

31145592 DHC 11/27/00

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 South First Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87401
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15, 2000

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION TYPE
Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
X Yes No

NOV - 6 2000

APPLICATION FOR DOWNHOLE COMMINGLING

CONOCO P.O. BOX 2197 HOUSTON, TX 77252
Operator Address
STATE COM 47 L 2 27N 8W SAN JUAN
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 005073 Property Code 003253 API No. 300452296100 Lease Type: Federal X State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	PICTURED CLIFFS South Blanco	CHACRA Hero	MESAVERDE
Pool Code	72439	82329	72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2252'-2296'	3222'-3232'	3944'-4765'
Method of Production (Flowing or Artificial Lift)	FLOWING	EXPECTED TO FLOW	FLOWING
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	INITIAL 1000PSI CURRENT 100-200PSI FRAC PRESSURE**	INITIAL 1160 PSI	INITIAL 1300 PSI CURRENT 200-300 PSI
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1256		1256
Producing, Shut-In or New Zone	PRODUCING	CURRENTLY SHUT-IN, ISOLATED BY PACKERS, WILL BE TRIMINGLED WITH PC AND MV	PRODUCING
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: JUNE 2000 Rates: 29 MCFD	Date: Rates:	Date: JUNE 2000 Rates: 105 MCFD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas % % *SEE ATTACHED ALLOCATION SHEDULE	Oil Gas % % ALLOCATE BY SUBTRACTION METHOD	Oil Gas % % *SEE ATTACHED ALLOCATION SCHEDULE

ADDITIONAL DATA

**Measured frac gradient in San Juan 28-7 #155 was .57 psi/ft(1737 psi at mid perf). No. 155 is approx. 6-7 miles from State Com 47.
Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes No x
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No x
Are all produced fluids from all commingled zones compatible with each other? Yes x No
Will commingling decrease the value of production? Yes No x
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes No x
NMOCD Reference Case No. applicable to this well: R-10476-B

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 working, royalty and overriding royalty interests for uncommon interest cases.
Any additional statements, data or documents required to support commingling.

281-293-1613

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE TITLE Regulatory Analyst DATE 11/03/2000

TYPE OR PRINT NAME Nigel Ramberansingh TELEPHONE NO. (281)293-3270

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
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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
Instruction 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 Number 30-045-22961	² Pool Code 82329	³ Pool Name CHACRA
⁴ Property Code 003253	⁵ Property Name STATE COM	⁶ Well Number 47
⁷ OGRID No. 005073	⁸ Operator Name CONOCO	⁹ Elevation 5951 GR

¹⁰ Surface Location

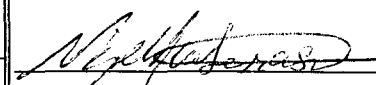
UL or lot no. L	Section 2	Township 27N	Range 8W	Lot Idn	Feet from the 1760'	North/South line SOUTH	Feet from the 835'	East/West line WEST	County SAN JUAN
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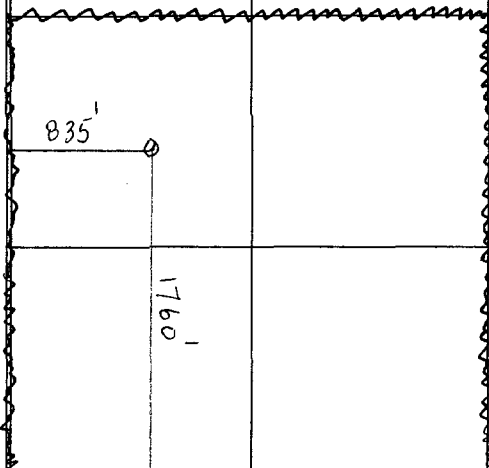
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16					¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>  _____ Signature Printed Name NIGEL RAMBERANSINGH _____ Title REGULATORY ANALYST _____ Date 10/20/2000
					¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under</i> _____ Date of Survey _____ Signature and Seal of Professional Surveyer _____ Certificate Number



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¹ API Number 30-045-22961		² Pool Code 72319		³ Pool Name MESAVERDE	
⁴ Property Code 003253		⁵ Property Name STATE COM			⁶ Well Number 47
⁷ OGRID No. 005073		⁸ Operator Name CONOCO			⁹ Elevation 5951 GR

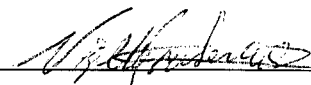
¹⁰ Surface Location

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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres		¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.				

