DISTRICT I P.O. Box 1950, Hobbs, NM 88240 DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107-A New 3-12-96

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

APPROVAL PROCESS:

811 South First St., Artesia, NM 88210 DISTRICT III

___ Administrative ___Hearing

1000 Rio Brazos Rd, Aztec. NM 87410

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE X YES _ NO

Lower Lowe		No. 8 III, P Se Vent Lir. e 6414 API NO. 30	. ₩	scing Unit Lesse Types: (check 1 or more)
Top and Battern of Pop and Batte	he following facts are submitted in upport of downhole commingling:		Intermediate	Lower
Pays action (Perforational 2070–3134' 7258–7402' Type of production (Glor or Gas') Method of Production Gas Gas Gas Method of Production Expect Artificial Lift Artificial Lift Artificial Lift Artificial Lift Bottomhole Pressure Lones - Artificial Lift Artificial Lift Artificial Lift Bottomhole Pressure Too Poil Song Pays Song Pays Song Pays 10	Pool Name and Pool Code		s N/A	
Method of Production [Flowing or Artificial Lift] Bottomhole Pressure 12 ones - Artificial Lift 8 & Oil - Flowing Measured Current 15 ones 2 ones: 10 o	Top and Bottom of Pay Section (Perforations)	3070-3134'		7258 - 7402'
Expect Artificial Lift Expect Artificial Lift Artificial Lif	Type of production (Oil or Gas)	Gas		Gas
12 ones - Artificial Lift: 750 psi 510 psi 510 psi 1082	Method of Production (Flowing or Artificial Lift)		ift	Artificial Lift
If See Zones: Ges Zones: 1094	Bottomhole Pressure I Zones - Artificial Lift:		8.	
Production Marginal? (yes or no) If Shut-in, give date and oil/gas/ water rates of last production Date: N/A Date: N/A Date: Rese:: N/	as & Oil - Flowing: Measured Current II Gas Zones:	(1)33)	b.	
Producting Yes Y	. Oil Gravity (°API) or Gas BTU Content	1094		1212
If Shut-In, give date and oil/gas/ water rates of last production oist: For new zones with no production oist: For new zones with ne production oist: For new zones with new zone zone zone zone zone zone zone zone	. Producing or Shut-In?	Producing		Shut -i n
water rates of last production site; For new yones with ne production site; For yones with	Production Marginal? (yes or no)	Yes		Yes
the Producing, give date and oil/gas/ water rates of recent test (within 60 days) Pixed Percentage Allocation Formula: Fixed Percentage Allocation Formula is based upon something other than current or past production, or is based upon some other met submit attachments with supporting data and/or explaining method and providing rate projections or other required of the proposed downhole commingling? Are all working, overriding, and royalty interests identical in all commingled zones? 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? Are all working, overriding, and royalty interests been notified by certified mail? Will cross-flow occur? Yes No If yes, are fluids compatible, will the formations not be damaged, will any of flowed production be recovered, and will the allocation formula be reliable. Are all produced fluids from all commingled zones compatible with each other? Yes No (If No, attach explanation) Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation) 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 NMOCD Reference Cases for Rule 303(C) Exceptions: ORDER NO(S). 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 inistory, estimated production rates and supporting data. Notification list of all offset operators. Notification list of all offset operators. Any additional statements, data, or documents required to support commingling.		Bases:	1	Date: 9/2/99 Rates: 0,1/92/0,1
If allocation formula is based upon something other than current or past production, or is based upon some other met submit attachments with supporting data and/or explaining method and providing rate projections or other required of the control	roduction estimates and supporting data If Producing, give date andoil/gas/ water rates of recent test	Rates:		Rates:
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? Will cross-flow occur? Yes No If yes, are fluids compatible, will the formations not be damaged, will any composed production be recovered, and will the allocation formula be reliable. Are all produced fluids from all commingled zones compatible with each other? Wes No (If No, attach explanation) Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation) 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. NMOCD Reference Cases for Rule 303(C) Exceptions: ORDER NO(S). 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 explaination.) * Por zones with no production history, estimated production rates and supporting data. * Notification list of all offset operators. * 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.	3. Fixed Percentage Allocation Formula -% for each zone	Oil: 20 % Gas: 61 %	Oil: Gas: %	Oii: 80 % Gas: 39 %
2. Are all produced fluids from all commingled zones compatible with each other? 2. Yes No (If Yes, attach explanation) 3. Will the value of production be decreased by commingling? 3. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bursau of Land Management has been notified in writing of this application. 3. NMOCD Reference Cases for Rule 303(C) Exceptions: 4. C-102 for each zone to be commingled showing its spacing unit and acreage dedication. 5. Production curve for each zone for at least one year. (If not available, attach explaination.) 6. For zones with no production history, estimated production rates and supporting data. 6. Data to support allocation method or formula. 7. Notification list of all offset operators. 8. Notification list of working, overriding, and royalty interests for uncommon interest cases. 8. Any additional statements, data, or documents required to support commingling. 8. Interest Cases of the production above is true and complete to the best of my knowledge and belief.). Are all working, overriding, a If not, have all working, ove Have all offset operators bee	and royalty interests identical ir rriding, and royalty interests be n given written notice of the pro	n all commingled zones? sen notified by certified mail? oposed downhole commingling	$\frac{X}{N/A} = \frac{X}{Yes} = \frac{No}{No}$
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	6. ATTACHMENTS:	for each zone for at least one i	vear (if not available attach :	evolaination l
GNATURE Throat Kast TITLE Production Eng. DATE 11/15/99	* Production curve * For zones with no * Data to support a * Notification list of	o production history, estimated illocation method or formula, f all offset operators		
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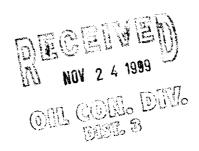
P.O. Box 2490 Hobbs, New Mexico 88240 Telephone 505/393-7106

