

*Release Immediately  
Offset waivers in*

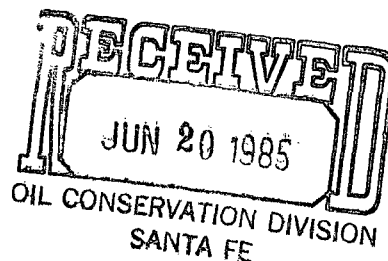
**SAGE ENERGY COMPANY**

P. O. DRAWER 3068  
MIDLAND, TEXAS 79702

915/683-5271

*NSC-2068  
RULE-R-2421-1  
Rte 5*

June 14, 1985



*North  
Vacuum Abo  
Pool*

*80 Acres dedication  
S/2 SE1/4  
Section 2*

New Mexico Oil & Gas Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cities Service State Well No. 3 Letter Unit O, 460' FSL and 1080' FEL of  
Section 2, T-17-S, R-34-E, Lea County, New Mexico.

Dear Sir:

Enclosed are original waivers from offset operators, completion information and a copy of the application to drill the referenced well. Sage respectfully request administrative approval for this location. The well was drilled in replacement of the Cities Service State Well No. 2, which was plugged after an attempt to whipstock the well failed. Your immediate consideration of this request is appreciated.

If additional information is required, please call the undersigned.

Very truly yours,

*Frances Holzgraf*

Frances Holzgraf  
Production Clerk

encls.

30-025-2919~

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

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-85

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.	
E 754	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. Type of Work		7. Unit Agreement Name	
DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		NA	
2. Type of Well		8. Farm or Lease Name	
OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		Cities Service State	
3. Name of Operator		9. Well No.	
Sage Energy Company		3	
4. Address of Operator		10. Field and Pool, or Wildcat	
P. O. Drawer 3068, Midland, Texas 79702		North Vacuum (Abo)	
5. Location of Well		12. County	
UNIT LETTER O LOCATED 460 FEET FROM THE South LINE		Lea	
AND 1680 FEET FROM THE East LINE OF SEC. 2 TWP. 17S RGE. 34E NMPM			
11. Elevations (Show whether DF, RT, etc.)		19. Proposed Depth	19A. Formation
4045.5 GL		8800'	Abo
21A. Kind & Status Plug. Bond	21B. Drilling Contractor	20. Rotary or C.T.	
Blanket	Sterling Drilling Co.	Rotary	
		22. Approx. Date Work will start	
		March 24, 1985	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15"	12 3/4"	34#	400'	300	Circulated
8 3/4"	7"	23#	5000'	2000	400'
6"	4 1/2"	10.50#/11.60#	8800'	400	7800'

Note: John W. West, with John West Engineering Co., Hobbs, New Mexico has filed Form C-102 with plat to New Mexico Oil Conservation Commission on 3-21-85.

Permit Expires 6 Months From Approval  
Date Unless Drilling Underway.

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

Signed Francis Halygras Title Production Clerk Date March 21, 1985

(This space for State Use)  
APPROVED BY JERRY DEWITT  
DISTRICT MANAGER

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY: Approval for drilling, only. Production will not be authorized until approval is obtained for the unorthodox location.

MAR 25 1985

W A I V E R

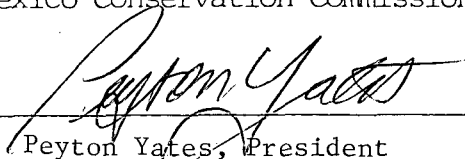
Sage Energy Company  
P. O. Drawer 3068  
Midland, Texas 79702

and  
New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

Re: Sage Energy Company Cities Service State No. 3, North Vacuum (Abo) Field,  
Unit "O", 460' FSL and 1680' FEL of Section 2, T-17-S, R-34-E, Lea County,  
New Mexico.

Dear Sir:

We have been duly notified of the intent of Sage Energy Company to drill the captioned well. We have no objection to the location as set forth in the New Mexico Conservation Commission Form C-101 dated March 21, 1985.



---

Peyton Yates, President  
Yates Drilling Company

W A I V E R

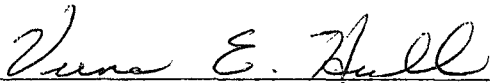
Sage Energy Company  
P. O. Drawer 3068  
Midland, Texas 79702

and  
New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

Re: Sage Energy Company Cities Service State No. 3, North Vacuum (Abo) Field,  
Unit "O", 460' FSL and 1680' FEL of Section 2, T-17-S, R-34-E, Lea County,  
New Mexico.

