

August 29, 1990

New Mexico Oil Conservation Division
Attn: David Catanach
P.O. Box 2088
Santa Fe, New Mexico 87504-2088



Gentlemen:

This letter is to serve as the application to surface commingle three gas wells located in the Comanche Spring (Pre-Permian) Pool Chaves Co., New Mexico. The primary reason in asking for the exception is that BHP Petroleum (Company) Inc. had to construct a natural gas gathering system in order to market the gas. The exception is requested for the following wells:

*Ervin Ranch State #1
Yates 36 State #1
Conoco 8 Federal #1*

In connection with this request please find the following enclosed:

- 1) Form C-105 for each well showing that they are completed from the same common source of supply.*
- 2) A land plat showing the location of the wells.*
- 3) Pipeline drawings numbered BHP 736D-1000, BHP 736D-7003, and BHP 736D-7002 showing the gathering system and location of meters.*
- 4) Site Facility diagram for the Conoco 8 Federal #1 showing the detailed production facility. (The Ervin Ranch State #1 and Yates 36 State #1 have identical facilities).*
- 5) Copy of the BLM approval for commingling these wells.*
- 6) New Mexico State Land Office approval for commingling. (please note BHP has changed all its gas contracts to show the wellsite meters as point of sale meters)*
- 7) Copies of letters along with certified mail receipts sent to the other working interest owners notifying them of this application. BHP is also the purchaser of this gas.*

If you have any questions or require additional information, please contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Scott Sanders".

Scott Sanders

cc: Mike Williams
OCD District II
P.O. Drawer DD
Artesia, NM. 88210

SAMEDAN OIL CORPORATION

10 DESTA DRIVE
SUITE 240 EAST
MIDLAND, TEXAS 79705
(915) 684-8491 OIL CONSERVATION DIVISION
RECEIVED

September 5, 1990 90 SEP 10 AM 9 11

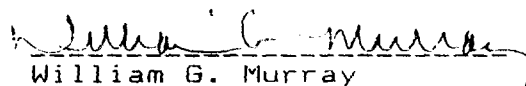
BHP Petroleum (Americas) Inc.
5847 San Felipe, Suite 3600
Houston, Texas 77057

