

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-14C
Originated 11/7/93

Submit Original
Plus 2 Copies
to appropriate
District Office

APPLICATION FOR
QUALIFICATION OF WELL WORKOVER PROJECT
AND CERTIFICATION OF APPROVAL

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE OIL CONSERVATION DIVISION.

- I. Operator: Conoco Inc. OGRID #: 005073
Address: 10 Desta Drive, Suite 100W, Midland, Tx 79705-4500
Contact Party: Ray Rosato Phone: (915) 686-6116
- II. Name of Well: SAN JUAN 28-7 WELL 227 API #: 30-039-20887
Location of Well: Unit Letter A, 810 Feet from the NORTH line and 820 feet from the EAST line.
Section 36N, Township 28N, Range 07W, NMPM, RIO ARRIBA County
- III. Date Workover Procedures Commenced: 6-24-97 (Est.)
Date Workover Procedures were Completed: 7-10-97
- IV. Attach a description of the Workover Procedures undertaken to increase the projection from the Well.
See Attached
- V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.
See Attached
- VI. Pool(s) on which Production Projection is based:
BLANCO - MESA VERDE

VII. AFFIDAVIT:

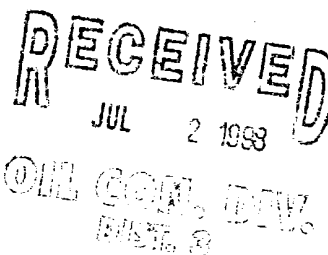
State of Texas)
County of Midland) ss.

Tammy Kitchens being first duly sworn, upon oath states:

1. I am the Operator or authorized representative of the Operator of the above referenced Well.
2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.
3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

Tammy Kitchens
(Name)

Staff Gas Assistant
(Title)

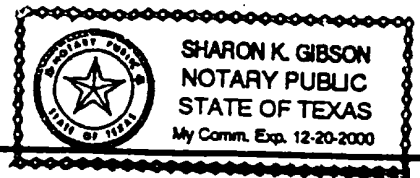


SUBSCRIBED AND SWORN TO before me this 1st day of July 1998

Sharon K. Gibson

Notary Public

My Commission expires: 12-20-2000



FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production Projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 7/10 1998

SS. S.
District Supervisor, District 3
Oil Conservation Division

Date: 7/6/98

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.

DATE: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

RECEIVED
BLM

5. LEASE DESIGNATION AND SERIAL NO
SF 079294

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

97 JUL 22 PM 1:58
070 FARMINGTON, NM

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

IF UNIT OR CA. AGREEMENT DESIGNATION
SAN JUAN UNIT 28-7

1. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ OTHER ☐

8. WELL NAME AND NO.

#227

2. NAME OF OPERATOR

CONOCO INC.

9. API WELL NO.

30-039-20887

3. ADDRESS AND TELEPHONE NO.

10 DESTA DRIVE, STE 100W MIDLAND, TX 79705 915-686-5424

10. FIELD AND POOL, OR EXPLORATORY AREA

BLANCO MESA VERDE

4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description)

810' FNL - 820' FEL UNIT LETTER 'A' 36-28N-7W

11. COUNTY OR PARISH, STATE

RIO ARriba COUNTY, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other:

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or
Recompletion Report and Log Form.)

13. 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.)

SEE STIMULATION SUMMARY

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

DEBRA BEMENDERFER

SIGNED

TITLE Agent for Conoco Inc

DATE 7/21/97

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

ACCEPTED FOR RECORD

AUG 04 1997

FARMINGTON DISTRICT OFFICE

OPERATOR

**CONOCO INC.
SAN JUAN 28-7 #227
API # 30-039-20887
SEC 36 - T28N - R7W UNIT LETTER
810' FNL - 820' FEL
ATTACHMENT FOR BLM 3160-4, 3160-5**

MIRU. Big A rig #10, set aux equipment (Mud tank and pump), 2-compressors, work, drill gas unit). ND WH. NU BOP. Pump 20-Bbls 1% Kcl water to kill well. Bled well down. TOOH w/ 243-Jts (7622') 2-3/8" tbg. RU Bluejet WL, GIH w/ 4-1/2" CIBP & set @ 5958'. Top load hole w/ 95 Bbls of 1% KCl, pressure-test CIBP #1 @ 5958' and csg to 3000#, held ok.

RU Bluejet WL, GIH w/ GR-CCL-CBL and log from 5958'-3300' w/ 1000# lb csg, correlate to Dresser Densilog dated 3-16-77, showed good bond to 3300'. GIH w/ Select-Fire guns, pressure to 2500#, perfed Point Lookout as follows: 5547-51-56-58-60-62-64-66-91-95-5603-15-17-19-27-29-52-63-71-73-5738-39-72-73-5874-76-90. Total: 27-0.32" holes. TIH w/ 4-1/2" Baker Full-Bore pkr on 2-7/8" tbg and set @ 65'. RU BJ. BD Point Lookout @ 2200# w/ 1% KCl, pmp 500 gals 15% HCl + 41 BS's (1.1 SpGr) @ 8.5 BPM & 200# to 8.5 - 0 BPM & 300-3000# w/ balls on, balled off. GIH w/ 3.78" Junk-basket and retrieve 34 BS's (23 - hits). TOOH w/ 4-1/2 pkr 7 2-7/8" tbg. NU 6" frac valve. SI well and secure for night.

