

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

BRUCE KING GOVERNOR 6/17/94

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	
RE: Proposed: MC DHC X NSL NSP SWD WFX PMX	
Gentlemen:	
I have examined the application for the Marathan (i) (i) (ii) (iii) (iii	Juch#4-D-1-22-37
and my recommendations are as follows:	
Yours very truly	
Serry Sala	
Jerry Sexton Supervisor, District 1	



P.O. Box 2409 Hobbs, NM 88241-2409 Telephone 505/393-7106

June 13, 1994

State of New Mexico Oil Conservation Division Energy and Mineral Department Mr. David Catanach PO Box 2088 Santa Fe, NM 87501

RE: REQUEST FOR EXCEPTION TO RULE 303-A DOWNHOLE COMMINGLING WALTER LYNCH WELL NO. 4

UNIT D, 660' FNL AND 585' FWL SECTION 1, T-22-S, R-37-E TUBB AND BLINEBRY FORMATIONS

DRINKARD FIELD

LEA COUNTY, NEW MEXICO

Dear Mr. Catanach:

Marathon Oil Company respectfully requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of the Tubb and Blinebry formations in the above mentioned well.

Currently, the well is a dual Blinebry and Tubb producer. The Tubb flows up one 2 1/16" production string with the Blinebry being rod pumped up the second 2 1/16" production string. A recent workover was conducted to install rod pumping equipment to allow the rod pumping of the Blinebry, however difficulties were encountered due to a paraffin build-up inside the casing. The removal of the paraffin resulted in ±400 bbls of load water being placed on both formations. The Blinebry has responded to rod pumping by producing at a rate of 8 BOPD, 310 MCFD and 2 BWPD. The Tubb will not flow due to the fluid load that was placed upon it. Several attempts to swab the well in and an attempt to dry up the formation with CO2 has failed.

The proposed downhole commingling will allow the Tubb to be pumped from a point below the perforations to allow for the maximum drawdown needed to remove the load water that has been placed upon it. The rod pumping will ensure that cross flow will not occur and the current production level of the Blinebry will be maintained. The production level of the Tubb is expected to return to the preworkover level of 332 MCFD.

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

Sincerely,

T.A. Deines

Northwest Operations

Production Superintendent

RDG:SPG/9476/kc

Attachments

REQUEST FOR EXCEPTION TO RULE 303-A

WALTER LYNCH WELL NO. 4 DRINKARD FIELD

- (A) Marathon Oil Company
 PO Box 2409
 Hobbs, NM 88240
- (B) Walter Lynch Well No. 4
 Unit D, 660' FNL & 585' FWL
 Section 1, T-22-S, R-37-E
 Lea County, New Mexico
 Commingle Zones: Tubb
 Blinebry
- (C) A plat of the area is attached showing the lease and offset operations. Also attached is a C-102 for each formation.
- (D) The Form C-116 for each of the formations is attached. The allocated production for the Blinebry will be based upon the current rate and the rate for the Tubb will be based upon the preworkover rates along with the historical production declines.
- (E) Production curves for both the Tubb and Blinebry are attached.
- (F) <u>Estimated</u> bottomhole pressure for each zone:

Tubb 460 psia Blinebry 442 psia

- (G) These pressures are based upon shut-in tubing pressures obtained during the shut-ins for packer leakage tests. Marathon is commingling the fluids at the surface and has not encountered incompatibility problems.
- (H) If the downhole commingling is approved, the lost production and reserves of the Tubb will be recovered while maximizing recoveries from the Blinebry, preventing waste.

(I) Production from the latest GOR test as follows:

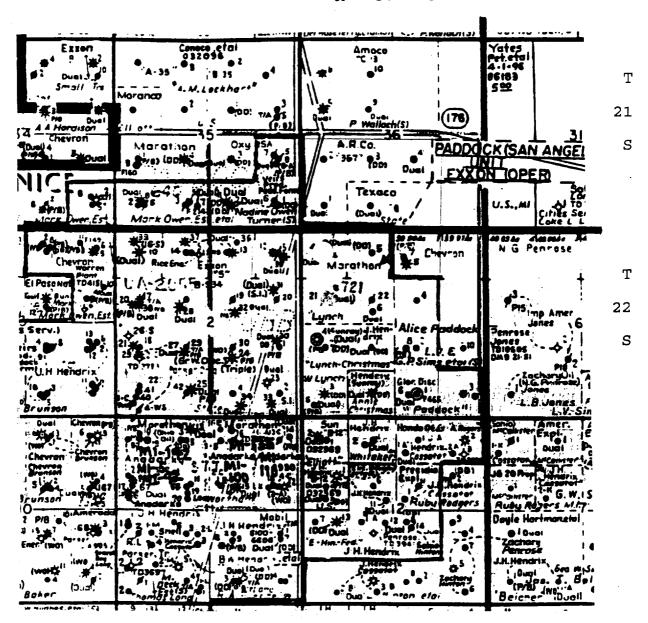
FORMATION	OIL (bpd)	GAS (mcfd)	WATER (bpd)
Tubb* Blinebry	0 8	332 310	0 2
TOTAL	8	642	2

