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Submit 5 Copies
Appropriate District Office
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

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

OIL CONSERVATION DIVISION
RECEIVED
Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

91 FEB 19 AM 9 36

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Ultramar Oil & Gas Limited		Well API No. 30-25-30708
Address 16825 Northchase Dr., Ste. 1200 - Houston, Texas 77060		
Reason(s) for Filing (Check proper box) ☐ New Well ☐ Recompletion ☐ Change in Operator ☐ Change in Transporter of: Oil ☐ Dry Gas ☐ Casinghead Gas ☐ Condensate ☒		
If change of operator give name and address of previous operator Santa Fe Operating Partners, L.P. - 500 W. Illinois, Ste. 500 - Midland, Texas 79701		

II. DESCRIPTION OF WELL AND LEASE

Lease Name P.Q. Osudo State Com.	Well No. 1	Pool Name, including Formation South Osudo Morrow (Gas)	Kind of Lease State, Federal or Fee	Lease No. VB-0177
Location Unit Letter <u>G</u> : <u>1980</u> Feet From The <u>N</u> Line and <u>1980</u> Feet From The <u>E</u> Line Section <u>16</u> Township <u>21-S</u> Range <u>35-E</u> NMPM Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒ Koch Oil Company	Address (Give address to which approved copy of this form is to be sent) P.O. Box 2256 - Wichita, Kansas 67201					
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ Phillips 66 Company	Address (Give address to which approved copy of this form is to be sent) 924 Adams Bldg. - Bartlesville, Oklahoma 74004					
If well produces oil or liquids, give location of tanks	Unit 0	Sec. 16	Twp. 21-S	Rge. 35-E	Is gas actually connected? yes	When? 1-27-91

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res v	Diff Res v
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (puck, back pr.)	Tubing Pressure (Sbbl-in)	Casing Pressure (Sbbl-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature Shyla L. Gordon - Regulatory Assistant

Printed Name 2-8-91 713/874-0700 Title

Date Telephone No.

OIL CONSERVATION DIVISION

FEB 15 1991

Date Approved

By

Title

DISTRICT I REGULATOR

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

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1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

'91 FEB 11 AM 9 26

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator Ultramar Oil & Gas Limited		Well API No. 30-025-30708
Address 16825 Northchase Dr., Ste. 1200 - Houston, Texas 77060		
Reason(s) for Filing (Check proper box) New Well ☒ Recompletion ☐ Change in Operator ☐		☒ Other (Please explain) Resubmitting with gas transporter and date of gas line connection.
If change of operator give name and address of previous operator		Santa Fe Operating Partners L.P. - 500 W. Illinois, Ste. 500 - Midland, Texas 79701

II. DESCRIPTION OF WELL AND LEASE

Lease Name P.Q. Osudo State Com.	Well No. 1	Pool Name, including Formation South Osudo Morrow (Gas)	Kind of Lease State, Federal or Fee	Lease No. VB-0177
Location Unit Letter <u>G</u> : <u>1980</u> Feet From The <u>N</u> Line and <u>1980</u> Feet From The <u>E</u> Line Section <u>16</u> Township <u>21-S</u> Range <u>35-E</u> <u>NMPM</u> Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒ Phillips Petroleum Co. (Trucks)	Address (Give address to which approved copy of this form is to be sent) Box 791 - Midland, Texas 79702	
Name of Authorized Transporter of Casaghead Gas ☐ or Dry Gas ☒ Phillips 66 Company	Address (Give address to which approved copy of this form is to be sent) 924 Adams Bldg. - Bartlesville, Oklahoma 74004	
If well produces oil or liquids, give location of tanks	Unit <u>0</u> Sec. <u>16</u> Twp. <u>21-S</u> Rge. <u>35-E</u>	Is gas actually connected? <u>yes</u> When? <u>1-27-91</u>

If this production is commingled with that from any other lease or pool, give commingling order number.

N/A

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well ☒	New Well ☒	Workover	Deepen	Plug Back	Same Res v	Diff Res v
Date Spudded 10-28-89	Date Compl. Ready to Prod. 1-27-90		Total Depth 12,550'		P.B.T.D. 12,350'			
Elevations (DF, RKB, RT, GR, etc.) 3620.3' GR	Name of Producing Formation Morrow		Top Oil/Gas Pay 12,226'		Tubing Depth 12,049'			
Perforations 12226-12260					Depth Casing Shoe			

TUBING, CASING AND CEMENTING RECORD

MOLE SIZE	CASING & TUBING SIZE		DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8"	54.5#	645'	700 SX CL "C"
12-1/4"	9-5/8"	40#	5,465'	1925 SX lite + 400 SX CL "
8-1/2"	7"	20,26,29#	11,075'	335 SX lite + 300 50/50 PO
6"	4-1/2"	Liner	10,675' - 12,546'	352 SX CL "H"

V. TEST DATA AND REQUEST FOR ALLOWABLE

2-7/8" & 2-3/8" tubing at 12,049'

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

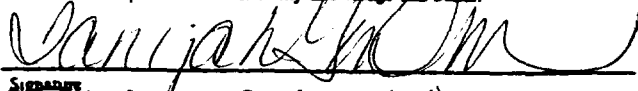
Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 114	Length of Test 5 hours	Bbls. Condensate/MMCF 19.2	Gravity of Condensate 55
Flowing Method (pump, back pr.) Back Pressure	Tubing Pressure (Shut-in) 4060	Casing Pressure (Shut-in) Packer	Choke Size Variable

VI. OPERATOR CERTIFICATE OF COMPLIANCE

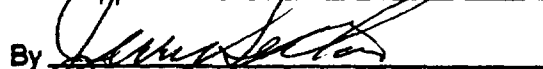
I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and correct to the best of my knowledge and belief.


Signature
Tanya L. Gordon - Regulatory Assistant

Printed Name
1-29-91
Date
713/874-0700
Telephone No.

OIL CONSERVATION DIVISION

Date Approved FEB 04 1991

By 

Title DISTRICT 1 SUPERVISOR

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.

2) All sections of this form must be filled out for allowable on new and recompleted wells.

3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.

4) Separate Form C-104 must be filed for each pool in multiply completed wells.

OIL CONSERVATION DIVISION

Hobbs OIL CONSERVATION DIVISION
P.O. Box 1980
Hobbs, NM 88240

Artesia
RECEIVED P.O. Drawer DD
Artesia, NM 88210

Artec
1000 Rio Brazos
Artec, NM 87410

91 FEB 22 AM 9 40

NOTICE OF GAS WELL - CONNECTION / RECONNECTION / DISCONNECTION

This is to notify the Oil Conservation Division of the following:

Connection	<u>XX</u>	First Delivery	<u>1/25/91</u>	<u> </u>
			Date	Initial Potential
Reconnection	<u> </u>	First Delivery	<u> </u>	<u> </u>
			Date	Initial Potential
Disconnection	<u> </u>			

for delivery of gas from the Ultramar Oil & Gas LTD
Operator
Osuda "PQ" State Com
Lease
095820 680 1 G 16-21-35
Meter Code Site Code Well No. Unit Letter S-T-R
Osuda, South Morrow
Pool

was made on 1/25/91
date

AOF

Choke

Phillips 66 Natural Gas Company
Transporter

OCD use only	
County	<u>Lea</u>
Land Type	<u>State</u>
Liq. Transporter	<u>Koch</u>

Doyle Pruden Production Records Supervisor
Representative Name/Title
(Please type or print)

Doyle Pruden
Representative Signature

Submit in duplicate to the appropriate district office.

Submit 5 Copies
Appropriate District Office
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

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

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

1990 JUN 22 AM 9 27

I.

Operator Ultramar Oil & Gas Limited Well API No. 30-025-30708

Address 16825 Northchase, Ste. 1200/Houston, Texas 77060

Reason(s) for Filing (Check proper box) ☐ Other (Please explain)

New Well ☐ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☒
Change in Operator ☒ Casinghead Gas ☐ Condensate ☐

If change of operator give name and address of previous operator Santa Fe Energy Operating Partners, L.P.
500 W. Illinois, Ste. 500/Midland, Texas 79701

II. DESCRIPTION OF WELL AND LEASE

Lease Name P.Q. Osudo State Com Well No. 1 Pool Name, Including Formation South Osudo Morrow Gas Kind of Lease State, Federal or Fee Lease No. VB-0177

Location
Unit Letter G : 1980 Feet From The North Line and 1980 Feet From The East Line
Section 16 Township 21S Range 35E , NM PM Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☐ Address (Give address to which approved copy of this form is to be sent) *See Remarks

Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ Address (Give address to which approved copy of this form is to be sent) *See Remarks

If well produces oil or liquids, give location of tanks. Unit Sec. Twp. Rgn. Is gas actually connected? When?

If this production is commingled with that from any other lease or pool, give commingling order number.

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Rns To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature Polly A. Koontz/Supv. of Reg. Aff.
Printed Name Polly A. Koontz Title 6-15-90 713/875-8773
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved JUN 20 1990
By Title DISTRICT 1 SUPERVISOR

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

**Well shut in - waiting on pipeline

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 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

ON DIVISION

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.

