



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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

July 14, 1993

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

ARCO Oil & Gas Company
P.O. Box 1610
Midland, TX 79702

Attention: Ken W. Gosnell, Regulatory Coordinator

*Corrected Administrative Order DD-83(NSBHL)
and the Administrative Amendment of
Division Order No. R-9745*

Dear Mr. Gosnell:

Under the provisions of General Rule 111 (c), (d) and (e), ARCO Oil & Gas Company ("ARCO") made application to the New Mexico Oil Conservation Division on June 17, 1993, for authorization to directionally drill its proposed South Justis Unit Tract "G" Well No. 182, Justis Blinebry-Tubb-Drinkard Pool, South Justis Unit, Lea County, New Mexico. Said well is to be utilized as a water injection well in said unit and was previously approved by Division Order No. R-9747, issued in Case No. 10554 and dated October 23, 1992, to be drilled at an unorthodox surface location 50 feet from the South line and 2600 feet from the East line (Unit O) of Section 13, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

Said Division Order No. R-9747 further authorized ARCO to institute its South Justis Unit Waterflood Project in portions of Townships 25 and 26 South, Ranges 37 and 38 East, NMPM, Lea County, New Mexico by permitting the injection of water into 98 existing or newly drilled wells.

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 111(d) and (e) of the Division General Rules and Regulations;

- (2) At this time ARCO finds it necessary to locate this well at a different surface location than originally approved by said Order No. R-9747 as to avoid the right-of-way for New Mexico State Highway No. 182, that it's personnel evidently did not know existed at the time said Case No. 10554 was brought to hearing before the Division, and further complicated by a surface depression that evidently has some archeological value.
- (3) The bottom-hole location is to remain the same as originally approved in said Order No. R-9747 for the purpose of completing an efficient injection/production pattern within said waterflood project area.
- (4) The applicant has presented satisfactory evidence that all requirements prescribed in General Rule 111 have either been or will be met;
- (5) Notification is not necessary in this instance since the well is within the applicant's South Justis Unit Area and there are no immediate offset operators other than ARCO; and,
- (6) Further, since there are no offset operators, approval of this application should not threaten correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, ARCO Oil & Gas Company, is hereby authorized to directionally drill its South Justis Unit Tract "G" Well No. 182, the surface location of which shall be 200 feet from the South line and 2000 feet from the West line (Unit N) of Section 13, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, by kicking off from the vertical and drilling in such a manner as to bottom in the Justis Blinbry-Tubb-Drinkard Pool within 50 feet of a point 50 feet from the South line and 2600 feet from the East line (Unit O) of said Section 13, being an unorthodox bottom-hole injection well location.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED HOWEVER THAT during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Hobbs district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.

(3) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

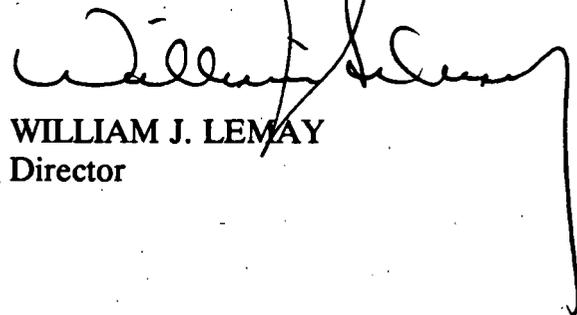
(4) Further, Exhibit "A" of said Division Order No. R-9747 shall be amended to reflect the above-described well location changes.

(4) All other provisions of Order No. R-9747 shall remain in full force and effect until further notice.

(5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

SEAL

WJL/MES/amg

cc: Oil Conservation Division - Hobbs
Oil Conservation Division - Michael E. Stogner
US Bureau of Land Management - Carlsbad
File: Case No. 10554



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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

June 25, 1993

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

ARCO Oil & Gas Company
P.O. Box 1610
Midland, TX 79702

Attention: Ken W. Gosnell, Regulatory Coordinator

*Administrative Order DD-83(NSBHL)
and the Administrative Amendment of
Division Order No. R-9745*

Dear Mr. Gosnell:

Under the provisions of General Rule 111 (c), (d) and (e), ARCO Oil & Gas Company ("ARCO") made application to the New Mexico Oil Conservation Division on June 17, 1993, for authorization to directionally drill its proposed South Justis Unit Tract "G" Well No. 128, Justis Blinebry-Tubb-Drinkard Pool, South Justis Unit, Lea County, New Mexico. Said well is to be utilized as a water injection well in said unit and was previously approved by Division Order No. R-9747, issued in Case No. 10554 and dated October 23, 1992, to be drilled at an unorthodox surface location 50 feet from the South line and 2600 feet from the East line (Unit O) of Section 13, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

Said Division Order No. R-9747 further authorized ARCO to institute its South Justis Unit Waterflood Project in portions of Townships 25 and 26 South, Ranges 37 and 38 East, NMPM, Lea County, New Mexico by permitting the injection of water into 98 existing or newly drilled wells.

