DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE U.S. DEPARTMENT OF ENERGY

OPEN-FILE REPORT
79-1217
SHEET 4 OF 4

DRILL STEM TEST INFORMATION

Compiled from Petroleum Information Corporation
Well History Control System (WHCS) Data

EXPLANATION--DRILLING SYMBOLS AND ABBREVIATIONS

DST	Drill-stem test	WC	Water cushion	◇	Dry and abandoned well
WLT	Wireline test	WCO	Water cut oil	☼ From the Almond	Gas well--Shows producing formation
GTS	Gas to surface	SWTR	Salt water	✱ Abd. 1969	Abandoned producing well--Shows date abandoned
TSTM	Too small to measure	GCM	Gas cut mud	●	Oil Well
Rec	Recovered	SMCO	Slightly mud cut oil	KB 3350	Kelley bushing, elevation in feet
BOPD	Barrels of oil per day	SOCW	Slightly oil cut water	DF 3350	Derrick floor, elevation in feet
BWPD	Barrels of water per day	SGCMW	Slightly gas cut muddy water	TD 3317	Total depth of well in feet
MCFD	Thousand cubic feet per day	G&OCM	Gas and oil cut mud	›I	Drill-stem test interval
BCPD	Barrels condensate per day	SGCW	Slightly gas cut water	▮	Cored interval
IPF	Initial production flow	M&DT&FW	Mud and DT and fresh water		
FP	Flow pressure	WTR	Water		
FFP	Final flow pressure	HGCM	Heavily gas cut mud		
SIP	Shut in pressure	FRAC	Hydraulic fracturing		
ISIP	Initial shut in pressure	DCO	Diesel-oil-cement squeeze		
FSIP	Final shut in pressure	STRD	Straddle packer		
HP	Hydrostatic pressure	SOFR	Sdoilfrac		
FHP	Final hydrostatic pressure				

METRIC EQUIVALENTS

1 ft = 0.305 m
1 psi = 7.03×10^{-2} Kg per cm^2
1 BOPD = 159 liters of oil per day
1 MCFD = 28.32 m^3 per day
1 BWPD = 159 liters of water per day

Sheet 1

1 — From the Almond

DST 01
5752-5878 ft
GTS 4 min, 4950 MCFD
Rec 330 ft M&DT&FW
FP 385-969 psi
ISIP 2215 psi/90 min
FSIP 2169 psi/90 min

DST 02
5814-5943
Rec 180 ft MUD, 135 ft WTR
FP 100-265 psi
ISIP no data
FSIP 310 psi/15 min
HP 3220-3225 psi

Perforation Tests:
5702-5714 ft, 5755-5779 ft } SOFR 2,000 gals, 32,000 lbs. SAND
5794-5804 ft IPF 17,700 MCFD

2

DST 01
4925-5004 ft
Rec 15 ft MUD
FFP 15 psi
ISIP no data
FSIP 15 psi/30 min.
FHP 2610 psi

DST 02
5594-5735 ft
GTS 6 min, 218 MCFD, 1380 MCFD END TEST
Rec 496 ft GCM
FP 110-360 psi
ISIP 2220 psi/45 min
FSIP 2140 psi/45 min
FHP 2755 psi

3 — From the Almond

DST 01
3778-3805 ft
Rec 60 ft MUD, 610 ft SGCW
FHP 2040 psi

DST 02
4102-4119 ft
Rec 60 ft MUD, 1040 ft GCW
FP 140-470 psi

DST 03
5727-5744 ft.
GTS 1 min, 2600 MCFD
Rec 2 ft DIST
FP 1210-1340 psi
ISIP 2120 psi/15 min
FSIP 2150 psi/30 min
FHP 3188 psi

DST 04
5754-5708 ft
Rec 910 ft MUD

DST 05
5991-6008 ft
Rec 120 ft MUD, 590 ft SWTR
FP 90-270 psi
ISIP 2935 psi/15 min
FSIP 2120 psi/15 min
HP 3400-3380 psi

Perforation Tests:
5728-5742 ft } SOFR 10,000 gals, 10,000 lbs SAND
IPF 15,000 MCFD