30-025-30708

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

VB-0177

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 ☐

DIFF RESVR ☐

OTHER ☐

7. Lease Name or Unit Agreement Name

P. Q. Osudo State Com

2. Name of Operator

Santa Fe Energy Operating Partners, L.P.

8. Well No.

1

3. Address of Operator

500 W. Illinois, Suite 500, Midland, Texas 79701

9. Pool name or Wildcat

South Osudo Morrow Gas

4. Well Location

Unit Letter G: 1980 Feet From The North Line and 1980 Feet From The East Line

Section 16 Township 21S Range 35E NMPM Lea County

10. Date Spudded

10-28-89

11. Date T.D. Reached

1-3-90

12. Date Compl. (Ready to Prod.)

1-27-90

13. Elevations (DF & RKB, RT, GR, etc.)

3620.3' GR

14. Elev. Casinghead

-

15. Total Depth

12,550'

16. Plug Back T.D.

12,350'

17. If Multiple Compl. How Many Zones?

N/A

18. Intervals Drilled By

Rotary Tools

All

Cable Tools

N/A

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

12,226'-12,260' (Morrow)

20. Was Directional Survey Made

Yes

21. Type Electric and Other Logs Run

DIL/SFL; BHC; CNL/LDT; DLL/MSFL

22. Was Well Cored

No

23.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	645'	17 1/2"	700 sx "C"	None
9-5/8"	40#	5465'	12 1/4"	1925 sx lite + 400 sx C	
7"	20, 26, 29#	11,075'	8 1/2"	335 sx lite + 300 sx 50/50 POZ	
			6"		

24.

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"	10,675'	12,546'	325 sx H		2-7/8 & 2-3/8"	12,049'	12,049'

25. TUBING RECORD

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

12,406'-12,420' (29 holes) .33 EHD (P&A'd)

12,226'-12,260 (72 holes) .33 EHD

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12,406-12420'	CIBP @ 12,365' w/15' cmt on to
12,226-12,260'	1596 gal 7 1/2% acid + 120 BS,
200 gal 15% HCL.	Frac'd w/ 30,000 gal Foam w/

28.

PRODUCTION 10,200# 20/40 sand

Date First Production 1-19-90		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing					Well Status (Prod. or Shut-in) Shut in	
Date of Test 5-10-90	Hours Tested 5	Choke Size var	Prod'n For Test Period	Oil - Bbl. 6	Gas - MCF 114	Water - Bbl. 0	Gas - Oil Ratio 19.2	
Flow Tubing Press. 3228	Casing Pressure	Calculated 24- Hour Rate	Oil - Bbl. 28	Gas MCF AOF 3.375	Water - Bbl. 0	Oil Gravity - API - (Corr.) 55		

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

Flared during test. Shut in WOPL

Test Witnessed By

30. List Attachments

C-104, Deviation Survey, Directional Survey, C-122

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

Terry McCullough

Printed Name

Terry McCullough

Title

Sr. Prod. Clerk

Date 5/31/90

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 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 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. Salt _____ T. Strawn _____
 B. Salt _____ 3447 T. Atoka _____ 11369
 T. Yates _____ 3694 T. Miss _____ 12470
 T. 7 Rivers _____ T. Devonian _____
 T. Queen _____ T. Silurian _____
 T. Grayburg _____ T. Montoya _____
 T. San Andres _____ T. Simpson _____
 T. Glorieta _____ T. McKee _____
 T. Paddock _____ T. Ellenburger _____
 T. Blinberry _____ T. Gr. Wash _____
 T. Tubb _____ T. Delaware Sand _____
 T. Drinkard _____ T. Bone Springs _____
 T. ~~XXX~~ Delaware _____ 5514 T. _____
 T. Wolfcamp _____ 10398 T. _____
 T. Penn _____ T. _____
 T. Cisco (Bough C) _____ T. _____

Northwestern New Mexico

T. Ojo Alamo _____ T. Penn. "B" _____
 T. Kirtland-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 Otzie _____
 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 _____ 9960 to _____ 9980 No. 3, from _____ 12225 to _____ 12260
 No. 2, from _____ 12116 to _____ 12124 No. 4, from _____ 12405 to _____ 12421

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	4080	4080	Red beds, Salt, Anhyd. and Dolomite	11410	12116	706	Limestone w/ chert and shale
4080	5514	1434	Dolomite w/ minor sand- stone	12116	12550	434	Shale w/ sandstone and limestone
5514	7510	1996	Sandstone w/ some lime- stone, dolomite, and shale				
7510	9840	2330	Limestone w/ shale and some sandstone				
9840	10040	200	Dolomite w/ some lime- stone				
10040	10398	358	Limestone, shale and sandstone				
10398	11410	1012	Limestone w/ dolomite chert and shale				

RPL
 JUN 04
 WCR

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Energy, Minerals and Natural Resources Department

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OIL CONSERVATION DIVISION

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Santa Fe Energy Operating Partners, L.P.		Well API No. 30-025-30708
Address 500 W. Illinois, Suite 500, Midland, Texas 79701		
Reason(s) for Filing (Check proper box) ☒ Other (Please explain)		
New Well ☐	Change in Transporter of: Oil ☐ Dry Gas ☐ Casinghead Gas ☐ Condensate ☐	Request to move 115 Bbls. Test Oil (Condensate)
Recompletion ☐		
Change in Operator ☐		
If change of operator give name and address of previous operator		

II. DESCRIPTION OF WELL AND LEASE

Lease Name P. Q. Osudo State Com	Well No. 1	Pool Name, Including Formation South Osudo Morrow Gas	Kind of Lease (State, Federal or Fee)	Lease No VB-0177
Location Unit Letter <u>G</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>1980</u> Feet From The <u>East</u> Line Section <u>16</u> Township <u>21S</u> Range <u>35E</u> , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent)					
<u>Texaco Trading and Transportation, Inc.</u>	<u>P. O. Box 6196, Midland, Texas 79711</u>					
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)					
Is well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When ?
	<u>G</u>	<u>16</u>	<u>21S</u>	<u>35E</u>	<u>No</u>	

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (prior, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Terry McCullough
Signature
Terry McCullough, Sr. Production Clerk
Printed Name
May 14, 1990
Date
915/687-3551
Telephone No.

OIL CONSERVATION DIVISION
MAY 16 1990

Date Approved
By Terry Sexton
Title DISTRICT 1 SUPERVISOR

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells

WELL NAME & NUMBER P. Rosado state Com #1
Osada State #1

OIL CONSERVATION DIVISION
RECEIVED

LOCATION Lea County, New Mexico 1980/V + 90 SEP 13 21-35
(Give Unit, Section, Township and Range)

OPERATOR Santa Fe Energy Operations

DRILLING CONTRACTOR Grace Drilling Company

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH
.25 - 165	2.00 - 3090		
2.00 - 407	2.75 - 3326		
2.25 - 468	2.50 - 3458		
1.25 - 645	4.25 - 3617		
2.00 - 825	3.75 - 3744		
2.75 - 950	3.25 - 3837		
2.75 - 1134	3.25 - 3905		
2.50 - 1381	2.25 - 3975		
2.75 - 1578	2.00 - 4098		
2.50 - 1743	1.75 - 4312		
2.25 - 1900	2.00 - 4461		
2.75 - 2171	2.50 - 4929		
1.25 - 2389	2.25 - 5067		
1.50 - 2542			
1.25 - 2822			

Drilling Contractor

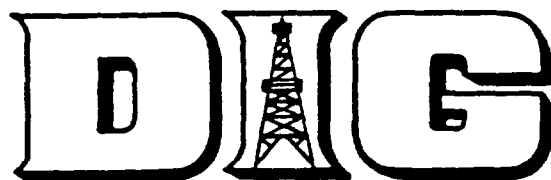
By J. V. Blum

Subscribed and sworn to before me this 19 day of January, 1990

Delia Lindell
Notary Public

My Commission Expires 6-30-90

Ector County Texas



SUB-SURFACE
DIRECTIONAL
SURVEY
REPORT

SANTE FE ENERGY
COMPANY
OSUDO STATE WELL NO. 1
WELL NAME
LEA COUNTY, NEW MEXICO
STATE AND COUNTY

CERTIFIED REPORT

SANTE FE ENERGY

WELL #
OSUDO STATE WELL NO.1

LOCATION
LEA COUNTY, NEW MEXICO

DATE
12-14-88

JOB TYPE
GYRO MULTISHOT

JOB #
GS-2288

SURVEYOR
RALPH RICE

DEPTHS
0'-10940'

DECL.
8 DEGREES EAST

ELEV.
6'