RU BJ. Pump Slickwater Point Lookout frac w/ 106,600 Gals + 91,000# 20/40 AZ + 7000# 20/40 SDC @ Q-ave=45 BPM \$ P-ave=1400#, ave. SD density = 1.01 PPG, ISIP=0#. RU Bluejet WL, GIH w/ 4-1/2" CIBP on WL & set @ 5500'. Load hole w/80-Bbls 1% KCl water & test CIBP #2 to 3000#, held ok. GIH w/ 3-1/8" Select-Fire gun, pressure csg to 2500#, perf Menefee @ 5211', 12, 33, 35, 43, 57, 58, 70, 78, 83, 85, 5320, 28, 81, 86, 91, 5450, 67, 69, 73. Total: 20-0.32" holes. Pressure decreased from 2500# to 700#, during perforating. TIH w/ 4-1/2" pkr on 2-7/8" tbg & set @ 65'. BD Menefee perfs @ 2150#, Pump 500 Gals 15% HCl + 30 BS's (1.1 Sp Gr) @ 8.5 BPM & 1600-1200#, 8.5-0 BPM & 1200 - 3000# w/ balls on, balled out. TOOH w/ pkr & 2-7/8" tbg. GIH w/ 3.78" Junk Basket & ret. 30 BS's (20 - Hits). Pump slickwater Menefee frac w/ 87,800-Gals + 71,500# 20/40 AZ + 4500 20/40 SDC @ Q-ave=39.5 BPM & p-ave.=2000#, ave. SD density = 0.97 PPG. ISIP 950#, 5-Min = 880#, 10-Min + 850#, 15-Min = 820#. GIH w/ 4-1/2" CIBP & set @ 5180'. Pressure test CIBP #3 to 3000#, held OK. GIH w/ 3-1/8" Select -Fire gun, pressure csg to 2500#, perf'd Cliffhouse @ 4981', 83, 85, 4997, 99, 5019, 28, 30, 37, 42, 44, 49, 63, 70, 72, 77, 79, 88, 90, 95, 5101, 03, 10, 15, 17, 19, 21. Total: 27-0.32" holes. Pressure decreased from 2500#-1000# during perforating. TIH w/ 4-1/2" pkr on 2-7/8" tbg. & set @ 65' BD Cliff House perfs @ 2000#. Pump 500 gas. 25% HCl+ 41 BS's (1.1 Sp Gr) @ 9 BPM & 900# and 9 - 5 BPM & 900-2300-1200# w/ balls on, did not ball out. ISIP = 0. TOOH w/ pkr & 2-7/8" tbg. GIH w/ 3.78" junk-basket and ret. 40 Bs's (25 - Hits), FL @ 1200'. Pump slickwater cliffhouse frac w/ 105,500 - Gals + 87,300# 20/40 SDC @ Q-ave=44.5 BPM @ P-ave-2300#, ave SD density = 0.93 PPG. ISIP = 550#, 5-Min = 420#, 10 - Min = 400#, 15-Min = 390# (Based on Delta P thru perfs, calc 20 of 27 perfs open).

SICP = 0#. Rd 6" Frac valve. RU Blooey tee. TIH w/ 3-7/8" Baker Metal Muncher mill, and string float on 2-3/8" tbg to 4800', circ hole clean w/ gas. Cont. TIH & tag SD @ 5028', 152' of fill. CO SD to CIBP #3 @ 5180'. Drill on CIBP for 1/2-Hr and released pressure from below plug. Circ hole w/ gas and foam sweeps to CO, substantial water production. PU to 4550'.

SICP = 500#. TIH & tag SD @ 5160', 20' of fill. Circ hole clean w/ gas & foam sweeps to CIBP #3 @ 5180'. Drill CIBP #3 in 1-1/2-Hrs, push remainder of CIBP downhole & tag Sd @ 5415', 85' of fill. CO SD under rem. of CIBP #3 to 5500'. CIBP #2. DO rem. of CIBP #3 and DO CIBP #2 for 2-Hrs. Pushed rem. of CIBP #2 downhole & tag SD @ 5530', 428' of fill. CO SD under rem. of CIBP #2 to 5700". Water production still substantial. PU to 4918'.

