

5 - USED
1 - L. G. Truby
1 - File

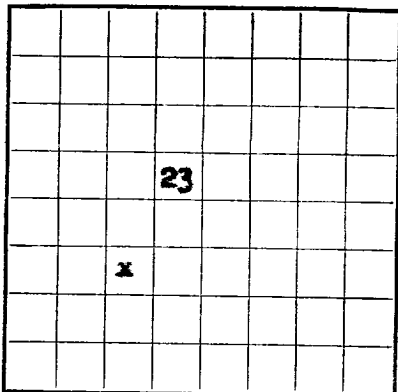
Form 9-330

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

U. S. LAND OFFICE **Santa Fe**

SERIAL NUMBER **SF-070804**

LEASE OR PERMIT TO PROSPECT **14-08-001-139**



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **PACIFIC NORTHWEST PIPELINE CORP.** Address **405 1/2 W. Broadway, Farmington, N.M.**
Lessor or Tract **29-6** Field **Blanco Mesa Verde** State **New Mexico**
Well No. **27-23** Sec. **23** T. **29N** R. **6W** Meridian **N.M.P.M.** County **Rio Arriba**
Location **1650** ft. **N** of **8** Line and **1850** ft. **E** of **W** Line of **Section 23** Elevation **6706**
(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 T. A. Dugan**

Date **April 15, 1957**

Title **Assistant Division Manager**

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

Commenced drilling **January 26,** 19 **57** Finished drilling **FEBRUARY 13,** 19 **57**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **0 5406'** to **5926'**

No. 4, from

No. 2, from

No. 5, from

No. 3, from

No. 6, from

IMPORTANT WATER SANDS

No. 1, from **None** to

No. 2, from

No. 2, from

No. 4, from

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Used in well	From	To	Perforated	Purpose
10-3/4	32.75	8 RA	CPAI	229.00	Box. Pct.				
7-5/8	24.00	8 RA	CPAI	112.00	Box. Pct.				
5-1/2	18.75	8 RA	CPAI	56.00	Box. Pct.				
2-3/8	11.75	8 RA	CPAI	28.00	Box. Pct.				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	243'	150	Pump Plug		
7-5/8	3808'	200	Pump Plug		
5-1/2	5977.57'	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 **5978'** feet, and from feet to feet

Cable tools were used from feet to feet, and from feet to feet

DATES

March 1, 19 **57** 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 **5,055** Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. **Tubing 1100 Casing 1104 CAGW 8,723**

EMPLOYEES

, Driller , Driller

, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	2758'	2758'	Surface
2758'	2906'	148'	Ojo Alamo
2906'	3327'	421'	Kirtland
3327'	3586'	259'	Fruitland
3586'	3726'	140'	Pictured Cliffs
3726'	5398'	1672'	Lewis
5398'	5493'	95'	Cliff House
5493'	5784'	291'	Mesa
5784'			Point Lookout
5978'			Total Depth
5970'			Plug Back Total Depth

FROM—

TO—

TOTAL FEET

(OVER)

FORMATION

16-43094-4

FORMATION RECORD—Continued

5 - USED
1 - L. G. Truby
1 - File

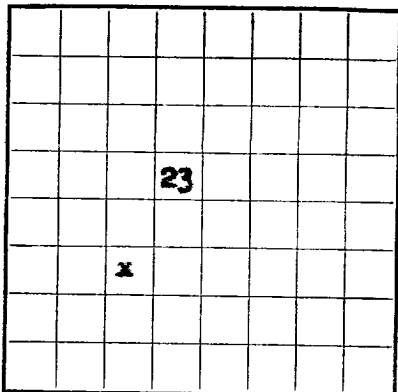
Form 9-330

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

U. S. LAND OFFICE **Santa Fe**

SERIAL NUMBER **SF-070804**

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Well No. **27-23** Sec. **23** T. **29N** R. **6W** Meridian **N.M.P.M.** County **Rio Arriba**
Location **1650** ft. **N** of **8** Line and **1850** ft. **E** of **W** Line of **Section 23** Elevation **6706**
(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 T. A. Dugan**