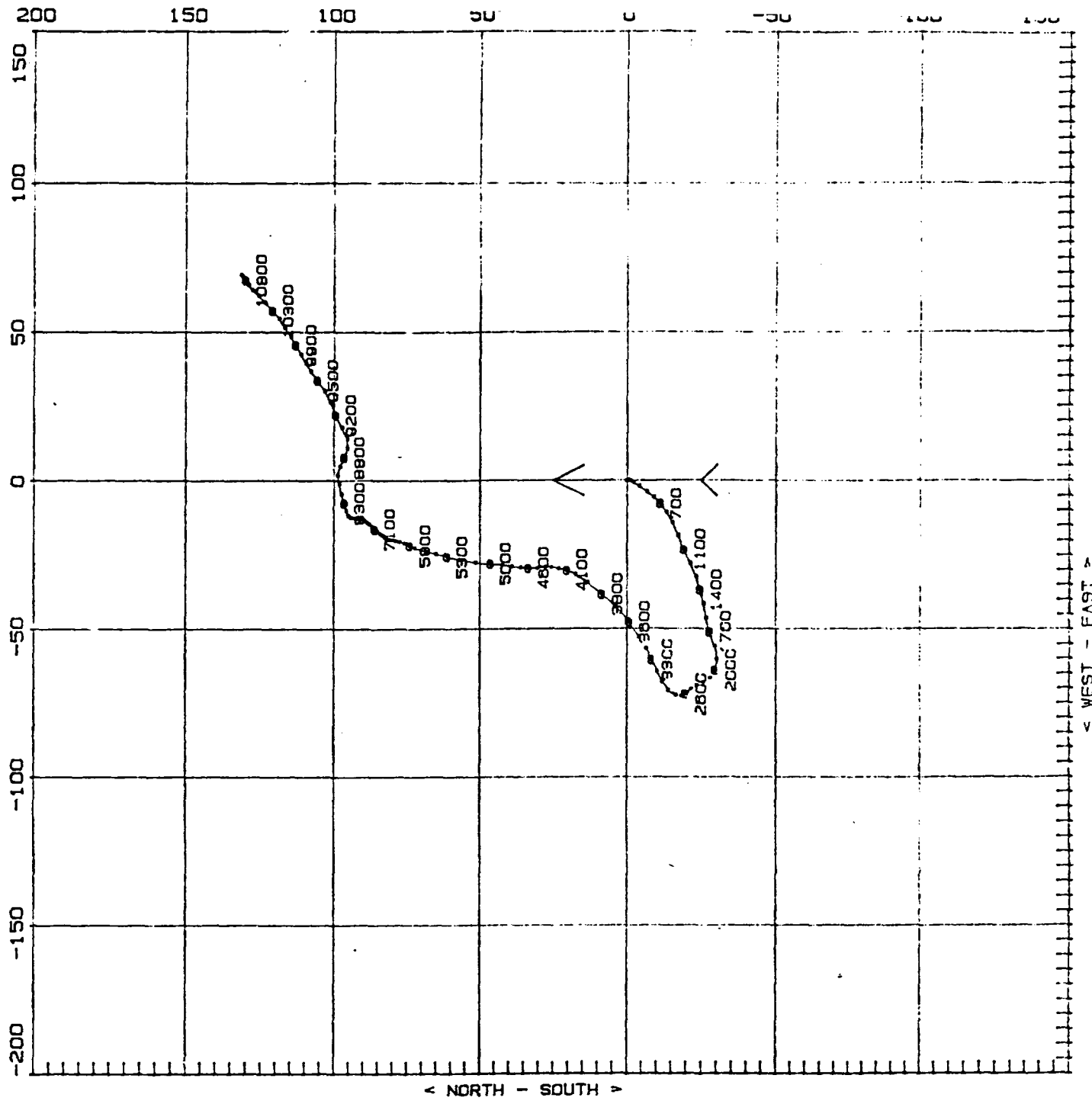
WT-008S

FINAL STATION DATA:

MD. 10940.00
TVD. 10934.01
N/S 131.54
E/W 69.45

CLOSURE DISTANCE
148.75 FEET
CLOSURE DIRECTION
N 27.83 E

1 IN. = 50 FT.



CUSTOMER : SANTE FE ENERGY

WELL # : OSUDO STATE WELL NO.1

LOCATION : LEA COUNTY, NEW MEXICO

DATE : 12-14-89

JOB TYPE : GYRO MULTISHOT

JOB # : GS-2296

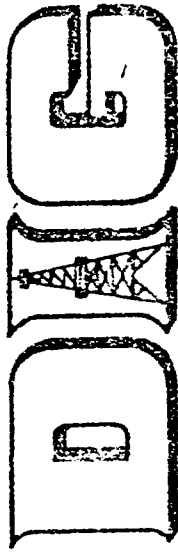
SURVEYOR : RALPH RICE

DEPTHS : 0'-10940'

DECL. : 9 DEGREES EAST

ELEV. : 10'

FILE # : WT-QQ6S



METHOD : RADIUS OF CURVATURE

SECTION : 0

THIS SURVEY IS CORRECT TO THE
BEST OF MY KNOWLEDGE AND IS
SUPPORTED BY ACTUAL FIELD DATA.

Ralph D. Rice

DIG REPRESENTATIVE

FINAL STATION DATA:

TRUE

MEASURED INCL.	HOLE	COURSE	VERTICAL	RECTANGULAR	CLOSURE	DUG-LEG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	COR-DIRECTION	DISTANCE
FEET	DEGS.	DEGS.	FEET	FEET	N/S	FEET
					E/W	DEGS.
						DG/100FT

10940.00 1.00 N 55.00 E 40.00 10934.01 131.54 N 69.45 E 148.75' N 27.83 E .09

PAGE 1

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00/00/00

MEASURED	INCL.	HOLE	COURSE	VERTICAL	RECTANGULAR	C L O S U R E	DUG-LEG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	C U R D I N A T E S	DISTANCE	SEVERITY
FEET	DEGS.	DEGS.	FEET	FEET	N/S	E/W	DEGS.
0.00	0.00	S 00.00 W	0.00	0.00	0.00 N	0.00 E	0.00
100.00	.50	S 00.00 E	100.00	100.00	.43 S	.06 E	.50
200.00	.40	S 20.00 W	100.00	200.00	1.21 S	.02 W	.24
300.00	1.00	S 30.00 W	100.00	299.99	2.28 S	.60 W	.63
400.00	1.80	S 30.00 W	100.00	399.96	4.31 S	1.95 W	.82
500.00	1.80	S 44.00 W	100.00	499.91	6.81 S	3.83 W	.44
600.00	1.60	S 37.00 W	100.00	599.86	9.07 S	5.76 W	.29
700.00	1.90	S 47.00 W	100.00	699.82	11.33 S	7.80 W	.43
800.00	2.10	S 59.00 W	100.00	799.76	13.43 S	10.58 W	.46
900.00	2.50	S 61.00 W	100.00	899.68	15.44 S	14.06 W	.41
1000.00	3.00	S 71.00 W	100.00	999.56	17.39 S	18.44 W	.69
1100.00	3.00	S 65.00 W	100.00	1099.42	19.35 S	23.29 W	.31
1200.00	2.80	S 66.00 W	100.00	1199.29	21.44 S	27.89 W	.21
1300.00	2.80	S 68.00 W	100.00	1299.18	23.35 S	32.39 W	.10
1400.00	2.60	S 77.00 W	100.00	1399.06	24.77 S	36.87 W	.47
1500.00	2.70	S 78.00 W	100.00	1498.96	25.77 S	41.39 W	.11
1600.00	2.90	S 81.00 W	100.00	1598.84	26.66 S	46.19 W	.25
1700.00	2.80	S 71.00 W	100.00	1698.71	27.86 S	51.01 W	.51
1800.00	2.80	S 73.00 W	100.00	1798.59	29.37 S	55.65 W	.10
1900.00	2.50	S 88.00 W	100.00	1898.49	30.13 S	60.20 W	.75
2000.00	1.80	N 71.00 W	100.00	1998.42	29.58 S	63.89 W	1.04
2100.00	1.70	N 41.00 W	100.00	2098.37	27.89 S	66.39 W	.91
2200.00	1.50	N 26.00 W	100.00	2198.33	25.57 S	67.93 W	.46
2300.00	1.40	N 30.00 W	100.00	2298.30	23.34 S	69.12 W	.14
2400.00	1.00	N 32.00 W	100.00	2398.28	21.54 S	70.20 W	.40