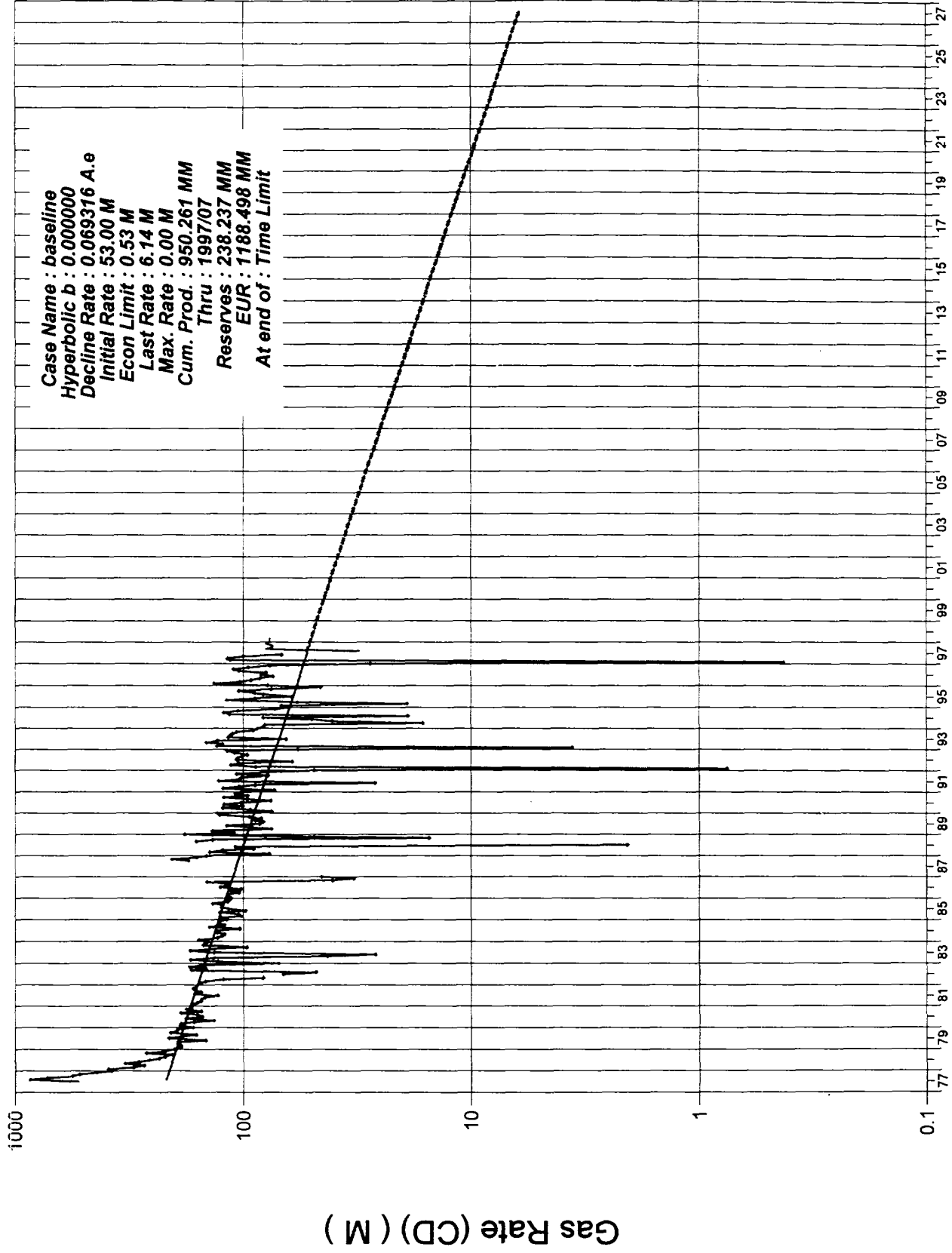
SICP = 800# TIH & tag SD @ 5685', 15' of fill overnight. CO SD fill to 5958', 273' of fill w/ gas & foam sweeps. PU to 5410'. Prep to Dry-watch MV overnight, as well is making substantial water. Set up 2" critical-flow prover w/ 3/4" choke.

Initial conditions: 180# FP w/ Est water rate of 15 BW/Hr. After water production tailed off, conducted 12-hr flow test. Final conditions: 170# FP w/ Est water rate of 2 BW/Hr. Calc flow rate = 2460 MCF/D. MV only.

SICP = 740#. TIH & tag SD @ 5948', 10' of fill over weekend. CO fill w/ gas & foam sweeps to CIBP #1 @ 5958'. RU swivel & DO CIBP in 1-hr, pushed remainder of CIBP & tagged @ 7757', 40' of fill above PBTD @ 7797'. DO rem. Of CIBP #1 & 40' of fill to PBTD @ 7797'. Circ hole clean w/ gas & foam sweeps. TOOH w/ 3-7/8" Metal Muncher mill, string float, and 2-3/8" tbg. TIH w/ SN on 245 Jts 2-3/8" 4.7# J-55 EUE 8rd tbg to 7686'. Pump gas down Tbg/Csg annulus to kick off. Rig up 2" Critical Flow-Prover w/ 3/4" choke to dry watch and test.

2" Critical Flow Prover w/ 3/4" choke. 8 AM: FTP = 220#, CP = 600#, fluid production minimal, no sand. 8 PM: FTP = 205#, CP = 580#, fluid production minimal, no sand.

End 24-hr test, DHC MV & DK, at 7 AM. Final Results: FTP = 200#, CP = 540#, minimal water, no sand. Calculated Critical-Flow Rates: 2898 MCF/D + 1 BWPD + 0 BCPD (2" line w/ 3/4" choke). Bled well off. Pumped 20 Bbls of 1% Kcl water to kill well. TIH & tag SD @ 7791', 6' of fill. CO SD fill w/ gas and foam sweeps to PBTD @ 7797'. PU and land 245-Jts (7685') 2-3/8" 4.7# J-55 tbg, EOT @ 7696', top of SN @ 7695'. ND BOP. NU WH. Circ gas down tbg to clean water off of backside. RDMO.



