NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -2040 South Pacheco, Santa Fe, NM 87505





| | | DMINISTRATIVE APPLICATION COVERSHEET |
|-------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| TH | IS COVERSHEET IS | MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE |
| Appli | [PC-Pod | |
| [1] | TYPE OF A [A] | PPLICATION - Check Those Which Apply for [A] |
| | Checl [B] | COne Only for [B] or [C] Commingling - Storage - Measurement DHC DCTB DPLC DPC DOLS DOLM |
| | [C] | Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR |
| [2] | NOTIFICAT [A] | TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners |
| | [B] | ☐ Offset Operators, Leaseholders or Surface Owner |
| | [C] | ☐ Application is One Which Requires Published Legal Notice |
| | [D] | ☐ Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office |
| | [E] | ☐ For all of the above, Proof of Notification or Publication is Attached, and/or, |
| | [F] | ☐ Waivers are Attached |
| [3] | INFORMAT | ON / DATA SUBMITTED IS COMPLETE - Certification |

[3

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

| Mark Stodola | March Stodela | Reservoir Engr. | 1/11/00 |
|--------------------|---------------|-----------------|---------|
| Print or Type Name | Signature | Title | Date |

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

Form C-107-A

APPROVAL PROCESS:

X Administrative __Hearing

EXISTING WELLBORE X YES NO

APPLICATION FOR DOWNHOLE COMMINGLING Phillips Petroleum Company 5525 Hwy. 64, Farmington, NM 87401 N, Sec. 31, T29N, R6W Rio Arriba San Juan 29-6 Unit #51 Unit Ltr. - Sec - Twp - Rge Specing Unit Lease Types: (check 1 or more) OGRID NO. 017654 Property Code 009257 API NO. 30-039-07470 Federal X, State , (and/or) Fee The following facts are submitted in support of downhole commingling: Intermediate Zone Lower Zone Upper Zone 72319 72439 Pool Name and Pool Code Blanco Mesaverde Blanco PC Top and Bottom of Pay Section (Perforations) 4453' - 5992' 3662' - 3769' 3. Type of production (Oil or Gas) gas qas 4. Method of Production (Flowing or Artificial Lift) Flowing Flowing a. (Current) 5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current I) 389 psi (24hr 💲 1065 psi (est)* Gas & Oil - Flowing: Measured Current b. (Original) All Gas Zones: Estimated Or Measured Original 1280 psi (est. 1200 psi (est.) 6. Oil Gravity (*API) or Gas BTU Content 1100 btu/scf 1200 btu/scf 7. Producing or Shut-In? Shut-in Producing yes yes Production Marginal? (yes or no) If Shut-In, give date and oil/gas/ water rates of last production Date: Date: 11/30/99 Rates: Rates: Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data 154 mcfd, 1 bord If Producing, give date andoil/gas/ water rates of recent test (within 60 days) Date: 250 mcfd, lbop Date: Date: Rates: Rates: Rates 8. Fixed Percentage Allocation Formula -% for each zone % % % 9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. 10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? X No 11. Will cross-flow occur? Yes If yes, are fluids compatible, will the formations not be damaged, will any crossflowed production be recovered, and will the allocation formula be reliable. Yes No (If No, attach explanation) 12. Are all produced fluids from all commingled zones compatible with each other? X_ Yes __ No 13. Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation) 14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. Yes No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

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

16. ATTACHMENTS:
* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
* Production curve for each zone for at least one year. (If not available, attach explanation.)
* For zones with no production history, estimated production rates and supporting data.
* Data to support allocation method or formula.
* Notification list of all offset operators.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* Any additional statements, data, or documents required to support commingling.

SIGNATURE

__TITLE Reservoir Engr._DATE __1/11/00

TYPE OR PRINT NAME ____Mark Stodola _ TELEPHONE NO. (505) 599-3455

No BHP measure, supporting data attached.