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	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under</i></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyer</p>			
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¹ API Number 30-045-22961		² Pool Code 72439		³ Pool Name PICTURED CLIFFS	
⁴ Property Code 003253		⁵ Property Name STATE COM			⁶ Well Number 47
⁷ OGRID No. 005073		⁸ Operator Name CONOCO			⁹ Elevation 5951 GR

¹⁰ Surface Location

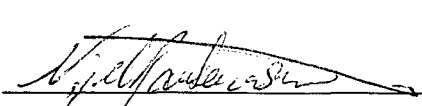
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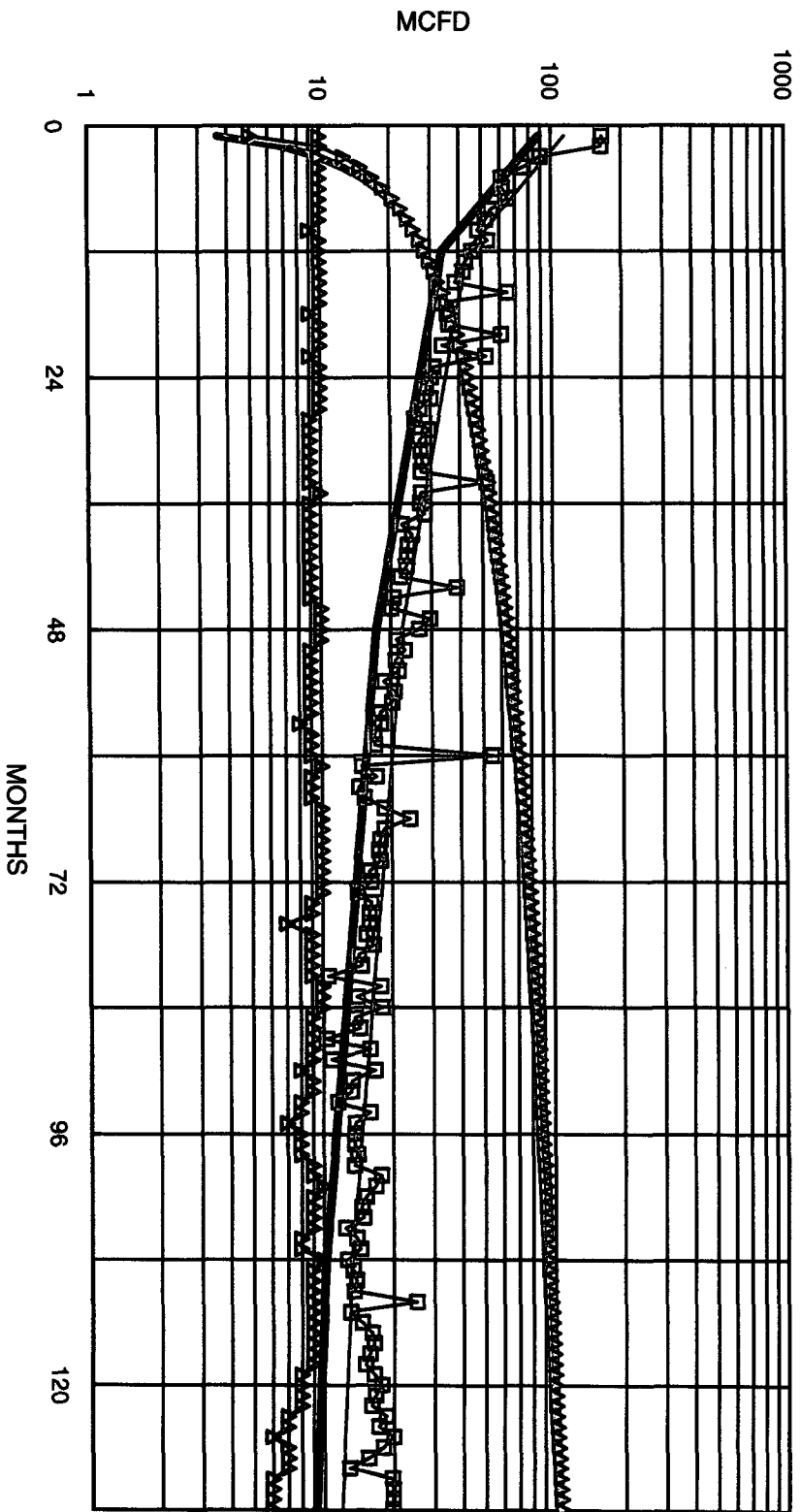
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	Printed Name NIGEL RAMBERANSINGH	
	Title REGULATORY ANALYST	
	Date 10/20/2000	
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Date of Survey		
Signature and Seal of Professional Surveyor		
Certificate Number		