Dear Sir:

We have been duly notified of the intent of Sage Energy Company to drill the  
captioned well. We have no objection to the location as set forth in the  
New Mexico Conservation Commission Form C-101 dated March 21, 1985.



Marathon Oil Company

MIDLAND DISTRICT  
RECEIVED  
MAR 26 1985

W A I V E R

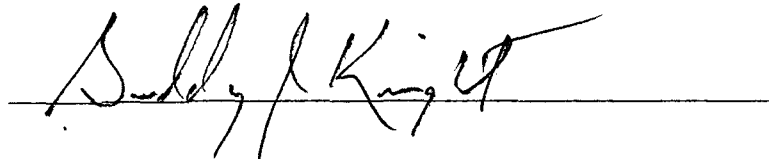
Sage Energy Company  
P. O. Drawer 3068  
Midland, Texas 79702

and  
New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

Re: Sage Energy Company Cities Service State No. 3, North Vacuum (Abo) Field,  
Unit "O", 460' FSL and 1680' FEL of Section 2, T-17-S, R-34-E, Lea County,  
New Mexico.

Dear Sir:

We have been duly notified of the intent of Sage Energy Company to drill the  
captioned well. We have no objection to the location as set forth in the  
New Mexico Conservation Commission Form C-101 dated March 21, 1985.



**GRACE PETROLEUM CORP.**  
**P. O. DRAWER 2358**  
**MIDLAND, TEXAS 79702**

W A I V E R

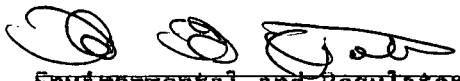
Sage Energy Company  
P. O. Drawer 3068  
Midland, Texas 79702

and  
New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

Re: Sage Energy Company Cities Service State No. 3, North Vacuum (Abo) Field,  
Unit "O", 460' FSL and 1680' FEL of Section 2, T-17-S, R-34-E, Lea County,  
New Mexico.

Dear Sir:

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captioned well. We have no objection to the location as set forth in the  
New Mexico Conservation Commission Form C-101 dated March 21, 1985.

 (G. E. Tate)  
Environmental and Regulatory Manager  
Mobil Producing Texas and New Mexico Inc.

4/17/85

*David*

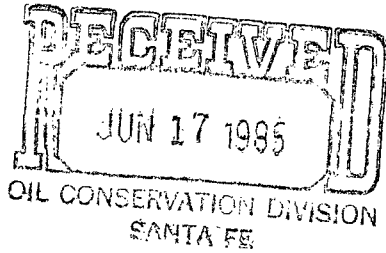
**SAGE ENERGY COMPANY**

P. O. DRAWER 3068

MIDLAND, TEXAS 79702

915/683-5271

April 24, 1985



New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

Re: Cities State No. 3, North Vacuum Abo Field, Lea County, New Mexico

Attn: Jerry Sexton

Dear Sir:

Enclosed for your use and information are original signed waivers pursuant to the referenced well.

Very truly yours,

*Frances Holzgraf*

Frances Holzgraf  
Production Department Clerk

encls.

W A I V E R

Sage Energy Company  
P. O. Drawer 3068  
Midland, Texas 79702.


and

New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

Re: Sage Energy Company Cities Service State No. 3, North Vacuum (Abo) Field,  
Unit "O", 460' FSL and 1680' FEL of Section 2, T-17-S, R-34-E, Lea County,  
New Mexico.

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 (G. E. Tate)  
Environmental and Regulatory Manager  
Mobil Producing Texas and New Mexico Inc.

4/17/85



W A I V E R

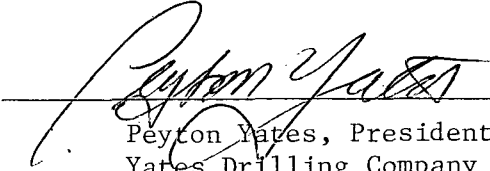
Sage Energy Company  
P. O. Drawer 3068  
Midland, Texas 79702

and  
New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

Re: Sage Energy Company Cities Service State No. 3, North Vacuum (Abo) Field,  
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New Mexico.

Dear Sir:

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\_\_\_\_\_  
Peyton Yates, President  
Yates Drilling Company

W A I V E R

Sage Energy Company  
P. O. Drawer 3068  
Midland, Texas 79702  
and  
New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

Re: Sage Energy Company Cities Service State No. 3, North Vacuum (Abo) Field,  
Unit "O", 460' FSL and 1680' FEL of Section 2, T-17-S, R-34-E, Lea County,  
New Mexico.

