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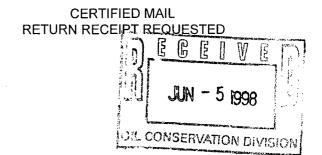
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ENRON D

Enron Oil & Gas Company P.O. Box 2267 Midland, TX 79702 (915) 686-3600

June 2, 1998

Mr. Michael L. Stogner Oil Conservation Division New Mexico Department of Energy Minerals & Natural Resources 2040 South Pacheco Santa Fe, New Mexico 87505



Re: Application of Enron Oil & Gas Company for Administrative Approval of an Unorthodox Gas Well

Dear Mr. Stogner:

Enclosed please find the Application of Enron Oil & Gas Company for administrative approval of an Unorthodox Location for the drilling of Enron's Enron "9" State Com No. 2 as a Wolfcamp gas well located 1000' FNL and 1100' FEL, Section 9, T-24-S, R-33-E, N.M.P.M., Lea County, New Mexico. The planned spacing unit for this test will be the N/2 of this Section 9.

By separate letter (copy attached) Enron has sent notification via certified return receipt mail to the affected parties by submitting a copy of this application and a plat required by OCD rules. A sworn statement attesting to this notification is hereby enclosed for your files.

Your due consideration to this Application is most appreciated. Should you have any questions, please feel free to call me at 915/686-3758.

Sincerely,

ENRON OIL & GAS COMPANY

Patrick J. Tower Project Landman

Enclosures

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BEFORE THE OIL CONSERVATION DIVISION NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES

IN THE MATTER OF THE APPLICATION OF ENRON OIL & GAS COMPANY FOR ADMINISTRATIVE APPROVAL OF AN UNORTHODOX WELL LOCATION FOR ITS ENRON "9" STATE COM NO. 2 WOLFCAMP WELL LOCATED 1000 FEET FROM THE NORTH LINE AND 1100 FEET FROM THE EAST LINE OF SECTION 9, TOWNSHIP 24 SOUTH, RANGE 33 EAST, LEA COUNTY, NEW MEXICO.

CASE NO.

<u>AFFIDAVIT</u>

STATE OF TEXAS § § ss. COUNTY OF MIDLAND §

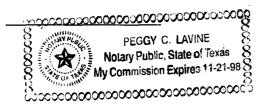
Patrick J. Tower, authorized representative of Enron Oil & Gas Company ("Enron"), the Applicant herein, being first duly sworn, upon oath, states that on or before this application was submitted to the New Mexico Oil Conservation Division, and in accordance with the notice provisions of Division Rule 104, Enron has sent notification to the affected parties by submitting a copy of the application, including a copy of the plat described in Rule 104.F(3) by certified or registered mail, return receipt, in accordance with Rule 1207 (A)(5) advising them that if they have an objection it must be filed in writing within twenty (20) days from the date notice was sent.

Your

SUBSCRIBED AND SWORN to before me this 2nd day of June, 1998.

294 C. Lune

My Commission Expires:





Enron Oil & Gas Company P.O. Box 2267 Midland, TX 79702 (915) 686-3600

June 1, 1998

Mr. Michael Stogner New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: Application for Unorthodox Location Drilling Permit Enron "9" State Com No. 2 Well Section 9-24S-33E N.M.P.M. Lea County, New Mexico

Gentlemen:

Santa Fe Energy Resources, Inc., as an offset operator or owner of operating rights, has been advised of Enron Oil & Gas Company's intent to drill the above referenced Wolfcamp well at a location of 1000' FNL & 1100' FEL of Section 9-24S-33E, Lea County, New Mexico.

This letter is to advise that Santa Fe Energy Resources, Inc., has no objection to the granting of a permit to drill at this location and hereby waives objection and notice of hearing on this application.