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 111(d) and (e) of the Division General Rules and Regulations;

- (2) At this time ARCO finds it necessary to locate this well at a different surface location than originally approved by said Order No. R-9747 as to avoid the right-of-way for New Mexico State Highway No. 128, that it's personnel evidently did not know existed at the time said Case No. 10554 was brought to hearing before the Division, and further complicated by a surface depression that evidently has some archeological value.
- (3) The bottom-hole location is to remain the same as originally approved in said Order No. R-9747 for the purpose of completing an efficient injection/production pattern within said waterflood project area.
- (4) The applicant has presented satisfactory evidence that all requirements prescribed in General Rule 111 have either been or will be met;
- (5) Notification is not necessary in this instance since the well is within the applicant's South Justis Unit Area and there are no immediate offset operators other than ARCO; and,
- (6) Further, since there are no offset operators, approval of this application should not threaten correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, ARCO Oil & Gas Company, is hereby authorized to directionally drill its South Justis Unit Tract "G" Well No. 128, the surface location of which shall be 200 feet from the South line and 2000 feet from the West line (Unit N) of Section 13, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, by kicking off from the vertical and drilling in such a manner as to bottom in the Justis Blinebry-Tubb-Drinkard Pool within 50 feet of a point 50 feet from the South line and 2600 feet from the East line (Unit O) of said Section 13, being an unorthodox bottom-hole injection well location.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED HOWEVER THAT during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

Administrative Order DD-83(NSBHL)

ARCO Oil and Gas Company

June 25, 1993

Page No. 3

(2) The applicant shall notify the supervisor of the Hobbs district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.

(3) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

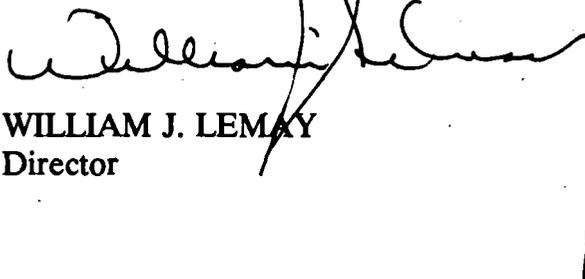
(4) Further, Exhibit "A" of said Division Order No. R-9747 shall be amended to reflect the above-described well location changes.

(4) All other provisions of Order No. R-9747 shall remain in full force and effect until further notice.

(5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

WJL/MES/amg

cc: Oil Conservation Division - Hobbs
Oil Conservation Division - Michael E. Stogner
US Bureau of Land Management - Carlsbad
File: Case No. 10554



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

RECEIVED

93 JUN 25 AM 9 22

6-21-93

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

- MC _____
- DHC _____
- NSL _____
- NSP _____
- SWD _____
- WFX _____
- PMX _____

DD X

Gentlemen:

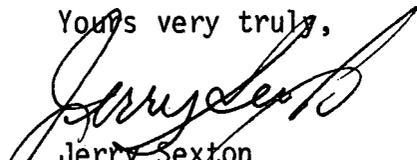
I have examined the application for the:

Arco Oil & Gas Co S. Justis Unit G # 182-N 13-25-37
 Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,


 Jerry Sexton
 Supervisor, District 1

/ed

DD-ARCO
A drive
Green disk

Received 6/22/93
Released 6/25/93

June 24, 1993

ARCO Oil & Gas Company
P.O. Box 1610
Midland, TX 79702

Attention: Ken W. Gosnell
Regulatory Coordinator

⁸³
Administrative Order DD-**(NSBHL)
and the Administrative Amendment of
Division Order No. R-9745

Dear Mr. Gosnell:

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The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 111(d) and (e) of the Division General Rules and Regulations;
- (2) At this time ARCO finds it necessary to locate this well at a different surface location than originally approved by said Order No. R-9747 as to avoid the right-of-way for New Mexico State Highway No. 128, that it's personnel evidently did not know existed at the time said Case No. 10554 was brought to hearing before

the Division, and further complicated by a surface depression that evidently has some archeological value.

