____ min. Choke Size _____

GAS WELL TEST -

Natural Prod. Test: _____ MCF/Day; Hours flowed _____ Choke Size _____

Tubing, Casing and Cementing Record

Size	Feet	Sax
10-3/4	194	200
7-5/8	3724	200
5-1/2	4618	200
1-1/4	5867	

Method of Testing (pitot, back pressure, etc.): _____

Test After Acid or Fracture Treatment: _____ MCF/Day; Hours flowed 3

Choke Size 3/4" Method of Testing: 7,451 GAGP

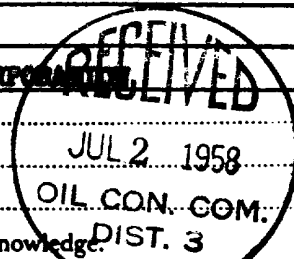
Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 101,000 gallons water

Casing _____ Tubing _____ Date first new _____
Press. _____ Press. _____ oil run to tanks _____

Oil Transporter _____

Gas Transporter PACIFIC NORTHWEST PIPELINE CORPORATION

Remarks: _____



I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved: JUL 2 1958, 19 _____

PACIFIC NORTHWEST PIPELINE CORPORATION
(Company or Operator)

OIL CONSERVATION COMMISSION

Original Signed By

A. R. KENDRICK

By: Original signed by G. H. Peppin
(Signature)

By: _____

Title: District Promotion Engineer

Title: PETROLEUM ENGINEER DIST. NO. 3

Send Communications regarding well to:

Name: PACIFIC NORTHWEST PIPELINE CORP.

Address: 418 1/2 West Broadway, Farmington, N. M.

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator PACIFIC NORTHWEST PIPELINE CORP. Lease San Juan 29-5

Well No. 26-18 Unit Letter K S 18 T 29N R 5W Pool Elanco Mesa Verde

County Rio Arriba Kind of Lease (State, Fed. or Patented)

If well produces oil or condensate, give location of tanks: Unit K S 18 T 29N R 5W

Authorized Transporter of Oil or Condensate EL PASO NATURAL GAS COMPANY

Address Box 997, Farmington, New Mexico

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas PACIFIC NORTHWEST PIPELINE CORPORATION

Address 418 1/2 West Broadway, Farmington, New Mexico

(Give address to which approved copy of this form is to be sent)

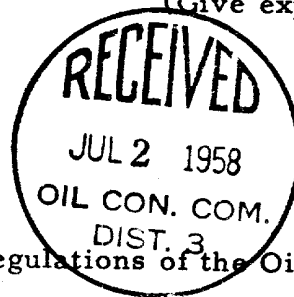
If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership () Other ()

Remarks: (Give explanation below)



The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 1 day of July 19 58

Approved JUL 2 1958 19

OIL CONSERVATION COMMISSION
Original Signed By
By A. R. KENDRICK
Title PETROLEUM ENGINEER DIST. NO. 3

By Original signed by G. H. Peppin
Title District Protection Engineer

Company PACIFIC NORTHWEST PIPELINE
Address 418 1/2 West Broadway, Farmington, N.
Farmington, New Mexico