End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf
Schedule: # 1					
1997/ 8	52.68	52.84	1.64	951.9	236.6 # 1
1997/ 9	52.37	52.58	1.58	953.5	235.0 # 1
1997/10	52.06	52.16	1.62	955.1	233.4 # 1
1997/11	51.75	51.96	1.56	956.7	231.8 # 1
1997/12	51.44	51.54	1.60	958.2	230.2 # 1
1998/ 1	51.13	51.28	1.59	959.8	228.7 # 1
1998/ 2	50.82	51.15	1.43	961.3	227.2 # 1
1998/ 3	50.52	50.50	1.57	962.8	225.7 # 1
1998/ 4	50.22	50.43	1.51	964.3	224.1 # 1
1998/ 5	49.92	50.02	1.55	965.9	222.6 # 1
1998/ 6	49.62	49.83	1.49	967.4	221.1 # 1
1998/ 7	49.33	49.42	1.53	968.9	219.6 # 1
1998/ 8	49.03	49.18	1.52	970.5	218.0 # 1
1998/ 9	48.74	48.94	1.47	971.9	216.6 # 1
1998/10	48.45	48.54	1.50	973.4	215.1 # 1
1998/11	48.16	48.36	1.45	974.9	213.6 # 1
1998/12	47.87	47.96	1.49	976.4	212.1 # 1
1999/ 1	47.59	47.73	1.48	977.8	210.7 # 1
1999/ 2	47.30	47.61	1.33	979.2	209.3 # 1
1999/ 3	47.02	47.00	1.46	980.6	207.9 # 1
1999/ 4	46.74	46.93	1.41	982.0	206.5 # 1
1999/ 5	46.46	46.55	1.44	983.5	205.0 # 1
1999/ 6	46.18	46.37	1.39	984.9	203.6 # 1
1999/ 7	45.91	46.00	1.43	986.3	202.2 # 1
1999/ 8	45.63	45.77	1.42	987.7	200.8 # 1
1999/ 9	45.36	45.55	1.37	989.1	199.4 # 1
1999/10	45.09	45.18	1.40	990.5	198.0 # 1
1999/11	44.82	45.00	1.35	991.8	196.7 # 1
1999/12	44.55	44.64	1.38	993.2	195.3 # 1
2000/ 1	44.29	44.42	1.38	994.6	193.9 # 1
2000/ 2	44.02	44.25	1.28	995.9	192.6 # 1
2000/ 3	43.76	43.79	1.36	997.2	191.3 # 1
2000/ 4	43.50	43.68	1.31	998.5	190.0 # 1
2000/ 5	43.24	43.32	1.34	999.9	188.6 # 1
2000/ 6	42.98	43.16	1.29	1001.2	187.3 # 1
2000/ 7	42.73	42.81	1.33	1002.5	186.0 # 1
2000/ 8	42.47	42.60	1.32	1003.8	184.7 # 1

End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf	
2000/ 9	42.22	42.39	1.27	1005.1	183.4	# 1
2000/10	41.96	42.05	1.30	1006.4	182.1	# 1
2000/11	41.71	41.88	1.26	1007.7	180.8	# 1
2000/12	41.47	41.54	1.29	1009.0	179.5	# 1
2001/ 1	41.22	41.34	1.28	1010.2	178.3	# 1
2001/ 2	40.97	41.24	1.15	1011.4	177.1	# 1
2001/ 3	40.73	40.71	1.26	1012.7	175.8	# 1
2001/ 4	40.48	40.65	1.22	1013.9	174.6	# 1
2001/ 5	40.24	40.32	1.25	1015.1	173.4	# 1
2001/ 6	40.00	40.16	1.20	1016.3	172.2	# 1
2001/ 7	39.76	39.84	1.24	1017.6	170.9	# 1
2001/ 8	39.53	39.64	1.23	1018.8	169.7	# 1
2001/ 9	39.29	39.45	1.18	1020.0	168.5	# 1
2001/10	39.06	39.13	1.21	1021.2	167.3	# 1
2001/11	38.82	38.98	1.17	1022.4	166.1	# 1
2001/12	38.59	38.67	1.20	1023.6	164.9	# 1
2002/ 1	38.36	38.48	1.19	1024.7	163.8	# 1
2002/ 2	38.13	38.38	1.07	1025.8	162.7	# 1
2002/ 3	37.90	37.89	1.17	1027.0	161.5	# 1
2002/ 4	37.68	37.83	1.13	1028.1	160.4	# 1
2002/ 5	37.45	37.53	1.16	1029.3	159.2	# 1
2002/ 6	37.23	37.38	1.12	1030.4	158.1	# 1
2002/ 7	37.01	37.08	1.15	1031.6	156.9	# 1
2002/ 8	36.79	36.90	1.14	1032.7	155.8	# 1
2002/ 9	36.57	36.72	1.10	1033.8	154.7	# 1
2002/10	36.35	36.42	1.13	1034.9	153.6	# 1
2002/11	36.13	36.28	1.09	1036.0	152.5	# 1
2002/12	35.92	35.99	1.12	1037.1	151.4	# 1
2003/ 1	35.70	35.81	1.11	1038.3	150.2	# 1
2003/ 2	35.49	35.72	1.00	1039.3	149.2	# 1
2003/ 3	35.28	35.26	1.09	1040.3	148.2	# 1
2003/ 4	35.07	35.21	1.06	1041.4	147.1	# 1
2003/ 5	34.86	34.92	1.08	1042.5	146.0	# 1
2003/ 6	34.65	34.79	1.04	1043.5	145.0	# 1
2003/ 7	34.44	34.51	1.07	1044.6	143.9	# 1
2003/ 8	34.24	34.34	1.06	1045.7	142.8	# 1
2003/ 9	34.03	34.17	1.03	1046.7	141.8	# 1
2003/10	33.83	33.89	1.05	1047.7	140.8	# 1