- (3) The bottom-hole location is to remain the same as originally approved in said Order No. R-9747 for the purpose of completing an efficient injection/production pattern within said waterflood project area.
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IT IS THEREFORE ORDERED THAT:

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Administrative Order DD-78(NSBHL)
Texaco Exploration and Production Company
June 24, 1993
Page No. 3

(3) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(4) Further, Exhibit "A" of said Division Order No. R-9747 shall be amended to reflect the above-described well location changes.

(4) All other provisions of Order No. R-9747 shall remain in full force and effect until further notice.

(5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY
Director

S E A L

WJL/MES/amg

cc: Oil Conservation Division - Hobbs
Oil Conservation Division-- Michael E. Stogner
File: Case No. 10554

U.S. Bureau of Land Management - Carlsbad

ARCO Oil and Gas Company ◆

600 North Marienfeld Street
Post Office Box 1610
Midland Texas 79702
Telephone 915 688 5200

Western District

OIL CONSERVATION DIVISION
RECEIVED

'93 JUN 22 AM 8 57

June 17, 1993

**State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088**

Attn: Michael E. Stogner

**Re: Directional Drilling
South Justis Unit "G" #128**

Dear Sir:

ARCO is requesting administrative approval to directional drill subject well because (1) the original surface location is not satisfactory due to surface obstructions, and, (2) the bottom hole location is an unorthodox location previously approved. Order #9747. Rule 111 (c).

The stake for the original approved unorthodox location fell approximately 15 feet from state Hi-way 128 right-of-way. A large Arch site (Buffalow Wallow) restricted any reasonable movement to the north. See attached illustration.

ARCO is the operator of all offsetting proration units.

Sincerely,

Ken W. Gosnell
**Ken W. Gosnell
Regulatory Coordinator
915 688-5672**

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

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

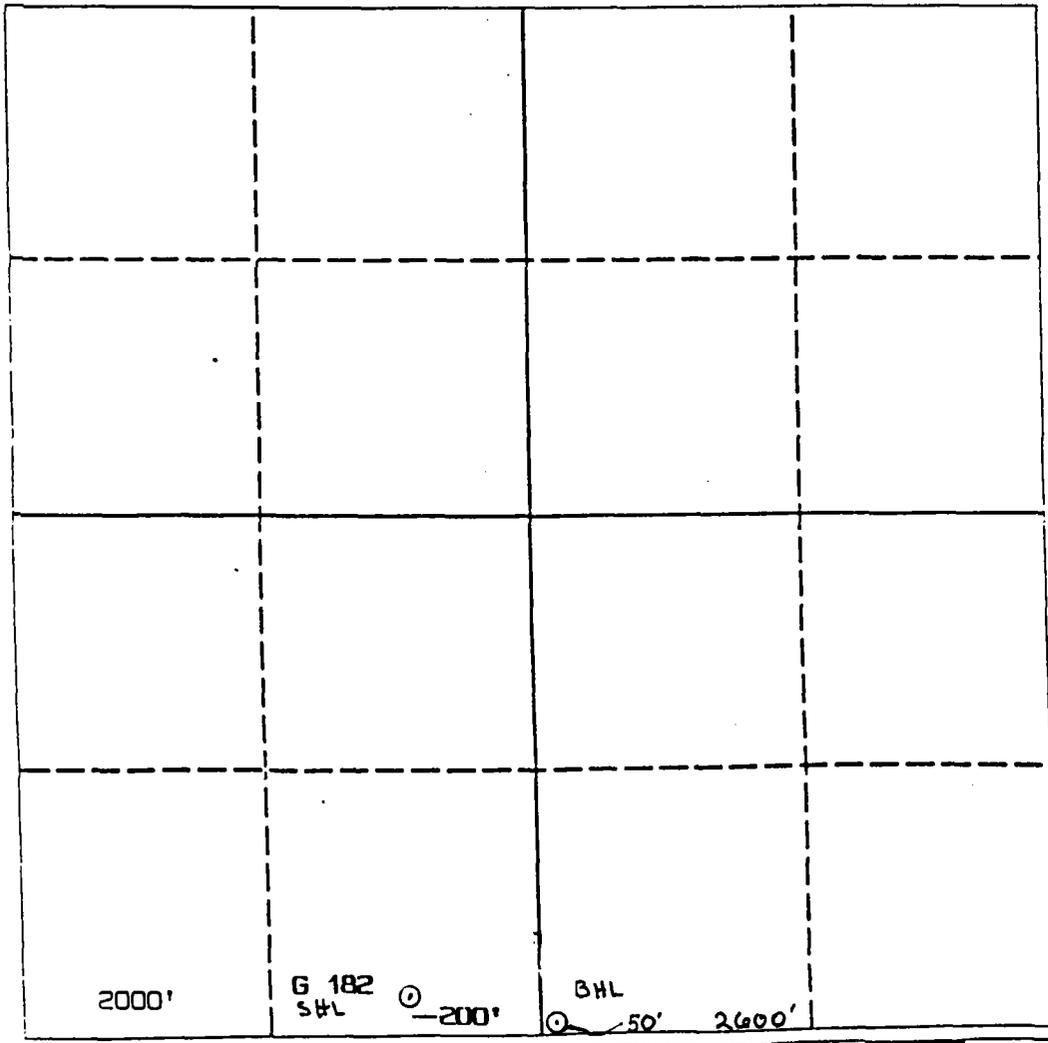
All Distances must be from the outer boundaries of the section