ASDCS AZING
 1-Bill Cutler
 1-L. D. Galloway
 1-Smith
 2-File

Final Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION
 GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool Blanco Formation Mesa Verde County Rio Arriba
 Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORPORATION Date Test Filed 10-9-58
 Operator PACIFIC NORTHWEST PIPELINE Lease San Juan 29-5 Well No. 26-18
 Unit K Sec. 18 Twp. 25N Rge. 5W Pay Zone: From 5372' To 5870'
 Casing: OD. 5 1/2" WT. 15-5/8" Set At 5912' Tubing: OD. 1-1/4" WT. 2-3/4" T. Perf. 5867'
 Produced Through: Casing _____ Tubing XXX Gas Gravity: Measured .678 Estimated _____
 Date of Flow Test: From 7-22-58 To 7-30-58 * Date S.I.P. Measured 5-26-58
 Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
 Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
 Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
 Flowing meter pressure (meter reading when Dwt. measurement taken):
 Normal chart reading _____ psig + 12 = _____ psia (d)
 Square root chart reading (_____)² x spring constant _____ = _____ psia (d)
 Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
 Friction loss, Flowing column to meter:
 (b) - (c) Flow through tubing; (a) - (c) Flow through casing _____ = _____ psi (f)
 Seven day average static meter pressure (from meter chart):
 Normal chart average reading 449 psig + 12 = 461 psia (g)
 Square root chart average reading (_____)² x sp. const. _____ = _____ psia (g)
 Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
 P_t = (h) + (f) _____ = 461 psia (i)
 Wellhead casing shut-in pressure (Dwt) 1110 psig + 12 = 1122 psia (j)
 Wellhead tubing shut-in pressure (Dwt) 1075 psig + 12 = 1087 psia (k)
 P_c = (j) or (k) whichever well flowed through _____ = 1087 psia (l)
 Flowing Temp. (Meter Run) 74 °F + 460 _____ = 534 °Abs (m)
 P_d = 1/2 P_c = 1/2 (l) _____ = 543.5 psia (n)

Q = 1,254 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}}} \right) = \underline{1,254}$ MCF/da
 (Integrated)

DELIVERABILITY CALCULATION

D = Q 1,254 $\left[\frac{(P_c^2 - P_d^2) = 886,177}{(P_c^2 - P_w^2) = 729,809} \right]^n \frac{1.214}{1.157} = \underline{1,451}$ MCF/da.

SUMMARY

P _c =	<u>1,087</u>	psia
Q =	<u>1,254</u>	Mcf/day
P _w =	<u>672</u>	psia
P _d =	<u>543.5</u>	psia
D =	<u>1,451</u>	Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORPORATION
 By Original signed by G. H. Peppin
 Title District Production Engineer
 Witnessed by _____
 Company _____

* This is date of completion test.
 * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁵)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁵) R ²	P _t ² (Column 1)	P _t ² + R ²	P _w
<u>3978</u>	<u>0.251</u>	<u>953.142</u>	<u>239.239</u>	<u>212.581</u>	<u>451.760</u>	<u>672</u>



X

NUMBER OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
**CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS**

FORM C-110
(Rev. 7-60)

FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE

Company or Operator El Paso Natural Gas Company				Lease San Juan 29-5 Unit	Well No. 26-18
Unit Letter K	Section 18	Township 29-N	Range 5-W	County Rio Arriba	

Pool Blanco Mesa Verde	Kind of Lease (State, Fed, Fee) Federal
----------------------------------	---

If well produces oil or condensate give location of tanks	Unit Letter Same	Section	Township	Range
--	----------------------------	---------	----------	-------

Authorized transporter of oil <input type="checkbox"/> or condensate <input checked="" type="checkbox"/>	Address (give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	Box 990, Farmington, New Mexico

Is Gas Actually Connected? Yes No

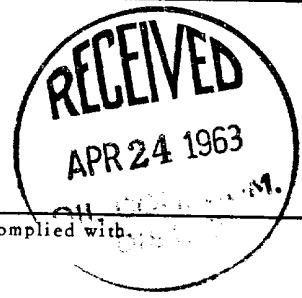
Authorized transporter of casing head gas <input type="checkbox"/> or dry gas <input checked="" type="checkbox"/>	Date Connected 7-1-58	Address (give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company		Box 990, Farmington, New Mexico

If gas is not being sold, give reasons and also explain its present disposition:

REASON(S) FOR FILING (please check proper box)

- | | |
|---|--|
| New Well <input type="checkbox"/> | Change in Ownership <input type="checkbox"/> |
| Change in Transporter (check one) | Other (explain below) |
| Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> | |
| Casing head gas . <input type="checkbox"/> Condensate . . <input checked="" type="checkbox"/> | |

Remarks



The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 1st day of January, 19 63.