District I PO Ben 1960, Hubbs, NM 22241-1960 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

Revised October 18, 1994 Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION 2040 South Pacheco RECEIVED Santa Fe, NM 87505 RIM

State Lease - 4 Copies
Fee Lease - 3 Copies

Form C-102

| District IV | •••••• | | | | Janua 1 | C, I | diar 01202 | RLM | | | 100 | cease - 3 Copies |
|----------------------------|-------------------------|-----------------|--------------|-------------|------------------|--------|------------------------|-------|-------------------|-----------------|--------------|---------------------------------------------|
| 2040 South Pach | cco, Santa F | c, NM 87505 | | | | | 99 007 2 | : S E | ያለ ៤፡ በና | , . C |] AME | NDED REPORT |
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| 1 | API Numb | | | ¹ Pool Cod | | | 070 F/si. | | | | | |
| 30-039- | -07470 | | 72 | 439 | | S | o. Blanco Pio | ctur | ed Clif: | fs, Ext | t. | |
| ⁴ Property | Code | | | | ¹ Pr | operty | Name | | | | • | Well Number |
| 009257 | | | | | | | 29-6 Unit | | | | 51 | |
| 'OGRID | | | | | • | | Name | | | | l | * Elevation |
| 017654 | | | | Phill | <u> </u> | | eum Company | | | | 65 | 84' |
| | 1 6 6 | 1 - 1: | | 1 | | | Location | T = | | D .89 | | Γ |
| UL or lot no. | Section 31 | Township 29N | Range 6W | Lot Ida | Feet from 920 | | North/South line South | ł | t from the 500 | East/Wa West | il line | County Rio Arriba |
| N | 1 31 | 2911 | | tom Hol | <u> </u> | | f Different Fro | | | west | | KIO ALLIDO |
| UL or lot po. | Section | Township | Range | Lot Ida | Feet from | | North/South line | _ | f from the | East/We | d line | County |
| N | | | | | | | | | | | 525 | |
| ¹³ Dedicated Ac | res ¹³ Joint | or fafill H | Consolidatio | a Code 15 C | order No. | | .I | 1 | | L | | <u> </u> |
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| | 6 | | | | | | | | Signature | wy | <u> </u> | |
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| , | | | | Y | | | | | Title | | | ATTC |
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| | | | Sect | ion 31 | | | | _ | | | | |
| NM-03040 | | _ | | | | | | 1 | 18SURV | 'EYOR | CERT | TFICATION |
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| Company PACIFIC NORTHEEST PIPELINE | CORPORATION SPUCT 26 PM 4: 06 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Lassa San Juan 29-6 | Well No. 51 |
| Sec. 31 , T 29 N. , R 6 M | J. N.M. P.M. MAKE ON, NM |
| Location 920 FROM THE SOUTH LINE AND THE WEST LINE. | 1500' FROM |
| Elevation 6584.6 UNGRADED CROUND. | |
| | TEIVED |
| RIO ARRIBA COUNTY | NEW MEXICO REC. 1955 |
| | NEW MEXICO RECEIVED DEC 2 1955 DEC 2 1955 U. S. GEOLOGICAL SURVEY FARMINGTON, NEW MEXICO |
| | FARMINGTON |
| | |
| | |
| (31) | |
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| /500′ o | N |
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| 026 | |
| Scale—4 inches equal 1 mile. | |
| This is to certify that the above plat was prepare of actual surveys made by me or under my super same are true and correct to the best of my know | vision and that the |
| Q - 0 | · L |
| Seal: Registered Land | |
| James P. Lee N. Mex. Reg. | 986 |
| Surveyed 14 November | |



January 11, 2000

New Mexico Oil & Gas Conservation Div. 2040 South Pacheco Santa Fe, New Mexico 87505-6429

Downhole Commingling Allocation Method on the San Juan 29-6 Unit #51

Dear Sirs:

Phillips is proposing to utilize the subtraction method on the subject well for approximately twelve months after actual commingling occurs. After the twelve month period we will convert to the ratio method as indicated in our commingling application. We believe this will be a more accurate method of allocating production considering that the Mesaverde interval has been producing for years and that the production will not be stabilized on the Pictured Cliffs for several months.