November 15, 1999

NM BLM
Deputy State Director
Resource Planning, Use and Protection
P.O. Box 27115
Santa Fe, New Mexico 87502-0115

RE: F

Request for Downhole Commingling Jicarilla Apache Well No. 8 Unit Letter P, 990' FSL & 990' FEL Section 27, T-26-N, R-5-W Blanco Picture Cliff & Basin Dakota Rio Arriba County, New Mexico



Dear BLM personnel:

Marathon Oil Company requests administrative approval for the downhole commingling of production in the above subject well from the Blanco Picture Cliff & Basin Dakota pools in Rio Arriba County, New Mexico.

Jicarilla Apache Well No. 8 was drilled in 1955. The Blanco P.C. South pool was open-hole completed. In 1966, the wellbore was deepened and cased to TD. The well was perforated and completed in the Basin Dakota. At the end of the 1st quarter of 1999, the intermediate casing developed pressure. In September 1999, the Dakota was abandon below a RBP and the intermediate casing pressure problem was fixed. Afterwards, the Blanco P.C. South was perforated and stimulated with acid and a sand frac. The downhole commingling of these two pools will be by plunger lift through a single production tubing string. This should prevent crossflow during normal production operations.

Enclosed is pertinent data supporting this application. If additional information is necessary, please contact me at (505) 393-7106, ext 201.

Sincerely,

Thomas P. Kacir Production Engineer

Enclosure

P.O. Box 2490



MARATHON Oil Company Hobbs, New Mexico 88240 Telephone 505/393-7106

November 15, 1999

Mr. David Catanach Oil Conservation Department Energy and Minerals Department 2040 South Pacheco Santa Fe, New Mexico 87505

RE:

Request for Exception to Rule 303-A Downhole Commingling Jicarilla Apache Well No. 8 Unit Letter P, 990' FSL & 990' FEL Section 27, T-26-N, R-5-W Blanco Picture Cliff & Basin Dakota Rio Arriba County, New Mexico

Dear Mr. Catanach:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of production in the above subject well from the Blanco Picture Cliff & Basin Dakota pools in Rio Arriba County, New Mexico.

Jicarilla Apache Well No. 8 was drilled in 1955. The Blanco P.C. South pool was open-hole completed. In 1966, the wellbore was deepened and cased to TD. The well was perforated and completed in the Basin Dakota. At the end of the 1st quarter of 1999, the intermediate casing developed pressure. In September 1999, the Dakota was abandon below a RBP and the intermediate casing pressure problem was fixed. Afterwards, the Blanco P.C. South was perforated and stimulated with acid and a sand frac. The downhole commingling of these two pools will be by plunger lift through a single production tubing string. This should prevent crossflow during normal production operations.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please contact me at (505) 393-7106, ext 201.