SANTE FE ENERGY

OSUDO STATE WELL NO. 1

WT-QQ65

PAGE 2

06:38:10

00/00/00

MEASURED INCL. HOLE COURSE RECTANGULAR CLOSURE DOG-LEG

DEPTH ANGLE DIRECTION LENGTH DEPTH COORDINATES DISTANCE DIRECTION SEVERITY

FEET DEGS. FEET FEET N/S FEET E/W FEET DEGS. DG/100FT

2500.00	.70	N 59.00 W	100.00	2498.27	20.51 S	71.25 W	74.14' S	73.94 W	.49
2600.00	.50	N 27.00 W	100.00	2598.26	19.75 S	71.95 W	74.61' S	74.65 W	.38
2700.00	.40	N 19.00 W	100.00	2698.26	19.03 S	72.26 W	74.72' S	75.24 W	.12
2800.00	.40	N 14.00 W	100.00	2798.25	18.36 S	72.46 W	74.75' S	75.78 W	.03
2900.00	1.70	N 24.00 E	100.00	2898.24	16.57 S	72.30 W	74.17' S	77.09 W	1.41
3000.00	1.90	N 44.00 E	100.00	2998.19	13.98 S	70.55 W	71.92' S	78.79 W	.66
3100.00	2.10	N 62.00 E	100.00	3098.13	11.89 S	67.78 W	68.81' S	80.05 W	.66
3200.00	2.40	N 60.00 E	100.00	3198.07	10.23 S	64.22 W	65.03' S	80.95 W	.38
3300.00	2.50	N 64.00 E	100.00	3297.96	8.49 S	60.31 W	60.91' S	81.99 W	.20
3400.00	2.50	N 62.00 E	100.00	3397.86	6.51 S	56.43 W	56.80' S	83.42 W	.09
3500.00	2.80	N 56.00 E	100.00	3497.75	4.13 S	52.47 W	52.63' S	85.50 W	.41
3600.00	4.00	N 55.00 E	100.00	3597.58	3.77 S	47.58 W	47.59' S	89.07 W	1.20
3700.00	4.00	N 43.00 E	100.00	3697.33	3.80 N	42.32 W	42.49' N	84.87 W	.84
3800.00	3.20	N 39.00 E	100.00	3797.13	8.53 N	38.21 W	39.15' N	77.41 W	.84
3900.00	3.80	N 37.00 E	100.00	3896.95	13.34 N	34.45 W	36.94' N	60.82 W	.61
4000.00	2.10	N 33.00 E	100.00	3996.81	17.56 N	31.50 W	36.06' N	60.86 W	1.71
4100.00	1.70	N 17.00 E	100.00	4096.76	20.55 N	30.10 W	36.45' N	55.67 W	.66
4200.00	1.50	N 07.00 E	100.00	4196.72	23.28 N	29.52 W	37.60' N	51.74 W	.34
4300.00	1.30	N 14.00 E	100.00	4296.69	25.68 N	29.07 W	38.79' N	48.54 W	.26
4400.00	1.20	N 06.00 W	100.00	4396.66	27.85 N	28.92 W	40.15' N	46.09 W	.45
4500.00	1.90	N 13.00 W	100.00	4496.63	30.51 N	29.37 W	42.35' N	43.90 W	.72
4600.00	1.60	N 12.00 E	100.00	4596.58	33.54 N	29.40 W	44.60' N	41.23 W	.81
4700.00	1.50	N 01.00 E	100.00	4696.54	36.23 N	29.09 W	46.46' N	38.76 W	.31
4800.00	1.80	N 10.00 E	100.00	4796.50	39.09 N	28.81 W	48.56' N	36.39 W	.40
4900.00	2.00	N 10.00 E	100.00	4896.45	42.36 N	28.24 W	50.91' N	33.69 W	.20

SANTE FE ENERGY
OSUDO STATE WELL NO. 1
WT-QQ65

PAGE 3
00:39:04
00/00/00

MEASURED INCL. K HOLE RECTANGULAR C L O S U R E DUG-LEG
DEPTH ANGLE DIRECTION COURSE LENGTH DEPTH COORDINATES DISTANCE DIRECTION SEVERITY
FEET DEGS. FEET FEET N/S FEET DEGS. FEET

5000.00	2.70	N 01.00 W	100.00	4996.36	46.44 N	27.92 W	54.18' N-31.01 W	.03
5100.00	3.10	N 11.00 E	100.00	5096.23	51.47 N	27.48 W	50.34' N 28.10 W	.72
5200.00	3.00	N 11.00 E	100.00	5196.09	56.69 N	26.46 W	62.56' N 25.02 W	.10
5300.00	2.50	N 13.00 E	100.00	5295.98	61.38 N	25.46 W	66.46' N-22.53 W	.51
5400.00	2.00	N 15.00 E	100.00	5395.90	65.19 N	24.52 W	69.65' N 20.61 W	.51
5500.00	1.40	N 15.00 E	100.00	5495.85	68.06 N	23.75 W	72.08' N-19.24 W	.60
5600.00	1.30	N 16.00 E	100.00	5595.83	70.33 N	23.12 W	74.03' N 18.20 W	.10
5700.00	1.10	N 24.00 E	100.00	5695.80	72.29 N	22.40 W	75.69' N 17.22 W	.26
5800.00	1.10	N 23.00 E	100.00	5795.79	74.06 N	21.64 W	77.15' N-16.29 W	.02
5900.00	1.10	N 23.00 E	100.00	5895.77	75.82 N	20.89 W	78.65' N 15.40 W	0.00
6000.00	1.00	N 16.00 E	100.00	5995.75	77.55 N	20.20 W	80.16' N-14.65 W	.16
6100.00	.50	N 08.00 E	100.00	6095.74	78.83 N	20.00 W	81.33' N 14.24 W	.51
6200.00	.60	N 24.00 E	100.00	6195.74	79.75 N	19.74 W	82.15' N 13.90 W	.18
6300.00	.50	N 06.00 W	100.00	6295.73	80.69 N	19.59 W	83.03' N-13.65 W	.30
6400.00	.50	N 11.00 E	100.00	6395.73	81.55 N	19.55 W	83.87' N 13.40 W	.15
6500.00	.40	N 33.00 E	100.00	6495.73	82.28 N	19.26 W	84.50' N-13.18 W	.20
6600.00	.40	N 69.00 E	100.00	6595.72	82.71 N	18.73 W	84.80' N 12.76 W	.25
6700.00	.30	N 29.00 E	100.00	6695.72	83.10 N	18.28 W	85.09' N 12.40 W	.26
6800.00	.40	N 22.00 E	100.00	6795.72	83.65 N	18.01 W	85.57' N-12.15 W	.11
6900.00	.60	N 41.00 E	100.00	6895.72	84.39 N	17.56 W	86.20' N 11.75 W	.26
7000.00	.60	N 35.00 E	100.00	6995.71	85.22 N	16.91 W	86.80' N-11.23 W	.06
7100.00	.70	N 43.00 E	100.00	7095.70	86.10 N	16.20 W	87.61' N 10.66 W	.13
7200.00	.80	N 44.00 E	100.00	7195.70	87.05 N	15.30 W	88.38' N 09.97 W	.10
7300.00	.60	N 40.00 E	100.00	7295.69	87.96 N	14.48 W	89.14' N-09.35 W	.21
7400.00	.50	N 35.00 E	100.00	7395.68	88.72 N	13.90 W	89.80' N 08.90 W	.11

SANTE FE ENERGY

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OSUDO STAYL WELL-NO.1

00139157

WT-QQ6S

00/00/00

MEASURED	INCL.	HOLE	COURSE	VERTICAL	RECTANGULAR	C L O S U R E	DUG-LEG	
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	COORDINATES	DISTANCE	DIRECTION	
FEET	DEGS.	DEGS.	FEET	FEET	N/S	E/W	FEET	
							DEGS.	
							DG/100FT	
7500.00	.70	N 36.00 E	100.00	7495.68	89.57 N	13.29 W	90.55' N 08.44 W	.20
7600.00	.50	N 15.00 E	100.00	7595.67	90.51 N	12.84 W	91.42' N 08.00 W	.29
7700.00	.50	N 03.00 W	100.00	7695.67	91.38 N	12.75 W	92.26' N 07.94 W	.16
7800.00	.60	N 18.00 E	100.00	7795.66	92.32 N	12.63 W	93.18' N 07.79 W	.22
7900.00	.70	N 05.00 E	100.00	7895.66	93.43 N	12.40 W	94.25' N 07.56 W	.18
8000.00	.40	N 18.00 E	100.00	7995.65	94.37 N	12.21 W	95.16' N 07.37 W	.32
8100.00	.70	N 59.00 E	100.00	8095.65	95.10 N	11.62 W	95.81' N 06.97 W	.48
8200.00	1.50	N 79.00 E	100.00	8195.63	95.79 N	9.84 W	96.29' N 05.87 W	.88
8300.00	1.40	N 67.00 E	100.00	8295.60	96.53 N	7.43 W	96.81' N 04.40 W	.32
8400.00	2.30	N 76.00 E	100.00	8395.54	97.55 N	4.37 W	97.65' N 02.56 W	.94
8500.00	1.90	N 82.00 E	100.00	8495.48	98.25 N	2.77 W	98.25' N 00.45 W	.46
8600.00	1.50	N 82.00 E	100.00	8595.43	98.66 N	2.17 E	98.69' N 01.26 E	.40
8700.00	1.80	S 56.00 E	100.00	8695.39	98.03 N	4.91 E	98.15' N 02.87 E	1.22
8800.00	2.00	S 72.00 E	100.00	8795.34	96.58 N	7.88 E	96.90' N 04.66 E	.56
8900.00	1.70	S 66.00 E	100.00	8895.28	95.42 N	10.89 E	96.04' N 06.51 E	.36
9000.00	2.30	N 66.00 E	100.00	8995.22	95.42 N	14.28 E	96.49' N 08.51 E	1.72
9100.00	2.50	N 58.00 E	100.00	9095.13	97.39 N	17.97 E	99.03' N 10.46 E	.39
9200.00	2.90	N 70.00 E	100.00	9195.02	99.45 N	22.20 E	101.90' N 12.50 E	.69
9300.00	2.40	N 65.00 E	100.00	9294.92	101.22 N	26.47 E	104.62' N 14.66 E	.55
9400.00	2.50	N 60.00 E	100.00	9394.82	103.19 N	30.26 E	107.54' N 16.34 E	.24
9500.00	2.40	N 51.00 E	100.00	9494.73	105.61 N	33.78 E	110.88' N 17.74 E	.40
9600.00	2.00	N 56.00 E	100.00	9594.66	107.89 N	36.87 E	114.02' N 18.86 E	.44
9700.00	1.80	N 59.00 E	100.00	9694.60	109.67 N	39.66 E	116.63' N 19.80 E	.22
9800.00	2.20	N 59.00 E	100.00	9794.54	111.47 N	42.65 E	119.35' N 20.94 E	.40
9900.00	1.80	N 63.00 E	100.00	9894.48	113.16 N	45.70 E	122.04' N 21.99 E	.42