Dear Sir:

We have been duly notified of the intent of Sage Energy Company to drill the  
captioned well. We have no objection to the location as set forth in the  
New Mexico Conservation Commission Form C-101 dated March 21, 1985.

Gene E. Hull

Marathon Oil Company

MIDLAND DISTRICT  
RECEIVED

MAR 26 1985

W A I V E R

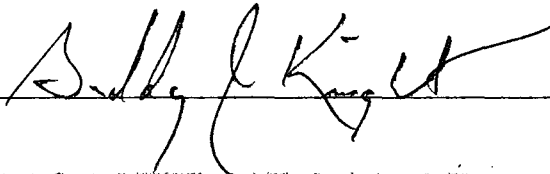
Sage Energy Company  
P. O. Drawer 3068  
Midland, Texas 79702

and  
New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

Re: Sage Energy Company Cities Service State No. 3, North Vacuum (Abo) Field,  
Unit "O", 460' FSL and 1680' FEL of Section 2, T-17-S, R-34-E, Lea County,  
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Dear Sir:

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New Mexico Conservation Commission Form C-101 dated March 21, 1985.



**GRACE PETROLEUM CORP.**  
**P. O. DRAWER 2358**  
**MIDLAND, TEXAS 79702**

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-1  
Supersedes L-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

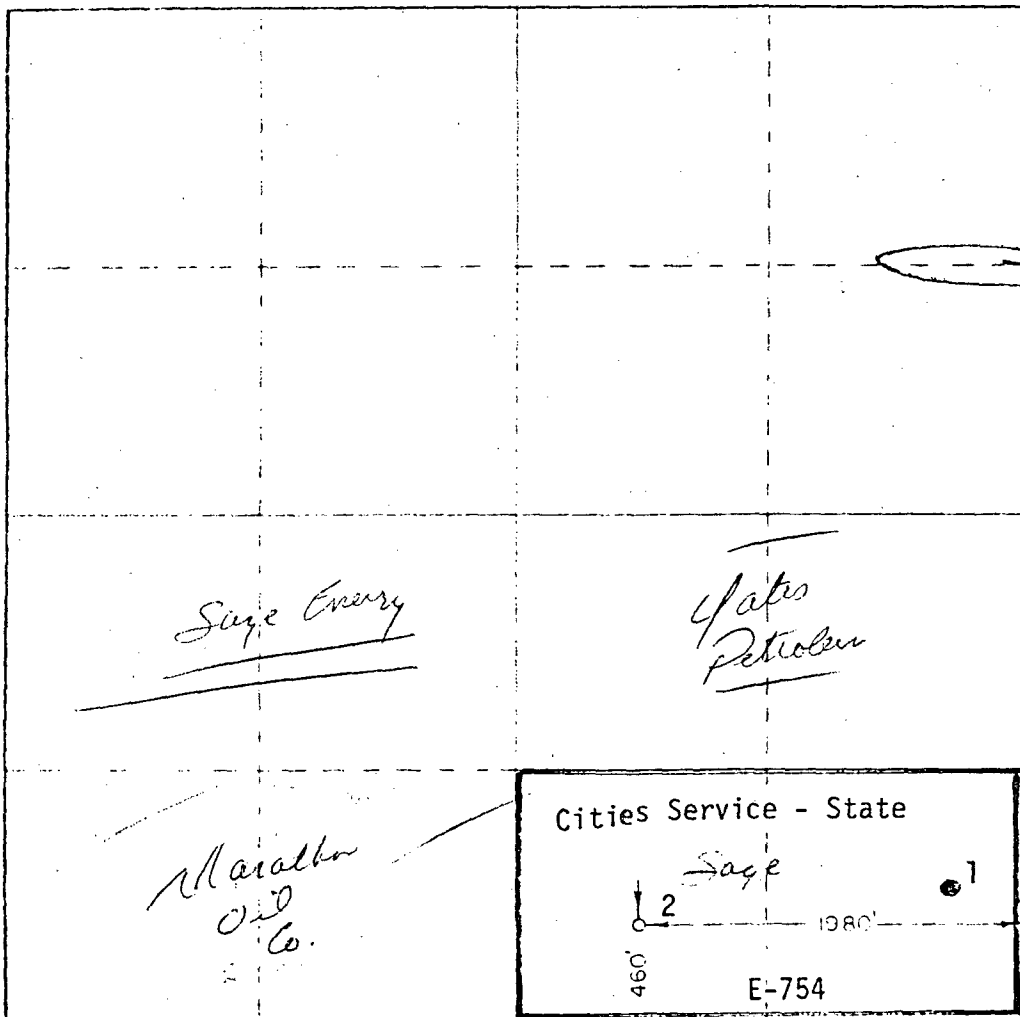
K. Amini			Cities Service State			Well No. 2		
O	2	17 South	34 East	Lea				
460		South		1980		East		
4048.3		ABO		North Vacuum ABO			Dedicated Acreage: 80	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary) \_\_\_\_\_