Sincerely,

ENRON OIL & GAS COMPANY

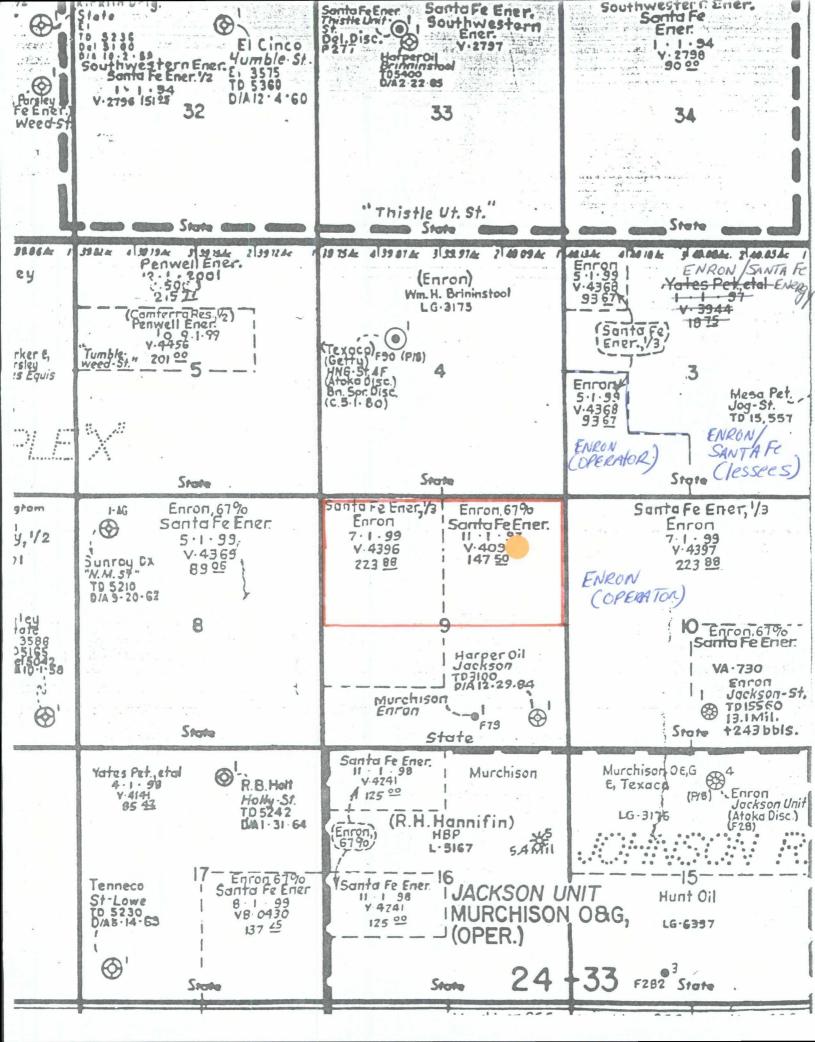
Patrick J. **f**/ower Project Landman

SANTA FE ENERGY RESOURCES, INC.

By:	 	
Title:		
Date:		

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Natural gas. Electricity. Endless possibilities.TM



Geologic Discussion

Enron Oil & Gas Company is seeking approval for an unorthodox location in the Johnson Ranch area Lea County, New Mexico, based on geological and geophysical reasons. The proposed unorthodox location for the Enron "9" State Com #2 (N/2 spacing unit / 1000 FNL & 1100 FEL Section 9-T24S-R33E) is a northeast offset to the Enron State Com "9" #1 which was drilled and completed in January 1998 by Murchison Oil & Gas (reference Exhibit 2). The Enron State Com "9" #1 was completed in the Wolfcamp for approximately 2.5 MMcfgpd & 370 Bcpd. The proposed location is within the Johnson Ranch (Wolfcamp) Field, which currently has eight producers. Production in the Johnson Ranch Field (reference Exhibit 1) is from three detrital carbonate zones in the Lower Wolfcamp. Enron Oil & Gas has designated these pays the Upper, Middle and Lower zones.