End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf	
2003/11	33.63	33.76	1.01	1048.8	139.7	# 1
2003/12	33.43	33.49	1.04	1049.8	138.7	# 1
2004/ 1	33.23	33.33	1.03	1050.8	137.7	# 1
2004/ 2	33.03	33.20	0.96	1051.8	136.7	# 1
2004/ 3	32.83	32.86	1.02	1052.8	135.7	# 1
2004/ 4	32.64	32.77	0.98	1053.8	134.7	# 1
2004/ 5	32.44	32.50	1.01	1054.8	133.7	# 1
2004/ 6	32.25	32.38	0.97	1055.8	132.7	# 1
2004/ 7	32.05	32.12	1.00	1056.8	131.7	# 1
2004/ 8	31.86	31.96	0.99	1057.8	130.7	# 1
2004/ 9	31.67	31.80	0.95	1058.7	129.8	# 1
2004/10	31.48	31.54	0.98	1059.7	128.8	# 1
2004/11	31.30	31.42	0.94	1060.6	127.9	# 1
2004/12	31.11	31.17	0.97	1061.6	126.9	# 1
2005/ 1	30.92	31.02	0.96	1062.6	125.9	# 1
2005/ 2	30.74	30.94	0.87	1063.4	125.1	# 1
2005/ 3	30.56	30.54	0.95	1064.4	124.1	# 1
2005/ 4	30.37	30.50	0.91	1065.3	123.2	# 1
2005/ 5	30.19	30.25	0.94	1066.2	122.3	# 1
2005/ 6	30.01	30.13	0.90	1067.1	121.4	# 1
2005/ 7	29.83	29.89	0.93	1068.1	120.4	# 1
2005/ 8	29.65	29.74	0.92	1069.0	119.5	# 1
2005/ 9	29.48	29.60	0.89	1069.9	118.6	# 1
2005/10	29.30	29.36	0.91	1070.8	117.7	# 1
2005/11	29.13	29.25	0.88	1071.6	116.8	# 1
2005/12	28.95	29.01	0.90	1072.5	115.9	# 1
2006/ 1	28.78	28.87	0.89	1073.4	115.1	# 1
2006/ 2	28.61	28.79	0.81	1074.2	114.2	# 1
2006/ 3	28.44	28.42	0.88	1075.1	113.4	# 1
2006/ 4	28.27	28.38	0.85	1076.0	112.5	# 1
2006/ 5	28.10	28.15	0.87	1076.9	111.6	# 1
2006/ 6	27.93	28.05	0.84	1077.7	110.8	# 1
2006/ 7	27.76	27.82	0.86	1078.6	109.9	# 1
2006/ 8	27.60	27.68	0.86	1079.4	109.1	# 1
2006/ 9	27.43	27.55	0.83	1080.2	108.3	# 1
2006/10	27.27	27.32	0.85	1081.1	107.4	# 1
2006/11	27.11	27.22	0.82	1081.9	106.6	# 1
2006/12	26.95	27.00	0.84	1082.7	105.8	# 1

of DATE	Rate Mscf/d	Rate Mscf/d	Volume		Volume		Reserves	
			MMscf		MMscf		MMscf	
2007/ 1	26.79	26.87	0.83		1083.6		104.9	
2007/ 2	26.62	26.80	0.75		1084.3		104.2	
2007/ 3	26.47	26.45	0.82		1085.1		103.4	
2007/ 4	26.31	26.42	0.79		1085.9		102.6	
2007/ 5	26.15	26.20	0.81		1086.8		101.7	
2007/ 6	26.00	26.10	0.78		1087.5		101.0	
2007/ 7	25.84	25.89	0.80		1088.3		100.2	
2007/ 8	25.69	25.76	0.80		1089.1		99.4	
2007/ 9	25.53	25.64	0.77		1089.9		98.6	
2007/10	25.38	25.43	0.79		1090.7		97.8	
2007/11	25.23	25.33	0.76		1091.5		97.0	
2007/12	25.08	25.13	0.78		1092.2		96.3	
2008/ 1	24.93	25.00	0.78		1093.0		95.5	
2008/ 2	24.78	24.91	0.72		1093.7		94.8	
2008/ 3	24.63	24.65	0.76		1094.5		94.0	
2008/ 4	24.48	24.58	0.74		1095.2		93.3	
2008/ 5	24.34	24.39	0.76		1096.0		92.5	
2008/ 6	24.19	24.29	0.73		1096.7		91.8	
2008/ 7	24.05	24.10	0.75		1097.5		91.0	
2008/ 8	23.91	23.98	0.74		1098.2		90.3	
2008/ 9	23.76	23.86	0.72		1098.9		89.6	
2008/10	23.62	23.67	0.73		1099.7		88.8	
2008/11	23.48	23.58	0.71		1100.4		88.1	
2008/12	23.34	23.38	0.72		1101.1		87.4	
2009/ 1	23.20	23.27	0.72		1101.8		86.7	
2009/ 2	23.06	23.21	0.65		1102.5		86.0	
2009/ 3	22.92	22.91	0.71		1103.2		85.3	
2009/ 4	22.79	22.88	0.69		1103.9		84.6	
2009/ 5	22.65	22.70	0.70		1104.6		83.9	
2009/ 6	22.52	22.61	0.68		1105.2		83.3	
2009/ 7	22.38	22.43	0.70		1105.9		82.6	
2009/ 8	22.25	22.32	0.69		1106.6		81.9	
2009/ 9	22.12	22.21	0.67		1107.3		81.2	
2009/10	21.98	22.03	0.68		1108.0		80.5	
2009/11	21.85	21.94	0.66		1108.6		79.9	
2009/12	21.72	21.76	0.67		1109.3		79.2	
2010/ 1	21.59	21.66	0.67		1110.0		78.5	
2010/ 2	21.46	21.60	0.60		1110.6		77.9	