SANTE FE ENERGY
OSUDO STATE WELL NO: 1
WT-QQ6S

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00:40:49
00/00/00

MEASURED INCL. HOLE DIRECTION DEPTH COURSE LENGTH FEET TRUE VERTICAL RECTANGULAR CLOSURE DOG-LEG
DEPTH ANGLE DEGS. DEGS. FEET N/S FEET DEGS. DG/100FT

10000.00	1.90	N 54.00 E	100.00	9994.43	114.85 N	48.45 E	124.65	N 22.87 E	.31
10100.00	2.30	N 59.00 E	100.00	10094.36	116.87 N	51.51 E	127.72	N 23.78 E	.44
10200.00	2.00	N 55.00 E	100.00	10194.29	118.91 N	54.65 E	130.87	N 24.68 E	.34
10300.00	2.00	N 46.00 E	100.00	10294.23	121.13 N	57.34 E	134.02	N 25.33 E	.31
10400.00	2.00	N 48.00 E	100.00	10394.17	123.51 N	59.90 E	137.27	N 25.87 E	.07
10500.00	1.80	N 44.00 E	100.00	10494.11	125.81 N	62.28 E	140.39	N 26.34 E	.24
10600.00	1.40	N 42.00 E	100.00	10594.08	127.86 N	64.19 E	143.06	N 26.66 E	.40
10700.00	1.10	N 66.00 E	100.00	10694.05	129.13 N	65.94 E	144.99	N 27.05 E	.60
10800.00	1.00	N 52.00 E	100.00	10794.03	130.07 N	67.50 E	146.54	N 27.43 E	.27
10900.00	1.00	N 53.00 E	100.00	10894.02	131.13 N	68.89 E	148.13	N 27.71 E	.02
10940.00	1.00	N 55.00 E	40.00	10934.01	131.54 N	69.45 E	148.75	N 27.83 E	.09

CLOSURE DISTANCE = 148.75 FEET.
CLOSURE DIRECTION = N 27.83 E

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date <u>05-10-90</u>		Oil & Gas Division RECEIVED	
Company <u>Operating Partners L.P.</u> <u>Santa Fe Energy Resources, Inc.</u>						Connection <u>Vented</u>		<u>'90 SEP 13 AM 9 31</u>	
Pool				Formation <u>Morrow</u>				Unit	
Completion Date <u>05-16-90</u>		Total Depth <u>12,550</u>		Plug Back TD <u>12,350</u>		Elevation <u>3620 GL</u>		Farm or Lease Name <u>PQ Osudo St. Com.</u>	
Ceq. Size <u>4 1/2</u>	Wt. <u>4.7</u>	d <u>1.995</u>	Set At <u>12,550</u>	Perforations: From <u>12,226</u> To <u>12,260</u>		Well No. <u>1</u>			
Thg. Size <u>2 3/8 & 2 7/8</u>	Wt. <u>6.5</u>	d <u>2.441</u>	Set At <u>12,013</u>	Perforations: From _____ To _____		Unit Sec. Twp. Rge. <u>16-21-35</u>			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>Single</u>						Packer Set At <u>12,013</u>		County <u>Lea</u>	
Producing Thru Tbg. <u>12,243</u>		Reservoir Temp. °F <u>196 @ 12,243</u>		Mean Annual Temp. °F <u>60</u>		Baro. Press. - P _a <u>13.2</u>		State <u>N.M.</u>	
L <u>12,243</u>	H <u>12,243</u>	Cg <u>.674</u>	% CO ₂ <u>.56</u>	% N ₂ <u>.48</u>	% H ₂ S <u>---</u>	Prover	Meter Run <u>3.068</u>	Taps Flg.	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							<u>4060</u>		<u>PKR</u>		<u>48</u>
1.	<u>3</u>	<u>X</u>	<u>.750</u>	<u>200</u>	<u>6.00</u>	<u>80</u>	<u>4060</u>		<u>PKR</u>		<u>45 min.</u>
2.	<u>3</u>	<u>X</u>	<u>1.250</u>	<u>215</u>	<u>7.00</u>	<u>82</u>	<u>3818</u>		<u>PKR</u>		<u>75 min.</u>
3.	<u>3</u>	<u>X</u>	<u>1.250</u>	<u>190</u>	<u>15.00</u>	<u>80</u>	<u>3642</u>		<u>PKR</u>		<u>60 min.</u>
4.	<u>3</u>	<u>X</u>	<u>1.250</u>	<u>210</u>	<u>25.00</u>	<u>82</u>	<u>3518</u>		<u>PKR</u>		<u>60 min.</u>
5.	<u>3</u>	<u>X</u>	<u>1.250</u>	<u>220</u>	<u>55.00</u>	<u>82</u>	<u>3228</u>		<u>PKR</u>		<u>60 min.</u>

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	<u>2.672</u>	<u>35.77</u>	<u>213.2</u>	<u>.9813</u>	<u>1.218</u>	<u>1.020</u>	<u>117</u>
2.	<u>7.577</u>	<u>39.97</u>	<u>228.2</u>	<u>.9795</u>	<u>1.218</u>	<u>1.022</u>	<u>369</u>
3.	<u>7.577</u>	<u>55.21</u>	<u>203.2</u>	<u>.9813</u>	<u>1.218</u>	<u>1.020</u>	<u>510</u>
4.	<u>7.577</u>	<u>74.70</u>	<u>223.2</u>	<u>.9795</u>	<u>1.218</u>	<u>1.022</u>	<u>690</u>
5.	<u>7.577</u>	<u>113.25</u>	<u>233.2</u>	<u>.9795</u>	<u>1.218</u>	<u>1.022</u>	<u>1,046</u>

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	<u>.31</u>	<u>540</u>	<u>1.41</u>	<u>.961</u>	<u>19.2</u>	<u>55.0 @ 60°</u>	<u>.674</u>	<u>X X X X X X X X</u>	<u>669</u>	<u>382</u>
2.	<u>.34</u>	<u>542</u>	<u>1.41</u>	<u>.957</u>						
3.	<u>.30</u>	<u>540</u>	<u>1.41</u>	<u>.962</u>						
4.	<u>.33</u>	<u>542</u>	<u>1.41</u>	<u>.958</u>						
5.	<u>.34</u>	<u>542</u>	<u>1.41</u>	<u>.957</u>						

P _c <u>4396.9</u> P _c ² <u>19332.7</u>					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.226$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.226$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²				
1		<u>4249.3</u>	<u>18056.6</u>	<u>1276.1</u>				
2		<u>4128.9</u>	<u>17047.8</u>	<u>2284.9</u>				
3		<u>4009.4</u>	<u>16075.3</u>	<u>3257.4</u>				
4		<u>3870.3</u>	<u>14979.2</u>	<u>4353.5</u>				
5		<u>3652.5</u>	<u>13340.8</u>	<u>5991.9</u>				

Absolute Open Flow <u>3.375</u> Mcfd @ 15.025					Angle of Slope <u>45</u>		Slope, n <u>1.000</u>	
---	--	--	--	--	--------------------------	--	-----------------------	--