Attention: Mr. Scott Sanders

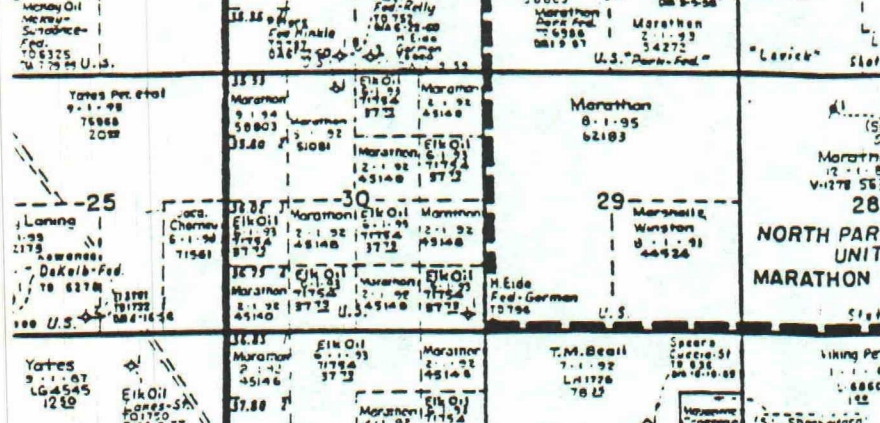
