

Case Number

4751

Application

Transcripts

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
CONFERENCE HALL, STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO
June 28, 1972

EXAMINER HEARING

IN THE MATTER OF:

Application of Sun Oil Company
for pool extension.

CASE NO. 4751

BEFORE: Elvis A. Utz
Examiner

TRANSCRIPT OF HEARING

dearnley, meier & mc cormick

206 SIMMS BLDG., P.O. BOX 1092, PHONE 243-6691, ALBUQUERQUE, NEW MEXICO 87103
1216 FIRST NATIONAL BANK BLDG. EAST ALBUQUERQUE, NEW MEXICO 87108

dearnley, meier & mc cormick

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1 MR. UTZ: Case 4751.

2 MR. HATCH: Application of Sun Oil Company for
3 pool extension, Lea County, New Mexico.

4 MR. HINKLE: Clarence Hinkle of Hinkle, Bondurant
5 & Christy, Roswell, New Mexico, appearing on behalf of
6 Sun Oil Company. We have one witness and three Exhibits.

7 * * * * *

8 EDWARD V. STINE,
9 was called as a witness and, after being duly sworn, testified
10 as follows:

11 DIRECT EXAMINATION

12 BY MR. HINKLE:

13 Q State your name, residence and by whom you are employed,
14 please?

15 A Edward V. Stine, I live in Dallas and I am employed by
16 Sun Oil Company.

17 Q What is your position?

18 A I am a senior production geologist out of the Dallas
19 Region in charge of the western area.

20 Q Have you previously testified before the New Mexico
21 Oil Conservation Commission?

22 A Yes, sir.

23 Q And had your qualifications as a geologist made a matter
24 of record?

25 A Yes, sir.

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1 Q Your qualifications are a matter of record with this
2 Commission?

3 A Yes, sir.

4 Q Have you made a study of the area which is the subject
5 of the Application in this case?

6 A Yes, sir.

7 Q Are you familiar with the Application of Sun Oil Company
8 in this Case?

9 A Yes, sir.

10 Q What is Sun Oil Company seeking to accomplish by their
11 Application in this Case?

12 A We are seeking to include Sections 15 and 16 of Township
13 19 South, Range 32 East into the present confines of
14 the Lusk-Morrow gas field.

15 Q Have you prepared or has there been prepared under
16 your direction, certain Exhibits for introduction in
17 this case?

18 Q Are they numbered Exhibits 1, 2, and 3?

19 A Yes, sir.

20 Q Referring you to Exhibit Number 1, would you explain
21 what it is and what it shows?

22 A Exhibit 1 is an ownership map of this portion of Lea
23 County, New Mexico. The scale of the map is 1 to 4000
24 and the yellow coloring designates the acreage that
25 Sun Oil Company has under control now. You will notice

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1 that the green hash lines do represent the present
2 limits of the west Lusk-Morrow field and the purple
3 and blue hash lines represent the affected Section.

4 Q Those are the horizontal limits that you seek to extend
5 through your application?

6 A Yes, sir.

7 Q I refer you to Exhibit Number 2, would you explain what
8 that shows -- instead of the Lusk-Morrow it should show
9 the west Lusk-Morrow?

10 A Yes, sir, the west Lusk-Morrow.

11 MR. HINKLE: We called it the Lusk-Morrow in our
12 Application.

13 MR. UTZ: You sure did. We will call it whatever
14 it is.

15 MR. HINKLE: According to the Application, it is
16 the Lusk-Morrow.

17 MR. HATCH: This says (indicating) Lusk, east Lusk
18 and south Lusk.

19 MR. UTZ: Let the record show that there is some
20 confusion as to whether it is the Lusk or the west Lusk and
21 the Commission records will speak for themselves and we will
22 call it the proper name.

23 MR. HATCH: It is the area that is shaded in green
24 that you are seeking to extend?

25 THE WITNESS: Yes.

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1 MR. UTZ: It is the area between the green outline
2 in Sections 18, 19, 20, and 29. Between the green outlines
3 in the four Sections just mentioned and it is the blue
4 outline that you seek to have extended?