OIL CONSERVATION COMMISSION		By
Approved by	Original Signed Emery C. Arnold	Title Petroleum Engineer
Title	Supervisor Dist. # 3	Company El Paso Natural Gas Company
Date	APR 24 1963	Address Box 990, Farmington, New Mexico

CURRENT RECORDS:

CHANGE TO:

Blanco Mesaverde Pool Continued

San Juan 28-4 #8-36	N-36-28-4	San Juan 28-4 Unit #8
San Juan 28-4 Unit #9-32	N-32-28-4	San Juan 28-4 Unit #9
San Juan 28-4 Unit #11-31	G-31-28-4	San Juan 28-4 Unit #11
San Juan 28-4 Unit #12-33	K-33-28-4	San Juan 28-4 Unit #12
San Juan 28-4 Unit #13-20	N-20-28-4	San Juan 28-4 Unit #13
San Juan 28-4 Unit #14-29	H-29-28-4	San Juan 28-4 Unit #14
San Juan 28-4 Unit #15-29	M-29-28-4	San Juan 28-4 Unit #15
San Juan 28-4 Unit #16-30	H-30-28-4	San Juan 28-4 Unit #16
San Juan 28-4 Unit #17-20	A-20-28-4	San Juan 28-4 Unit #17
San Juan 28-4 Unit #18-31	M-31-28-4	San Juan 28-4 Unit #18
San Juan 28-4 Unit #20-30	M-30-28-4	San Juan 28-4 Unit #20
San Juan 28-4 #21-7	N-7-28-4	San Juan 28-4 Unit #21
San Juan 28-4 Unit #26-18	L-18-28-4	San Juan 28-4 Unit #26
San Juan 28-4 #28	H-19-28-4	San Juan 28-4 Unit #28
San Juan 28-5 #4	G-19-28-5	San Juan 28-5 Unit #4
San Juan 28-5 #21	L-35-28-5	San Juan 28-5 Unit #21
San Juan 28-5 Unit #47-36	B-36-28-5	San Juan 28-5 Unit #47
San Juan 28-6 Unit #1-17	G-17-28-6	San Juan 28-6 Unit #1
San Juan 28-6 #14	K-17-28-6	San Juan 28-6 Unit #14
San Juan 28-6 Unit #93-36	M-36-28-6	San Juan 28-6 Unit #93
San Juan 29-4 #1-30	K-30-29-4	San Juan 29-4 Unit #1
San Juan 29-4 Unit #7-8	D-8-29-4	San Juan 29-4 Unit #7
San Juan 29-4 Unit #12-18	B-18-29-4	San Juan 29-4 Unit #12
San Juan 29-4 #14-31	A-31-29-4	San Juan 29-4 Unit #14
San Juan 29-4 Unit #18-33	H-33-29-4	San Juan 29-4 Unit #18
San Juan 29-5 Unit #1-17	M-17-29-5	San Juan 29-5 Unit #1
San Juan 29-5 Unit #4-6	L-6-29-5	San Juan 29-5 Unit #4
San Juan 29-5 Unit #5-33X	A-33-29-5	San Juan 29-5 Unit #5-X
San Juan 29-5 Unit #6-27	K-27-29-5	San Juan 29-5 Unit #6