Date **April 15, 1957**

Title **Assistant Division Manager**

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

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OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **0 5406'** to **5926'**

No. 4, from

No. 2, from

No. 5, from

No. 3, from

No. 6, from

IMPORTANT WATER SANDS

No. 1, from **None** to

No. 2, from

No. 2, from

No. 4, from

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Depth set	Depth run	Perforated	Purpose
10-3/4	32.75	8 RA	CPAI	229.00	Box. Pit			
7-5/8	24.1	8 RA	CPAI	112.00	2758'			
5-1/2	18.7	8 RA	CPAI	59.00	5978'			
2-3/8	11.7	8 RA	CPAI	59.00	5978'			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	243'	150	Pump Plug		
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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

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DATES

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EMPLOYEES

, Driller , Driller

, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
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5784'			Point Lookout
5978'			Total Depth
5970'			Plug Back Total Depth

FROM—

TO—

TOTAL FEET

(OVER)

FORMATION

16-43094-4

FORMATION RECORD—Continued

U. S. LAND OFFICE
Serial Number
I have or permit to prospect

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

YIELD: 100% (100% YIELD)

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

Signed _____

Witness _____

I am hereby _____
of _____

Witness _____

Address _____

Obtest signed by T. A. Dugan

100-443887-1000

OIL OR GAS SANDS OR ZONES

(Debate over the)

1946-47, 300 gals water. No 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000, 10100, 10200, 10300, 10400, 10500, 10600, 10700, 10800, 10900, 11000, 11100, 11200, 11300, 11400, 11500, 11600, 11700, 11800, 11900, 12000, 12100, 12200, 12300, 12400, 12500, 12600, 12700, 12800, 12900, 13000, 13100, 13200, 13300, 13400, 13500, 13600, 13700, 13800, 13900, 14000, 14100, 14200, 14300, 14400, 14500, 14600, 14700, 14800, 14900, 15000, 15100, 15200, 15300, 15400, 15500, 15600, 15700, 15800, 15900, 16000, 16100, 16200, 16300, 16400, 16500, 16600, 16700, 16800, 16900, 17000, 17100, 17200, 17300, 17400, 17500, 17600, 17700, 17800, 17900, 18000, 18100, 18200, 18300, 18400, 18500, 18600, 18700, 18800, 18900, 19000, 19100, 19200, 19300, 19400, 19500, 19600, 19700, 19800, 19900, 20000, 20100, 20200, 20300, 20400, 20500, 20600, 20700, 20800, 20900, 21000, 21100, 21200, 21300, 21400, 21500, 21600, 21700, 21800, 21900, 22000, 22100, 22200, 22300, 22400, 22500, 22600, 22700, 22800, 22900, 23000, 