Sincerely,

Thomas P. Kacir Production Engineer

Enclosure

REQUEST FOR EXCEPTION TO RULE 303-A Jicarilla Apache Well No. 8

A: Operator

Marathon Oil Company P.O. Box 2490 Hobbs, New Mexico 88241

B: Lease Name and Well Number

Jicarilla Apache Well No. 8 Unit Letter P, 990' FSL & 990' FEL Section 27, T-26-N, R-5-W Rio Arriba County, New Mexico Blanco Pictured Cliffs South, Basin Dakota

C: Plats and Offset Operators

Attached

D: C-116's

Attached

E: Production Decline Curves

Expected Decline Curves are Attached

F: Estimated Bottomhole Pressures

Current

Blanco Pictured Cliffs

750 psi

Basin Dakota

510 psi

G: Product Characteristics

Previous commingling of these zones by other operators in this area have shown that the produced fluids are compatible and commingling will not cause formation damage.

H: Value

Marathon receives the same price for product from these zones and value will not be adversely affected.

I: Production Allocation

POOL	BOPD	MCFD	BWPD	Estimated Methods
Pictured Cliffs	0.1	108	0.3	Post Workover (note below)
Basin Dakota	<u>0.4</u>	<u>69</u>	0.5	Pre-Workover Average
Total	0.5	177	0.8	

Allocated Percentages	<u>Oil %</u>	Gas %	Water %
Pictured Cliffs	20	61	38
Basin Dakota	<u>80</u>	<u>39</u>	<u>62</u>
Total	100	100	100

J: Ownership

Ownership of all zones is common and correlative rights will not be compromised.

K: Offset Operators

A list of offset operators is included. The offset operators were not notified because of the rule change in July 1999, eliminating the notification of offset operators.

OFFSETTING OPERATORS Jicarilla Apache Well No. 8 UL "P", 990' FSL, 990' FEL Section 27, T-26-N, R-5-W Rio Arriba County, New Mexico

On the North, Northwest, West, Southwest and South:

Marathon Oil Company P.O. Box 2490 Hobbs, NM 88240

On the Northeast, East and Southeast:

Burlington Resources Oil & Gas Company 3535 E. 30th Street Farmington, NM 87402

DHC Additional Data

The Pictured Cliffs in Jicarilla Apache Well No. 8, is expected to have additional back pressure on it when DHC with the Dakota.

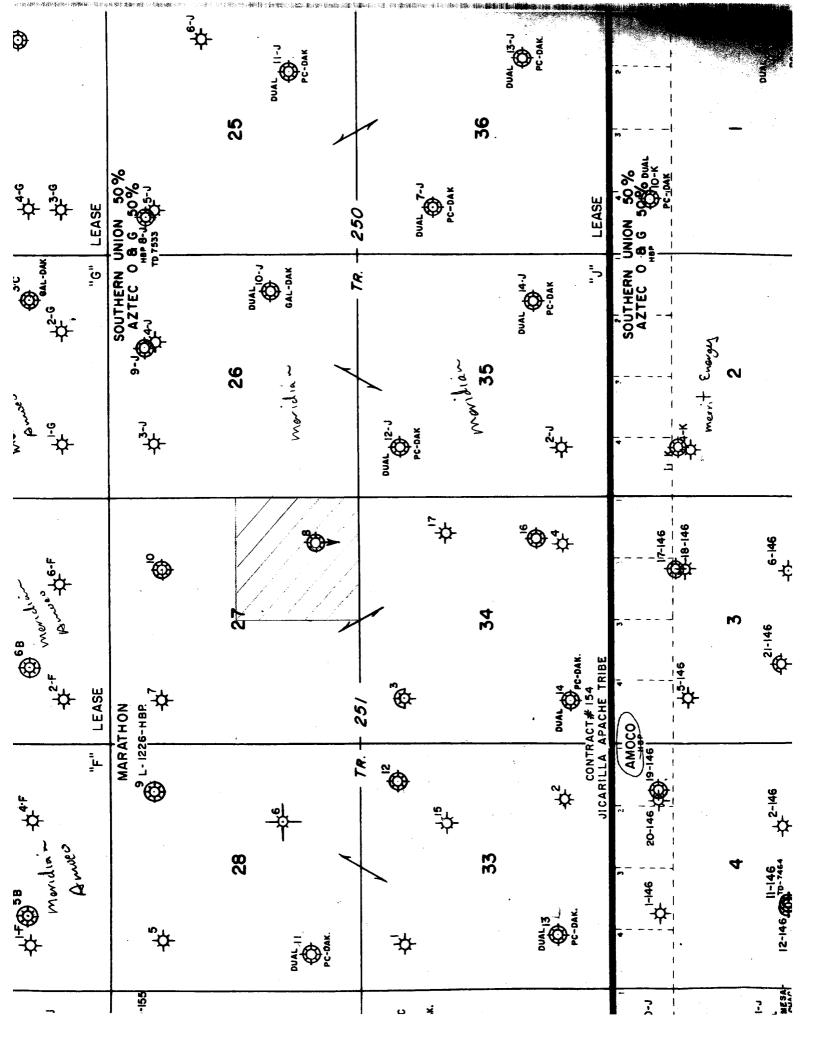
Pictured Cliffs gas production after DHC w/ Dakota is expected to be:

```
Static TP = 640 psig
Current Producing TP = 45 psig
Expected Producing CP = 125 psig (plunger lift w/ Dakota)
```