of DATE	Rate		Volume		Volume		Reserves	
	Mscf/d	Mscf/d	Mscf	Mscf	Mscf	Mscf	MMscf	MMscf
2010/ 3	21.34	21.33	0.66	1111.2	77.3	#	1	1
2010/ 4	21.21	21.29	0.64	1111.9	76.6	#	1	1
2010/ 5	21.08	21.12	0.65	1112.5	76.0	#	1	1
2010/ 6	20.96	21.04	0.63	1113.2	75.3	#	1	1
2010/ 7	20.83	20.87	0.65	1113.8	74.7	#	1	1
2010/ 8	20.71	20.77	0.64	1114.5	74.0	#	1	1
2010/ 9	20.58	20.67	0.62	1115.1	73.4	#	1	1
2010/10	20.46	20.50	0.64	1115.7	72.8	#	1	1
2010/11	20.34	20.42	0.61	1116.3	72.2	#	1	1
2010/12	20.22	20.26	0.63	1117.0	71.5	#	1	1
2011/ 1	20.10	20.16	0.62	1117.6	70.9	#	1	1
2011/ 2	19.98	20.10	0.56	1118.1	70.4	#	1	1
2011/ 3	19.86	19.85	0.62	1118.8	69.7	#	1	1
2011/ 4	19.74	19.82	0.59	1119.4	69.1	#	1	1
2011/ 5	19.62	19.66	0.61	1120.0	68.5	#	1	1
2011/ 6	19.50	19.58	0.59	1120.5	67.9	#	1	1
2011/ 7	19.39	19.42	0.60	1121.2	67.3	#	1	1
2011/ 8	19.27	19.33	0.60	1121.8	66.7	#	1	1
2011/ 9	19.16	19.23	0.58	1122.3	66.2	#	1	1
2011/10	19.04	19.08	0.59	1122.9	65.6	#	1	1
2011/11	18.93	19.01	0.57	1123.5	65.0	#	1	1
2011/12	18.82	18.85	0.58	1124.1	64.4	#	1	1
2012/ 1	18.70	18.76	0.58	1124.7	63.8	#	1	1
2012/ 2	18.59	18.69	0.54	1125.2	63.3	#	1	1
2012/ 3	18.48	18.49	0.57	1125.8	62.7	#	1	1
2012/ 4	18.37	18.44	0.55	1126.3	62.2	#	1	1
2012/ 5	18.26	18.30	0.57	1126.9	61.6	#	1	1
2012/ 6	18.15	18.23	0.55	1127.4	61.1	#	1	1
2012/ 7	18.04	18.08	0.56	1128.0	60.5	#	1	1
2012/ 8	17.94	17.99	0.56	1128.6	59.9	#	1	1
2012/ 9	17.83	17.90	0.54	1129.1	59.4	#	1	1
2012/10	17.72	17.76	0.55	1129.6	58.9	#	1	1
2012/11	17.62	17.69	0.53	1130.2	58.3	#	1	1
2012/12	17.51	17.54	0.54	1130.7	57.8	#	1	1
2013/ 1	17.41	17.46	0.54	1131.3	57.2	#	1	1
2013/ 2	17.30	17.41	0.49	1131.7	56.8	#	1	1
2013/ 3	17.20	17.19	0.53	1132.3	56.2	#	1	1
2013/ 4	17.10	17.17	0.51	1132.8	55.7	#	1	1