The Enron "9" State Com #2 is targeting the Upper Wolfcamp detrital carbonate zone, which is productive in the Enron State Com "9" #1 and is present but non-productive in the Getty, HNG State 4-F #1 (1980 FNL & 1650 FWL Section 4-T24S-R33E). Enron's mapping in the area indicates the productive Upper detrital zone trends NE to SW through the field area into a local Wolfcamp sub-basin (reference Exhibit 2).

The HNG 4-F well has a thick Upper detrital zone (reference Exhibit 1), but is located within an interpreted fault zone (reference Exhibit 3) and consequently lacks the overpressuring needed to be a commercial producer. The Wolfcamp was DST'd from 13,188'-300' during drilling operations. Although there was a strong blow at surface no gas flow was measured and the IFP and FFP was 1,684-1,998#. Recovery was 3,300' water cushion and 1,000' of mud. The ISIP and FSIP of 7,396# and 7,354# respectively, is of special interest because the Wolfcamp producers in this area have original BHP of approximately 10,500#. The Wolfcamp was perforated from 13,250'-337' during recompletion operations. After a total of 1,000 gallons acid stimulation the zone failed to flow gas and was abandoned. A regional study indicates that the over-pressured reservoirs produce commercial quantities of gas yet the normal pressured reservoir produce poorly if at all. We believe the lack of over-pressuring in the 4-F well may have been due to leakage along the fault plane.

Geologic Discussion Page 2

It is Enron Oil & Gas concern for a bounding northwest to southeast trending fault system to the west of the proposed location which has led us to request an unorthodox location (reference Exhibit 3 & 4). This fault system appears to have a wrench component adding to its' complexity (reference Exhibit 4). Evidence for the presence of this western fault zone includes terminations of seismic reflectors, apparent offset of the Atoka Carbonate reflector and seismic character change evidenced in the Strawn and several other reflectors (reference Exhibit 4).

Exhibit 1 is a type log for the area Exhibit 2 is an isopach of the Upper Johnson Ranch Wolfcamp Pay Exhibit 3 is an integrated structure map on the Pennsylvanian Marker Exhibit 4 is an east-west seismic line through the proposed location.

INTENTIONAL OMISSIONS

The following document(s) have been intentionally omitted from this file due to the indicated reasons.

NSL 4055 FILE #

DESCRIPTION OF OMITTED DOCUMENTS

OMITTED DOCUMENT

REASON OMITTED

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FAX

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P. O. BOX 2267 4000 N. BIG SPRING ST., SUITE 500 MIDLAND, TEXAS 79705 (915) 686-3600

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TO:	Mike Stogner		COMPANY:	·····
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FROM:	Patrick Tower			915-686-3758
			FAX NO:	915 - 686 - 3773
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June 5, 199	8-		LÂN	D	D	<u>PT.</u>	,	

Enron Oil & Gas Company P.O. Box 2267 Midland, Texas 79702

ATTN: Patrick J. Tower

Re: Enron "9" State Com #2 Sec. 9, T-24-S, R-33-E Lea County, New Mexico SFERI Cont. #NM-30,227-002 Cut-Throat Prospect - #NM-0399

c = cc

Gentlemen:

Enclosed please find our executed Waiver for the unorthodox location on the above captioned well. This waiver has been executed on behalf of Santa Fe by our Attorney-in-Fact, R.I. Arnold. Should you need anything further, please contact me at 686-6677.

Yours very truly,

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Meg Muhlinghause Senior Landman

MM/efw 1 Encl a/s

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EWOR2575

Central Division 550 W. Texas, Suite 1330 Midland, Texas 79701 915/687-3551



Enron Oil & Gas Company P.O. Box 2267 Midland, TX 79702 (915) 686-3600

June 1, 1998

CERTIFIED MAIL

Mr. Michael Stogner New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: Application for Unorthodox Location Drilling Permit Enron "9" State Com No. 2 Well Section 9-24S-33E N.M.P.M. Lea County, New Mexico

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Gentlemen:

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This letter is to advise that Santa Fe Energy Resources, Inc., has no objection to the granting of a permit to drill at this location and hereby waives objection and notice of hearing on this application.