San Juan 29-5 Unit #7-7	A-7-29-5	San Juan 29-5 Unit #7
San Juan 29-5 Unit #8-35	K-35-29-5	San Juan 29-5 Unit #8
San Juan 29-5 Unit #9-26	L-26-29-5	San Juan 29-5 Unit #9
San Juan 29-5 Unit #10-16	L-16-29-5	San Juan 29-5 Unit #10
San Juan 29-5 Unit #11-19	K-19-29-5	San Juan 29-5 Unit #11
San Juan 29-5 Unit #12-30	M-30-29-5	San Juan 29-5 Unit #12
San Juan 29-5 Unit #13-30	H-30-29-5	San Juan 29-5 Unit #13
San Juan 29-5 Unit #14-27	G-27-29-5	San Juan 29-5 Unit #14
San Juan 29-5 Unit #15-20	B-20-29-5	San Juan 29-5 Unit #15
San Juan 29-5 #16-21	M-21-29-5	San Juan 29-5 Unit #16
San Juan 29-5 Unit #18-5	K-5-29-5	San Juan 29-5 Unit #18
San Juan 29-5 Unit #19-6	B-6-29-5	San Juan 29-5 Unit #19
San Juan 29-5 Unit #20-7	M-7-29-5	San Juan 29-5 Unit #20
San Juan 29-5 Unit #22-8	L-8-29-5	San Juan 29-5 Unit #22
San Juan 29-5 Unit #24-17	B-17-29-5	San Juan 29-5 Unit #24
San Juan 29-5 Unit #25-18	G-18-29-5	San Juan 29-5 Unit #25
San Juan 29-5 Unit #26-18	K-18-29-5	San Juan 29-5 Unit #26
San Juan 29-5 Unit #27-19	B-19-29-5	San Juan 29-5 Unit #27
San Juan 29-5 Unit #28-20	M-20-29-5	San Juan 29-5 Unit #28
San Juan 29-5 Unit #30-28	L-28-29-5	San Juan 29-5 Unit #30
San Juan 29-5 Unit #31-29	H-29-29-5	San Juan 29-5 Unit #31
San Juan 29-5 Unit #34-34	G-34-29-5	San Juan 29-5 Unit #34
San Juan 29-5 Unit #35-34	L-34-29-5	San Juan 29-5 Unit #35
San Juan 29-5 Unit #36-33	L-33-29-5	San Juan 29-5 Unit #36
San Juan 29-5 Unit #37-31	L-31-29-5	San Juan 29-5 Unit #37
San Juan 29-5 Unit #38-32	M-32-29-5	San Juan 29-5 Unit #38
San Juan 29-5 Unit #39-23	M-23-29-5	San Juan 29-5 Unit #39
San Juan 29-5 Unit #40-28	G-28-29-5	San Juan 29-5 Unit #40
San Juan 29-5 Unit #41-31	A-31-29-5	San Juan 29-5 Unit #41
San Juan 29-5 #42	H-32-29-5	San Juan 29-5 Unit #42
San Juan 29-5 Unit #43-22	M-22-29-5	San Juan 29-5 Unit #43
San Juan 29-5 Unit #45-22	A-22-29-5	San Juan 29-5 Unit #45
San Juan 29-5 Unit #46-21	B-21-29-5	San Juan 29-5 Unit #46
San Juan 29-5 Unit #47-4	L-4-29-5	San Juan 29-5 Unit #47