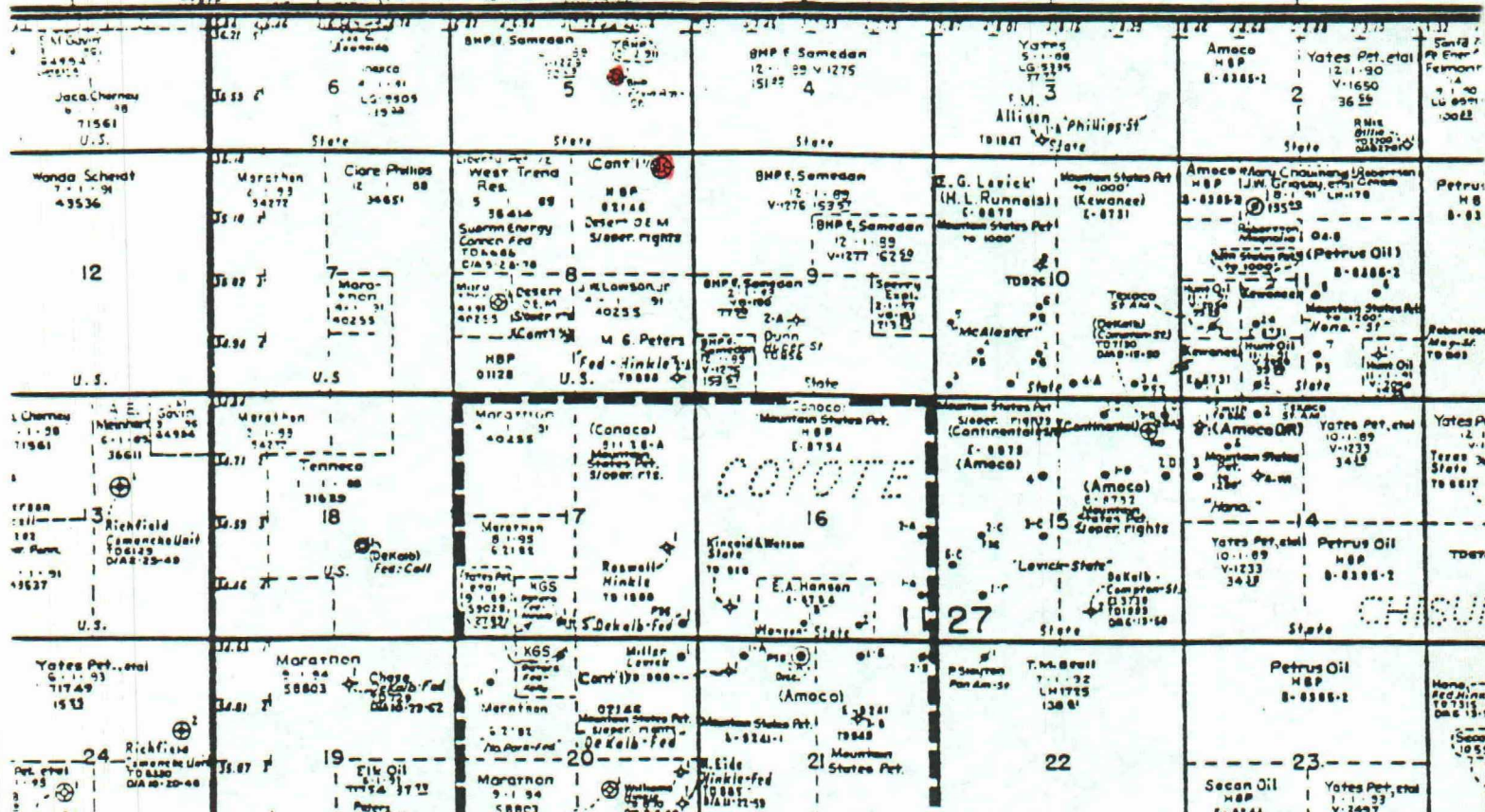
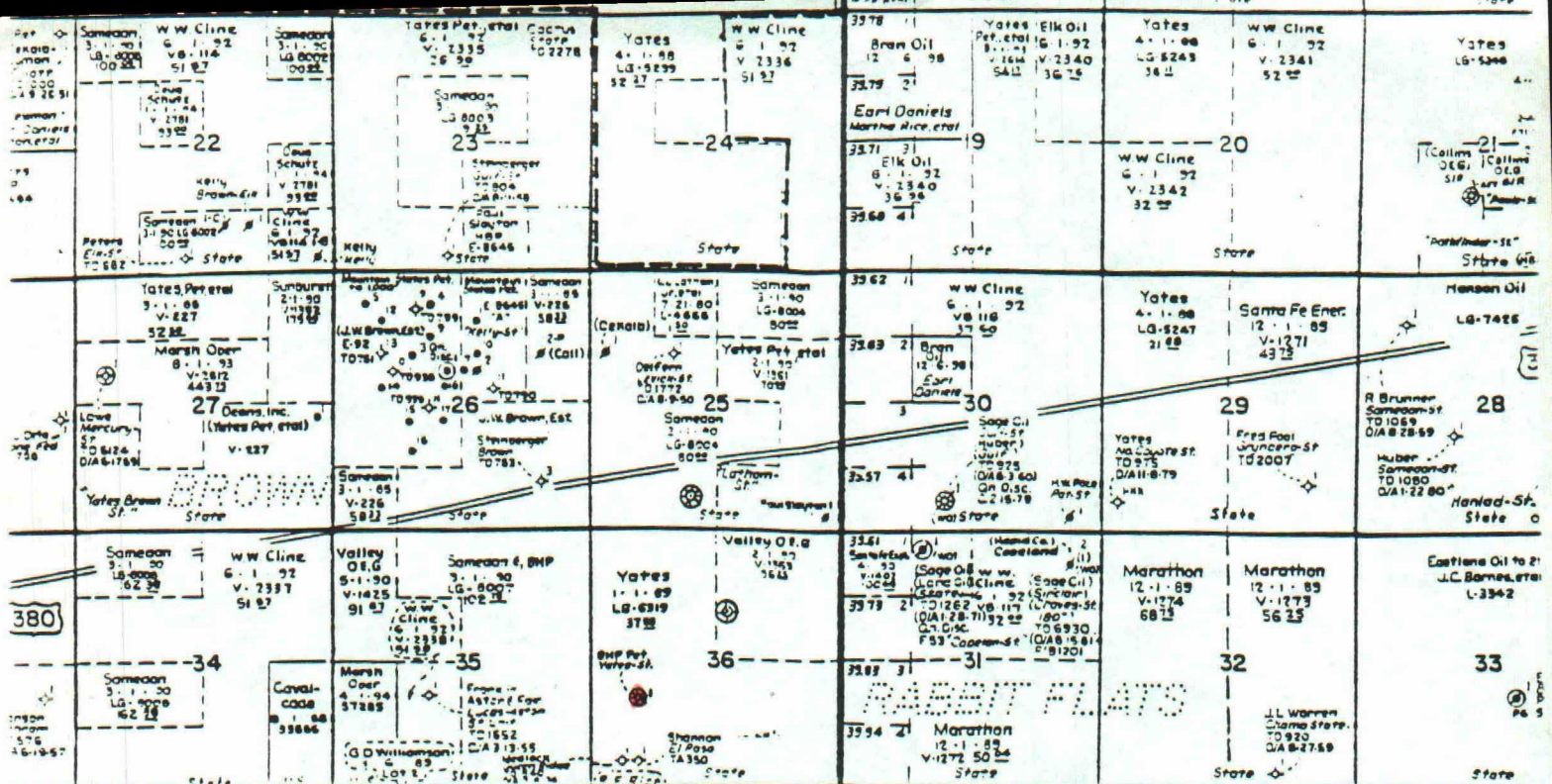
Sir;