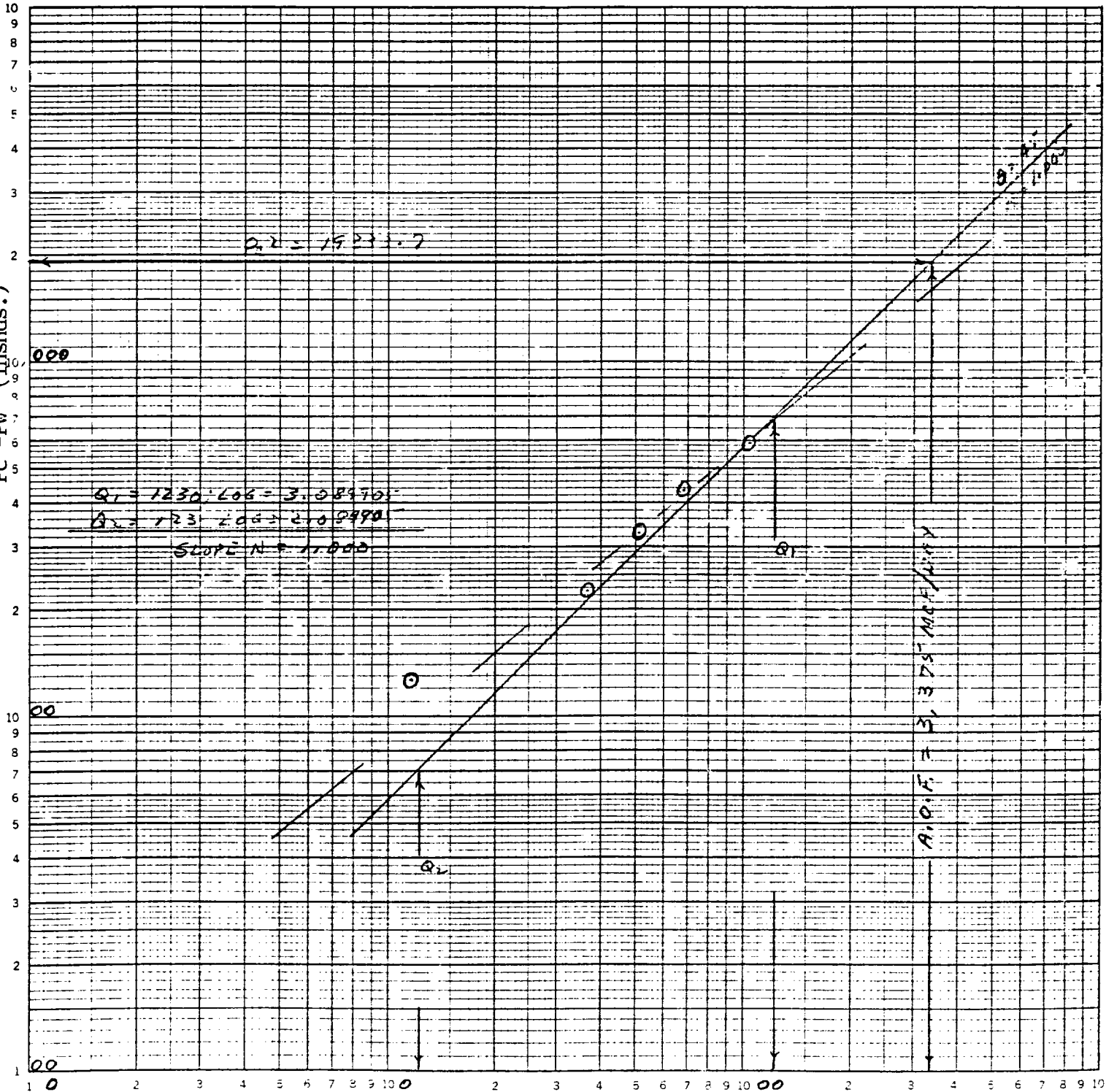
Remarks: <u>*BHP's extrapolated to mid-perfs.</u>	
Test calculated from known BHP's obtained with Amerada RPG-3 Instrument Well made	
<u>6.1 BBLs 55.0 API Condensate during test</u>	
Approved By Division	Conducted By: <u>Pro Well Testers</u>
Calculated By: <u>BM</u>	Checked By: <u>BM</u>

Santa Fe Energy
P.Q. Osudo State Com. #1

46 7400

K₀Σ LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

Pc²-Pv² (M²nds.)



Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

OIL CONSERVATION DIVISION

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

WELL API NO.
30-025-30708

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
VB-0177

7. Lease Name or Unit Agreement Name

P. Q. Osudo State Com

8. Well No.

1

9. Pool name or Wildcat
South Osudo Morrow Gas

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL

WELL ☐

GAS

WELL ☒

OTHER

2. Name of Operator

Santa Fe Energy Operating Partners, L.P.

3. Address of Operator

500 W. Illinois, Suite 500, Midland, TX 79701

4. Well Location

Unit Letter G : 1980 Feet From The North Line and 1980 Feet From The East Line

Section 16 Township 21S Range 35E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3620.3' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Ran 4-1/2" liner & released rig ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1-7-90: Depth 12,550' (TD). RU and run 46 jts. 4-1/2" S-95 & P-110 13.5# casing. Circ w/ guide shoe at 12,550'. Hang liner (liner at 10,675' to 12,546'). Circ liner while batch mix cement. Pump 10 BBl FW. Pump 500 gals super flush followed by 325 sx Cl "H" w/ 0.6% Halad 22A, 0.4% CFR3, 5#/sk KCl, mixed at 15.6 ppg - 1.18 cu.ft. sk. Bumped plug. Floats held. Tag cmt at 9635'.

1-8-90: WOC 13 hours. Drilling cmt.

1-9-90: Released rig at 2:00 p.m. on 1-9-90. WOCU.

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

SIGNATURE

Terry McCullough

TITLE Sr. Production Clerk

DATE 1-10-90

TYPE OR PRINT NAME

Terry McCullough

915/

TELEPHONE NO. 687-3551

(This space for State Use)

APPROVED BY

[Signature]

TITLE

DISTRICT 1 SUPERVISOR

DATE

JAN 16 1990

CONDITIONS OF APPROVAL, IF ANY:

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

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

WELL API NO.	30-025-30708
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil & Gas Lease No.	VB-0177

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL ☐ GAS WELL ☒ OTHER	7. Lease Name or Unit Agreement Name P. Q. Osudo State Com
2. Name of Operator Santa Fe Energy Operating Partners, L.P.	8. Well No. 1
3. Address of Operator 500 W. Illinois, Suite 500, Midland, TX 79701	9. Pool name or Wildcat South Osudo Morrow Gas
4. Well Location Unit Letter <u>G</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>1980</u> Feet From The <u>East</u> Line Section <u>16</u> Township <u>21S</u> Range <u>35E</u> NMPM Lea County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) <u>3620.3' GR</u>	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
OTHER: ☐	PLUG AND ABANDONMENT ☐
	CASING TEST AND CEMENT JOB ☒
	OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

12-13-89: Depth 11,075'. Ran 259 jts 7" casing as follows:

Float shoe set at 11,075'

2 jts 7" 29# N-80 LT&C (73.55')

Float collar set at 10,997.88'

67 jts 7" 29# N-80 LT&C (2695.08') Top at 8302.8'

65 jts 7" 26# S-95 LT&C (2888.73') Top at 5414.07'

125 jts 7" 20# N-80 LT&C (5418.25') Top 4.15' above KB

Cement w/ 335 sx Halliburton lite containing 0.6% Halad 9 followed by 300 sx 50/50 poz w/ 6#/sk salt + 0.3% Halad 22A. PD at 6:30 p.m. ND BOP set slips. Install tbg head. NU BOP. Run directional survey.

12-14-89: Finished running directional survey. Test BOP and ck manifold - okay.

PU DC's and DP. Test 7" csg to 2500 psi - okay.

12-15-89: Resume drilling operations.

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

SIGNATURE Terry McCullough TITLE Sr. Production Clerk DATE 12-20-89
TYPE OR PRINT NAME Terry McCullough TELEPHONE NO. 915/ 687-3551

(This space for State Use)

APPROVED BY [Signature] DISTRICT 1 SUPERVISOR DATE DEC 22 1989
CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION
RECEIVED
89 DEC 26 AM 9 42

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

OIL CONSERVATION DIVISION

P.O. Box 90885
Santa Fe, New Mexico 87504-2088

WELL API NO.	30-025-30708
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil & Gas Lease No.	VB-0177

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL ☐ GAS WELL ☒ OTHER	7. Lease Name or Unit Agreement Name P. Q. Osudo State Com
2. Name of Operator Santa Fe Energy Operating Partners, L.P.	8. Well No. 1
3. Address of Operator 500 W. Illinois, Suite 500, Midland, TX 79701	9. Pool name or Wildcat South Osudo Morrow Gas
4. Well Location Unit Letter <u>G</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>1980</u> Feet From The <u>East</u> Line Section <u>16</u> Township <u>21S</u> Range <u>35E</u> NMPM Lea County	10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3620.3' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
OTHER: ☐	PLUG AND ABANDONMENT ☐
	CASING TEST AND CEMENT JOB ☒
	OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 11-26-89: Depth 5467'. RU and ran 127 jts 9-5/8" 40# K-55 LT&C csg and set at 5465'. DV tool at 3508'. Cemented 1st Stage w/ 425 sx Lite containing 10#/sk Gilsonite, 1/4#/sk flocele. Tail w/ 200 sx C1 "C" Neat. PD at 2:30 a.m.
- 11-27-89. Open DV tool and circ between stages.
- 11-27-89: Cemented 2nd Stage w/ 1500 sx Howco lite w/ 10# Gilsonite, 1/4# flocele and 200 sx "C" 2% CaCl. PD at 10:30 a.m. No cement to surface. WOC 8 hrs. Run temp survey. TOC at 800'. WOC. Called NMOCD and received verbal approval on TOC.
- 11-28-89: WOC a total of 32-1/2 hrs. Resume drilling operations.