5 THE WITNESS: We also want to extend Section 15
6 which would be outside the effective acreage.

7 Q (By Mr. Hinkle) Where is your discovery well?

8 A Our Sun Number 1 Federal located 1980 feet from the
9 south and 660 feet from the west of Section 15,
10 Township 19 South, Range 32 East.

11 Q And that is the area which you want to be included in
12 this pool?

13 A Yes.

14 Q Now, referring you to Exhibit 2, will you explain what
15 that shows?

16 A Exhibit 2 is a structural interpretation of the Morrow
17 sand. The map is on a scale of one inch to 2000 feet.
18 You will notice in Section 15, that the Sun Number 1
19 Sherman Federal which was drilled to a total depth of
20 14,330 feet and this particular depth puts it into the
21 Devonian formation, recorded no show of either oil or
22 gas. So the well was plugged back and seven and 5/8ths
23 inch casing set at 13,342 feet. The Morrow formation
24 was perforated at 12,241 feet and on May 2nd, a
25 calculation showed 2,331 MCF of gas per day.

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1 Now, the structural interpretation shows the
2 area dipping to the west with the Sun Well being down
3 on the eastern flank of the indicated structure. You
4 will note the Lusk-Morrow field to the west.

5 Q Is this production from the Morrow in the area dependent
6 upon structure?

7 A No, it is stratigraphic in nature.

8 Q So your structure didn't really mean anything as far
9 as production is concerned?

10 A No, sir.

11 Q Now, you have indicated on Exhibit 2 a cross-section,
12 A to A', is that your next Exhibit?

13 A Yes, it is.

14 Q Refer to Exhibit 3 and tell us what that is.

15 A Exhibit 3 starts at A' in the center portion of the
16 field, and this is in Section 19, and it moves across
17 and ties into our Sun Number 1 Federal. The top of the
18 Strawn line is indicated with a red line and all of the
19 zones were drill stem tested.

20 This will show that this particular well (indicating)
21 is producing from two different intervals.

22 Q It is not a uniform zone?

23 A The overall interval is around 900 feet but the actual
24 porosity and permeability development varies from well
25 to well.

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1 Q In your opinion, would the extension of this pool
2 to include Sections 15 and 16 be in the interest of
3 conservation and the prevention of waste and tend to
4 protect correlative rights?

5 A Yes, sir.

6 Q Is there anything else which you might want to call to
7 the attention of the Commission?

8 A No, sir.

9 MR. HINKLE: I would like to offer Exhibits 1,
10 2 and 3.

11 MR. UTZ: Exhibits 1, 2, and 3 will be entered into
12 the record of this Case without objection.

13 (Whereupon, Applicant's Exhibits 1 through 3
14 were entered in evidence.)

15 MR. HINKLE: That is all the Direct Examination
16 we have.

17 MR. UTZ: Any questions?

18 (No response.)

19 MR. UTZ: The witness may be excused.

20 (Witness excused.)

21 MR. UTZ: Any statements in this Case?

22 (No response.)

23 MR. UTZ: The case will be taken under
24 advisement.
25

dearnley, meier & mc cormick

209 SIMMS BLDG., P.O. BOX 1092, PHONE 243-6191, ALBUQUERQUE, NEW MEXICO 87103
1216 FIRST NATIONAL BANK BLDG. EAST, ALBUQUERQUE, NEW MEXICO 87106

1 STATE OF NEW MEXICO)
2) ss
3 COUNTY OF BERNALILLO)

4 I, RICHARD E. MCCORMICK, a Certified Shorthand Reporter,
5 in and for the County of Bernalillo, State of New Mexico,
6 do hereby certify that the foregoing and attached Transcript
7 of Hearing before the New Mexico Oil Conservation Commission
8 was reported by me; and that the same is a true and correct
9 record of the said proceedings to the best of my knowledge,
10 skill and ability.