4

DST 01
5748-5768 ft
Rec 60 ft MUD, 90 ft MCW, 90 ft SWTR
FP 60-120 psi
ISIP 1990 psi/20 min
FSIP 1635 psi/20 min
HP 2975-2945 psi

DST 02
6022-6039 ft
GTS 68 min
Rec 215 ft SGCM
FP 45-100 psi
ISIP 812 psi/20 min
FSIP 1210 psi/20 min
HP 3075-3045 psi

DST 03
6129-6144 ft
Rec 120 ft MUD, 180 ft WTR
FP 0-138 psi
ISIP 2815 psi/20 min
FSIP 2138 psi/20 min
HP 3072-3028 psi

5 — From the Almond

DST 01
5176-5200 ft
GTS 10 min, 70 MCFD
Rec 550 ft G&DCO, 538 ft G&GCM
FP 85-345 psi
ISIP 1860 psi/30 min
FSIP 1820 psi/45 min
FHP 2660 psi

Perforation Tests:
5172-5182 ft, 5182-5192 ft, 5192-5198 ft } Acidized IPF 792 BOPD, 553 MCFD

6 — From the Lewis and Almond

DST 01
4983-5508 ft
Rec 10 ft SGCM
FFP 0 psi
FSIP 22 psi/15 min
FHP 2215 psi

DST 02
5705-5727 ft
GTS 75 min, 28 MCFD
Rec 90 ft GCM
FP 0-42 psi
FSIP 2075 psi/75 min
FHP 2995 psi

DST 03
5732-5762 ft
GTS 71 min, 133.5 MCFD
Rec 135 ft GCM
FP 142-65 psi
FSIP 2168 psi/71 min
FHP 2940 psi

DST 04
5764-5776 ft
Tool plugged

DST 05
5764-5776 ft
Rec 5 ft SGCM

DST 06
6430-6450 ft
GTS 23 min, 38 MCFD
Rec 30 ft GCM
FP 140-150 psi
FSIP 2100 psi/49 min
FHP 3500 psi

DST 07
6518-6545 ft
GTS 28 min, 109 MCFD
Rec 95 ft GCM
FFP 42 psi
FSIP 2326 psi/45 min
FHP 3330 psi

DST 08
6546-6575 ft
Rec 10 ft SGCM
FFP 20 psi
FSIP 115 psi/45 min

DST 09
6586-6634 ft
GTS 36 min, 6 MCFD INCR. TO 8 MCFD
Rec 95 ft GCM
FP 50-100 psi
FSIP 1725 psi/45 min

DST 10
6652-6708 ft
GTS 30 min, 44 MCFD
Rec 120 ft GCM, 510 ft GCM SWTR
FFP 200 psi
FSIP 2300 psi/30 min

DST 11
6756-6766 ft
GTS 15 min, 47 MCFD
Rec 30 ft GCM
FFP 20 psi
FSIP 2730 psi/49 min
FHP 3535

DST 12
6850-6878 ft
GTS 20 min, 420 ft GCSWTR
FP 165-325 psi
FSIP 2335 psi/45 min
FHP 3540 psi

DST 13
7570-7616 ft
GTS 52 mins
Rec 270 ft GCM
FP 180-160 psi
FSIP 300 psi/30 min

DST 14
7615-7650 ft
Rec 30 ft MUD
FFP 50 psi
FSIP 200 psi/45 min

DST 15
7684-7700 ft
Rec 720 ft SGCM
FP 100-260 psi
FSIP 300 psi/30 min

DST 16
7722-7756 ft
Rec 1740 ft GCM
FP 275-598 psi
FSIP 765 psi/60 min
FHP 4022 psi

Perforation Tests:
5711-5723 ft, 5735-5756 ft } FRAC
6433-6448 ft - SOFR 1,260 gals, 1,260 lbs SAND
6529-6537 ft, 6593-6611 ft, 6760-6776 ft } - SOFR 300 gals, 3,000 lbs SAND
} IPF 981 MCFD