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

SIGNATURE Terry McCullough TITLE Sr. Production Clerk DATE 12/1/89
TYPE OR PRINT NAME Terry McCullough TELEPHONE NO. 687-3551

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT 1 SUPERVISOR DATE DEC 04 1989

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

'89 NOV 9 AM 9 42

WELL API NO. 30-025-30708
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. VB-0177
7. Lease Name or Unit Agreement Name P. Q. Osudo State Com
8. Well No. 1
9. Pool name or Wildcat South Osudo Morrow Gas

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL ☐ GAS WELL ☒ OTHER	
2. Name of Operator Santa Fe Energy Operating Partners, L.P.	
3. Address of Operator 500 W. Illinois, Suite 500, Midland, TX 79701	
4. Well Location Unit Letter <u>G</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>1980</u> Feet From The <u>East</u> Line Section <u>16</u> Township <u>21S</u> Range <u>35E</u> NMPM Lea County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3620.3' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☒
OTHER: ☐	PLUG AND ABANDONMENT ☐
	CASING TEST AND CEMENT JOB ☐
	OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

10-28-89: Spud 17 1/2" hole at 9:00 PM.

10-29-89: Drilled to 645'. Ran 15 jts 13 3/8" 54.5# 8rd ST&C csg & set @ 645'. Cemented w/700 sx C1 "C" w/2% CaCl. Circ 200 sx to pit. Plug down @ 4:15 PM. WOC.

10-30-89: WOC total of 18 3/4 hrs. Test csg to 600 psi - okay. Resume drilling operations.

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

SIGNATURE

Terry McCullough

TITLE Sr. Production Clerk

DATE 11-3-89

TYPE OR PRINT NAME

Terry McCullough

TELEPHONE NO.

915/
687-3551

(This space for State Use)

Geologist

NOV 8 1989

APPROVED BY

[Signature]

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

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

OIL CONSERVATION DIVISION
RECEIVED

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

API NO. (assigned by OCD on New Wells)

30-025-30708

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

VB-0177

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:

OIL WELL ☐ GAS WELL ☒ OTHER ☐

SINGLE ZONE ☐ MULTIPLE ZONE ☐

7. Lease Name or Unit Agreement Name

P. Q. Osudo State Com.

2. Name of Operator

Santa Fe Energy Operating Partners, L.P.

8. Well No.

1

3. Address of Operator

500 W. Illinois, Suite 500, Midland, TX 79701

9. Pool name or Wildcat

South Osudo Morrow Gas

4. Well Location

Unit Letter G : 1980 Feet From The North Line and 1980 Feet From The East Line

Section 16 Township 21S Range 35E NMPM Lea County

10. Proposed Depth

12,400'

11. Formation

Morrow

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3620.3'

14. Kind & Status Plug. Bond

Blanket - Current

15. Drilling Contractor

Grace Drilling Co.

16. Approx. Date Work will start

ASAP

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2	13 3/8	48.0	400	530	Surface
12 1/4	9 5/8	40.0	5,350	3,600	Surface
8 1/2	7	23.0	11,370	1,000	8,000'
6	4 1/2	13.5	11,000-12,400'	500	11,000'

Move on location. Drill a 17 1/2" hole to 400'. Run and cement 13 3/8" casing. WOC 8 hrs (Option II). Nipple up annular preventer and test casing to 600 psi. Drill 12 1/4" hole to 5350'. Run and cement 9 5/8" casing. WOC until 500 psi compressive strength obtained. Nipple up 5000 psi BOP stack and choke manifold. Test to 1500 psi. Test casing to 1500 psi. Drill an 8 1/2" hole to 11,370'. Log. Run and cement 7" casing. WOC until 500 psi compressive strength obtained. Test BOP and choke manifold to 5000 psi. Drill 6" hole to 12,400'. Log. Run and cement 4 1/2" casing or plug and abandon per NMOC regulations.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE

Michael R. Burton

TITLE District Drilling Engineer

DATE 10-19-89

TYPE OR PRINT NAME

Michael R. Burton

915/

TELEPHONE NO. 687-3551

(This space for State Use)

Geologist

OCT 23 1989

APPROVED BY

Paul J. [Signature]

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Period Expires 6 Months From Approval
One Unit Drilling Underway

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

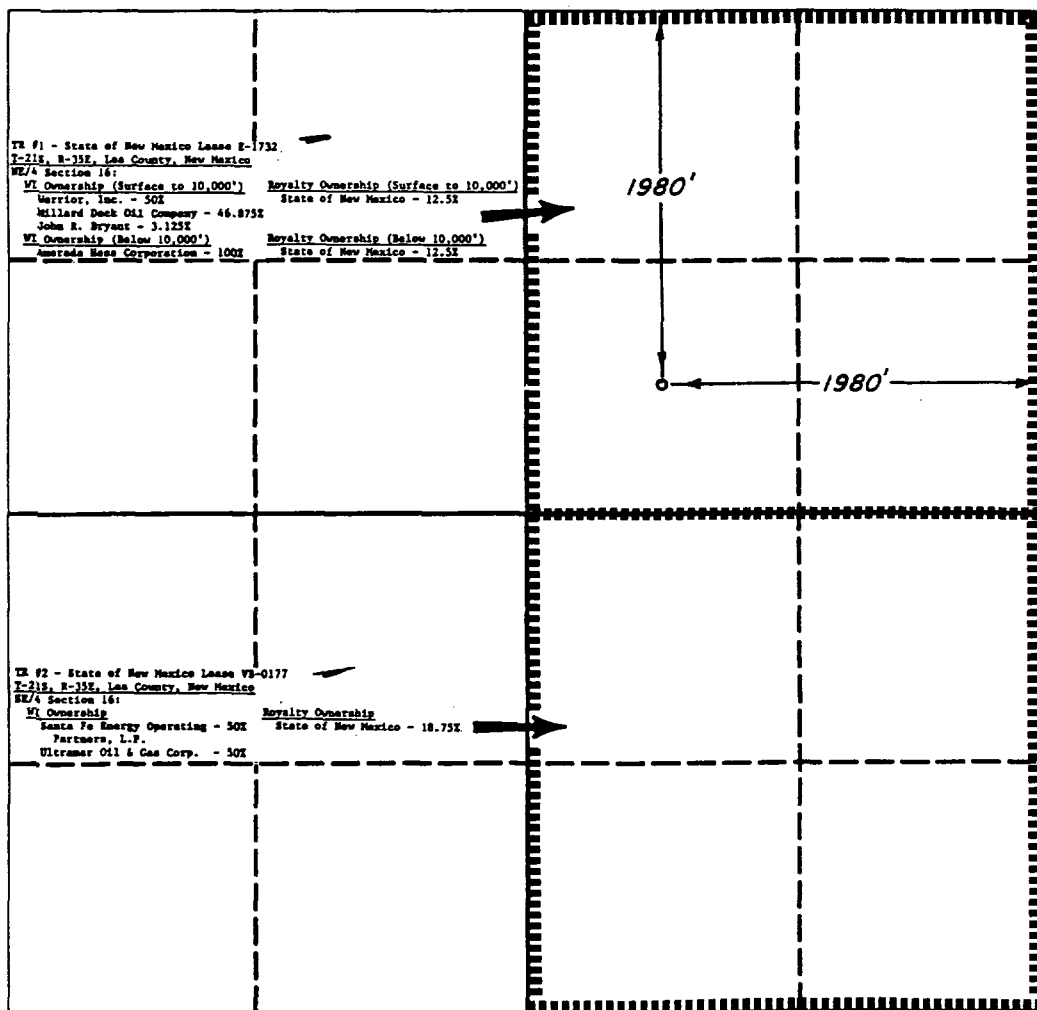
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SANTA FE ENERGY OPER. PARTNERS L.P.			Lease P. Q. OSUDO STATE COM.		Well No. 1
Unit Letter G	Section 16	Township 21 SOUTH	Range 35 EAST	County LEA	
Actual Footage Location of Well: 1980 feet from the NORTH line and 1980 feet from the EAST line					
Ground level Elev. 3620.3'	Producing Formation Morrow		Pool South Osudo Morrow Gas		Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communization, unitization, force-pooling, etc?
☒ Yes ☐ No If answer is "yes" type of consolidation Communization
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature
Michael R. Burton
Printed Name
Michael R. Burton
Position
District Drilling Engineer
Company
Santa Fe Energy
Operating Partners, L.P.
Date
10-19-89

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
OCTOBER 17, 1989
Signature & Seal of
Professional Surveyor
Ronald J. Eidson
Certificate No. **3023**
RONALD J. EIDSON
REGISTERED LAND SURVEYOR
No. **9**
1976
239