Operator ARCO OIL AND GAS COMPANY			Lease South Justis Unit "G"			Well No. 182		
Unit Letter N	Section 13	Township 25 S	Range 37 E	County NMPM		Lea		
Actual Footage Location of Well: BHL 50 S#L 200			feet from the South line and 2600 2000			feet from the East line and West line		
Ground level Elev. 3079'		Producing Formation Blinberry-Tubb-Drinkard		Pool Justis		Dedicated Acreage: 40 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure 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 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 allowable 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 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
Ken W. Gosnell
 Printed Name
Ken W. Gosnell
 Position
Reg. Coord.
 Company
ARCO Oil & Gas
 Date
5-24-93

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.

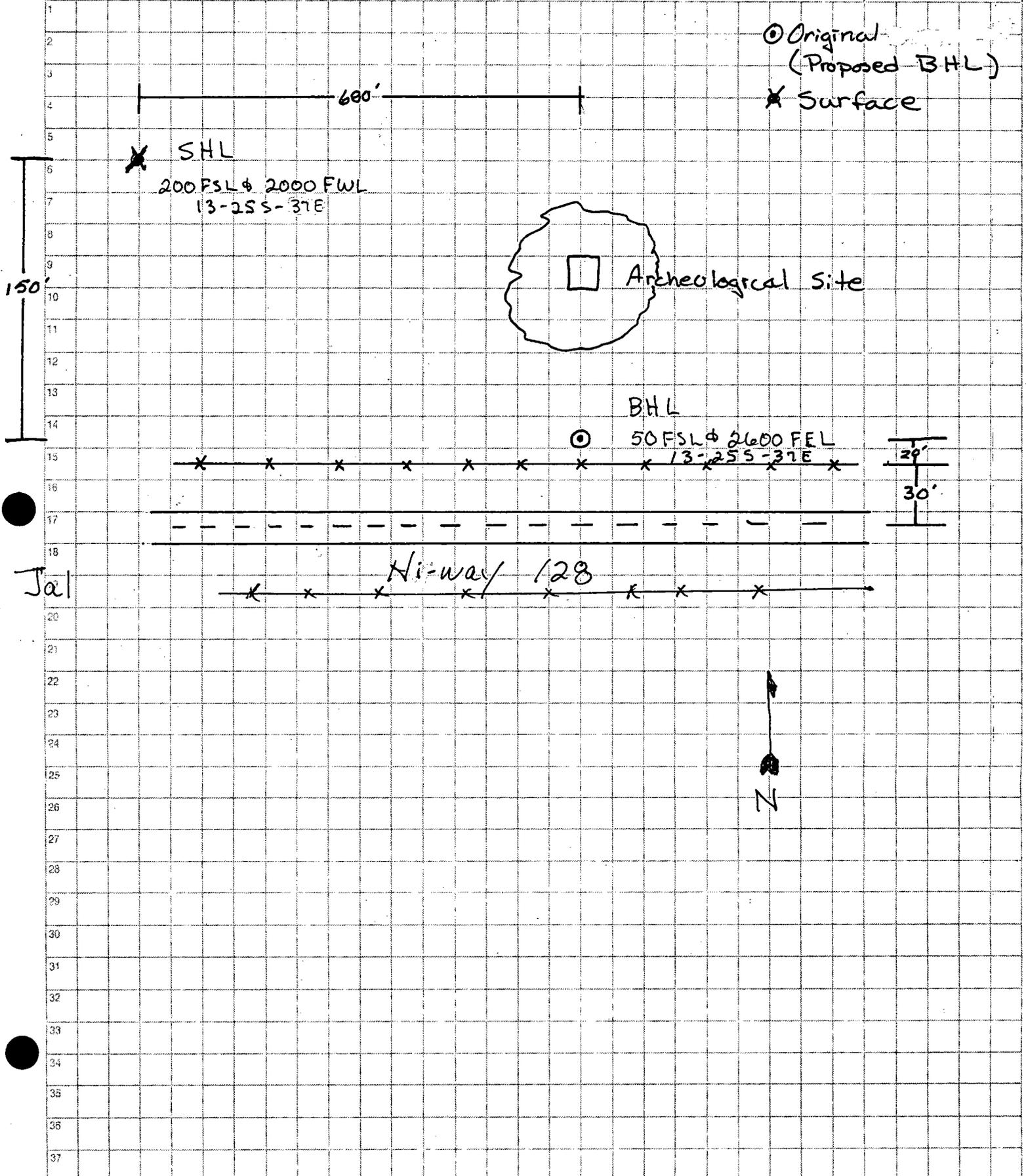
Date Surveyed
May 20, 1993

Signature & Seal of Professional Surveyor

[Signature]
 Certificate No. **648**

General Purpose Worksheet

Subject		Page No.	Of
File		By	Date



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Handwritten text, possibly a date or reference number, located in the upper right quadrant.

HE

Handwritten text, possibly a name or title, located in the middle left area.

Handwritten text, possibly a date or reference number, located in the middle right area.

Vertical handwritten text or markings on the left side of the page.

Handwritten text or markings on the right edge of the page.

ARCO Oil and Gas Company 

600 North Mariefeld Street
Post Office Box 1610
Midland Texas 79702
Telephone 915 688 5200

Western District

OIL CONSERVATION DIVISION
RECEIVED

'93 JUN 22 AM 8 57

June 17, 1993

**State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088**

Attn: Michael E. Stogner

**Re: Directional Drilling
South Justis Unit "G" #128**

Dear Sir:

ARCO is requesting administrative approval to directional drill subject well because (1) the original surface location is not satisfactory due to surface obstructions, and, (2) the bottom hole location is an unorthodox location previously approved. Order #9747. Rule 111 (c).

The stake for the original approved unorthodox location fell approximately 15 feet from state Hi-way 128 right-of-way. A large Arch site (Buffalow Wallow) restricted any reasonable movement to the north. See attached illustration.

ARCO is the operator of all offsetting proration units.

Sincerely,


**Ken W. Gosnell
Regulatory Coordinator
915 688-5672**

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
 600 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