Currently the Pictured Cliffs drawdown is at 93% of static. Expected Pictured Cliffs drawdown will be at 80% of static. The current gas rate will be reduced by 14% due to the change in drawdown.

```
Current gas rate = 126 MCFPD
Expected gas rate = 108 MCFPD
```

The production from the Basin Dakota in Jicarilla Apache Well No. 8 was average from January 1998 through February 1999. Attempts to blow down the intermediate casing, keep the latter data from being representative of the Dakota production. The average production rates were used for allocation purposes and prediction of Dakota production after DHC with Pictured Cliffs.



Revised 1/1/89 Form C-116

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 2040 Pacheco St. Santa Fe, NM 87505

DISTRICT II 811 S. 1st Street, Artesia, NM 88210-2834 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

Submit 2 copies to Appropriate

District Office.

GAS - OIL RATIO TEST

Operator					_	Pool						County				
Marathon Oil Company						Blanco	Picture	d Cliff	Blanco Pictured Cliffs & Basin Dakota	Dakota				R10	Rio Arriba	
Address							TYPE OF									
P.O. Box 2490 Hobbs, NM 88240	유						TEST - (X)		Scheduled		Completion	tion		Sp	Special X	_
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Jicarilla Apache ; Dakota	σı	۵.	27	56	ഹ	9/02/99	۵.	40		24	0.1			0.1	92	920,000
Instructions										I hereby certify that the above information is true and	certify t	hat the	above ir	nformat	ion is tra	re and

Instructions:

which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60°F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

Telephone No. (505) 393-7106

Production Engineer

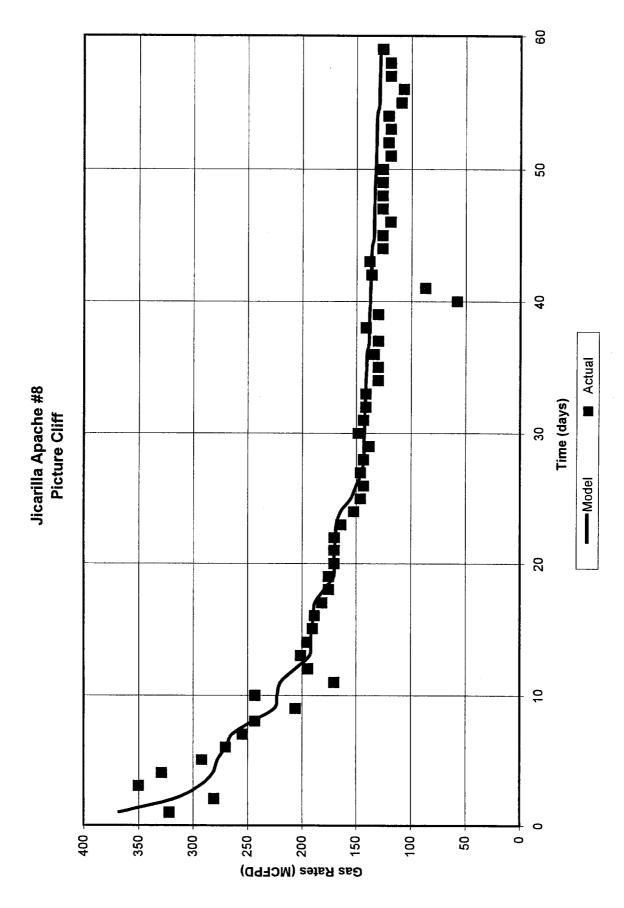
Printed name and title November 12, 1999