Samedan Oil Corporation has received your notification letter indicating BHP's desire for exception to Rule 309-A (surface commingling) for production operations of the Ervin Ranch #1, Yates 36 State #1 and Conoco 8 Federal #1 in the Comanche Spring (Pre-Permian) Pool, Chaves County, New Mexico.

Samedan Oil Corporation hereby waives any objection to the granting of the above exception by the New Mexico Oil & Gas Conservation Commission.


William G. Murray
Division Production Supt.

WGM/efc
xc: NMOGCC/Sante Fe



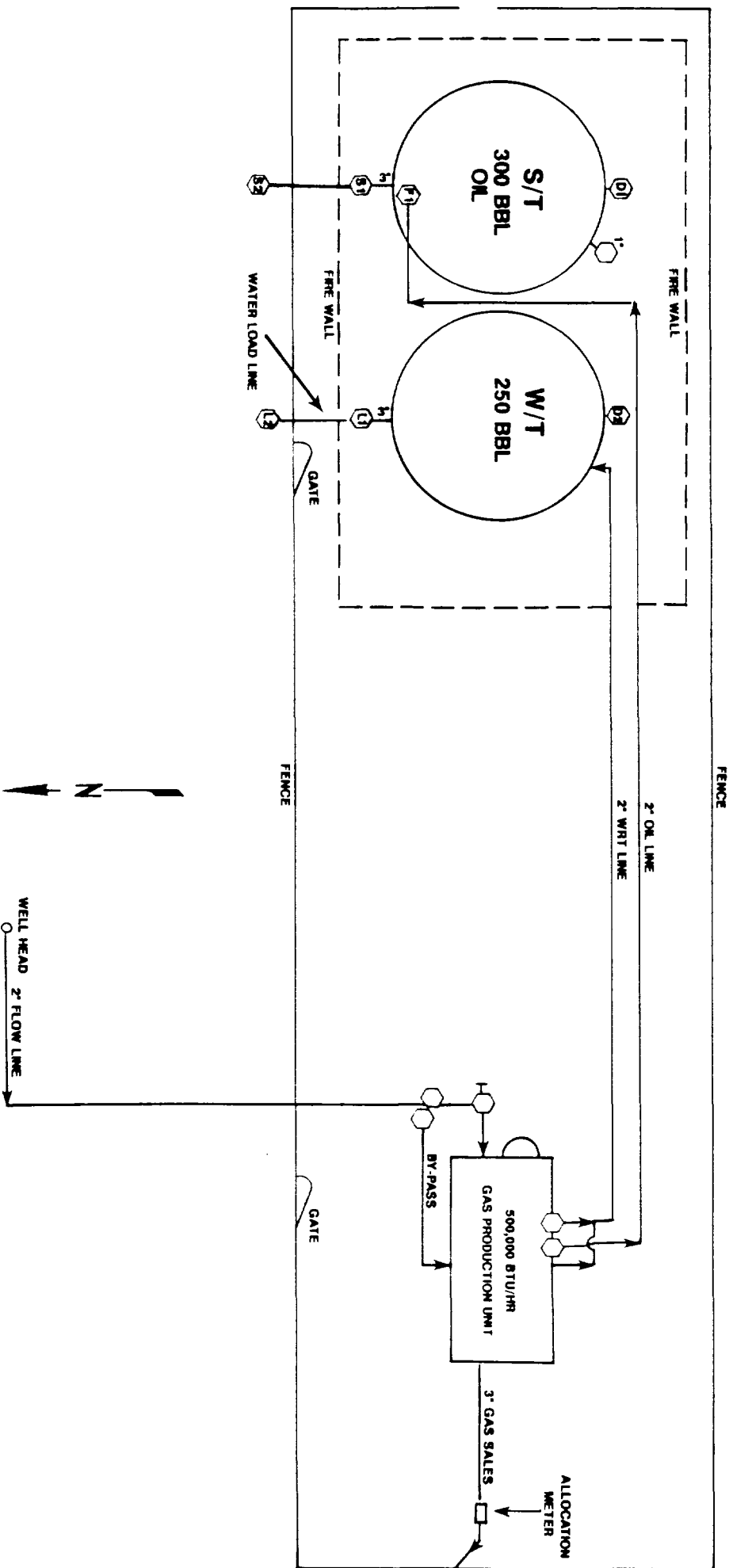


LAND PLAT

COMANCHE SPRING FIELD

Chaves County, New Mexico

1" to 4000'



	VALVE#	VALVE POSITION	SEALED
PRODUCTION PHASE	D1	Closed	Yes
	S1	Closed	Yes
	S2	Closed	No
SALES PHASE	F1	Open	No
	D1	Closed	Yes
	F1	Open	No
SALES PHASE	S1	Open	No
	S2	Open	No

Site Security Plan on file at
 BHP Petroleum (Americas) Inc.
 6 DESTA DRIVE, SUITE 3200
 MIDLAND, TX. 79701
 (915) 688-1800

BHP Petroleum (Americas) Inc.
 Conoco 8 Fed # 1
 330 FNL 990 FEL
 Sec. 8 T.11S. R.27 E
 CHAVES COUNTY, N.M.
 LEASE # NM 02146

SITE FACILITY DIAGRAM

5847 San Felipe Suite 3600
Houston, Texas 77057
Telephone: (713) 780-5000
Fax (713) 780-5273
Telex 9108813603

Return Receipt Requested
P 295 414 215



August 29, 1990

Yates Petroleum Corporation
105 S. Fourth Street
Atresia, NM.88210

Gentlemen:

BHP Petroleum (Company) Inc. is making application for exception to Rule 309-A (surface commingling) in connection with the Ervin Ranch State #1, Yates 36 State #1, and Conoco 8 Federal #1, Comanche Spring (Pre-Permian) Pool, Chaves Co. NM. This is necessary due to the need for our jointly owned gas gathering system. The New Mexico Oil Conservation Division requires that we notify you of this and if you have any objections, please contact their office within 20 days after receipt of this letter. If you have any questions, please contact the undersigned.