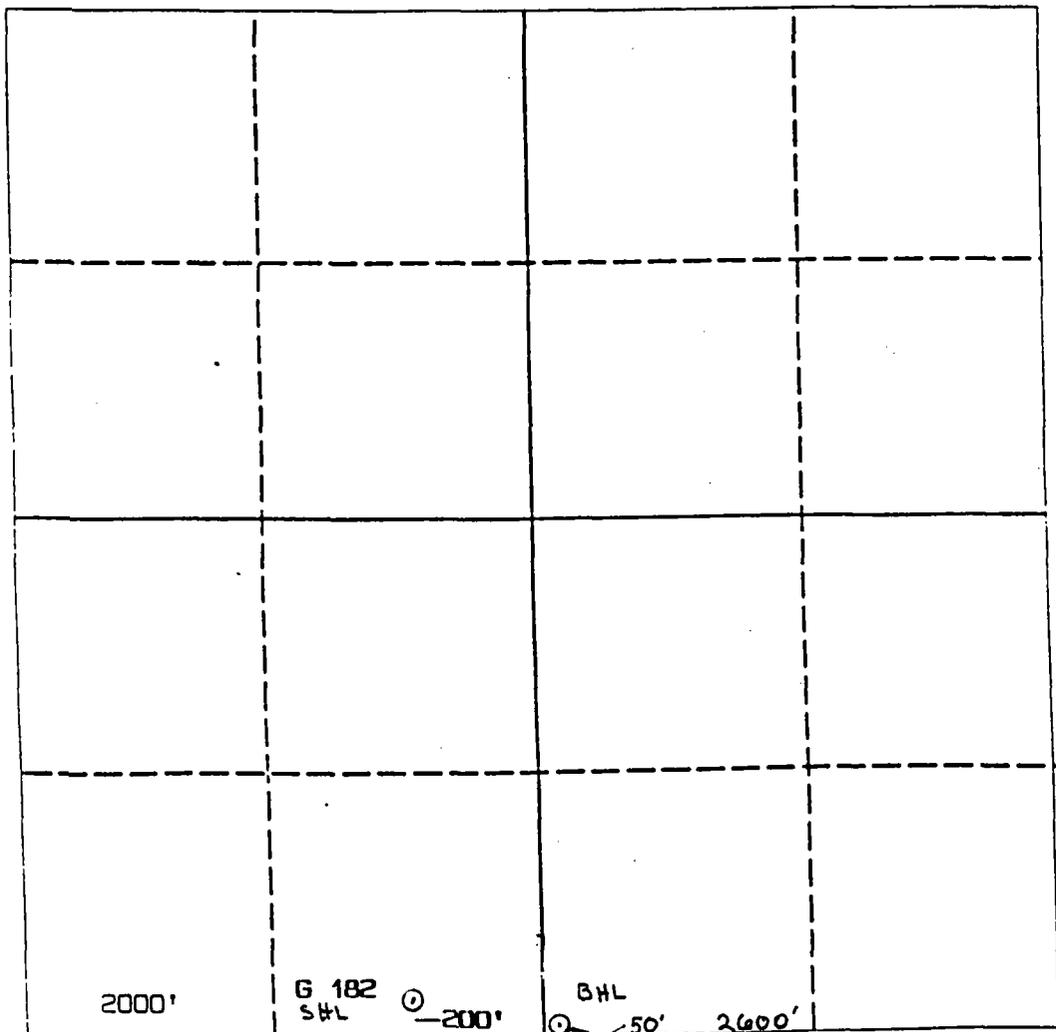
Operator ARCO OIL AND GAS COMPANY			Lease South Justis Unit "G"			Well No. 182		
Joint Letter N	Section 13	Township 25 S	Range 37 E	County NMPM		Lea		
Actual Footage Location of Well: BHL 50 SHL 200			feet from the South line and 2600 2000			feet from the East line and West line		
Ground level Elev. 3079'		Producing Formation Blinberry-Tubb-Drinkard		Pool Justis		Dedicated Acreage: 40 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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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 allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

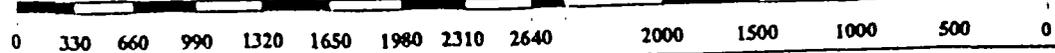


OPERATOR CERTIFICATION
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *Ken W. Gosnell*
 Printed Name: **Ken W. Gosnell**
 Position: **Reg. Coord.**
 Company: **ARCO Oil & Gas**
 Date: **5-24-93**

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.

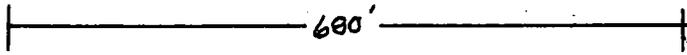
Date Surveyed: **May 20, 1993**
 Signature & Seal of Professional Surveyor: *[Signature]*
 Certificate No. **648**



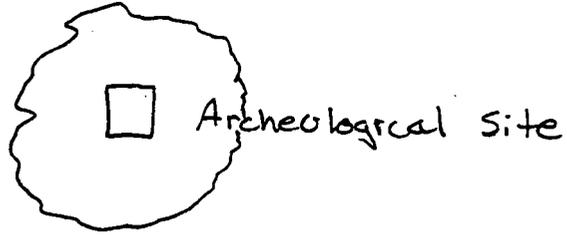
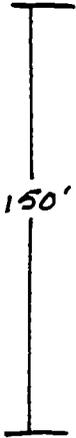
General Purpose Worksheet