Sincerely,

ENRON OIL & GAS COMPANY

Kul a

Patrick J. Tower Project Landman

SANTA FE ENERGY RESOURCES, INC.	
By: Kill	APPROVED
Title: R. I. Arnold, Attorney-in-Fact	<u> </u>
Date:(0/5/98	

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** TOTAL PAGE.003 **

TRANSMITTAL COVER SHEET

OIL CONSERVATION DIVISION ENGINEERING BUREAU (505) 827-7131 (OFFICE) (505) 827-1389 (FAX)

PLEASE DELIVER THIS FAX TO:

TO:	hinda Johnston	
FROM:	Stogner	
SUBJECT:	NSL-4055	
DATE:	6-24-98	·
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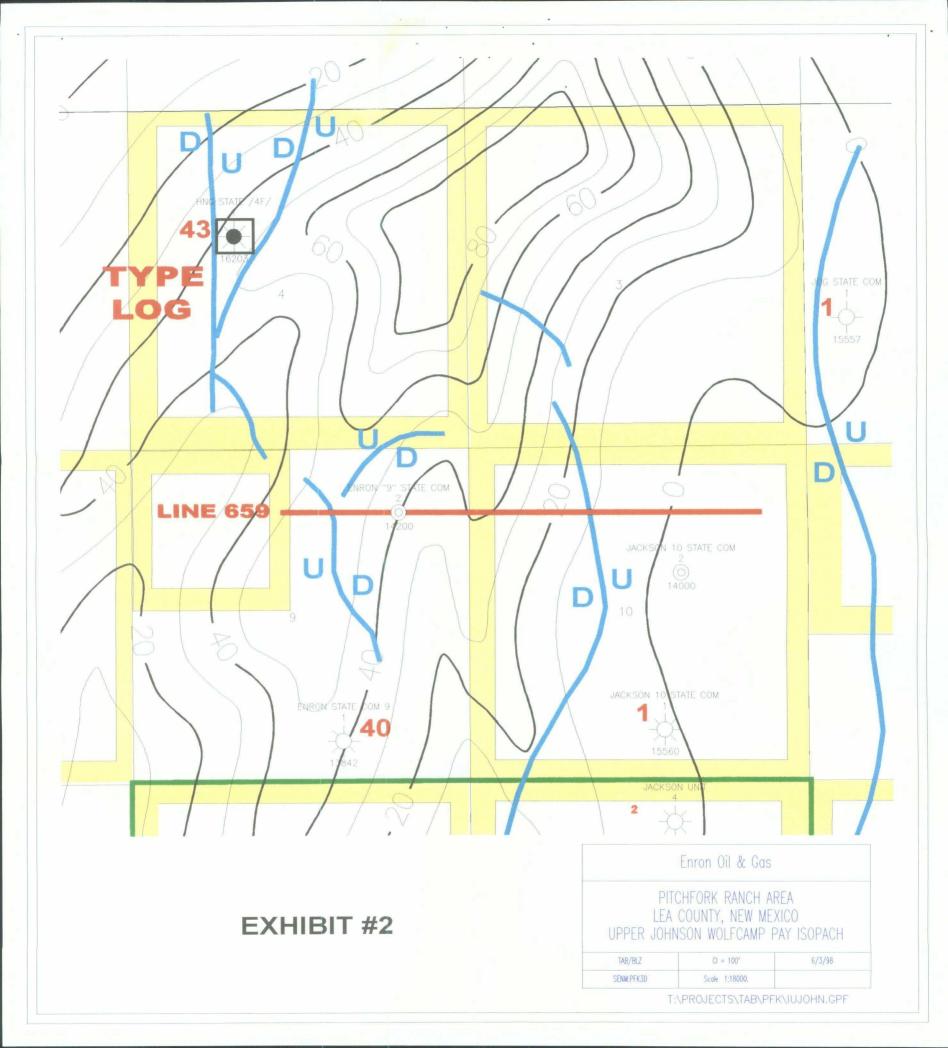
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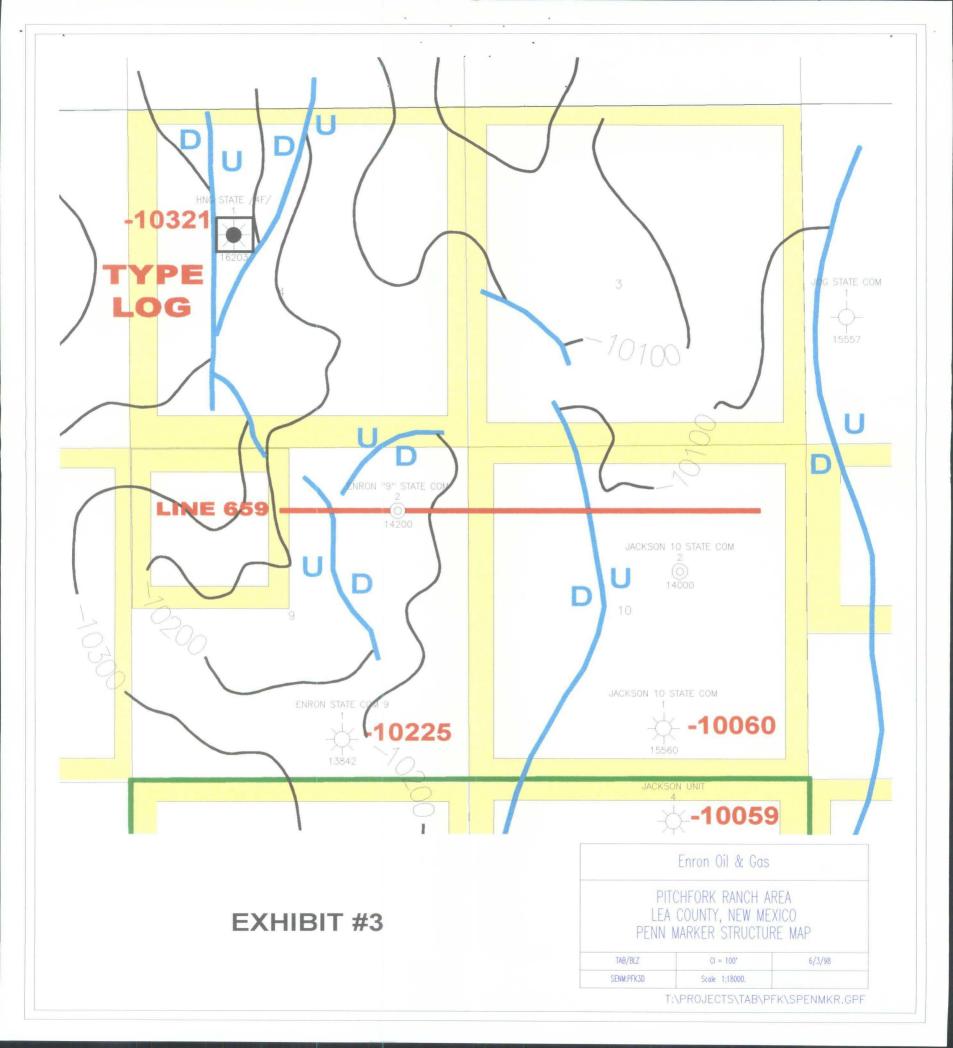
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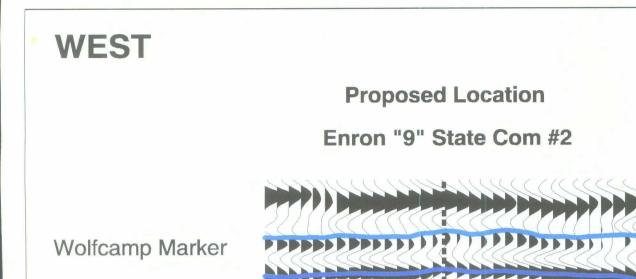
TO:	Marie Peterson	
FROM:	Sognal	
SUBJECT:	N51-4055	
DATE:	6-24-98	
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