Sincerely,


Scott Sanders

5847 San Felipe Suite 3600
Houston, Texas 77057
Telephone: (713) 780-5000
Fax (713) 780-5273
Telex 9108813603

Return Receipt Requested
P 295 414 214



August 29, 1990

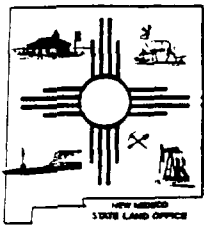
Samedan Oil Corporation
Attn: Bill Murray
10 Desta Drive Suite 420 East
Midland, Texas 79705

Gentlemen:

BHP Petroleum (Company) Inc. is making application for exception to Rule 309-A (surface commingling) in connection with the Ervin Ranch State #1, Yates 36 State #1, and Conoco 8 Federal #1, Comanche Spring (Pre-Permian) Pool, Chaves Co. NM. This is necessary due to the need for our jointly owned gas gathering system. The New Mexico Oil Conservation Division requires that we notify you of this and if you have any objections, please contact their office within 20 days after receipt of this letter. If you have any questions, please contact the undersigned.

Sincerely,


Scott Sanders



State of New Mexico
Commissioner of Public Lands

W. R. Humphries
COMMISSIONER

June 12, 1990

Advisory Board

George Clark
Chairman

Kristin Conniff
Vice Chairman

Melvin Cordova

Joe Kelly

Robert Portillos

Nancy Lynch Vigil

Rex Wilson

BHP Petroleum Company Inc.
5847 San Felipe, Suite 3600
Houston, Texas 77057

RE: Request for Approval to Surface Commingle
State Leases V-1229 and LG-6319
Lea County, New Mexico

Gentlemen.

We received your letter dated May 30, 1990 wherein you request approval to surface commingle the production from two wells located in Section 5, T11S, R27E and Section 36, T10S, R26E, as well as a well located upon federal lands in Section 8, T11S, R27E.

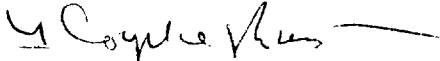
The Commissioner of Public Lands hereby grants approval to commingle the production from the two wells located upon state trust lands, but in no case may the production from the well located upon federal lands be commingled with state production before the point of sale. Please be advised that any deviation from the approved operations will be grounds to rescind our approval. Our approval is subject to like approval by the Oil Conservation Division.

We received your filing fee in the amount of thirty dollars (\$30.00) for the commingle approval.

If you have any questions, please contact this office at (505) 827-5744.

Very truly yours,

W.R. HUMPHRIES,
COMMISSIONER OF PUBLIC LANDS

BY: 
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5746

OPERATOR'S COPY



RECEIVED
MAY 9 1990
REGULATORY DEPT.

Americas
5847 San Felipe Suite 3600
Houston, Texas 77057
Telephone: (713) 780-5000
Fax (713) 780-5273
Telex 9108813603



Bureau of Land Management Roswell Resource Area
P. O. Drawer 1857
Roswell, New Mexico 88202

Attention: Mr. Pete Chester

Re: Commingle Approval Request
Conoco #8 Fed. #1
NE NE Sec. 8, T11S, R27E
Chaves County, New Mexico
Lease #NM02146

Dear Mr. Chester:

The above referenced well was completed on 5/25/89. It was subsequently shut in waiting on a pipeline. First delivery occurred on 2/14/90.

Please accept this as BHP Petroleum's formal request for approval to commingle the gas produced from the subject well with two state wells in the vicinity.

The following information is submitted in support of our request:

1) The two state wells that the approval to commingle the gas with are:

a. Ervin Ranch State #1 - operated by BHP P(A)
1650' FSL & 1650' FEL, Section 5, T11S, R27E
Chaves County, N.M.

b. Yates #36 State #1 - operated by BHP P(A)
1980' FSL & 990' FWL, Section 36, T10S, R26E
Chaves County, N.M.