cc: El Paso Natural Gas Co. (3)
 Southern Union Gas Co.
 Southern Union Gathering Co.
 Oil Conservation Commission, Santa Fe
 U.S. Geological Survey

APPROVED E.S. Oberly
 El Paso Natural Gas Co.
 Effective 11-1-65

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-119
Effective 1-1-65

Operator Northwest Pipeline Corporation

Address 501 Airport Drive, Farmington, New Mexico 87401

Reason(s) for filing (check proper box) Other (Please explain)

New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>
Change in Ownership <input checked="" type="checkbox"/>	Condensing Gas <input type="checkbox"/>
	Dry Gas <input checked="" type="checkbox"/>
	Condensate <input checked="" type="checkbox"/>

If change of ownership give name and address of previous owner El Paso Natural Gas Company, PO Box 990, Farmington, New Mexico 87401

DESCRIPTION OF WELL AND LEASE

Lease Name <u>San Juan 29-5 Unit</u>	Well No. <u>26</u>	Pool Name, including Formation <u>Blanco Mesa Verde</u>	Kind of Lease State, Federal or Fee <u>X</u>	Lease No. <u>SF 073277</u>
Location Unit Letter <u>K</u> ; <u>1735</u> Feet From The <u>South</u> Line and <u>1730</u> Feet From The <u>West</u> Line of Section <u>18</u> Township <u>29N</u> Range <u>5W</u> , NMPM, <u>Rio Arriba</u> County				

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>Northwest Pipeline Corporation</u>	<u>501 Airport Drive, Farmington, New Mexico 87401</u>
Name of Authorized Transporter of Condensing Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>Northwest Pipeline Corporation</u>	<u>501 Airport Drive, Farmington, New Mexico 87401</u>
If well produces oil or liquids, give location of tanks.	Unit <u>K</u> Sec. <u>18</u> Twp. <u>29N</u> Rge. <u>5W</u> Is gas actually connected? <input type="checkbox"/> When

If this production is commingled with that from any other lease or pool, give commingling order number: _____

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
<u>X</u>								
Date Spudded	Date Compl. Ready to Prod.	Total Depth			P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay			Tubing Depth			
Perforations				Depth Casing Shoe				

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of lead oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

REC'D
JAN 22 1974
OIL CON. COM.
DIST. 3

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

(Signature)

(Title)

(Date)

OIL CONSERVATION COMMISSION

APPROVED FEB 7 1974, 19____

BY Original Signed by Emery C. Arnold

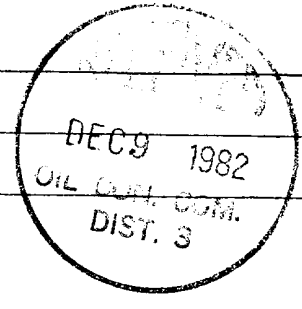
TITLE SUPERVISOR DIST. #3

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviated tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for change of owner, well name or number, or transporter, or other such change of conditions.
Separate Forms C-104 must be filed for each pool in multi-

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NEW MEXICO OIL CONSERVATION COMMISSION
 REQUEST FOR ALLOWABLE
 AND
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65



Operator
 Northwest Pipeline Corporation

Address
 P.O. Box 90, Farmington, New Mexico 87499

Reason(s) for filing (Check proper box) Other (Please explain)

New Well Change in Transporter of:
 Recompletion Oil Dry Gas
 Change in Ownership Casinghead Gas Condensate

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name: San Juan 29-5 Unit 26 Blanco Mesa Verde Kind of Lease: Federal or State Lease No.: SF-078277

Location: Unit Letter: K 1735 Feet from The: South Line and: 1730 Feet from The: West

Line of Section: 18 Township: 29N Range: 5W County: Rio Arriba

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil or Condensate Address (Give address to which approved copy of this form is to be sent):
 Petro Source Inc. 1979 So 700 West, Salt Lake City, Utah 84104

Name of Authorized Transporter of Casinghead Gas or Dry Gas Address (Give address to which approved copy of this form is to be sent):
 Northwest Pipeline Corporation P.O. Box 90, Farmington, New Mexico 87499

If well produces oil or liquids, give location of tanks: Unit: K Sec: 18 Twp: 29N Rge: 5W Is gas actually produced? When:

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Some Restv.	Diff. Restv.
Date Spudded	Date Compl. ready to Prod.		Total Depth		P.S.T.D.			
Elevations (DF, RAB, RT, GR, etc.)	Name of Producing Formation		Top Oil Gas Pay		Tubing Depth			
Perforations							Depth Casing Shoe	
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Donna J. Brace B
 Donna J. Brace (Signature)
 Production Clerk (Title)
 December 9, 1982

OIL CONSERVATION COMMISSION
 APPROVED Charles [Signature] 1982, 19
 BY Charles [Signature]
 TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3

This form is to be filed in compliance with RULE 1104.
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
 All sections of this form must be filled out completely for allowable on new and recompleted wells.
 Fill out only Sections I, II, III, and VI for changes of owner.