Subject	Page No.	Of
File	By	Date

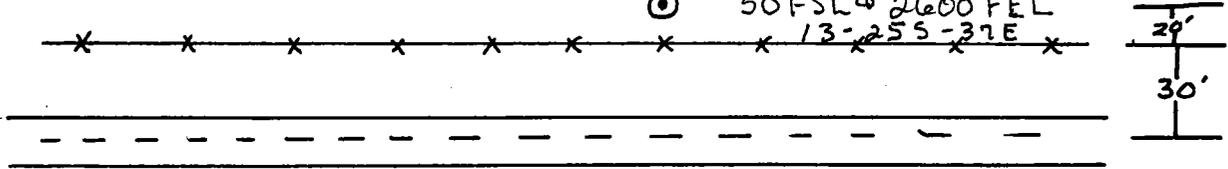
⊙ Original
(Proposed BHL)
✕ Surface



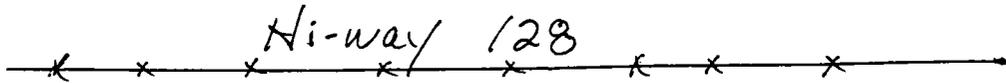
✕ SHL
200 FSL & 2000 FWL
13-255-37E



BHL
⊙ 50 FSL & 2600 FEL
13-255-37E



Jal



ARCO Oil and Gas Company ↗

600 North Marienfeld Street
Post Office Box 1610
Midland Texas 79702
Telephone 915 688 5200

Western District

**OIL CONSERVATION DIVISION
RECEIVED**

'93 JUN 22 AM 8 57

June 17, 1993

**State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088**

Attn: Michael E. Stogner

**Re: Directional Drilling
South Justis Unit "G" #128**

Dear Sir:

ARCO is requesting administrative approval to directional drill subject well because (1) the original surface location is not satisfactory due to surface obstructions, and, (2) the bottom hole location is an unorthodox location previously approved. Order #9747. Rule 111 (c).