2) The gas purchaser, Transwestern Pipeline Company would not construct the pipeline to hook up any of these wells involved. BHP Petroleum constructed the pipeline from the Conoco #8 State #1 to the tie in point with Transwestern's line in the NE SE Section 28, T10S, R27E. The tie in point is also the location of the sales meter.

3) The subject well does have an allocation meter in place and in operation. The production from the Conoco #8 State #1 well will be reported on Form 3160-6 for February 1990 and for all future months. The current meter run does not have a

April 6, 1990
Page 2

continuous temperature recorder installed. Onshore Order No. 5 has a provision whereby a variance can be approved eliminating the requirement of a continuous temperature recorder for wells producing 200-500 MCFGPD. The subject well produces approximately 300 MCFGPD. Thus we request a variance from the requirement for a continuous temperature recorder. If our request is denied, a continuous temperature recorder will be installed immediately.

The two state wells also have allocation meter runs installed and in operation.

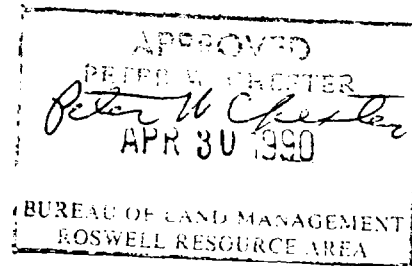
BHP regrets that commingling occurred prior to authorization and intends to do everything in its power to see that it doesn't happen again.

Please don't hesitate to contact me if you have any questions or need any additional information.

Sincerely,

Chuck Williams

Chuck Williams
Administrator, Field Services
Inland Business Unit



CW:nj

cc: Jesse Roberts
Well File

Form 3160-4
July 1989)
(Formerly 9-330)

OPERATOR'S COPY

CONTACT RECEIVING
OFFICE FOR RECORDS
OF COPIES REQUIRED

BLM Roswell District
Modified Form No.
NM60-3160-3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other in-
structions on
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

BHP Petroleum Company Inc.

3. ADDRESS OF OPERATOR

6 Desta Drive Suite 3200 Midland TX 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 330' FNL, 990' FEL Sec 8, T-11-S, R-27-E

At top prod. interval reported below

At total depth

9a. API Well No.

30-005-62674

14. PERMIT NO.

N/A

DATE RECEIVED

2/28/89

12. COUNTY OR PARISH

Chaves

13. STATE

New Mexico

15. DATE SPUDDED

3/20/89

16. DATE T.D. REACHED

4/9/89

17. DATE COMPL. (Ready to prod.)

5/19/89

18. ELEVATIONS (OF RKR, RT, GR, ETC.)*

3682.7' GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6625

21. PLUG. BACK T.D., MD & TVD

6368

22. IF MULTIPLE COMPLET.

HOW MANY*

23. INTERVALS

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)

6116- 6150

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Neutron/Density, Dual Laterolog

27. WAS WELL CORED

No

28. CASING RECORD (Report on all casing)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	AMOUNT PULLED
8 5/8	24#	1202	12 1/4	700 SX
5 1/2	15.5#	6624 KB	7 7/8	1650 SX 2150

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	6575	6008

31. PERFORATION RECORD (Interval, size and number)

6464-82(42 holes) Ellenburger abandoned
6116-50 (42 holes) Montoya

32. ACID. SHOT. FRACTURE. CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6464-82'	A/2000 gal MOD 202
	A/16000 gal 20% w/1000 SCF/BBLN ₂
6116-50'	A/2700 gal MOD 202
	Frac/ w/15M gal, 10K # sand

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
5/11/89		Flowing					SI WOPL	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
5/25/89	24	18/64	→	0	560	75	—	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
500	0	→	0	560	75	—		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

vented

TEST WITNESSED BY
Cecil Patterson

35. LIST OF ATTACHMENTS

Multipoint & One-Point BP test, Deviation report, well test interpretation report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Petroleum Engineer

DATE 7/18/89

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 15 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.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
DST #1 (San Andres)	1680	1790	No gas/fluid to surf. Rec 1.32 bbl mud	Queen	580	580
				San Andres	1129	1129
				Glorieta	2385	2385
				Tubb	3790	3790
				Abo	4561	4561
				Cisco	5816	5816
				Pem Clastics	5942	5942
				Montoya	6112	6112
				Ellenburger	6350	6350
DST #2 (Montoya)	6110	6160	TOP			
			IHP	748#		
			FP	0-118#		
			SI	635#		
			FH	748#		
			Temp	115°F		
			IHP			
			10" PF			
			60" ISI			
			60" FF			
180" FSI						
FH						
BHT						
			Btm Rec.			
			812#			
			72-185#			
			738#			
			812#			
			115°F			
			3206#			
			24# (plugging)			
			1508#			
			24-161#(no plug)			
			2410#			
			3206#			
			121°F			

CONFIDENTIAL

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 3 copies

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

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 310 Old Santa Fe Trail, Room 206 Santa Fe, New Mexico 87503

Form C-10
Revised 1-1

WELL API NO.