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ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 08-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator
Northwest Pipeline Corporation

Address
P.O. Box 90, Farmington, New Mexico 87499

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	<input type="checkbox"/> Dry Gas
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Condensate
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas	

Other (Please explain):

If change of ownership give name and address of previous owner:

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DIST. 3

II. DESCRIPTION OF WELL AND LEASE

Lease Name San Juan 29-5 Unit	Well No. 26	Pool Name, including Formation Blanco Mesa Verde	Kind of Lease SXXX Federal or XXX	Lease No. SF-078277
----------------------------------	----------------	---	--	------------------------

Location
Unit Letter K ; 1735 Feet From The South Line and 1730 Feet From The West
Line of Section 18 Township 29N Range 5W , NMPM, Rio Arriba County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> UPG, Inc.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 66, Liberal, Kansas 67901
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Northwest Pipeline Corporation	Address (Give address to which approved copy of this form is to be sent) P.O. Box 90, Farmington, New Mexico 87499
If well produces oil or liquids, give location of tanks. Unit: <u>K</u> Sec.: <u>18</u> Twp.: <u>29N</u> Rge.: <u>5W</u>	Is gas actually connected? <input type="checkbox"/> When

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Linda S. Marques
Linda S. Marques (Signature)
Production and Drilling Clerk
(Title)

January 9, 1985
(Date)

OIL CONSERVATION DIVISION

APPROVED JAN 18 1985
BY Frank J. [Signature]
TITLE SUPERVISOR DISTRICT # 3

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepene well, this form must be accompanied by a tabulation of the deviatric tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allow able on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owne: well name or number, or transporter, or other such change of conditio:
Separate Forms C-104 must be filed for each pool in multipl: completed wells.

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ENERGY AND MINERALS DEPARTMENT

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OIL CON. DIV.
DIST. 9

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator
Northwest Pipeline Corporation

Address
P.O. Box 90 - Farmington, New Mexico 87499

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	<input type="checkbox"/> Oil	<input type="checkbox"/> Dry Gas	Other (Please explain)
<input type="checkbox"/> Recompletion		<input type="checkbox"/> casinghead Gas	<input checked="" type="checkbox"/> Condensate	
<input type="checkbox"/> Change in Ownership				

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name San Juan 29-5 Unit	Well No. 26	Pool Name, including Formation Blanco Mesa Verde	Kind of Lease State Federal XXXX	Lease No. SF. 078277
Location Unit Letter <u>K</u> : <u>1735</u> Feet From The <u>South</u> Line and <u>1730</u> Feet From The <u>West</u>				
Line of Section <u>18</u> Township <u>29N</u> Range <u>5W</u> , NMPM, Rio Arriba County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Mancos Corporation	Address (Give address to which approved copy of this form is to be sent) P.O. Drawer 1320 - Farmington, NM 87499			
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Northwest Pipeline Corporation	Address (Give address to which approved copy of this form is to be sent) P.O. Box 90 - Farmington, New Mexico 87499			
If well produces oil or liquids, give location of tanks.	Unit K	Sec. 18	Twp. 29N	Rge. 5W
Is gas actually connected?		When		

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Carrie Harmon (Signature)
Carrie Harmon (Title)
Production & Drilling Clerk

January 7, 1986 (Date)

OIL CONSERVATION DIVISION
APPROVED JAN 20 1986
BY Frank J. [Signature]
TITLE SUPERVISOR DISTRICT # 3

This form is to be filed in compliance with RULE 1106.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviate tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiphase completed wells.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-104
Revised 10-01-78
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OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

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REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator
Northwest Pipeline Corporation

Address
P.O. Box 90 - Farmington, New Mexico 87499

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	<input type="checkbox"/> Dry Gas
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Condensate
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas	