The stake for the original approved unorthodox location fell approximately 15 feet from state Hi-way 128 right-of-way. A large Arch site (Buffalow Wallow) restricted any reasonable movement to the north. See attached illustration.

ARCO is the operator of all offsetting proration units.

Sincerely,

Ken W. Gosnell
**Ken W. Gosnell
Regulatory Coordinator
915 688-5672**

Submit to Appropriate District Office
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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

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 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

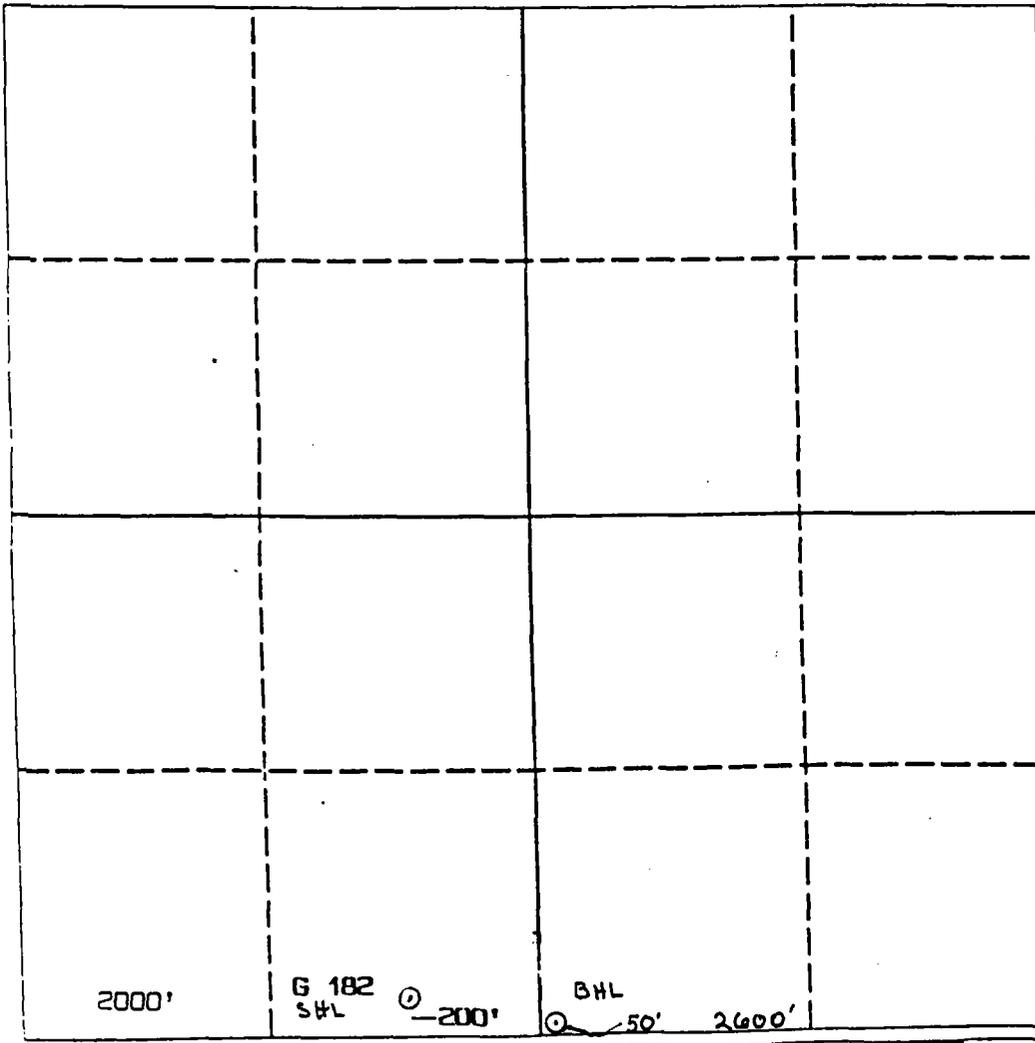
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Operator ARCO OIL AND GAS COMPANY			Lease South Justis Unit "G"			Well No. 182		
Unit Letter N	Section 13	Township 25 S	Range 37 E	County NMPM		Lea		
Actual Footage Location of Well: BHL 50 SHL 200			feet from the South line and 2600 2000			feet from the East line and West line		
Ground level Elev. 3079'		Producing Formation Blinberry-Tubb-Drinkard		Pool Justis		Dedicated Acreage: 40 Acres		