23100, 23200, 23300, 23400, 23500, 23600, 23700, 23800, 23900, 24000, 24100, 24200, 24300, 24400, 24500, 24600, 24700, 24800, 24900, 25000, 25100, 25200, 25300, 25400, 25500, 25600, 25700, 25800, 25900, 26000, 26100, 26200, 26300, 26400, 26500, 26600, 26700, 26800, 26900, 27000, 27100, 27200, 27300, 27400, 27500, 27600, 27700, 27800, 27900, 28000, 28100, 28200, 28300, 28400, 28500, 28600, 28700, 28800, 28900, 29000, 29100, 29200, 29300, 29400, 29500, 29600, 29700, 29800, 29900, 30000, 30100, 30200, 30300, 30400, 30500, 30600, 30700, 30800, 30900, 31000, 31100, 31200, 31300, 31400, 31500, 31600, 31700, 31800, 31900, 32000, 32100, 32200, 32300, 32400, 32500, 32600, 32700, 32800, 32900, 33000, 33100, 33200, 33300, 33400, 33500, 33600, 33700, 33800, 33900, 34000, 34100, 34200, 34300, 34400, 34500, 34600, 34700, 34800, 34900, 35000, 35100, 35200, 35300, 35400, 35500, 35600, 35700, 35800, 35900, 36000, 36100, 36200, 36300, 36400, 36500, 36600, 36700, 36800, 36900, 37000, 37100, 37200, 37300, 37400, 37500, 37600, 37700, 37800, 37900, 38000, 38100, 38200, 38300, 38400, 38500, 38600, 38700, 38800, 38900, 39000, 39100, 39200, 39300, 39400, 39500, 39600, 39700, 39800, 39900, 40000, 40100, 40200, 40300, 40400, 40500, 40600, 40700, 40800, 40900, 41000, 41100, 41200, 41300, 41400, 41500, 41600, 41700, 41800, 41900, 42000, 42100, 42200, 42300, 42400, 42500, 42600, 42700, 42800, 42900, 43000, 43100, 43200, 43300, 43400, 43500, 43600, 43700, 43800, 43900, 44000, 44100, 44200, 44300, 44400, 44500, 44600, 44700, 44800, 44900, 45000, 45100, 45200, 45300, 45400, 45500, 45600, 45700, 45800, 45900, 46000, 46100, 46200, 46300, 46400, 46500, 46600, 46700, 46800, 46900, 47000, 47100, 47200, 47300, 47400, 47500, 47600, 47700, 47800, 47900, 48000, 48100, 48200, 48300, 48400, 48500, 48600, 48700, 48800, 48900, 49000, 49100, 49200, 49300, 49400, 49500, 49600, 49700, 49800, 49900, 50000, 50100, 50200, 50300, 50400, 50500, 50600, 50700, 50800, 50900, 51000, 51100, 51200, 51300, 51400, 51500, 51600, 51700, 51800, 51900, 52000, 52100, 52200, 52300, 52400, 52500, 52600, 52700, 52800, 52900, 53000, 53100, 53200, 53300, 53400, 53500, 53600, 53700, 53800, 53900, 54000, 54100, 54200, 54300, 54400, 54500, 54600, 54700, 54800, 54900, 55000, 55100, 55200, 55300, 55400, 55500, 55600, 55700, 55800, 55900, 56000, 56100, 56200, 56300, 56400, 56500, 56600, 56700, 56800, 56900, 57000, 57100, 57200, 57300, 57400, 57500, 57600, 57700, 57800, 57900, 58000, 58100, 58200, 58300, 58400, 58500, 58600, 58700, 58800, 58900, 59000, 59100, 59200, 59300, 59400, 59500, 59600, 59700, 59800, 59900, 60000, 60100, 60200, 60300, 60400