Pictured Cliffs Forecast

| February 2000 | 6,616 | March 2000 | 7,168 |
|---------------|-------|----------------|-------|
| April 2000 | 6,785 | May 2000 | 6,858 |
| June 2000 | 6,582 | July 2000 | 6,563 |
| August 2000 | 6,421 | September 2000 | 6,166 |
| October 2000 | 6,151 | November 2000 | 5,908 |
| December 2000 | 5,896 | January 2001 | 5,773 |

For example, if the total volume for March 2000 were 11,942 mcf, then the Pictured Cliffs would be allocated 7,168 mcf and the Mesaverde 4,774 mcf. And subsequently, the Pictured Cliffs would be allocated (7,168/11,942) or 60.02%, and Mesaverde would be allocated (4,774/1,1942) or 39.98%.

Sincerely,

PHILLIPS PETROLEUM COMPANY

Mark W. Stodola Reservoir Engineer

MS/pc

cc:

OCD - Aztec

BLM- Farmington

NM Commissioner of Public Lands - Santa Fe

FARMINGTON, NEW MEXICO 87401 DATE: NOVEMBER 23, 1999

WELL NAME: SAN JUAN 29-6.#.51 TYPE TEST: STATIC GRADIENT FORMATION: MESA VERDE

COUNTY: RIO ARRIBA STATE: NEW MEXICO

TOTAL DEPTH: 6012' CASING PRESSURE: 350 PERFS: 5872' TO 5992' TUBING PRESSURE: 325

TUBING: 2 3/8 TO 5981' OIL LEVEL:
CASING SIZE: WATER LEVEL:
PACKER: TEMPERATURE:
OTHER: ELEMENT NO. 86484

PRESSURED UP @ 13:00 ELEMENT RANGE 0 TO 3000

WELL STATUS: SHUT IN

| DEPTH IN | PRESSURE | GRADIENT |
|----------|----------|----------|
| FEET | PSIG | PSI/FOOT |
| 0 | 324 | |
| 2000 | 343 | 0.010 |
| 4000 | 365 | 0.011 |
| 5570 | 381 | 0.010 |
| 5770 | 385 | 0.020 |
| 5970 | 389 | 0.020 |

SLM @ 5578'

PHILLIPS PETROLEUM SAN JUAN 29-6 # 51
DATE: NOVEMBER 23, 1999 THOUSANDS WATER LEVEL: NONE PRESSURE IN PSIG

5525 HWY 64 NBU 3004 FARMINGTON, NEW MEXICO 87401

WELL NAME: SAN JUAN (29-6 # 16)

FORMATION: PICTURE CLIFF

COUNTY: RIO ARRIBA STATE: NEW MEXICO

TOTAL DEPTH: PBTD 3748'

PERFS: 3585' TO 3652'

TUBING: 2 3/8 TO 3603' CASING SIZE:

PACKER:

OTHER: 1.81 FN @ 3592'

PRESSURED UP @

DATE: DECEMBER 1, 1999

TYPE TEST: STATIC GRADIENT

CASING PRESSURE:

TUBING PRESSURE: 960

OIL LEVEL:

WATER LEVEL: TEMPERATURE:

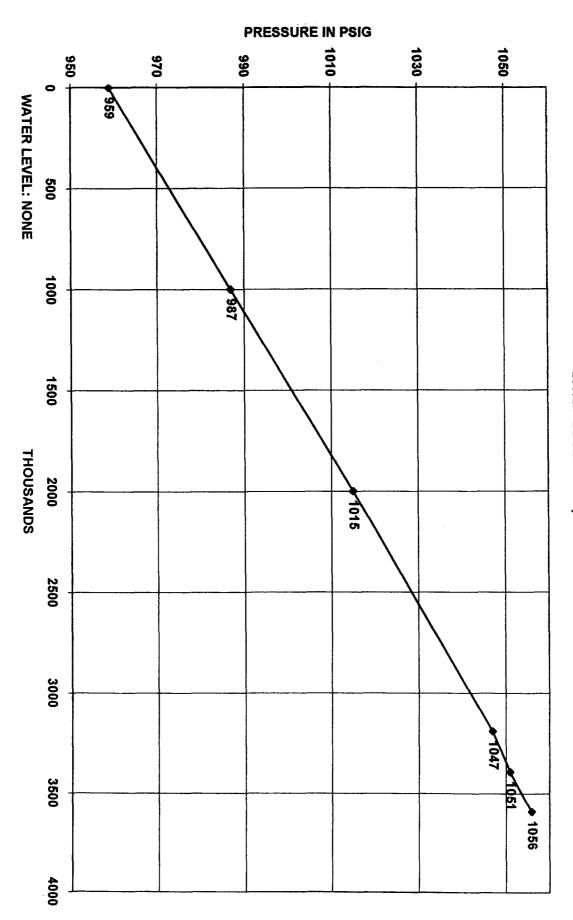
ELEMENT NO. 86484

ELEMENT RANGE 0 TO 3000

WELL STATUS: SHUT IN

| DEPTH IN | PRESSURE | GRADIENT |
|----------|----------|----------|
| FEET | PSIG | PSI/FOOT |
| • | 050 | |
| 0 | 959 | |
| 1000 | 987 | 0.028 |
| 2000 | 1015 | 0.028 |
| 3192 | 1047 | 0.027 |
| 3392 | 1051 | 0.020 |
| 3592 | 1056 | 0.025 |

SLM



PHILLIPS PETROLEUM SAN JUAN 29-6 # 16 DATE: DECEMBER 1, 1999

WELL NAME: SAN JUAN 29-6 # 51A

FORMATION: PICTURE CLIFF

COUNTY: RIO ARRIBA

STATE: NEW MEXICO

DATE: AUGUST 23, 1999

TYPE TEST: STATIC GRADIENT

2351'

TOTAL DEPTH: PBTD 4196'

PERFS: MP @ 3745'

TUBING SIZE: 2 3/8 TO 3804'

CASING SIZE: TO

PACKER:

OTHER: 2.25 SN @ 3773'

ENGAGED @ 09:10

CASING PRESSURE:

TUBING PRESSURE: 655

OIL LEVEL:

WATER LEVEL:

TEMPERATURE:

ELEMENT NO.

ELEMENT RANGE 0 TO 3500

WELL STATUS: SHUT IN

| DEPTH IN | PRESSURE | GRADIENT |
|----------|----------|----------|
| FEET | PSIG | PSI/FOOT |
| 0 | 650 | |
| 1000 | 657 | 0.007 |
| 2000 | 662 | 0.005 |
| 3373 | 933 | 0.198 |
| 3573 | 1016 | 0.415 |
| 3773 | 1103 | 0.430 |
| | | |

RAN TD @ 4179'

PHILLIPS PETROLEUM SAN JUAN 29-6 # 51A DATE: AUGUST 23,1999 THOUSANDS FLUID LEVEL: 2351" PRESSURE IN PSIG

WELL NAME: SAN JUAN 29-6 # 53' FORMATION: PICTURE-CLIFF

COUNTY: RIO ARRIBA STATE: NEW MEXICO DATE: DECEMBER 14, 1999

TYPE TEST: STATIC GRADIENT

TOTAL DEPTH:

PERFS: MID PERF 3317'
TUBING: 2 3/8" TO 3342'

CASING SIZE: PACKER:

OTHER: 1.81" FN @ 3329'

FRESSURED UP @ 08:45

CASING PRESSURE:

TUBING PRESSURE: 830

OIL LEVEL:

WATER LEVEL: TEMPERATURE:

ELEMENT NO. 86484

ELEMENT RANGE 0 TO 3000

WELL STATUS: SHUT IN

| PRESSURE | GRADIENT |
|----------|-----------------------------------------|
| PSIG | PSi/FOOT |
| 827 | |
| 858 | 0.031 |
| 885 | 0.027 |
| 909 | 0.026 |
| 913 | 0.020 |
| 919 | 0.030 |
| | PSIG 827 858 885 909 913 |

SLM @ 3329'