of DATE	Rate		Volume		Reserves	
	Mscf/d	Rate Mscf/d	MMscf	Volume MMscf	MMscf	MMscf
2013/ 5	16.99	17.03	0.53	1133.3	55.2	# 1
2013/ 6	16.89	16.96	0.51	1133.8	54.7	# 1
2013/ 7	16.79	16.82	0.52	1134.4	54.1	# 1
2013/ 8	16.69	16.74	0.52	1134.9	53.6	# 1
2013/ 9	16.59	16.66	0.50	1135.4	53.1	# 1
2013/10	16.49	16.53	0.51	1135.9	52.6	# 1
2013/11	16.39	16.46	0.49	1136.4	52.1	# 1
2013/12	16.30	16.33	0.51	1136.9	51.6	# 1
2014/ 1	16.20	16.25	0.50	1137.4	51.1	# 1
2014/ 2	16.10	16.21	0.45	1137.8	50.7	# 1
2014/ 3	16.01	16.00	0.50	1138.3	50.2	# 1
2014/ 4	15.91	15.98	0.48	1138.8	49.7	# 1
2014/ 5	15.82	15.85	0.49	1139.3	49.2	# 1
2014/ 6	15.72	15.79	0.47	1139.8	48.7	# 1
2014/ 7	15.63	15.66	0.49	1140.3	48.2	# 1
2014/ 8	15.54	15.58	0.48	1140.8	47.7	# 1
2014/ 9	15.44	15.51	0.47	1141.2	47.3	# 1
2014/10	15.35	15.38	0.48	1141.7	46.8	# 1
2014/11	15.26	15.32	0.46	1142.2	46.3	# 1
2014/12	15.17	15.20	0.47	1142.6	45.9	# 1
2015/ 1	15.08	15.12	0.47	1143.1	45.4	# 1
2015/ 2	14.99	15.08	0.42	1143.5	45.0	# 1
2015/ 3	14.90	14.89	0.46	1144.0	44.5	# 1
2015/ 4	14.81	14.87	0.45	1144.4	44.1	# 1
2015/ 5	14.72	14.75	0.46	1144.9	43.6	# 1
2015/ 6	14.63	14.69	0.44	1145.3	43.2	# 1
2015/ 7	14.55	14.57	0.45	1145.8	42.7	# 1
2015/ 8	14.46	14.50	0.45	1146.2	42.3	# 1
2015/ 9	14.37	14.43	0.43	1146.7	41.8	# 1
2015/10	14.29	14.31	0.44	1147.1	41.4	# 1
2015/11	14.20	14.26	0.43	1147.5	41.0	# 1
2015/12	14.12	14.14	0.44	1148.0	40.5	# 1
2016/ 1	14.03	14.07	0.44	1148.4	40.1	# 1
2016/ 2	13.95	14.02	0.41	1148.8	39.7	# 1
2016/ 3	13.86	13.88	0.43	1149.2	39.3	# 1
2016/ 4	13.78	13.84	0.42	1149.7	38.8	# 1
2016/ 5	13.70	13.73	0.43	1150.1	38.4	# 1
2016/ 6	13.62	13.67	0.41	1150.5	38.0	# 1

End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf
2016/ 7	13.54	13.56	0.42	1150.9	37.6
2016/ 8	13.46	13.50	0.42	1151.3	37.2
2016/ 9	13.38	13.43	0.40	1151.7	36.8
2016/10	13.30	13.32	0.41	1152.1	36.4
2016/11	13.22	13.27	0.40	1152.5	36.0
2016/12	13.14	13.16	0.41	1152.9	35.5
2017/ 1	13.06	13.10	0.41	1153.4	35.1
2017/ 2	12.98	13.07	0.37	1153.7	34.8
2017/ 3	12.90	12.90	0.40	1154.1	34.4
2017/ 4	12.83	12.88	0.39	1154.5	34.0
2017/ 5	12.75	12.77	0.40	1154.9	33.6
2017/ 6	12.67	12.73	0.38	1155.3	33.2
2017/ 7	12.60	12.62	0.39	1155.7	32.8
2017/ 8	12.52	12.56	0.39	1156.1	32.4
2017/ 9	12.45	12.50	0.37	1156.4	32.1
2017/10	12.37	12.40	0.38	1156.8	31.7
2017/11	12.30	12.35	0.37	1157.2	31.3
2017/12	12.23	12.25	0.38	1157.6	30.9
2018/ 1	12.15	12.19	0.38	1158.0	30.5
2018/ 2	12.08	12.16	0.34	1158.3	30.2
2018/ 3	12.01	12.00	0.37	1158.7	29.8
2018/ 4	11.94	11.99	0.36	1159.0	29.5
2018/ 5	11.87	11.89	0.37	1159.4	29.1
2018/ 6	11.80	11.84	0.36	1159.7	28.7
2018/ 7	11.73	11.75	0.36	1160.1	28.4
2018/ 8	11.66	11.69	0.36	1160.5	28.0
2018/ 9	11.59	11.63	0.35	1160.8	27.7
2018/10	11.52	11.54	0.36	1161.2	27.3
2018/11	11.45	11.49	0.34	1161.5	27.0
2018/12	11.38	11.40	0.35	1161.9	26.6
2019/ 1	11.31	11.35	0.35	1162.2	26.3
2019/ 2	11.24	11.32	0.32	1162.5	25.9
2019/ 3	11.18	11.17	0.35	1162.9	25.6
2019/ 4	11.11	11.16	0.33	1163.2	25.3
2019/ 5	11.04	11.07	0.34	1163.6	24.9
2019/ 6	10.98	11.02	0.33	1163.9	24.6
2019/ 7	10.91	10.93	0.34	1164.2	24.3
2019/ 8	10.85	10.88	0.34	1164.6	23.9