Other (Please explain) _____

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name San Juan 29-5 Unit	Well No. 26	Pool Name, including Formation Blanco Mesa Verde	Kind of Lease State , Federal XXXX	Lease No. SF 078277
Location Unit Letter <u>K</u> ; <u>1735</u> Feet From The <u>South</u> Line and <u>1730</u> Feet From The <u>West</u> Line of Section <u>18</u> Township <u>29N</u> Range <u>5W</u> , NMPM, Rio Arriba County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Four-Four Inc.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 821 - Farmington, NM 87499
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Northwest Pipeline Corporation	Address (Give address to which approved copy of this form is to be sent) P.O. Box 90 - Farmington, NM 87499
If well produces oil or liquids, give location of tanks. Unit: <u>K</u> Sec: <u>18</u> Twp: <u>29N</u> Rge: <u>5W</u>	Is gas actually connected? _____ When _____

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and correct to the best of my knowledge and belief.

Carrie Harman
(Signature)
Production & Drilling Clerk
(Title)
May 28, 1986
(Date)

OIL CONSERVATION DIVISION

APPROVED Frank J. Long JUN 10 1986
BY _____
TITLE SUPERVISOR DISTRICT #3

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepen well, this form must be accompanied by a tabulation of the deviate tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for all able on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of ownr well name or number, or transporter, or other such change of conditic
Separate Forms C-104 must be filed for each pool in multip completed wells.

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OIL CONSERVATION DIVISION
 P. O. BOX 2088
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Form C-104
 Revised 10-01-78
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 Page 1

REQUEST FOR ALLOWABLE
 AND
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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 DIST. 3

Requestor: Northwest Pipeline Corporation
 Address: 3539 East 30th - Farmington, NM 87401
 Reason(s) for filing (Check proper box):
 New Well Change in Transporter of:
 Recompletion Oil Dry Gas
 Change in Ownership Casinghead Gas Condensate
 Other (Please explain): _____

If change of ownership give name and address of previous owner: _____

DESCRIPTION OF WELL AND LEASE

Well Name <u>San Juan 29-5 Unit</u>	Well No. <u>26</u>	Pool Name, including Formation <u>Blanco Mesa Verde</u>	Kind of Lease State Federal XXXX	Lease No. <u>SF 078277</u>
Location: Unit Letter <u>K</u> ; <u>1735</u> Feet From The <u>South</u> Line and <u>1730</u> Feet From The <u>West</u> Line of Section <u>18</u> Township <u>29N</u> Range <u>5W</u> , NMPM, <u>Rio Arriba</u> County				

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> <u>Gary Energy Corporation</u>	Address (Give address to which approved copy of this form is to be sent) <u>P.O. Box 159 - Bloomfield, NM 87413</u>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> <u>Northwest Pipeline Corporation</u>	Address (Give address to which approved copy of this form is to be sent) <u>3539 East 30th - Farmington, NM 87401</u>
Well produces oil or liquids, or location of tanks. Unit <u>K</u> Sec. <u>18</u> Twp. <u>29N</u> Rge. <u>5W</u>	Is gas actually connected? _____ When _____

If its production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Carrie Harmon
 (Signature)
 Production & Drilling Clerk
 (Title)
 May 27, 1988
 (Date)

OIL CONSERVATION DIVISION

APPROVED JUN 01 1988
 BY [Signature]
 TITLE SUPERVISION DISTRICT # 3

This form is to be filed in compliance with RULE 1104.
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
 All sections of this form must be filled out completely for allowable on new and recompleted wells.
 Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
 Separate Forms C-104 must be filed for each pool in multiply completed wells.

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

**REQUEST FOR ALLOWABLE AND AUTHORIZATION
 TO TRANSPORT OIL AND NATURAL GAS**

I.