PRESSURE IN PSIG WATER LEVEL: NONE **THOUSANDS**

PHILLIPS PETROLEUM SAN JUAN 29-6 # 53
DATE: DECEMBER 14, 1999

DATE: AUGUST 11, 1999

WELL NAME: SAN JUAN 29-6 # 538

FORMATION: PICTURE CLIFF

TYPE TEST: STATIC GRADIENT

COUNTY: RIO ARRIBA STATE: NEW MEXICO

TOTAL DEPTH: PBTD 4485'

CASING PRESSURE: 1050 PERFS: MP 3753' TUBING PRESSURE: 0

TUBING SIZE: 2 3/8" TO 3804' OIL LEVEL:

CASING SIZE: WATER LEVEL: 1134

TEMPERATURE: PACKER:

OTHER: ELEMENT NO. **ELEMENT RANGE 0 TO 3000**

PRESSURED UP @ 08:05

WELL STATUS: SHUT IN

| DEPTH IN | PRESSURE | GRADIENT |
|----------|----------|----------|
| FEET | PSIG | PSI/FOOT |
| 0 | 51 | |
| 1000 | 58 | 0.007 |
| 2000 | 434 | 0.376 |
| 3372 | 1017 | 0.424 |
| 3572 | 1100 | 0.420 |
| 3772 | 1184 | 0.425 |

RAN TD TO 4381'

PHILLIPS PETROLEUM SAN JUAN 29-6 #53A DATE: AUGUST 11, 1999 THOUSANDS FLUID LEVEL: 1134' PRESSURE IN PSIG

PARPI - WELLZONE PRODUCTION BROWSE MEP81-01

MONTHLY TOTALS

Date: 1/11/00 User: MWSTODO

Wellzone F0274 01 Yr: 1999 Mth: 01 Property: 650112 SAN JUAN (29-6) MESA VERDE

Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000051

Type: T (T-Total, D-Daily Avg) Field: 070724 BLANCO
Period: M (M-Mnthly, Y-Yrly, C-Cum) Resvr: 20002 (MESAVERDE)