**NORMALIZED CHACRA PRODUCTION - STATE COM 47 AREA
OLDEST PRODUCER FP DATE 07/72; 10 CH WELLS IN 27N-8W AREA**



—■— NORMALIZED MCFD —▲— NORM CUM MMCF —●— RISKED MCFD —◆— WELLS ON PRODUCTION
— FIT CUM MMCF

NORMALIZED AVG:

118 MMCF EUR
321 MMCF/25.4YRS
10 MCFD E.L.
0.002088 bbl/mcf oil yield

RISKED AVG:

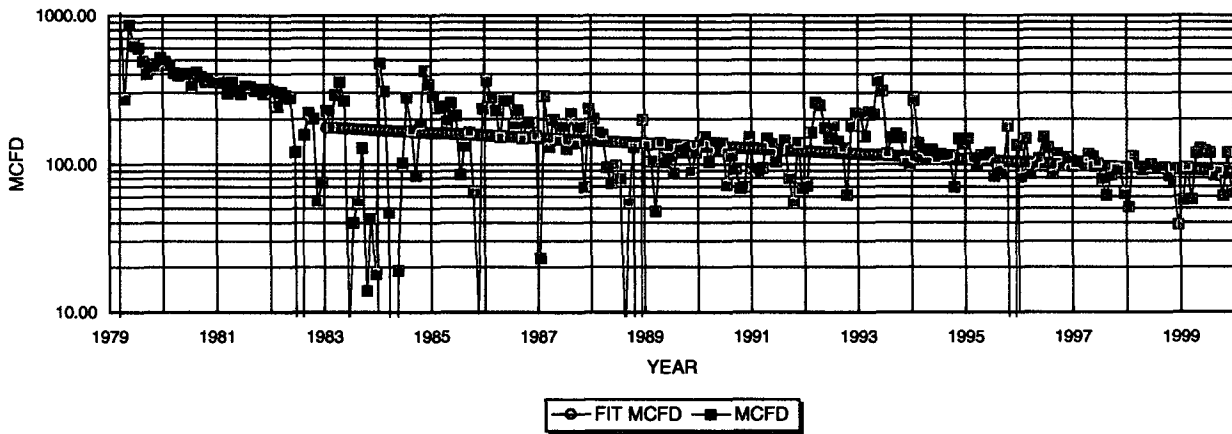
125 MCFD IP
65% DECLINE, 1ST 12 MONTHS
20% DECLINE, NEXT 36 MONTHS
5% FINAL DECLINE

25% RISK

75 MMCF EUR
210 MMCF/20.5 YRS
10 MCFD E.L.
0.002088 bbl/mcf oil yield

94 MCFD IP
65% DECLINE, 1ST 12 MONTHS
20% DECLINE, NEXT 36 MONTHS
5% FINAL DECLINE

**STATE COM 47 MESAVERDE PRODUCTION
SECTION 2L-27N-08W**



MESAVERDE HISTORICAL DATA:

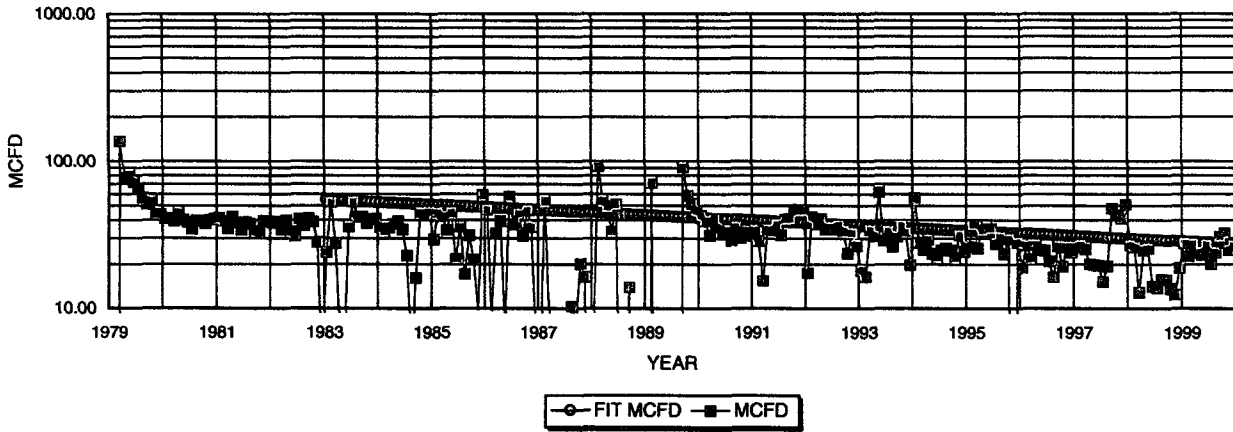
1ST PROD: 02/79
OIL CUM: 5.52 MBO
GAS CUM: 1347.6 MMCF
OIL YIELD: 0.0041 BBL/MCF

MESAVERDE

PROJECTED DATA:

01/00 Qi: 105 MCFD
DECLINE RATE: 4.0% (EXPONENTIAL)
API # 30-045-22961

**STATE COM 47 PICTURED CLIFFS PRODUCTION
SECTION 2L-27N-08W**



PICTURED CLIFFS HISTORICAL DATA:

1ST PROD: 02/79
OIL CUM: 0.0 MBO
GAS CUM: 238.7 MMCF
OIL YIELD: 0.0000 BBL/MCF

PICTURED CLIFFS

PROJECTED DATA:

01/00 Qi: 27 MCFD
DECLINE RATE: 4.0% (EXPONENTIAL)
API # 30-045-22961

YEAR	Mesaverde Allocation		Pictured Cliffs Allocation		Total MV + PC Allocation	
	MID-YEAR AVG. MCFD	MID-YEAR AVG. BOPD	MID-YEAR AVG. MCFD	MID-YEAR AVG. BOPD	MID-YEAR AVG. MCFD	MID-YEAR AVG. BOPD
2000	103	0.4	27	0.0	130	0.4
2001	99	0.4	26	0.0	125	0.4
2002	95	0.4	25	0.0	120	0.4
2003	91	0.4	24	0.0	115	0.4
2004	88	0.4	23	0.0	111	0.4
2005	84	0.3	22	0.0	106	0.3
2006	81	0.3	21	0.0	102	0.3
2007	78	0.3	20	0.0	98	0.3
2008	75	0.3	19	0.0	94	0.3
2009	72	0.3	19	0.0	90	0.3
2010	69	0.3	18	0.0	87	0.3
2011	66	0.3	17	0.0	83	0.3
2012	63	0.3	16	0.0	80	0.3
2013	61	0.2	16	0.0	77	0.2
2014	58	0.2	15	0.0	74	0.2
2015	56	0.2	15	0.0	71	0.2
2016	54	0.2	14	0.0	68	0.2
2017	52	0.2	13	0.0	65	0.2
2018	50	0.2	13	0.0	62	0.2
2019	48	0.2	12	0.0	60	0.2
2020	46	0.2	12	0.0	58	0.2
2021	44	0.2	11	0.0	55	0.2
2022	42	0.2	11	0.0	53	0.2
2023	40	0.2	11	0.0	51	0.2
2024	39	0.2	10	0.0	49	0.2
2025	37	0.2	10	0.0	47	0.2
2026	36	0.1	9	0.0	45	0.1
2027	34	0.1	9	0.0	43	0.1
2028	33	0.1	9	0.0	42	0.1
2029	32	0.1	8	0.0	40	0.1
2030	30	0.1	8	0.0	38	0.1
2031	29	0.1	8	0.0	37	0.1
2032	28	0.1	7	0.0	35	0.1
2033	27	0.1	7	0.0	34	0.1
2034	26	0.1	7	0.0	33	0.1
2035	25	0.1	6	0.0	31	0.1
2036	24	0.1	6	0.0	30	0.1
2037	23	0.1	6	0.0	29	0.1
2038	22	0.1	6	0.0	28	0.1
2039	21	0.1	5	0.0	27	0.1
2040	20	0.1	5	0.0	25	0.1
2041	19	0.1	5	0.0	24	0.1

**State Com #47
Trimingle Production
PC, Chacra, & MV Triple Completion
September 8, 2000**

AFE#

API #300452296100 **Location:** Sec 2, T-27N, R-8W, 1760' FSL, 835' FWL

Objective

Optimize production by downhole trimingling Pictured Cliffs, Chacra, and Mesa Verde production.