No allowance will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

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

*[Signature]*

Comptroller

K. K. Amini

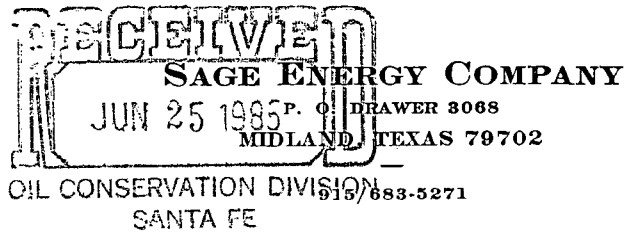
August 25, 1975

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 are true and correct to the best of my knowledge and belief.

*[Signature]*  
August 21, 1975

Registered Professional Engineer and Professional Surveyor

*[Signature]*  
676



*File*

*NSC-2068*

June 20, 1985

New Mexico Oil & Gas Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attn: David Catnek

Re: Cities Service State Lease, Well No. 3, Lea County, New Mexico

Dear David:

Enclosed for your use and information is a copy of our land map, with the referenced lease outlined and showing the offset operators. If additional information is required, please call the undersigned.

Your approval of our request to produced the No. 3 well will be appreciated.

Very truly yours,

*Frances Holzgraf*

Frances Holzgraf  
Production Clerk



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

5a. Indicate Type of Lease

State ☒ Fee ☐

5. State Oil &amp; Gas Lease No.

E 754

## 1a. TYPE OF WELL

## b. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

## 2. Name of Operator

Sage Energy Company

## 3. Address of Operator

P. O. Drawer 3068, Midland, Texas 79702

## 4. Location of Well

UNIT LETTER 0 LOCATED 460' FEET FROM THE South LINE AND 1680' FEET FROMTHE East LINE OF SEC. 2 TWP. 17S RGE. 34E HMPM

15. Date Spudded 3-26-85 16. Date T.D. Reached 4-23-85 17. Date Compl. (Ready to Prod.) 6-3-85 18. Elevations (DF, RKB, RT, GR, etc.) 4045.5 GL 19. Elev. Casinghead

20. Total Depth 8789' 21. Plug Back T.D. 8769' 22. If Multiple Compl., How Many No 23. Intervals Drilled By Rotary Tools Cable Tools X

## 24. Producing Interval(s), of this completion — Top, Bottom, Name

Abo 8626 to 8642

25. Was Directional Survey Made

yes

## 26. Type Electric and Other Logs Run

Compensated Neutron Gamma Ray

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
12 3/4"	34#	435'	15"	250 sxs Class "C"	
7"	24#	4903'	8 3/4"	1400 sxs Class "C"	
4 1/2"	11.60#	8789'	6"	180 sxs Class "H"	

## 29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8"	8648'	none

## 30. TUBING RECORD

## 31. Perforation Record (Interval, size and number)

8626 to 8642

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

DEPTH INTERVAL 8626' - 8642' AMOUNT AND KIND MATERIAL USED 10,000 gals 15% NE FE acid

## 33. PRODUCTION

Date First Production 6-4-85	Production Method (Flowing, gas lift, pumping — Size and type pump) pump 1 1/4 X 22'					Well Status (Prod. or Shut-in) producing	
Date of Test 6-5-84	Hours Tested 24	Choke Size NA	Prod'n. For Test Period	Oil — Bbl. 35	Gas — MCF 60	Water — Bbl. TSTM	Gas — Oil Ratio 1714
Flow Tubing Press.	Casing Pressure 50#	Calculated 24-Hour Rate	Oil — Bbl. 35	Gas — MCF 60	Water — Bbl. TSTM	Oil Gravity — API (Corr.) 35	

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

Sold

Test Witnessed By

## 35. List of Attachments

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 Francis HolygroveTITLE Production ClerkDATE June 5, 1985

This form is to be filed with the appropriate District Office of the Commission 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 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 _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____ 8564'	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
8564	8729	225	Abo				