30-005-62649

5. Indicate Type of Lease

STATE ☒

6. State Oil & Gas Lease No.

LG 6319

7. Lease Name or Unit Agreement Name

Yates 36 State

8. Well No.

1

9. Pool Name or Wildcat
Wildcat - ELLENBUR
Montoya

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

b. Type of Completion:

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DRY RELIEF ☐ OTHER ☐

JAN 26 '89

2. Name of Operator

BHP Petroleum Company, Inc. ✓

O. C. D.

ARTESIA, OFFICE

3. Address of Operator

6 Desta Drive Suite 3200 Midland, TX 79705-5510

4. Well Location

Unit Letter L: 1980 Feet From The South Line and 990 Feet From The West

Section

36

Township

10S

Range

26E

NMPM

Chaves

10. Date Spudded

12/14/88

11. Date T.D. Reached

12/31/88

12. Date Compl. (Ready to Prod.)

1/20/89

13. Elevations (DFA, AKS, RT, GR, etc.)

3718 KB

14. Elev. Casing

15. Total Depth

6675

16. Plug Back T.D.

6628

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools
0-6675

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

6142-6176' Montoya

20. Was Directional Survey Made?

No

21. Type Electric and Other Logs Run

FDC-CNL, DIL, Dipmeter, LSS

22. Was Well Cored?

Yes

23.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT
8 5/8"	24.0#	1200	12 1/4"	700 sx	None
5 1/2"	15.5#	6676	7 7/8"	630 sx	None
DV tool		2376		650 sx	

24.

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25.

TUBING RECORD

SIZE	DEPTH SET	PACK
2 7/8"	5908'	5907'

26. Perforation record (interval, size, and number)

6158-6176' 4 SPF

6142-6154' 4 SPF

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE

DEPTH INTERVAL

AMOUNT AND KIND MATERIAL U

6142-6176'

3000 gals 15% HCL

28.

PRODUCTION

Date First Production

1/13/89

Production Method (Flowing, gas lift, pumping - Size and type pump)

Flowing 20/64" ck

Well Status (Prod or Shut-in)

Shut-in WOPL

Date of Test

1/17/89

Hours Tested

12

Choke Size

20/64"

Prod'n For Test Period

Oil - Bbl

17

Gas - MCF

1050

Water - Bbl

8

Gas - Cu

61765

Flow Tubing Press.

1840

Casing Pressure

0

Calculated 24-Hour Rate

Oil - Bbl

34

Gas - MCF

2100

Water - Bbl

16

Oil Gravity - API - (Corr.)

55

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

Test Witnessed By

Cecil Patterson

30. List Attachments

C103; C104; C122, C102; Electric logs, deviation survey

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

Handwritten Signature

Printed

Name Hal Crabbs III

Date Feb. 1989

Page 1 of 1

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all specific tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____	T. Canyon _____
T. Spt _____	T. Strawn _____
B. Salt _____	T. Atoka _____
T. Yates _____	T. Miss _____ 6086
T. 7 Rivers _____	T. Devonian _____
T. Queen _____	T. Silurian _____
T. Grayburg _____	T. Montoya _____ 6132
T. San Andres _____ 1130	T. Simpson _____
T. Glorieta _____ 2382	T. McKee _____
T. Paddock _____	T. Ellenburger _____
T. Blinbry _____	T. Gr. Wash _____
T. Tubb _____ 3804	T. Delaware Sand _____
T. Drinkard _____	T. Bone Springs _____
T. Abo _____ 4578	T. _____
T. Wolfcamp _____ 5385	T. _____
T. Penn _____	T. _____
T. Cisco (Bough C) _____ 5868	T. _____