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. State also how and where the casing was made in the casing, state fully, and if any casing was "sidetracked," or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Form - 8
Bureau

CASING RECORD

206-10, 207-10, 208-10, 209-10, 210-10, 211-10, 212-10, 213-10, 214-10, 215-10, 216-10, 217-10, 218-10, 219-10, 220-10, 221-10, 222-10, 223-10, 224-10, 225-10, 226-10, 227-10, 228-10, 229-10, 230-10, 231-10, 232-10, 233-10, 234-10, 235-10, 236-10, 237-10, 238-10, 239-10, 240-10, 241-10, 242-10, 243-10, 244-10, 245-10, 246-10, 247-10, 248-10, 249-10, 250-10, 251-10, 252-10, 253-10, 254-10, 255-10, 256-10, 257-10, 258-10, 259-10, 260-10, 261-10, 262-10, 263-10, 264-10, 265-10, 266-10, 267-10, 268-10, 269-10, 270-10, 271-10, 272-10, 273-10, 274-10, 275-10, 276-10, 277-10, 278-10, 279-10, 280-10, 281-10, 282-10, 283-10, 284-10, 285-10, 286-10, 287-10, 288-10, 289-10, 290-10, 291-10, 292-10, 293-10, 294-10, 295-10, 296-10, 297-10, 298-10, 299-10, 300-10, 301-10, 302-10, 303-10, 304-10, 305-10, 306-10, 307-10, 308-10, 309-10, 310-10, 311-10, 312-10, 313-10, 314-10, 315-10, 316-10, 317-10, 318-10, 319-10, 320-10, 321-10, 322-10, 323-10, 324-10, 325-10, 326-10, 327-10, 328-10, 329-10, 330-10, 331-10, 332-10, 333-10, 334-10, 335-10, 336-10, 337-10, 338-10, 339-10, 340-10, 341-10, 342-10, 343-10, 344-10, 345-10, 346-10, 347-10, 348-10, 349-10, 350-10, 351-10, 352-10, 353-10, 354-10, 355-10, 356-10, 357-10, 358-10, 359-10, 360-10, 361-10, 362-10, 363-10, 364-10, 365-10, 366-10, 367-10, 368-10, 369-10, 370-10, 371-10, 372-10, 373-10, 374-10, 375-10, 376-10, 377-10, 378-10, 379-10, 380-10, 381-10, 382-10, 383-10, 384-10, 385-10, 386-10, 387-10, 388-10, 389-10, 390-10, 391-10, 392-10, 393-10, 394-10, 395-10, 396-10, 397-10, 398-10, 399-10, 400-10, 401-10, 402-10, 403-10, 404-10, 405-10, 406-10, 407-10, 408-10, 409-10, 410-10, 411-10, 412-10, 413-10, 414-10, 415-10, 416-10, 417-10, 418-10, 419-10, 420-10, 421-10, 422-10, 423-10, 424-10, 425-10, 426-10, 427-10, 428-10, 429-10, 430-10, 431-10, 432-10, 433-10, 434-10, 435-10, 436-10, 437-10, 438-10, 439-10, 440-10, 441-10, 442-10, 443-10, 444-10, 445-10, 446-10, 447-10, 448-10, 449-10, 450-10, 451-10, 452-10, 453-10, 454-10, 455-10, 456-10, 457-10, 458-10, 459-10, 460-10, 461-10, 462-10, 463-10, 464-10, 465-10, 466-10, 467-10, 468-10, 469-10, 470-10, 471-10, 472-10, 473-10, 474-10, 475-10, 476-10, 477-10, 478-10, 479-10, 480-10, 481-10, 482-10, 483-10, 484-10, 485-10, 486-10, 487-10, 488-10, 489-10, 490-10, 491-10, 492-10, 493-10, 494-10, 495-10, 496-10, 497-10, 498-10, 499-10, 500-10, 501-10, 502-10, 503-10, 504-10, 505-10, 506-10, 507-10, 508-10, 509-10, 510-10, 511-10, 512-10, 513-10, 514-10, 515-10, 516-10, 517-10, 518-10, 519-10, 520-10, 521-10, 522-10, 523-10, 524-10, 525-10, 526-10, 527-10, 528-10, 529-10, 530-10, 531-10, 532-10, 533-10, 534-10, 535-10, 536-10, 537-10, 538-10, 539-10, 540-10, 541-10, 542-10, 543-10, 544-10, 545-10, 546-10, 547-10, 548-10, 549-10, 550-10, 551-10, 552-10, 553-10, 554-10, 555-10, 556-10, 557-10, 558-10, 559-10, 560-10, 561-10, 562-10, 563-10, 564-10, 565-10, 566-10, 567-10, 568-10, 569-10, 570-10, 571-10, 572-10, 573-10, 574-10, 575-10, 576-10, 577-10, 578-10, 579-10, 580-10, 581-10, 582-10, 583-10, 584-10, 585-10, 586-10, 587-10, 588-10, 589-10, 590-10, 591-10, 592-10, 593-10, 594-10, 595-10, 596-10, 597-10, 598-10, 599-10, 600-10, 601-10, 602-10, 603-10, 604-10, 605-10, 606-10, 607-10, 608-10, 609-10, 610-10, 611-10, 612-10, 613-10, 614-10, 615-10, 616-10, 617-10, 618-10, 619-10, 620-10, 621-10, 622-10, 623-10, 624-10, 625-10, 626-10, 627-10, 628-10, 629-10, 630-10, 631-10, 632-10, 633-10, 634-10, 635-10, 636-10, 637-10, 638-10, 639-10, 640-10, 641-10, 642-10, 643-10, 644-10, 645-10, 646-10, 647-10, 648-10, 649-10, 650-10, 651-10, 652-10, 653-10, 654-10, 655-10, 656-10, 657-10, 658-10, 659-10, 660-10, 661-10, 662-10, 663-10, 664-10, 665-10, 666-10, 667-10, 668-10, 669-10, 670-10, 671-10, 672-10, 673-10, 674-10, 675-10, 676-10, 677-10, 678-10, 679-10, 680-10, 681-10, 682-10, 683-10, 684-10, 685-10, 686-10, 687-10, 688-10, 689-10, 690-10, 691-10, 692-10, 693-10, 694-10, 695-10, 696-10, 697-10, 698-10, 69