^{*} Well is currently dead. Rates are based upon production prior to a workover.

Allocated Percentages should be:

FORMATION	OIL (%)	GAS (%)	WATER (%)
Tubb Blinebry	0 100.0	51.7 48.3	0.0 100.0
TOTAL	100.0	100.0	100.0

- (J) Ownership of the two pools to be commingled are in common and correlative rights will not be violated.
- (K) By copy of this letter, we are notifying all offset operators of the proposed commingling.



LAND PLAT DRINKARD AREA

LEA COUNTY, NEW MEXICO

1'' = 2800'

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 10, 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

		W.E.	LL LO	CATIC	N AND AC	REAGE DED	ICATION PI	_AT	
	API Numb	er ·		¹ Pool Co	ode	D1: 1	Pool N	ame	
30-025-0						Blinebry			
⁴ Property	Cede	Walte	er Lyno	ch	³ Proper	ty Name			• Well Number 4
'OGRID 14021	No.	Marat	thon 0:	il Com	' Operato	or Name			'Elevation 3358 'GR
		***			10 Surfac	e Location			
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West lin	ne County
D	1	22S	37E		660	North	585	West	Lea
	· · · · · · · · · · · · · · · · · · ·	<u> </u>	11 Bot	tom Ho	le Location	If Different Fr	om Surface		
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West lin	oe County
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NO ALLO	WABLE								CONSOLIDATED
	•	ORA	NON-ST.	ANDARI	UNIT HAS	BEEN APPROVED			ERTIFICATION
585'		•					Signature Rick Printed Nam Prod Title June Date	D. Gaddi Metrion En	ngineer
	·	·					I hereby cert was plotted f me or under and correct i Date of Surv	ify that the well from field notes of my supervision, to the best of my ey	location shown on this plat of actual surveys made by and that the same is true belief.

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

PO Box 2088, Santa Fe, NM 27504-2088

State of New Mexico Energy, Minerais & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 10, 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

	APT Numb	er ·		¹ Pool Code	•	W. 1. 1.	³ Pool N	rme		
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rroperty	Cóme	Walt	ter Lyn	ch	rrop	erty (value			4	Well Number
'OGRID	No.				¹ Oper	ator Name		-		¹ Elevation
14021		Mara	athon O	il Compa	ıny				33	58' GR
		<u></u>			10 Surfa	ce Location				
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12 Dedicated Acr	res 13 Joint	or Infill 14	Consolidatio	on Code 14 O	rder No.		1		-	
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							Joel (Tool			
							Signature		_ 	
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							Date	13, 199	4 .	
			The second second		 		18SURV	EYOR	CERT	IFICATION
							l hereby cert	ify that the w	ell location	shown on this plat
	1			1						l surveys made by at the same is true
							and correct t	o the best of	my belief.	
							Date of Surv	EY		
							Signature and	•	casional Si	urveyer:
	_									
							Cartificate M			

Revised 1/1/89 Form C-116

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Drawer DD, Artesia, NM 88210

DISTRICT II

DISTRICT III

P.O. Box 1980, Hobbs, NM 88240

Submit 2 copies to Appropriate

District Office.

DISTRICT

GAS - OIL RATIO TEST

Operator						Pool						<u>స</u> —	County				
Marathon Oil Company						Blinebry	bry						Lea				
Address						다 크	TYPE OF TEST - (X)	<u> </u>	Scheduled		3	Completion [ගි	Special		
FU Box 24U9, Hobbs,	NM 8824U	924U		Į į		1	SI			DAII Y	LENGTH	PRC	PROD. DURING TEST	G TEST		GAS - O'I	,
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Walter Lynch	7	Q		22S	37E	76/9/9	പ	N/A	150*	N/A	24	2	70	«	310	38,750	
* Back pressure valve installed to help prevent gas locking. Casing pressure is 40 psi.																	
											1	19:4	de off	July and	Tmation	1 horabu garafu shus abaya information is frue and	7

Instructions:

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

Production Engineer complete to the best of my knowledge and belief. Rick D. Gaddis, Printed name and title Signature

June 13, 1994

Date

relephone No. (505) 393-7106

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

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Drawer DD, Artesia, NM 88210

DISTRICTI

DISTRICT III

P.O. Box 1980, Hobbs, NM 88240

Submit 2 copies to Appropriate

District Office.