Date

Thomas P. Kacir

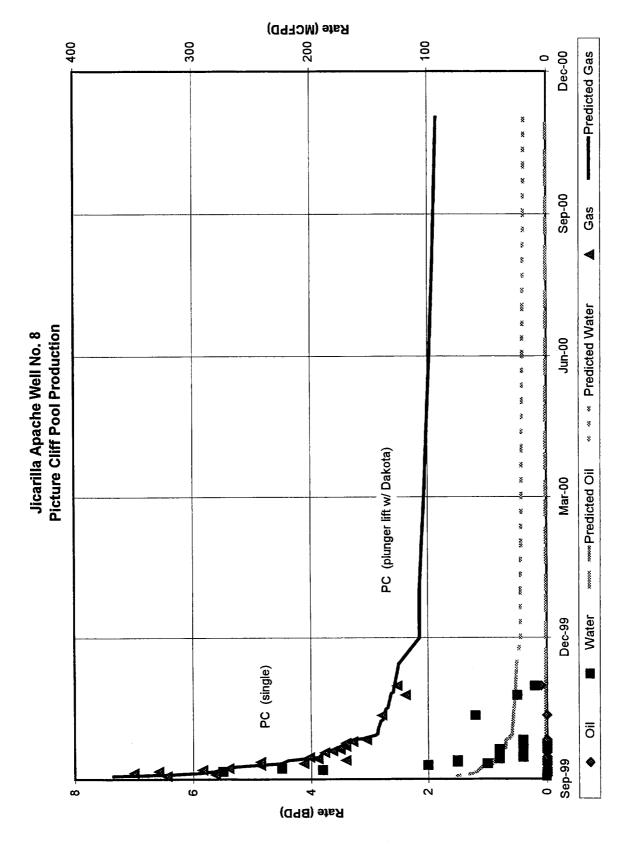
Signature

complete to the best of my knowledge and belief.



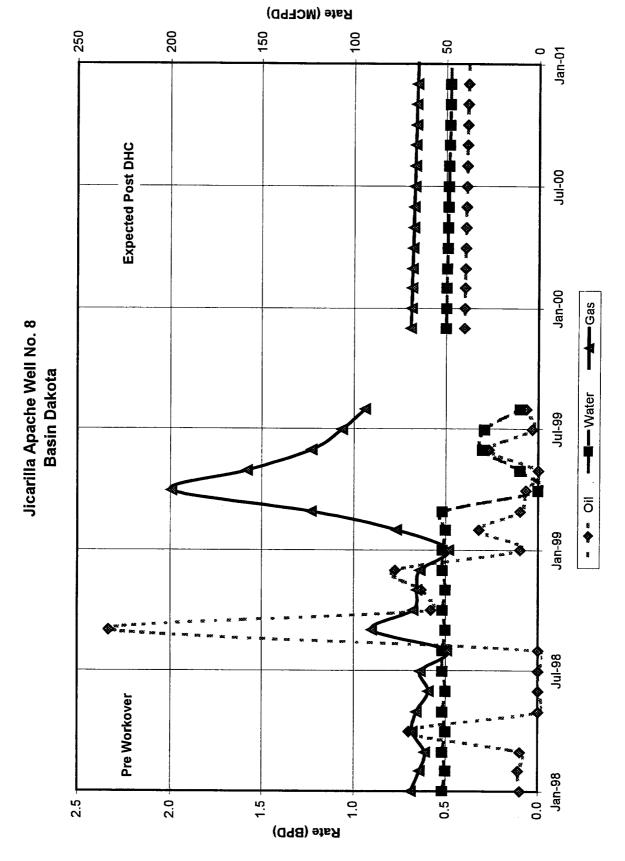
Sec 27, T-26-N, R-5-W 990' FSL, 990' FEL