7

No Drill Stem Tests

Perforation Tests:
7001-7025 ft Acid 500 gals, SWTR 58,000 gals, 29,000 lbs SAND

SHEET 2

8

DST 01
6818-6855 ft
Rec 900 ft VGCM, 0.4 cft GAS, 700 MW
FP 268-381 psi
ISIP 974 psi/45 min
FSIP 512 psi/60 min
HP 3591-3552 psi

DST 02
6987-7008 ft
GTS 4 min, 8 min 133 MCFD, 18 min 156 MCFD, 40 min 108 MCFD
Rec 2116 ft HGCM, 3.76 cft GAS
FP 512-615 psi
ISIP 2552 psi/45 min
FSIP 2571 psi/150 min
HP 3619-3619 psi

DST 03
6987-7008 ft Misrun

DST 04
6987-7008 ft
GTS 3 min, 121 MCFD
Rec 3 ft MUD
FP 44-56 psi
ISIP 2496 psi/120 min
FSIP 2206 psi/120 min
HP 3666-3647 psi

DST 05
7012-7100 ft
GTS 8 min 86 MCFD, 90 min 14 MCFD Stabilized
Rec 470 ft GCM
FP 123-223 psi
ISIP 1608 psi/130 min
FSIP 1978 psi/120 min
HP 3076-3635 psi

WLT 01
5191-5194 ft
Rec 10 cft GAS, 20,500 cc WTR
FFP 1000 psi
FSIP 2250 psi/15 min

WLT 02
4954-4967 ft
Rec 5 cft GAS, 14,500 cc WTR
FFP 400 psi
ISIP 2250 psi/15 min
FSIP 1700 psi/17 min

9

DST 01
5159-5285 ft
Rec 2640 ft GAS, 88 ft VSGCM
FP 52-65 psi
ISIP 394 psi/45 min
FSIP 1104 psi/75 min
HP 2698-2672 psi

DST 02
6930-6980 ft
GTS 23 min TSTM
Rec 170 ft VSGCM
FP 82-115 psi
ISIP 740 psi/60 min
FSIP 839 psi/75 min
HP 3697-3616 psi

10

WLT 01
5623-5626 ft
Rec 500 cc MWTR, 35.5 cft GAS
FP 240-92 psi
ISIP 2410 psi/5 min
FSIP 2290 psi/30 min

WLT 02
7215-7218 ft Misrun

WLT 03
7217-7218 ft
Rec 6 cc MUD, 0.4 cft GAS
FP 0-0 psi
ISIP 0 psi/5 min
FSIP 0 psi/30 min

11 — From the Almond

DST 01
6630-6665 ft
Rec 30 ft MUD, 2240 cc MUD
FP 17-36 psi
ISIP 2000 psi/60 min
FSIP 400 psi/30 min
HP 3523-3523 psi

DST 02 (STRD)
6740-6820 ft
GTS 19 min, 30 min 36.5 MCFD, 45 min 22.8 MCFD
Rec 125 ft MUD, 0.58 cft GAS
FP 65-65 psi
ISIP 1894 psi/45 min
FSIP 1575 psi/60 min
FHP 3533 psi

DST 03
6740-6820 ft Misrun

DST 04
6750-6805 ft
GTS 20 min, 40 min 6600 MCFD, 9700 MCFD END OF TEST
Rec 450 ft GOM, 86 cft GAS
FP 201-396 psi
ISIP 2753 psi/90 min
FSIP 2733 psi/120 min
HP 3571-3552 psi

Perforation Tests:
6743-6747 ft, 6754-6762 ft, 6778-6793 ft, 6796-6802 ft, 6804-6814 ft } SOFR 56,500 gals, 46,750 lbs. SAND
IPF 26 BCPD, 8340 MCFD, 4 BWPD

12

DST 01
7147-7242 ft
Rec 185 ft VSGCM
FP 300-180 psi
FSIP 405 psi/90 min

13

NO DST Test or Completion Data.