HISTORY OF OIL OR GAS WELL

FROM		TO		TOTAL FEET		FORMATION	
1	10'	10'	10'	20'	10'	10'	10'
2	10'	10'	10'	20'	10'	10'	10'
3	10'	10'	10'	20'	10'	10'	10'
4	10'	10'	10'	20'	10'	10'	10'
5	10'	10'	10'	20'	10'	10'	10'
6	10'	10'	10'	20'	10'	10'	10'
7	10'	10'	10'	20'	10'	10'	10'
8	10'	10'	10'	20'	10'	10'	10'
9	10'	10'	10'	20'	10'	10'	10'
10	10'	10'	10'	20'	10'	10'	10'
11	10'	10'	10'	20'	10'	10'	10'
12	10'	10'	10'	20'	10'	10'	10'
13	10'	10'	10'	20'	10'	10'	10'
14	10'	10'	10'	20'	10'	10'	10'
15	10'	10'	10'	20'	10'	10'	10'
16	10'	10'	10'	20'	10'	10'	10'
17	10'	10'	10'	20'	10'	10'	10'
18	10'	10'	10'	20'	10'	10'	10'
19	10'	10'	10'	20'	10'	10'	10'
20	10'	10'	10'	20'	10'	10'	10'
21	10'	10'	10'	20'	10'	10'	10'
22	10'	10'	10'	20'	10'	10'	10'
23	10'	10'	10'	20'	10'	10'	10'
24	10'	10'	10'	20'	10'	10'	10'
25	10'	10'	10'	20'	10'	10'	10'
26	10'	10'	10'	20'	10'	10'	10'
27	10'	10'	10'	20'	10'	10'	10'
28	10'	10'	10'	20'	10'	10'	10'
29	10'	10'	10'	20'	10'	10'	10'
30	10'	10'	10'	20'	10'	10'	10'
31	10'	10'	10'	20'	10'	10'	10'
32	10'	10'	10'	20'	10'	10'	10'
33	10'	10'	10'	20'	10'	10'	10'
34	10'	10'	10'	20'	10'	10'	10'
35	10'	10'	10'	20'	10'	10'	10'
36	10'	10'	10'	20'	10'	10'	10'
37	10'	10'	10'	20'	10'	10'	10'
38	10'	10'	10'	20'	10'	10'	10'
39	10'	10'	10'	20'	10'	10'	10'
40	10'	10'	10'	20'	10'	10'	10'
41	10'	10'	10'	20'	10'	10'	10'
42	10'	10'	10'	20'	10'	10'	10'
43	10'	10'	10'	20'	10'	10'	10'
44	10'	10'	10'	20'	10'	10'	10'
45	10'	10'	10'	20'	10'	10'	10'
46	10'	10'	10'	20'	10'	10'	10'
47	10'	10'	10'	20'	10'	10'	10'
48	10'	10'	10'	20'	10'	10'	10'
49	10'	10'	10'	20'	10'	10'	10'
50	10'	10'	10'	20'	10'	10'	10'
51	10'	10'	10'	20'	10'	10'	10'
52	10'	10'	10'	20'	10'	10'	10'
53	10'	10'	10'	20'	10'	10'	10'
54	10'	10'	10'	20'	10'	10'	10'
55	10'	10'	10'	20'	10'	10'	10'
56	10'	10'	10'	20'	10'	10'	10'
57	10'	10'	10'	20'	10'	10'	10'</

FORMATION RECORD—Continued