WRS COMPLETION REPORTREISSUES
PI# 30-T-0014 01/04/91 SEC 16 TWP 21S RGE 35E
30-025-30708-0000 PAGE 1

NMEX LEA * 1980FNL 1980FEL SEC SW NE
STATE COUNTY FOOTAGE SPOT
SANTA FE ENERGY OPRNG D DG
OPERATOR 1 OSUDO "PQ"STATE COM WELL CLASS INIT FIN
WELL NO. 3633KB 3620GR LEASE NAME OSUDO S
OPER ELEV FIELD/POOL/AREA
API 30-025-30708-0000
LEASE NO. PERMIT OR WELL I.D. NO.
10/28/1989 05/10/1990 ROTARY VERT GAS
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS
12400 MORROW GRACE DRLG 2 RIG SUB 12
PROJ. DEPTH PROJ. FORM CONTRACTOR
DTD 12550 PB 12350 FM/TD MSSP
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

12 MI NW EUNICE, NM

CASING/LINER DATA

CSG 13 3/8 @ 645 W/ 700 SACKS
CSG 9 5/8 @ 5465 W/ 2325 SACKS
CSG 7 @ 11075 W/ 635 SACKS
LNR 4 1/2 10675-12546 W/ 325S

TUBING DATA

TBG 2 7/8 AT 12049 2 3/8 AT 12049 COMB STRING

INITIAL POTENTIAL

IPF 28BCPD 1046 MCFD 1HRS
MORROW PERF W/ 72/IT 12226-12260
PERF. 12226-12260
ACID 12226-12260 1596GALS
7 1/2% 200 GALS 15% HCL
SFFR 12226-12260 30000GALS 10200LBS SAND
20/40 SD
TP 3228 ADDTVFOAM

SITP 4060
@12243FT BHT 196F
117MCFD TP 4060 BHFP 4249
369MCFD TP 3818 BHFP 4129
510MCFD TP 3642 BHFP 4009
690MCFD TP 3518 BHFP 3870

CONTINUED IC# 300257030989

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Form No 18

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SANTA FE ENERGY OPRNG
1 OSUDO "PQ"STATE COM D DG

INITIAL POTENTIAL

1046MCFD TP 3228 BHFP 3652
BH 4397 FPCAOF 3375MCFD
GTY 55.0 GOR 19200
GAS GTY .674
P/L CON VENTED
1ST PT IN 45 MINS
2ND PT IN 75 MINS
3RD THRU 5TH PT IN 60 MINS
CHK SIZES ON MULTIPOINT TEST-NO DETAILS

TYPE	FORMATION	LTH	TOP	DEPTH/SUB	BSE	DEPTH/SUB
LOG	SALT				3447	186
LOG	YATES		3694	-61		
LOG	DELAWARE		5514	-1881		
LOG	WOLFCAMP		10398	-6765		
LOG	ATOKA		11369	-7736		
LOG	MSSP		12470	-8837		

SUBSEA MEASUREMENTS FROM KB

PRODUCTION TEST DATA

MORROW PERF W/ 29/IT 12406-12420
PERF 12406-12420
BRPG @12350 12406-12420

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS	DISF	BHC	CNL
LOGS	LDT	DLL	MSFL

DRILLING PROGRESS DETAILS

SANTA FE ENERGY OPRNG
500 W ILLINOIS STE 500
MIDLAND, TX 79701
915-687-3551
10/23 LOC/1989/
11/03 DRLG 2680
11/10 DRLG 4925
11/20 5113 TD, TRIP
12/05 DRLG 8325

CONTINUED

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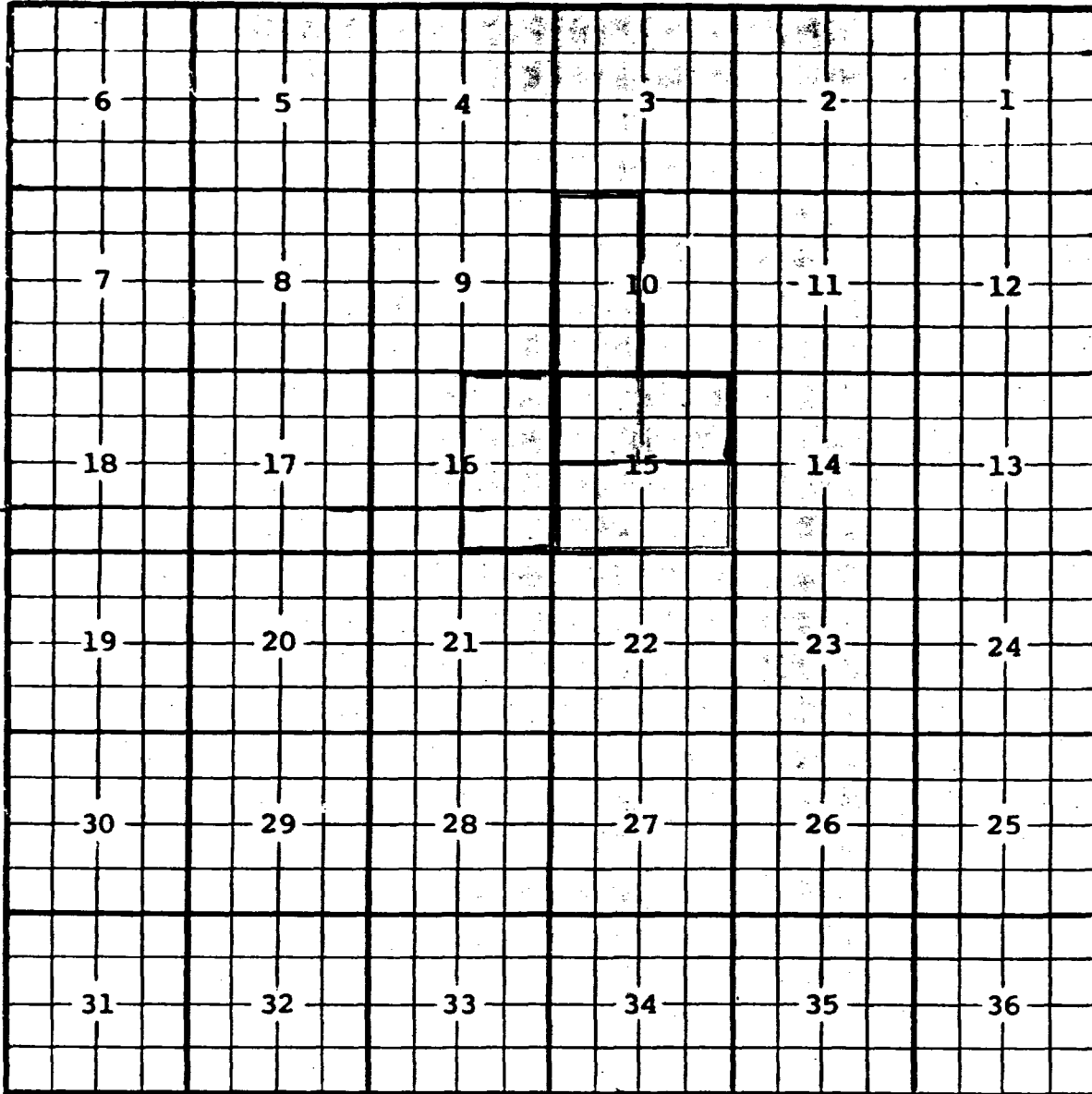
SANTA FE ENERGY OPRING D DG
1 OSUDO "PQ"STATE COM

DRILLING PROGRESS DETAILS

12/12 11075 TD, RNG LOGS
12/19 11075 TD, DOC
12/29 DRLG 12146
01/09 12550 TD, CIRC
01/16 12550 TD, PB 12350, TSTG
01/18 12550 TD, PB 12350, TSTG
02/05 12550 TD, PB 12350, WOPT
07/02 RIG REL 01/09/90
12550 TD, PB 12350
COMP 5/10/90, IPCAOF 3375 MCFGPD, GOR
19200, GTY (GAS) .674,
(COND) 55, SIWHP 4060, SIBHP
4397
PROD ZONE - MORROW 12226-12260
NO CORES OR DSTS RPTD
01/03 REISSUE TO CORRECT COMP DATE, IP, FM @ TD
& ADD 5-PT TEST, LOG TOPS & LOGS RUN
REPLACEMENT FOR CT ISSUED 7/6/90

COUNTY *Lea*POOL *South Osado - Morrow Gas*TOWNSHIP *21 South*RANGE *35 East*

NMPM



Description: $\frac{N}{2}$ Sec. 15 (R-3342, 12-1-67)

Ext: $\frac{W}{2}$ Sec. 10 (R-3932, 4-1-70) Ext: $\frac{S}{2}$ Sec. 15 (R-5252, 9-1-76)

Ext: $\frac{E}{2}$ Sec. 16 (R-9271, 8-28-90)

ILLEGIBLE