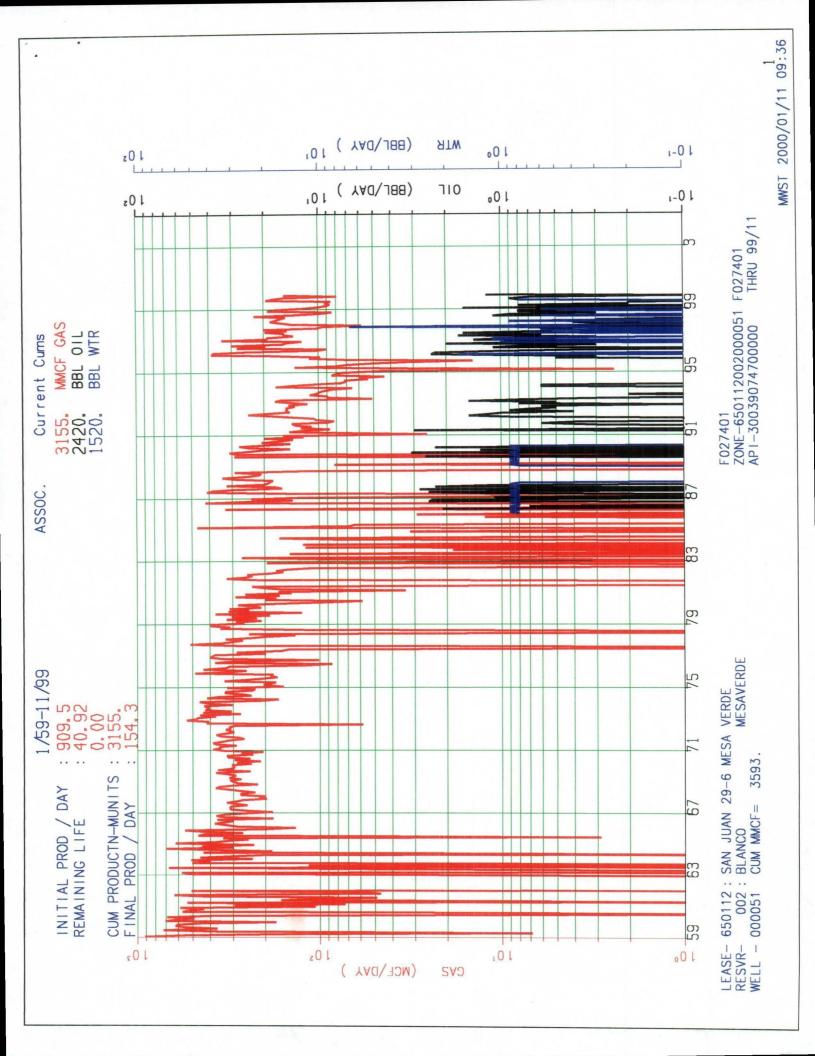
| ADJ | | PRODUCED | | DAYS | | - W | ELL - | - |
|-----------|-----------|-----------|-------------|-------|----|-----|-------|---|
| FLG DATE | OIL (BBL) | GAS (MCF) | WATER (BBL) | PROD | OP | ST | CL TY | ľ |
| 1999-01 | 50.87 | 3,757 | 0 | 31.00 | 31 | 11 | 03 2 | |
| 1999-02 | 0.00 | 2,794 | 0 | 28.00 | 28 | 11 | 03 2 | |
| 1999-03 | 24.25 | 2,800 | 0 | 31.00 | 31 | 11 | 03 2 | |
| 1999-04 | 4.79 | 2,591 | 0 | 30.00 | 30 | 11 | 03 2 | |
| 1999-05 | 5.24 | 2,855 | 0 | 31.00 | 31 | 11 | 03 2 | |
| 1999-06 | 0.00 | 2,567 | 0 | 30.00 | 30 | 11 | 03 2 | |
| * 1999-07 | 24.38 | 5,985 | 26 | 31.00 | 31 | 11 | 03 2 | |
| 1999-08 | 28.64 | 5,517 | 0 | 31.00 | 31 | 11 | 03 2 | |
| * 1999-09 | 19.93 | 4,663 | 0 | 30.00 | 30 | 11 | 03 2 | |
| * 1999-10 | 4.50 | 2,472 | 0 | 31.00 | 31 | 11 | 03 2 | |
| * 1999-11 | 35.26 | 4,628 | 0 | 30.00 | 30 | 11 | 03 2 | |
| | | | | | | | | |