DISTRICT

GAS - OIL RATIO TEST

Consider						Pool						ပိ	County .			
Operator Marathon Oil Company						T	Tubb							Lea		
Address NO Box 24.09 Hobbs NM	07288					F	TYPE OF TEST - (X)	<u>-</u> -	Scheduled	ا	් රි 	Completion		ග්	Special X	
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LEASE NAME	WELL NO.	>	် န	<u> </u>	æ	DATE OF TEST	TATS	CHOKE	PRESS.	ALLOW- ABLE	TEST HOURS	WATER BBLS.	GRAV.	OIL BBLS.	GAS M.C.F.	PATIC CU.FT/B.
Walter Lynch	4	О	F-1	22S	37E	3/15/94	Ħ	N/A	20		24	0	N/A	0	332*	!
* Gas rate prior to workover Well is currently dead.	ver															
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Instructions:			-	_			_			8\ 	I hereby certify that the above information i complete to the best of my knowledge and belief.	ertify th	at the all of my km	bove info	ormation and belie	I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Instructions:

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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.

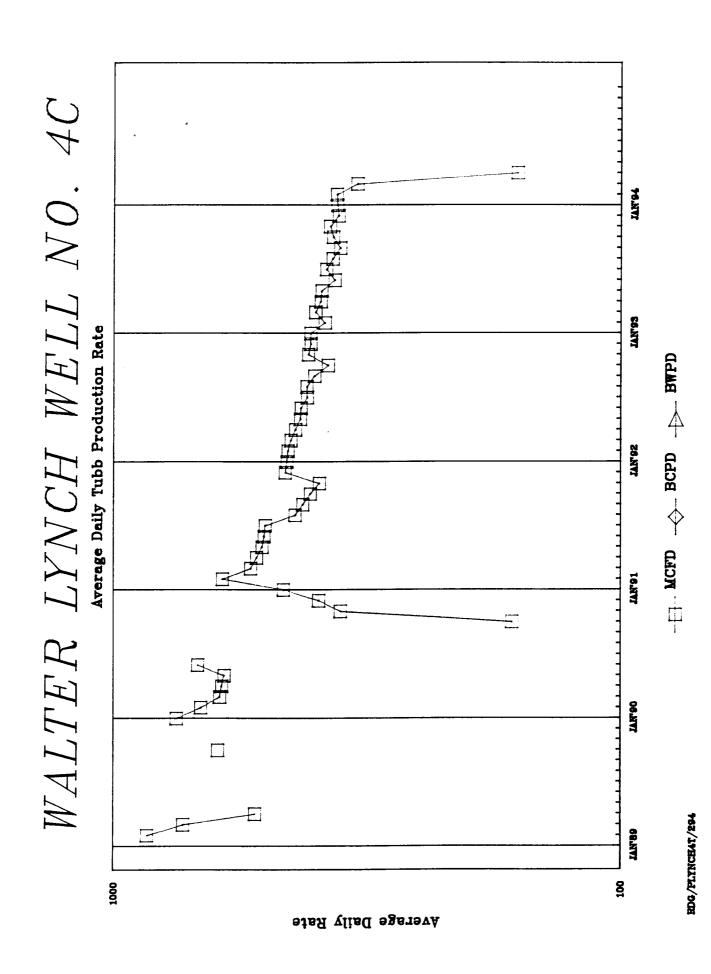
(505) 393 - 7106 Telephone No.