End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf
2019/ 9	10.78	10.83	0.32	1164.9	23.6
2019/10	10.72	10.74	0.33	1165.2	23.3
2019/11	10.65	10.70	0.32	1165.6	22.9
2019/12	10.59	10.61	0.33	1165.9	22.6
2020/ 1	10.53	10.56	0.33	1166.2	22.3
2020/ 2	10.46	10.52	0.31	1166.5	22.0
2020/ 3	10.40	10.41	0.32	1166.8	21.7
2020/ 4	10.34	10.38	0.31	1167.2	21.3
2020/ 5	10.28	10.30	0.32	1167.5	21.0
2020/ 6	10.22	10.26	0.31	1167.8	20.7
2020/ 7	10.16	10.18	0.32	1168.1	20.4
2020/ 8	10.10	10.13	0.31	1168.4	20.1
2020/ 9	10.04	10.08	0.30	1168.7	19.8
2020/10	9.98	9.99	0.31	1169.0	19.5
2020/11	9.92	9.96	0.30	1169.3	19.2
2020/12	9.86	9.88	0.31	1169.6	18.9
2021/ 1	9.80	9.83	0.30	1169.9	18.6
2021/ 2	9.74	9.80	0.27	1170.2	18.3
2021/ 3	9.68	9.68	0.30	1170.5	18.0
2021/ 4	9.62	9.66	0.29	1170.8	17.7
2021/ 5	9.57	9.58	0.30	1171.1	17.4
2021/ 6	9.51	9.55	0.29	1171.4	17.1
2021/ 7	9.45	9.47	0.29	1171.7	16.8
2021/ 8	9.40	9.42	0.29	1172.0	16.5
2021/ 9	9.34	9.38	0.28	1172.2	16.3
2021/10	9.28	9.30	0.29	1172.5	16.0
2021/11	9.23	9.27	0.28	1172.8	15.7
2021/12	9.17	9.19	0.28	1173.1	15.4
2022/ 1	9.12	9.15	0.28	1173.4	15.1
2022/ 2	9.06	9.12	0.26	1173.6	14.9
2022/ 3	9.01	9.01	0.28	1173.9	14.6
2022/ 4	8.96	8.99	0.27	1174.2	14.3
2022/ 5	8.90	8.92	0.28	1174.5	14.0
2022/ 6	8.85	8.89	0.27	1174.7	13.8
2022/ 7	8.80	8.81	0.27	1175.0	13.5
2022/ 8	8.74	8.77	0.27	1175.3	13.2
2022/ 9	8.69	8.73	0.26	1175.5	13.0
2022/10	8.64	8.66	0.27	1175.8	12.7

End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf
2022/11	8.59	8.62	0.26	1176.1	12.4
2022/12	8.54	8.55	0.27	1176.3	12.2
2023/ 1	8.49	8.51	0.26	1176.6	11.9
2023/ 2	8.44	8.49	0.24	1176.8	11.7
2023/ 3	8.39	8.38	0.26	1177.1	11.4
2023/ 4	8.34	8.37	0.25	1177.3	11.2
2023/ 5	8.29	8.30	0.26	1177.6	10.9
2023/ 6	8.24	8.27	0.25	1177.8	10.7
2023/ 7	8.19	8.20	0.25	1178.1	10.4
2023/ 8	8.14	8.16	0.25	1178.4	10.1
2023/ 9	8.09	8.12	0.24	1178.6	9.9
2023/10	8.04	8.06	0.25	1178.8	9.7
2023/11	7.99	8.03	0.24	1179.1	9.4
2023/12	7.95	7.96	0.25	1179.3	9.2
2024/ 1	7.90	7.92	0.25	1179.6	8.9
2024/ 2	7.85	7.89	0.23	1179.8	8.7
2024/ 3	7.80	7.81	0.24	1180.1	8.4
2024/ 4	7.76	7.79	0.23	1180.3	8.2
2024/ 5	7.71	7.73	0.24	1180.5	8.0
2024/ 6	7.67	7.70	0.23	1180.8	7.7
2024/ 7	7.62	7.63	0.24	1181.0	7.5
2024/ 8	7.57	7.60	0.24	1181.2	7.3
2024/ 9	7.53	7.56	0.23	1181.5	7.0
2024/10	7.48	7.50	0.23	1181.7	6.8
2024/11	7.44	7.47	0.22	1181.9	6.6
2024/12	7.40	7.41	0.23	1182.1	6.4
2025/ 1	7.35	7.37	0.23	1182.4	6.1
2025/ 2	7.31	7.35	0.21	1182.6	5.9
2025/ 3	7.26	7.26	0.23	1182.8	5.7
2025/ 4	7.22	7.25	0.22	1183.0	5.5
2025/ 5	7.18	7.19	0.22	1183.2	5.3
2025/ 6	7.13	7.16	0.21	1183.5	5.0
2025/ 7	7.09	7.11	0.22	1183.7	4.8
2025/ 8	7.05	7.07	0.22	1183.9	4.6
2025/ 9	7.01	7.04	0.21	1184.1	4.4
2025/10	6.97	6.98	0.22	1184.3	4.2
2025/11	6.92	6.95	0.21	1184.5	4.0
2025/12	6.88	6.90	0.21	1184.7	3.8

End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf
2026/ 1	6.84	6.86	0.21	1185.0	3.5
2026/ 2	6.80	6.84	0.19	1185.1	3.3
2026/ 3	6.76	6.76	0.21	1185.4	3.1
2026/ 4	6.72	6.75	0.20	1185.6	2.9
2026/ 5	6.68	6.69	0.21	1185.8	2.7
2026/ 6	6.64	6.67	0.20	1186.0	2.5
2026/ 7	6.60	6.61	0.20	1186.2	2.3
2026/ 8	6.56	6.58	0.20	1186.4	2.1
2026/ 9	6.52	6.55	0.20	1186.6	1.9
2026/10	6.48	6.50	0.20	1186.8	1.7
2026/11	6.44	6.47	0.19	1187.0	1.5
2026/12	6.41	6.42	0.20	1187.2	1.3
2027/ 1	6.37	6.39	0.20	1187.4	1.1
2027/ 2	6.33	6.37	0.18	1187.5	1.0
2027/ 3	6.29	6.29	0.19	1187.7	0.8
2027/ 4	6.25	6.28	0.19	1187.9	0.6
2027/ 5	6.22	6.23	0.19	1188.1	0.4
2027/ 6	6.18	6.20	0.19	1188.3	0.2
2027/ 7	6.14	6.15	0.19	1188.5	0.0