SAFETY FILE 4-5- ID OFFICE TRANSPORTER OIL GAS OPERATOR PRORATION OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104 Supersedes Old C-104 and C-11 Effective 1-1-65

Operator Sage Energy Company Address P. O. Drawer 3068, Midland, Texas 79702 Reason(s) for filing (Check proper box) New Well [X] Change In Transporter of: Oil [ ] Dry Gas [ ] Recompletion [ ] Casinghead Gas [ ] Condensate [ ] Change In Ownership [ ] Other (Please explain)

If change of ownership give name and address of previous owner

DESCRIPTION OF WELL AND LEASE

Lease Name Cities Service State Well No. 3 Pool Name, Including Formation North Vacuum ABO Kind of Lease State Lease No. E-754 Location Unit Letter O 460' Feet From The South Line and 1680' Feet From The East Line of Section 2 Township 17S Range 34E NMPM Lea County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [X] or Condensate [ ] Address (Give address to which approved copy of this form is to be sent) Mobil Pipeline Company P. O. Box 1073, Midland, Texas 79702 Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [ ] Address (Give address to which approved copy of this form is to be sent) Phillips Petroleum Company Bartlesville, Oklahoma 74004 If well produces oil or liquids, give location of tanks. Unit 0 Sec. 2 Twp. 17S Rge. 34E Is gas actually connected? yes When

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

COMPLETION DATA

Designate Type of Completion - (X) Oil Well [X] Gas Well [ ] New Well [3] Workover [ ] Deepen [ ] Plug Back [ ] Same Res'v. [ ] Diff. Res'v. [ ] Date Spudded 3-26-85 Date Compl. Ready to Prod. 6-3-85 Total Depth 8789 P.B.T.D. 8769 Elevations (DF, RKB, RT, GR, etc.) 4045.5 GL Name of Producing Formation Abo Top Oil/Gas Pay 8564 Tubing Depth 3648 Perforations 8626 - 8642 Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
15"	12 3/4"	435'	250 sxs Class "C"
8 3/4"	7"	4903'	400 sxs Class "C"
6"	4 1/2"	8789'	180 sxs Class "H"

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 Tanks 6-4-85 Date of Test 6-5-85 Producing Method (Flow, pump, gas lift, etc.) pumping Length of Test 24 Tubing Pressure -0- Casing Pressure 50# Choke Size NA Actual Prod. During Test 35 Oil-Bbls. 35 Water-Bbls. TSTM Gas-MCF 60

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

CERTIFICATE OF COMPLIANCE

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

Francis Holyer (Signature) Production Clerk (Title) June 5, 1985 (Date)

OIL CONSERVATION COMMISSION

APPROVED \_\_\_\_\_, 19\_\_\_\_ BY \_\_\_\_\_ TITLE \_\_\_\_\_

This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111. All sections of this form must be filled out completely for allowable on new and recompleted wells. Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

OPERATOR Sage Energy Company ADDRESS 700 N. St. Mary's, Suite 1990  
 FIELD: \_\_\_\_\_ LEASE San Antonio, Texas 78205 WELL NO. 3  
 LOCATION: \_\_\_\_\_

DEVIATION RECORD

<u>DEPTH</u>	<u>DEGREES</u>	<u>DEPTH</u>	<u>DEGREES</u>	<u>DEPTH</u>	<u>DEGREES</u>
435	1/2	5131	1/4		
640	3/4	5421	1/4		
960	3/4	5801	1		
1135	3/4	6125	2-1/2		
1502	3/4	6335	2-1/2		
1827	1/2	6561	1-1/4		
2184	1-1/4	6749	2		
2340	1-1/4	6905	1-1/4		
2825	1	7348	1		
3134	3/4	7588	1-1/4		
3425	1/2	7834	1		
3696	1/2	8281	1/2		
4014	1/4	8647	1		
4409	3/4	8751	1		
4660	3/4				
4900	3/4				

Certification of personal knowledge of Diviation Records:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information is true and complete.

T. Lawson

Signature

Sterling Drilling Company  
Company

STATE OF TEXAS

COUNTY OF MIDLAND

BEFORE ME, the undersigned authority, on this day personally appeared T.M. Lawson, known to me to be the person whose name is subscribed to the forgoing instrument, and who after being duly sworn, on oath states that he is acting at the direction and on behalf of the well identified in this instrument and that such well was not intentionally deviated from the vertical.

Sworn and subscribed to before me, this the 29th day of April.

F. Holzgraf  
F. Holzgraf, Notary Public in and  
for Midland County, Texas

My Commission Expires