11 Richard E. McCormick
12 CERTIFIED SHORTHAND REPORTER
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26 I hereby certify that the foregoing is
27 a true and correct record of the proceedings in
28 the hearing held on Case No. 4751,
29 heard by me on January 28, 1972.
30 Thomas E. Meier, Examiner
31 New Mexico Oil Conservation Commission

I N D E XWITNESS:PAGE

EDWARD V. STINE

Direct Examination by Mr. Hinkle

3

E X H I B I T SAPPLICANT'SOFFEREDADMITTED

Sun Oil Company

Exhibit Number 1

4

8

Exhibit Number 2

6

8

Exhibit Number 3

7

8

dearnley, meier & mc cormick

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OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

**GOVERNOR
BRUCE KING
CHAIRMAN**

**LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER**

**STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR**

July 17, 1972

Mr. Clarence Hinkle
Hinkle, Bondurant, Cox & Eaton
Attorneys at Law
Post Office Box 10
Roswell, New Mexico 88201

Re: Case No. 4751
Order No. R-4339
Applicant:

SUN OIL COMPANY

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC _____ x
Artesia OCC _____
Aztec OCC _____

Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 4751
Order No. R-4339

NOMENCLATURE

APPLICATION OF SUN OIL
COMPANY FOR POOL EXTENSION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 28, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 17th day of July, 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Sun Oil Company, seeks the extension of the horizontal limits of the Lusk-Morrow Gas Pool, Lea County, New Mexico, to include all of Sections 15 and 16, Township 19 South, Range 32 East, NMPM.

(3) That the applicant's Shearn Federal Well No. 1, located 1980 feet from the South line and 660 feet from the West line of the above-described Section 15 has been completed in the common source of supply that is designated as the Lusk-Morrow Gas Pool.

(4) That the subject well was drilled at a standard location for an undesignated Morrow gas pool.

(5) That Sections 16 and 21 are situated between the present horizontal limits of the Lusk-Morrow Gas Pool and the location of the above-described Shearn Federal Well No. 1; that said Sections 16 and 21 can reasonably be presumed productive of gas from the Lusk-Morrow Gas Pool.

-2-

CASE NO. 4751

Order No. R-4339

(6) That in order to prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells and to otherwise prevent waste and protect correlative rights, the horizontal limits of the Lusk-Morrow Gas Pool should be extended to include all of Sections 15, 16, and 21 of Township 19 South, Range 32 East, Lea County, New Mexico, and an unorthodox location in said pool should be approved for the subject well.

IT IS THEREFORE ORDERED:

(1) That the Lusk-Morrow Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM

Section 15: All

Section 16: All

Section 21: All

(2) That an unorthodox location is hereby approved for the Sun Oil Company Shearn Federal Well No. 1, located 1980 feet from the South line and 660 feet from the West line of Section 15, Township 19 South, Range 32 East, Lusk-Morrow Gas Pool, Lea County, New Mexico.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


Bruce King
BRUCE KING, Chairman

Alex J. Armijo
ALEX J. ARMIJO, Member

A. L. Porter, Jr.
A. L. PORTER, Jr., Member & Secretary

S E A L

dr/

Case 4751

Decd. 6-28-72

Rev. 7-7-74

Grant same attention for
the Lusk-Monow Gas pool.
as follows;

195 32 E.

Sec. ~~16~~ 15, 16, 21

Thos. D. M.

Lusk Pool rules will
of course be applicable to
new acre which has purpose
of case. E. H.

- CASE 4748: Application of Pubco Petroleum Corporation for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Humble City-Strawn Pool, Lea County, New Mexico, including provisions for 160-acre proration units and wells to be located within 150 feet of the center of any quarter-quarter section.
- CASE 4749: Application of Harding Oil Company for a discovery allowable and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Humble City-Strawn Pool, Lea County, New Mexico, including a provision for 80-acre proration units and for the assignment of an oil discovery allowable to its E. D. Shipp Well No. 1 located in Unit K of Section 11, Township 17 South, Range 37 East.
- CASE 4750: Application of Cities Service Oil Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a producing well in its Southeast Maljamar Grayburg-San Andres Unit Waterflood Project Area at an unorthodox location 1155 feet from the South line and 1385 feet from the East line of Section 29, Township 17 South, Range 33 East, Maljamar Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby additional injection and production wells within the project area at unorthodox locations may be approved administratively.
- CASE 4751: Application of Sun Oil Company for pool extension, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the extension of the horizontal limits of the Lusk-Morrow Gas Pool, Lea County, New Mexico to include all of Sections 15 and 16 of Township 19-South, Range 32 East.
- CASE 4752: Application of Claude C. Kennedy for permission to flare casinghead gas, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-4070, to flare casinghead gas produced by his BSK Edna Well No. 1 located in Unit F of Section 8, Township 17 North, Range 8 West, Lone Pine Dakota "D" Pool, McKinley County, New Mexico.