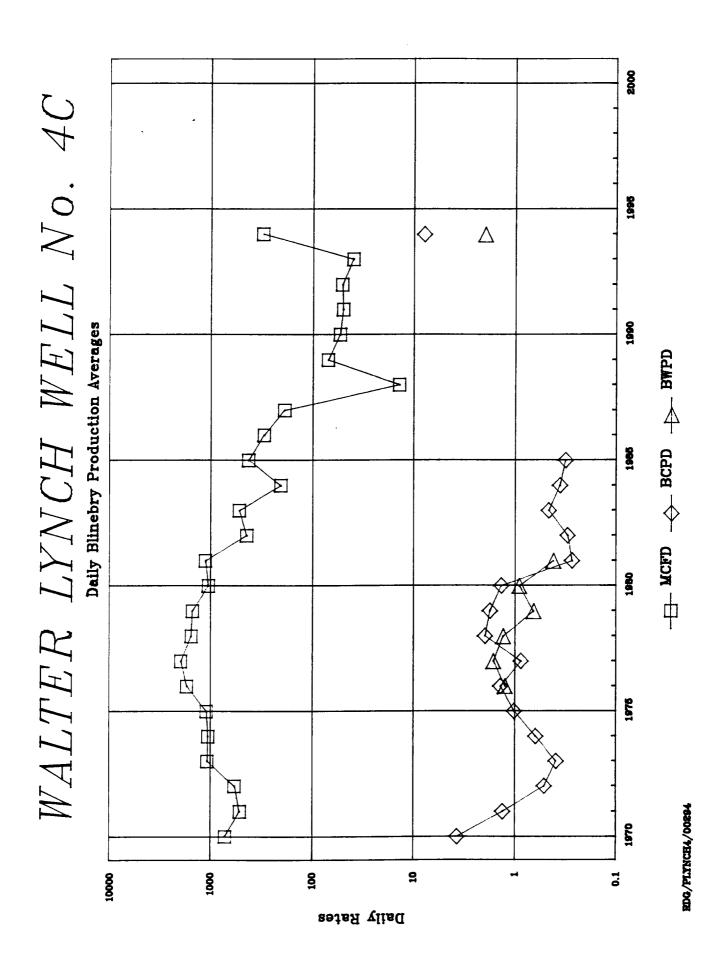
June 13, 1994

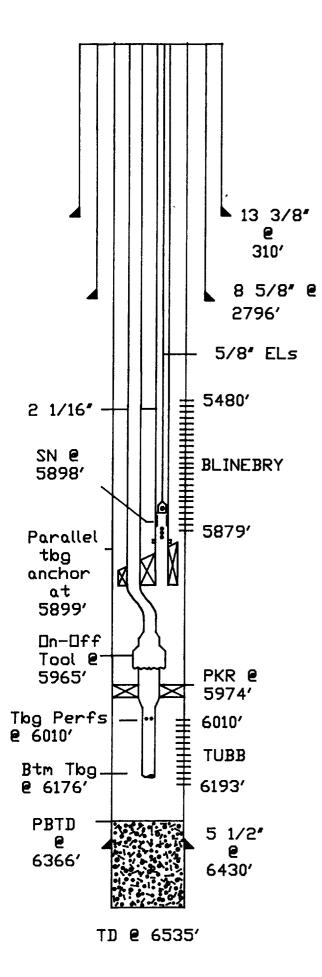
Rick D. Gaddis, Production Engineer Printed name and title

Signature

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







DRINKARD FIELD

Unit D, 660' FSL & 585' FEL Section 1, T-22S, R-37E Lea County, New Mexico

TD: 6535' PBTD: 6366' KB: 3371' GL: 3358'

SURFACE: 13 3/8" set at 310' cmt'd 250 sxs.

INTERMEDIATE: 8 5/8" set to 2796'.

Cmt'd w/ total of 1500 sxs.

PRODUCTION: 5 1/2", 17#/ft, set at 6430'. Cemented with 500 sxs.

<u>TUBING STRINGS</u>: 2 1/16*, 3.25#/ft, J-55, IJ tubing.

Short String: Blinebry; 1.5" seating nipple at 5898', 4' perf-sub latched into parallel tubing anchor at 5899'.

Long String: Tubb; Btm of 2 1/16" tbg at 6176', 5 1/2" Baker Lok-packer at 5974', 8'-2 3/8" N-80 sub Baker on-off tool w/ 1.43" profile at 5965' with x-over.

PRESENT COMPLETIONS:

Tubbi 6010-68', 6075-85', 6088-6127' & 6155-6193', 4 JSPF.

Blinebry: 5480-5515', 5530-60', 5580-5630', & 5645-75', 4 JSPF.
5690', 92', 97', 5701', 04', 06'.
12', 15', 66', 68', 70', 82', 87'
92', 99', 5801', 03', 05', 07',
09', 18', 20', 61', 63', 70', 72'
77' & 79', 1 JSPF.