Northwestern New Mexico

T. Ojo Alamo _____	T. Penn. "B" _____
T. Kirland-Fruitland _____	T. Penn. "C" _____
T. Pictured Cliffs _____	T. Penn. "D" _____
T. Cliff House _____	T. Leadville _____
T. Menefee _____	T. Madison _____
T. Point Lookout _____	T. Elbert _____
T. Mancos _____	T. McCracken _____
T. Gallup _____	T. Ignacio Otzte _____
Base Greenhorn _____	T. Granite _____
T. Dakota _____	T. _____
T. Morrison _____	T. _____
T. Todilto _____	T. _____
T. Entrada _____	T. _____
T. Wingate _____	T. _____
T. Chinle _____	T. _____
T. Permian _____	T. _____
T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
 No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0'	2491'		anhydrite, salt, lm				
2491'	3544'		lm, dolo, sand				
3544'	4800'		lm, dolo				
4800'	5045'		dolo, sh				
5045'	5676'		shale				
5676'	5945'		sh, lime				
5945'	6173'		sh, lm, dolo				
6173'	6573'		dolo				
6573'	6684'		dolo, cht				

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

Form C-105
Revised 11-1-88

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.
V-1229

1a. TYPE OF WELL
OIL ☐ GAS ☒ DRY ☐ OTHER _____

b. TYPE OF COMPLETION
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER _____

7. Unit Agreement Name
NA

8. Farm or Lease Name
Ervin Ranch State

9. Well No. 1 Com

10. Field and Pool, or Wildcat
Wildcat

2. Name of Operator
BHP Petroleum Company Inc.

3. Address of Operator
6 Desta Drive Suite 3200 Midland, Texas 79705-5510

4. Location of Well

UNIT LETTER G LOCATED 1650 FEET FROM THE South LINE AND 1650 FEET FROM THE East LINE OF SEC. 5 TWP. 11-S RGE. 27-E

12. County
Chaves

15. Date Spudded 10/21/88 16. Date T.D. Reached 11/7/88 17. Date Compl. (Ready to Prod.) 12/5/88 18. Elevations (DT, RKB, RT, GR, etc.) 3697.4 GR 19. Elev. Casinghead

20. Total Depth 6564' 21. Plug Back T.D. 6510' 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools Cable Tools X

24. Producing Interval(s), of this completion - Top, Bottom, Name
6048-6172' - Ordovician

25. Was Directional Survey Made No

26. Type Electric and Other Logs Run
DLL, CNL/LDT, BHC, CBL, Dipmeter

27. Was Well Cored No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	1141'	12 1/4"	600 sx (circ)	
5 1/2"	15.5#	6564'	7 7/8"	1st stage 660 sx: 2nd stage 275 sx	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8"	5906'	5906'

31. Perforation Record (Interval, size and number)
6048-60', 6068-86', 6095-6100' 124 holes
6104-11', 6114-26', 6164-72' 0.36" dia

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6164-72'	1000 gals 15% NEFE
6048-6126'	1500 gals acetic, 1500 gals 15% NEFE

33. PRODUCTION

Date First Production 12/5/88 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
12/5/88	43	20/64"		8	3529	15	441125

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
1750#	0		4	1970	8	55.0

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
Vented

Test Witnessed By
Cecil Patterson

35. List of Attachments
C102, (2) C-103, C104, (2) C122, copy of electric logs, deviation survey, DST No. 1

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Hal Crabb, III TITLE Petroleum Engineer DATE 12/15/88

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya <u>6046'</u>	T. Mancos _____	T. McCracken _____
T. San Andres <u>1134'</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta <u>2394'</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger <u>6344'</u>	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb <u>3806'</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo <u>4570'</u>	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. <u>Precambrian 6522'</u>	T. Chinle _____	T. _____
T. Penn. <u>5920'</u>	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) <u>5808'</u>	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....	No. 4, from.....to.....
No. 2, from.....to.....	No. 5, from.....to.....
No. 3, from.....to.....	No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
No. 2, from.....to.....feet.....
No. 3, from.....to.....feet.....
No. 4, from.....to.....feet.....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0'	1134'		anhydrite, sand, shale				
1134'	3806'		limestone, dolomite, sand				
3806'	5920'		dolomite, shale				
5920'	6522'		limestone, dolomite				
6522'	6564'		granite				