LAW OFFICES

HINKLE, BONDURANT, COX & EATON

TELEPHONE (505) 822-6510

CLARENCE E. HINKLE
W. E. BONDURANT, JR.
LEWIS C. COX, JR.
PAUL W. EATON, JR.
CONRAD E. COFFIELD
HAROLD L. HENSLEY, JR.
STUART D. SHANOR
C. D. MARTIN
PAUL J. KELLY, JR.
J. M. LITTLE

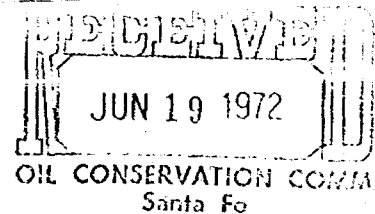
600 HINKLE BUILDING

POST OFFICE BOX 10

ROSWELL, NEW MEXICO 88201

June 16, 1972

MIDLAND, TEXAS OFFICE
621 MIDLAND TOWER
(915) 683-4691



Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 88201

Gentlemen:

We enclose herewith in triplicate application of Sun Oil Company to extend the Lusk-Morrow Gas Pool in Lea County to include all of Section 15, Township 19 South, Range 32 East.

We have previously discussed this matter with Dan Nutter and the same has been placed on the examiner's docket for June 28.

Yours very truly,

HINKLE, BONDURANT, COX & EATON

By 

CEH:cs
Enc.

cc: F. R. York
cc: Ed Stein
cc: Jack Andrews
cc: Bill W. Johnson

DOCKET DATED

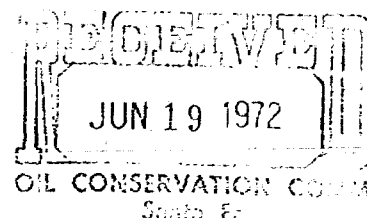
Date 6-13-72

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

APPLICATION OF SUN OIL COMPANY FOR
POOL EXTENSION, LEA COUNTY, NEW
MEXICO. APPLICANT SEEKS THE EXTEN-
SION OF THE HORIZONTAL LIMITS OF THE
LUSK-MORROW GAS POOL, LEA COUNTY,
NEW MEXICO TO INCLUDE ALL OF
SECTIONS 15 AND 16, TOWNSHIP 19
SOUTH, RANGE 32 EAST.

(Case 415)



Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501

Comes Sun Oil Company, acting by and through the undersigned attorneys, and hereby makes application for pool extension, Lea County, New Mexico. Applicant seeks the extension of the horizontal limits of the Lusk-Morrow Gas Pool, Lea County, New Mexico, to include all of Sections 15 and 16, Township 19 South, Range 32 East, and in support thereof respectfully shows:

1. On or about March 28, 1972 applicant completed its Shearn Federal Well No. 1 located 1980 feet from the south line and 660 feet from the west line of Section 15, Township 19 South, Range 32 East, N.M.P.M. Said well was drilled to a total depth of 14,330 feet to test the Devonian formation and was plugged back and completed as a Morrow gas well. Said well has been placed on production and the gas is being purchased by Phillips Petroleum Company.

2. By Order R-2373 the Commission adopted temporary operating rules for the Lusk-Morrow Gas Pool, said order being entered on November 21, 1962. The rules were made permanent under Order R-2373-B on May 19, 1965. The special pool rules established 640 acre gas proration units. The Lusk-Morrow Gas Pool is presently defined as including the following described lands situated in Township 19 South, Range 32 East, N.M.P.M.: All of Sections 18, 19, 20, 27, 28, 29, 30 and 32. Rule 1 of the special pool rules provides that each well completed or re-completed in the Lusk-Morrow Gas Pool or in the "Morrow formation" within one mile of the Lusk-Morrow Gas Pool and not nearer to or within the limits of another designated Morrow pool shall be spaced, drilled, operated and produced in accordance with said special pool rules.