OFFSET OPERATORS

WALTER LYNCH LEASE SECTION 1, T-22-S, R-37-E LEA COUNTY, NEW MEXICO

American Exploration Company 1331 Lamar, Suite 900 Houston, TX 77010-3088

Chevron USA, Inc. PO Box 1150 Midland, TX 79702

Cross Timbers Oil Company 810 Houston, Ste 2000 Ft. Worth, Texas 76102-6298

Exxon Company USA PO Box 1600 Midland, TX 79702

John H. Hendrix Corp. 223 W. Wall, Suite 525 Midland, TX 79701-4519

OXY USA, Inc. PO Box 50250 Midland, TX 79705

Texaco Exploration and Production Company, Inc. PO Box 3109 Midland, TX 79702 June 13, 1994

Offset Operators Walter Lynch Well No. 4 (mailing list attached)

RE: REQUEST FOR EXCEPTION TO RULE 303-A
DOWNHOLE COMMINGLING
MARATHON OIL COMPANY
WALTER LYNCH WELL NO. 4
UNIT D, 660' FNL & 585' FWL
SECTION 1, T-22-S, R-37-E
TUBB AND BLINEDRY FORMATIONS
DRINKARD FIELD
LEA COUNTY, NEW MEXICO

Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation Division to downhole commingle the above captioned well. Enclosed, please find a copy of the application as outlined in Rule 303-A.

If you are in agreement and waive all objections to the downhole commingling, please sign below and return one copy to Marathon at the above address.

Sincerely,

T.A. Deines

Northwest Operations Production Superintendent

RDG:SPG/9479/kc Attachments

Agreed and accepted this	day of _	
1994 by		as representative of
		•

Submit 3 Copies to Appropriate
District Office

State of New Mexico E. gy, Minerals and Natural Resources Departm.

Form C-103 Revised 1-1-89

_ DATE _

DISTRICT I P.O. Box 1980, Hobbs, NM 88240		ATION DIVISION ox 2088	WELL API NO. 30-025-09949
DISTRICT II P.O. Drawer DD, Artesia, NM 88210		lexico 87504-2088	5. Indicate Type of Lease STATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410			6. State Oil & Gas Lease No.
(DO NOT USE THIS FORM FOR PI DIFFERENT RESI	TICES AND REPORTS OF ROPOSALS TO DRILL OR TO DERVOIR. USE "APPLICATION F C-101) FOR SUCH PROPOSAL	DEEPEN OR PLUG BACK TO A FOR PERMIT	7. Lease Name or Unit Agreement Name
1. Type of Well: OIL GAS WELL WELL	OTHER	Dual Gas Well	Walter Lynch
2 Name of Operator Marathon Oil Comp			8. Well No.
3. Address of Operator			9. Pool name or Wildcat
PO Box 2409 Ho	obbs, NM 88240		Blinebry/Tubb
Unit Letter D :660	Feet From The No.	rth Line and 585	Feet From The West Line
Section 1	Township 22S	Range 37E	NMPM Lea County
	10. Elevation (Show 3358)	whether DF, RKB, RT, GR, etc.)	
11. Check		icate Nature of Notice, R	Report, or Other Data
NOTICE OF IN	-	SUE	BSEQUENT REPORT OF
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
EMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLIN	G OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND C	EMENT JOB
OTHER: Downhole Comming	gling	OTHER:	
12. Describe Proposed or Completed Ope work) SEE RULE 1103.	rations (Clearly state all pertinent d	letails, and give pertinent dates, incli	uding estimated date of starting any proposed
formations of the 310 MCFD, and 2 If fluids loading up 332 MCFD by downlexpected to be 8	e Walter Lynch Well BWPD by rod pump. To the formation. Proposely and	No. 4. The Blinebr The Tubb currently we coduction of the Tub I rod pumping both z I 2 BWPD. This proj	of the Blinebry and Tubb ry currently produces 8 BOPD, rill not flow due to workover rib is expected to return to rones. Total production is ect will commence upon
	•		
I hereby certify that the information above is to	nue and complete to the best of my know		- 10 1001
SIGNATURE SIGNATURE	۲۲	Producti	on Engineer June 13, 1994 (505)
). Gaddis		TELEPHONE NO. 393-7106

_ TITLE -

APPROVED BY ---CONDITIONS OF APPROVAL, IF ANY:

TYPE OR PRINT NAME

(This space for State Use)

Rick D. Gaddis