Operator PHILLIPS PETROLEUM COMPANY	Well API No.
Address 300 W ARRINGTON, SUITE 200, FARMINGTON, NM 87401	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of: Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Recompletion <input type="checkbox"/>	Crudehead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
Change in Operator <input checked="" type="checkbox"/>	
If change of operator give name and address of previous operator Northwest Pipeline Corp., 3535 E. 30th, Farmington, NM 87401	

II. DESCRIPTION OF WELL AND LEASE

Lease Name San Juan 29-5 Unit	Well No. 26	Pool Name, Including Formation BLANCO MESAVERDE	Kind of Lease State, Federal or FreeX	Lease No.
Location Ush Letter K : 1735 Feet From The South Line and 1730 Feet From The West Line Section 18 Township 29N Range 5W , NMPM , Rio Arriba County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Gary Energy	Address (Give address to which approved copy of this form is to be sent) P.O. Box 159, Bloomfield, NM 87413			
Name of Authorized Transporter of Crudehead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Northwest Pipeline Corp.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 58900, SLC, Utah 84158-0900			
If well produces oil or Exp. Gas, give location of tanks.	Unit	Sec.	Trp.	Rgn.
Is gas actually connected?		When? Attn: Claire Potter		
If this production is commingled with that from any other lease or pool, give commingling order number.				

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth		F.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations				Depth Casing Shoe				
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
	Tubing Pressure	Casing Pressure	RECEIVED APR 01 1991
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

L. E. Robinson
 Signature
L. E. Robinson Sr. Drig. & Prod. Engr.
 Printed Name
APR 0 1 1991 (505) 599-3412
 Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved **APR 0 1 1991**

By *[Signature]*
SUPERVISOR DISTRICT 13
 Title

- INSTRUCTIONS:** This form is to be filed in compliance with Rule 1104
- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
 - 2) All sections of this form must be filled out for allowable on new and recompleted wells.
 - 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
 - 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

**REQUEST FOR ALLOWABLE AND AUTHORIZATION
 TO TRANSPORT OIL AND NATURAL GAS**

I. OPERATOR

Operator PHILLIPS PETROLEUM COMPANY	Well APN No. 3003907614
Address 5525 HWY 64 NBU 3004, FARMINGTON, NEW MEXICO 87401	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of: Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Recompletion <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input checked="" type="checkbox"/>
Change in Operator <input type="checkbox"/>	

If change of operator give name and address of previous operator _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name San Juan 29-5 Unit	Well No. 26	Pool Name, Including Formation Blanco Mesaverde	Kind of Lease State, Federal or Fee	Lease No.
Location Unit Letter <u>K</u> : <u>1735</u> Feet From The <u>South</u> Line and <u>1730</u> Feet From The <u>West</u> Line Section <u>18</u> Township <u>29N</u> Range <u>5W</u> , <u>NMPM</u> , Rio Arriba County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Meridian Oil Transporters, Inc.	Address (Give address to which approved copy of this form is to be sent) 3535 E. 30th. St., Farmington, NM 87401
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Williams Field Services	Address (Give address to which approved copy of this form is to be sent) PO Box 58900, Salt Lake City, UT 84158-0900
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When? Attn: Claire Potter

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (DF, RKB, RI, GR, etc.)	Name of Producing Formation	Top Oil/Gas Layer	Tubing Depth					
Perforations			Depth Casing Shoes					

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

L. E. Robinson
 Signature
 L. E. Robinson Sr. Drlg. & Prod. Engr.
 Printed Name
 5-30-91 Title
 Date (505) 599-3412 Telephone No.

OIL CONSERVATION DIVISION

Date Approved JUN 04 1991

By [Signature]
 Title SUPERVISOR DISTRICT #3

RECEIVED
 JUN 4 1991

OIL CON. DIV.

- INSTRUCTIONS:** This form is to be filed in compliance with Rule 1104
- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
 - 2) All sections of this form must be filled out for allowable on new and recompleted wells.
 - 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
 - 4) Separate Form C-104 must be filed for each pool in multiply completed wells.