14

DST 01
7411-7515 ft Misrun

DST 02
7480-7521 ft STRD
Rec 95 ft VSGCM
FP 79-79 psi
ISIP 421 psi/60 min
FSIP 532 psi/90 min
HP 3735-3684 psi

SHEET 3

15

NO DST Test or Completion Data

16

DST 01
6190-6296 ft
Rec 1030 ft GCM
ISIP 2975 psi/60 min
FSIP 2930 psi/60 min
FHP 2975 psi

DST 02
6350-6400 ft
GTS 8 mins No Change
Rec 850 ft GCM
FP 220-400 psi
ISIP 2930 psi/30 min
FSIP 765 psi/30 min
FHP 3060 psi

DST 03
7185-7289 ft
GTS 3 min 100 MCFD, 30 min 50 MCFD, 60 min TSTM
Rec 175 ft GCM
FP 100-70 psi
ISIP 2545 psi/?min
FSIP 175 psi/30 min

DST 04
7570-7702 ft
GTS 18 min TSTM
Rec 190 ft GCM
FP 80-60 psi
ISIP 1115 psi/30 min
FSIP 265 psi/30 min

DST 05
7780-7910 ft
Rec 180 ft SGCM
ISIP 660 psi/30 min
FSIP 190 psi/30 min

DST 06
8351-8484 ft Misrun

DST 07
8322-8484 ft Misrun

DST 08
8322-8484 ft
Rec 200 ft GCM
FP 145-265 psi
ISIP 535 psi/30 min
FSIP 6410 psi/60 min
HP 4290-4235 psi

17

DST 01
6022-6041 ft Misrun

18 — Abd. 1969

DST 01
3884-3917 ft
Rec 20 ft MUD
FP 15-15 psi
FSIP 45 psi/60 min

DST 02
5152-5157 ft
Rec 20 ft MUD
FP 15-15 psi
FSIP 15 psi/30 min

DST 03
6074-6097 ft
Rec 15 ft MUD
FFP 15 psi
FSIP 15 psi/60 min

DST 04
6125-6178 ft
GTS 7 min
Rec 480 ft GCM
FP 145-210 psi
FSIP 1765 psi/60 min

DST 05
5996-6184 ft
GTS 40 mins
Rec 91 ft MUD, 450 ft SWTR
FP 420-1970 psi
FSIP 2320 psi/60 min

DST 06
6203-6462 ft
Rec 180 ft MUD
FP 95-105 psi
FHP 2935 psi

DST 07
6467-6752 ft
Rec 200 ft SGCM
FP 135-195 psi
FHP 3140 psi

DST 08
6757-6808 ft
Rec 20 ft MUD
FFP 20 psi
FSIP 350 psi/60 min

DST 09
6813-7070 ft
GTS 123 MCFD
Rec 720 ft GCM
FFP 285 psi
FSIP 279 psi/60 min
FHP 3255 psi

DST 10
7075-7178 ft
GTS 98 MCFD
Rec 1890 ft GCM
FP 165-875 psi
FSIP 3295 psi/30 min

DST 11
7090-7178 ft
Rec 210 ft SGCM
FP 75-90 psi
FSIP 515 psi/?min

DST 12
7090-7178 ft
Rec 210 ft SGCM
FP 75-90 psi
FSIP 515 psi/?min

DST 13
7183-7231 ft
GTS 19 MCFD
Rec 120 ft MUD
FP 45-60 psi
FSIP 1535 psi/?min

DST 14
7281-7303 ft
GTS 913 MCFD
Rec 10 ft GCM
FFP 20 psi
FSIP 2880 psi/30 min

DST 15
7334-7412 ft
GTS 6 MCFD
Rec 68 ft GCM, 270 ft MCW
FP 95-210 psi
FSIP 2975 psi/60 min

Perforation Tests:
7050-7080 ft { SWTR, IPF 1540 MCFD

19 — From the Almond

DST 01
2529-2566 ft
Rec 600 ft MUD, 200 ft WTR
FP 345-38 psi
ISIP 995 psi/3 min
FSIP 955 psi/60 min
HP 1630-1630 psi

DST 02
3119-3145 ft
Rec 15 ft MUD
FP 15-25 psi
ISIP 105 psi/30 min
FSIP 126 psi/60 min
HP 1630-1630 psi

DST 03
3580-3680 ft
Rec 2950 ft WTR & WCM
FP 630-1395 psi
ISIP 1430 psi/30 min
FSIP 1430 psi/60 min
HP 1885-1885 psi