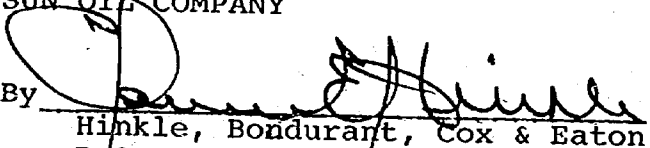
3. Applicant's Shearn Federal No. 1 well referred to above was completed in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 15 and is slightly more than one mile from the lands presently defined as being within the Lusk-Morrow Gas Pool. Applicant believes that the Shearn Federal Well No. 1 in Section 15 is producing from the same reservoir as the wells previously drilled to and producing from the Lusk-Morrow Gas Pool. Applicant also believes that all of Section 15 and the intervening Section 16 are productive of gas from the Morrow formation and that the Lusk-Morrow Gas Pool should be extended to include said lands and the special pool rules made applicable thereto.

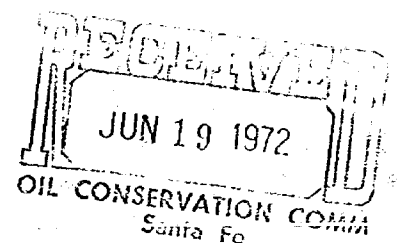
4. Applicant requests that this matter be set down for the examiner's hearing on June 28, 1972.

Respectfully submitted,

SUN OIL COMPANY

By


Hinkle, Bondurant, Cox & Eaton
P.O. Box 10
Roswell, New Mexico 88201
Attorneys for Applicant



DRAFT

GMH/dr

(10)

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

gm

APPLICATION OF SUN OIL COMPANY
FOR POOL EXTENSION, LEA COUNTY,
NEW MEXICO.

CASE No. 4751

Order No. R-4339

Nomenclature

JSW

7-10-72

EP

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 28, 1972,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this day of July, 1972, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Sun Oil Company, seeks the extension
of the horizontal limits of the Lusk-Morrow Gas Pool, Lea County,
New Mexico, to include all of Sections 15 and 16, Township 19
South, Range 32 East, NMPM.

-2-

CASE NO. 4751

Order No. R-

(3) That the applicant's Shearn Federal Well No. 1, located 1980 feet from the South line and 660 feet from the West line of the above-described Section 15 has been completed in the common source of supply that is designated as the Lusk-Morrow Gas Pool.

(4) That the subject well was drilled at a standard location for an undesignated Morrow gas pool.

(5) That Sections 16 and 21 are situated between the present horizontal limits of the Lusk-Morrow Gas Pool and the location of the above-described Shearn Federal Well No. 1; that said Sections 16 and 21 can reasonably be presumed productive of gas from the Lusk-Morrow Gas Pool.

(6) That in order to prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells and to otherwise prevent waste and protect correlative rights, the horizontal limits of the Lusk-Morrow Gas Pool should be extended to include all of Sections 15, 16, and 21 of Township 19 South, Range 32 East, Lea County, New Mexico, and an unorthodox location in said pool should be approved for the subject well.

IT IS THEREFORE ORDERED:

(1) That the Lusk-Morrow Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM

Section 15: All

Section 16: All

Section 21: All

(2) That an unorthodox location is hereby approved for the Sun Oil Company Shearn Federal Well No. 1, located 1980 feet from the South line and 660 feet from the West line of Section 15, Township 19 South, Range 32 East, Lusk-Morrow Gas Pool, Lea County, New Mexico.

-3-
CASE NO. 4751
Order No. R-

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

Name

Address

Ph.

Remarks:

19-32

| | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|
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| 31 | 32 | 33 | 34 | 35 | 36 |

T R State
or County

Hinkle

Appl of Sun Oil Co.
extended Rock Morro Gas Pool
to include all of Sec 15 & 16
T 19 S, R 37 E, S 1 E.

**CASE 4752: Application of CLAUDE
C. KENNEDY FOR PERMISSION TO FLARE
CASINGHEAD GAS, MCKINLEY COUNTY.**