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH

PF7=Backward PF8=Forward PF4=PREV SCREEN PF12=LOG GRAPH Transfer->

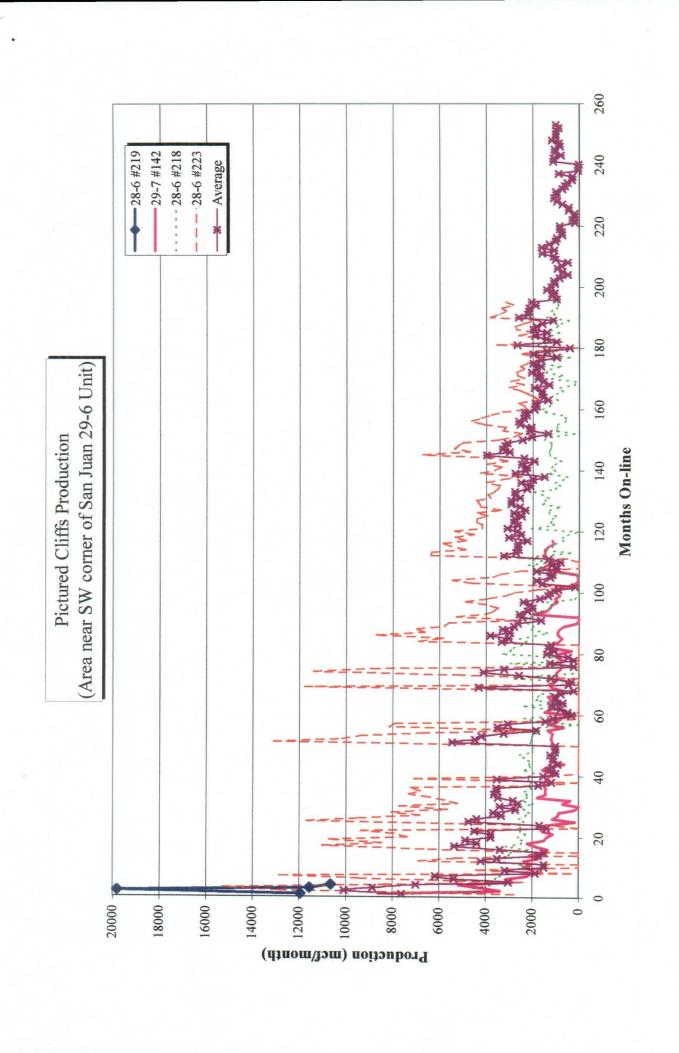
Date: 1/11/2000 Time: 08:43:31 AM



San Juan 29-6 #51 Pictured Cliffs Forecast

| Initial Production Rate | = | 250 MCFD |
|-------------------------|---|----------|
| Hyperbolic Exponent | = | 0.33 |
| Decline Rate | | 27.360 % |

| Month | Days | Cum. Days | Initial q MCFD | Final q MCFD | Average q MCFD | Cum. MCF | Monthly MCF |
|--------|------|--------------|-------------------|-----------------|-------------------|-------------|----------------|
| Dec-99 | 31 | 31 | 250 | 244 | 247 | 7,661 | 7,661 |
| Jan-00 | 31 | 62 | 244 | 239 | 242 | 15,147 | 7,486 |
| Feb-00 | 28 | 90 | 239 | 234 | 236 | 21,763 | 6,616 |
| Mar-00 | 31 | 121 | 234 | 229 | 231 | 28,931 | 7,168 |
| Apr-00 | 30 | 151 | 229 | 224 | 226 | 35,716 | 6,785 |
| May-00 | 31 | 182 | 224 | 219 | 221 | 42,574 | 6,858 |
| Jun-00 | 30 | 212 | 219 | 214 | 216 | 49,156 | 6,582 |
| Jul-00 | 31 | 243 | 214 | 209 | 212 | 55,720 | 6,563 |
| Aug-00 | 31 | 274 | 209 | 205 | 207 | 62,141 | 6,421 |
| Sep-00 | 30 | 305 | 205 | 201 | 203 | 68,307 | 6,166 |
| Oct-00 | 31 | 336 | 201 | 196 | 199 | 74,458 | 6,151 |
| Nov-00 | 30 | 366 | 196 | 192 | 194 | 80,367 | 5,908 |
| Dec-00 | 31 | 397 | 192 | 188 | 190 | 86,263 | 5,896 |
| Jan-01 | 31 | 428 | 188 | 185 | 186 | 92,035 | 5,773 |
| Feb-01 | 28 | 456 | 185 | 181 | 183 | 97,146 | 5,111 |
| Mar-01 | 31 | 487 | 181 | 177 | 179 | 102,693 | 5,547 |
| Apr-01 | 30 | 518 | 177 | 174 | 175 | 108,025 | 5,332 |
| May-01 | 31 | 549 | 174 | 170 | 172 | 113,349 | 5,324 |



Production Allocation Methodology

- ♦ Adding New Zone to Existing Zone Initially Subtraction Method followed by Fixed Allocation Method
 - Subtraction Method (+/- 1st 12 months)
 - Forecast production rate by month for existing zone utilizing established decline curve for zone
 - Subtract forecasted rate from commingled rate to define new zone rate
 - Utilize subtraction method for +/- 12 months until new zone rate stabilizes, then utilize fixed allocation method with current rates
 - Fixed Allocation Method (after Subtraction Method)
 - Utilize forecasted rate from established decline curve for lower zone
 - Calculate upper zone rate by subtracting lower zone rate from commingled rate
 - Lower zone allocation = <u>Lower zone rate</u>
 Commingled rate
 - Upper zone allocation = (Commingled rate - Lower zone rate) / Commingled rate