DST 04
3777-3827 ft
Rec 50 ft MUD
FP 15-15 psi
ISIP 270 psi/30 min
FSIP 160 psi/45 min
HP 1935-1320 psi

DST 05
4589-4635 ft
GTS 5 mins, 168 MCFD
Rec 200 ft GCM
FP 60-90 psi
ISIP 1900 psi/30 min
FSIP 1885 psi/60 mins
HP 2425-2410 psi

DST 06
4667-4720 ft
GTS 3 min, 15 min 640 MCFD, 30 min 523 MCFD, 45 min 544 MCFD
Rec 15 ft GGCM
FP 45-60 psi
ISIP 1871 psi/30 min
FSIP 1860 psi/60 min
HP 2430-2415 psi

DST 07
4781-4799 ft
GTS 2 min, 15 min 555 MCFD, 30 min 544 MCFD
Rec 10 ft SGCM
FP 90-90 psi
ISIP 1905 psi/30 min
FSIP 1825 psi/60 min
HP 2525-2515 psi

DST 08
4799-4840 ft
Rec 150 ft MUD
FP 15-30 psi
ISIP 470 psi/30 min
FSIP 960 psi/60 min
HP 2455-2445 psi

Perforation Tests:
4664-4680 ft, 4781-4790 ft, 4664-4790 ft } SOFR 25,500 gals, 29,000 lbs SAND
IPF 4630 MCFD

20

No DST Tests or Completion Data

21

DST 01
1402-1436 ft
Rec 954 ft G & VSOGW
FP 160-425 psi
FSIP 46 psi/30 min
HP 750-730 psi

DST 02
3409-3482 ft
Rec 180 ft SWCM
FP 80-90 psi
FSIP 935 psi/30 min
HP 1785-1785 psi

DST 03
4751-4753 ft Misrun

DST 04
4731-4778 ft
Rec 150 ft GCM
FP 105-210 psi
ISIP 1040 psi/15 min
FSIP 270 psi/30 min
HP 2445-2400 psi

DST 05
4844-4868 ft
Rec 70 ft MUD, 3310 ft GCSWTR
FP 935-1495 psi
FSIP 1915 psi/30 min
HP 2515 psi

DST 06
5030-5070 ft
Rec 80 ft GCM
FP 65-65 psi
ISIP 915 psi/50 min
FSIP 95 psi/30 min
HP 2620-2580 psi

DST 07
5535-5558 ft
Rec 20 ft MUD
FP 15-15 psi
ISIP 110 psi/15 min
FSIP 95 psi/30 min
HP 2850-2840 psi

DST 08
6345-6390 ft
Rec 95 ft GCM
FP 85-85 psi
FSIP 105 psi/30 min

DST 09
6477-6563 ft
GTS 5 min, 15 min 15 MCFD, 30 min 19 MCFD, 60 min 23 MCFD, 90 min 20 MCFD
Rec 480 ft GCM
FP 260-340 psi
ISIP 2570 psi/30 min
FSIP 2355 psi/30 min

DST 10
6774-6863 ft Misrun

DST 11
6774-6863 ft Misrun

DST 12
7473-7579 ft
Rec 80 ft MUD
FP 65-75 psi
ISIP 115 psi/30 min
FSIP 85 psi/30 min
HP 3845-3805 psi

DST 13
8101-8168 ft
GTS 60 min 10-20 MCFD
Rec 280 ft HGCM
FP 150-175 psi
ISIP 2035 psi/?min
FSIP 540 psi/30 min
FHP 4185 psi

DST 14
8104-8190 ft
GTS 10 min 5 MCFD
Rec 330 ft HGCM
FP 125-175 psi
ISIP 1450 psi/30 min
FSIP 610 psi/30 min
HP 4105-4105 psi

PRELIMINARY CHART SHOWING ELECTRIC LOG CORRELATION SECTION D-D' OF SOME UPPER CRETACEOUS AND TERTIARY ROCKS, EAST FLANK ROCK SPRINGS UPLIFT, WYOMING

By
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1979