Pictured Cliffs, Dakota DHC Application



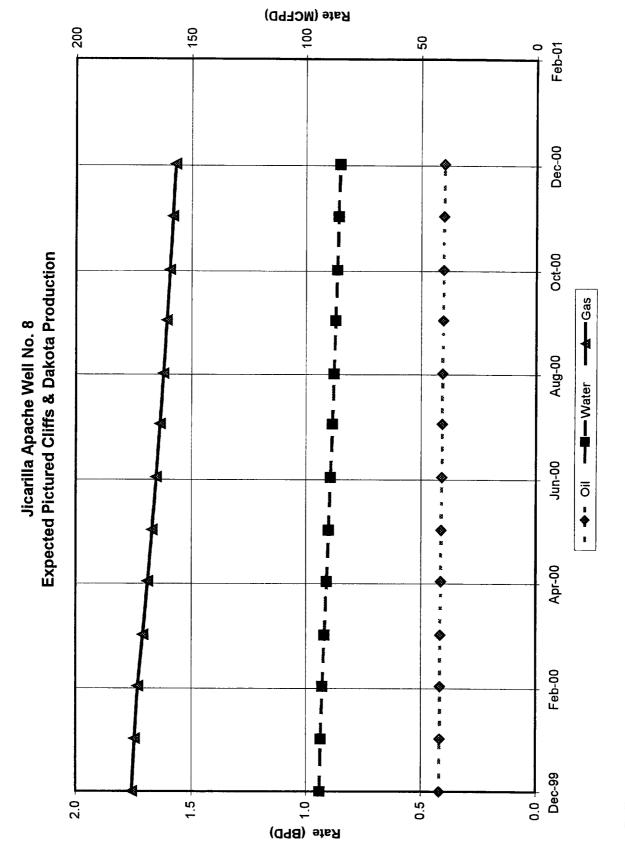
Sec 27, T-26-N, R-5-W 990' FSL, 990' FEL

Pictured Cliffs, Dakota DHC Application



Sec 27, T-26-N, R-5-W 990' FSL, 990' FEL

Pictured Cliffs, Dakota DHC Aplication



Sec 27, T-26-N, R-5-W 990' FSL, 990' FEL

Pictured Cliffs, Dakota DHC Application

District I PO Box 1980, Hobbs, NM 88241-1980 District [[811 S. Ist Street, Artesia, NM 88210-2834 District [][1000 Rio Brazos Rd., Aztec, NM 87410 District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

Santa Fe, NM 87505

		WELL	WELL LOCATION AND ACREAGE DEDICATION PLAT									
¹ API Number ² Pool Code ³ Pool Name												
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0140	<u> </u>			· · · · · · · · · · · · · · · · · · ·	Marathon Surface					6	660' GL	
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District I

PO Box 1980, Hobbs, NM 88241-1980

District II

811 S. 1st Street, Artesia, NM 88210-2834

District III

1000 Rio Brazos Rd., Aztec, NM 87410

1000 Rio B District IV

2040 South Pacheco, Sauta Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	r		² Pool Code		³ Pool Name					
30	0-039-062	280		71599		Basin Dakota					
⁴ Property					⁵ Pro	Property Name 6 Well Number					
641 7 OGRID	<u>4</u>				Jicar	arilla Apache 8 Operator Name 9 Elevation					
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			Вс	ottom Hole L	ocation 1	f Diffe	erent From Surfac	ce			
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from	n the	North/South Line	Feet from the	East/W	est line	County
¹² Dedicated Acre	s 13 Joint	or Infill 14C	onsolidatio	n Code 15 Ord	der No.						
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	}							I hereby certify to	hat the in	formation	contained herein is
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	i							Thomas P.	Kacir		
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			1			Production Engineer Title 11-12-99 Date					
											
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