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- If more than one lease of different ownership is dedicated to the well, have the interest 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 allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

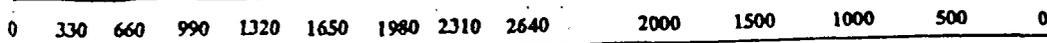
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *Ken W. Gosnell*
 Printed Name: **Ken W. Gosnell**
 Position: **Reg. Coord.**
 Company: **ARCO Oil & Gas**
 Date: **5-24-93**

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.

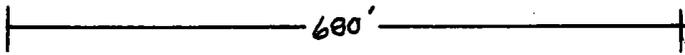
Date Surveyed: **May 20, 1993**
 Signature & Seal of Professional Surveyor: *[Signature]*
 Certificate No.: **648**



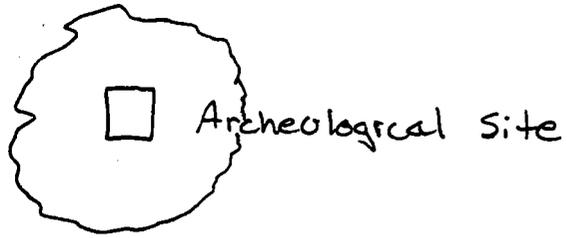
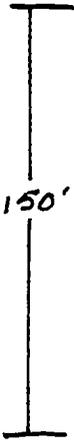
General Purpose Worksheet

Subject		Page No.	Of
File		By	Date

⊙ Original
(Proposed BHL)
✕ Surface

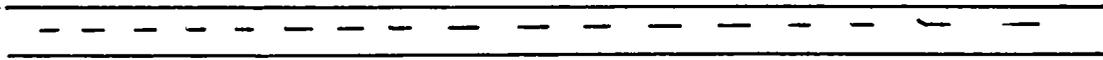
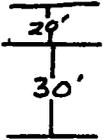


✕ SHL
200 FSL & 2000 FWL
13-255-37E

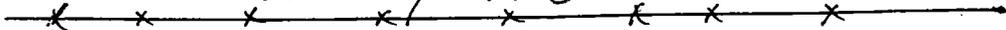


BHL

⊙ 50 FSL & 2600 FEL
13-255-37E



Hi-way 128



Jal



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1100 THE PLAZA ROAD
AZTEC, NEW MEXICO 87410
(505) 334-0170

Y. CARRUTHERS
SUPERVISOR

Date: 6-21-93

Arthur W. Hagner

Oil Conservation Division
P.O. Box 2000
Santa Fe, NM 87504-2000

Re: Proposed HC _____
Proposed DHC _____
Proposed NSL X _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated 6-18-93
for the Mexican Petroleum S-T-28.5 Unit # 232
Operator Lease & Well No.

L-24-28N-5W and my recommendations are as follows:
Unit, S-T-R

Approve

Yours truly,

Ernie Bush