WELL DATA

PBTD @ 4808', TD @ 4830', Completion 3/21/78

Surface Casing: 8.625", 20#, 5 jts.set @ 218', cement circ.

Production Casing: 5.5", 14#, K-55, 116 joints set @ 4817', (yield 4270 psi) TOC @ 650' by CBL.

Tubing – Long String: 2.063", 3.25#, landed @ 4583', w/Pkrs. –5.5" Baker 45 B Model J Snap set @ 2368', & 5.5" Baker Lok-set w/on/off tool @ 3270', SN 1 jt. from bottom @ 4552'.

Tubing - Short String: 1.66", 2.4#, landed @ 2372', 1.09" ID SN 6' from bottom.

Perforations: Pictured Cliffs: 2252' – 2296',

Chacra: 3222' – 3232',

Mesaverde: (Cliff House) 3944' – 3960',
 (Menefee) 4266' – 4288',
 (Point Lookout) 4486' – 4765'

Wellview Schematic attached.

PROCEDURE

- 1) Move in workover rig, hold safety meeting, note prevailing wind direction at location, designate muster point, review procedure, identify potential hazards, isolate lines and facilities, blow down lines, lock out tag out, spot equipment, rig up, WORK SAFELY!
- 2) Kill tubing with minimum amount of 1% KCl, POOH 1.66" OD short string laying down.
- 3) Kill tubing with minimum amount of 1% KCl, pull up to release Baker Snap set packer at 2368', pull up some more and rotate to right to release Baker Lok-set packer at 3270', POOH 2-1/16" Long String.
- 4) If fill prevents pulling both packers at same time free point and cut wash over to packer and release and pull. NOTE: Do not cut tubing below bottom Lok-Set packer unless absolutely sure pipe is stuck and packer has movement. Call Houston Engineering first.

**State Com #47
Trimingle Production
PC, Chacra, & MV Triple Completion
September 8, 2000**

API #300452296100 Location: Sec 2, T-27N, R-8W, 1760' FSL, 835' FWL

PROCEDURE (Continued)

- 5) RU wireline and set RBP below Chacra @ 3300', POOH wireline and RD. RIH with tubing and test packer, set packer below PC perms @ 2350' with tail pipe down to 3232', swab in and test.
Note: It is reported to make water only but we feel it only died due to completion configuration.
- 6) If test shows commercial gas, POOH, Pull RBP and trimingle production, if Chacra produces only water, squeeze with cement, pull RBP and commingle PC and MV production.
- 7) RIH with mule shoe and SN on bottom of 2.375" production tubing and tag for fill, clean out to PBTD @ 4808' if necessary. Land tubing at 4,598'
- 8) RIH gauge ring on sand line and tag seating nipple, trip plunger, POOH. RDMO
- 9) Swab well in if necessary. Notify operator to re-install plunger equipment and put back on production.

San Juan East Team - Prepared by Dennis Wilson
Cc: Central Records, and 3 Copies to Farmington Project Leads.

CONOCO INC.
P.O. BOX 2197 DU 3082
HOUSTON, TX 77252

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
David Catanach	Debbie Marberry
COMPANY:	DATE:
NMOCD	01/25/01
FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER:
505 476 3471	2
PHONE NUMBER:	SENDER'S REFERENCE NUMBER:
	281 293-1005
RE:	YOUR REFERENCE NUMBER:
2	

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

David:

Per your conversation with Yolanda I am forwarding our notifications to you on the State Com #47. If you need additional information please give me a call.

Thanks for your time.

Debbie

[CLICK HERE AND TYPE RETURN ADDRESS]

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 Colorado Springs, CO 80908

PS Form 3800, February 2000

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 Oil and Gas Company
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 City, St.
 Dallas, Texas 75284-0656

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 Colorado Springs, CO 80918-4401

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 City, State
 Elk Grove, CA 95758-9801

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