



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

October 28, 1986

TONY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Amerada Hess Corporation
P.O. Box 840
Seminole, Texas 79360

Attention: R. J. Anthony
Regional Operations Engineer

Re: Administrative Order NFL-137

Dear Mr. Anthony;

Reference is made to your application for an Infill Well Finding and Well-Spacing Waiver made pursuant to Section 271.305(b) of the Federal Energy Regulatory Commission regulations, Natural Gas Policy Act of 1978, and Oil Conservation Division Order No. R-6013 for the following described well:

Langlie Mattix Woolworth Unit Well No. 114,
located 1539 feet from the North line and
2407 feet from the East line of Section 33,
Township 24 South, Range 37 East, NMPM, Lea
County, New Mexico.

THE DIVISION FINDS THAT:

(1) Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waiver of existing well-spacing requirements.

(2) By Division Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) The well for which a finding is sought is to be completed in the Langlie Mattix Oil Pool, and the standard spacing unit in said pool is 40 acres.

(4) A standard 40-acre oil proration unit comprising the SW/4 NE/4 (Unit G) of Section 33, Township 24 South, Range 37 East, is currently dedicated to the Langlie Mattix Woolworth Unit Well No. 117 also located in Unit G of said Section.

(5) Said unit is not being effectively and efficiently drained by the existing well(s) on the unit.

(6) The drilling and completion of the well for which a finding is sought should result in the production of an additional 834 MCF of gas from the proration unit which would not otherwise be recovered.

(7) All the requirements of Division Order No. R-6013 have been complied with, and the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

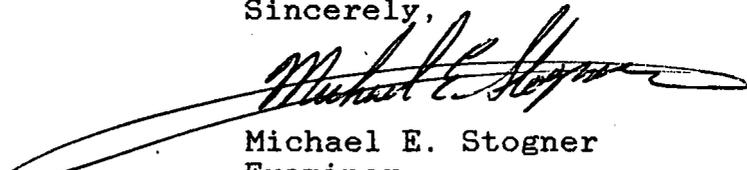
(8) In order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well spacing requirements for the pool.

IT IS THEREFORE ORDERED THAT:

(1) The applicant is hereby authorized to drill the Langlie Mattix Woolworth Well No. 117, as described above, as an infill well on the existing proration unit comprising the SW/4 NE/4 of Section 33, Township 24 South, Range 37 East, NMPM< Lea County, New Mexico. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

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

Sincerely,



Michael E. Stogner
Examiner

xc: OCD-Hobbs

NFL AMHS

Amerada Hess Corporation
P.O. Box 840
Seminole, Texas 79360

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Regional Operations Engineer

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1911

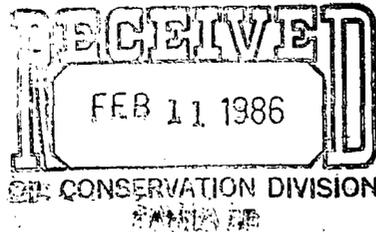
1911

1911

1911

NFLAMHS

AMERADA HESS CORPORATION



P. O. BOX 840
SEMINOLE, TEXAS 79360
915-758-6700

February 5, 1986

New Mexico Oil Conservation Division
P.O. Box 2088
State Land Office Bldg.
Santa Fe, New Mexico 87501

Attn: Mr. Michael E. Stogner

Dear Sir:

Please find attached the data to support the NGPA Infill Findings for the Langlie Mattix Woolworth Unit Well No. 114. Application for Section 103 classification for this well was filed previously.

If additional information is required, please contact the undersigned.

Sincerely,


R. J. Anthony
Region Operations Engineer
(915) 758-6743

Langlie Mattix Field
40 Acre Spacing

LMWU No. 114 approved by order No. NSL-1779
No. 114 is on the same standard proration unit as No. 117

Well Data

Langlie Mattix Woolworth Unit

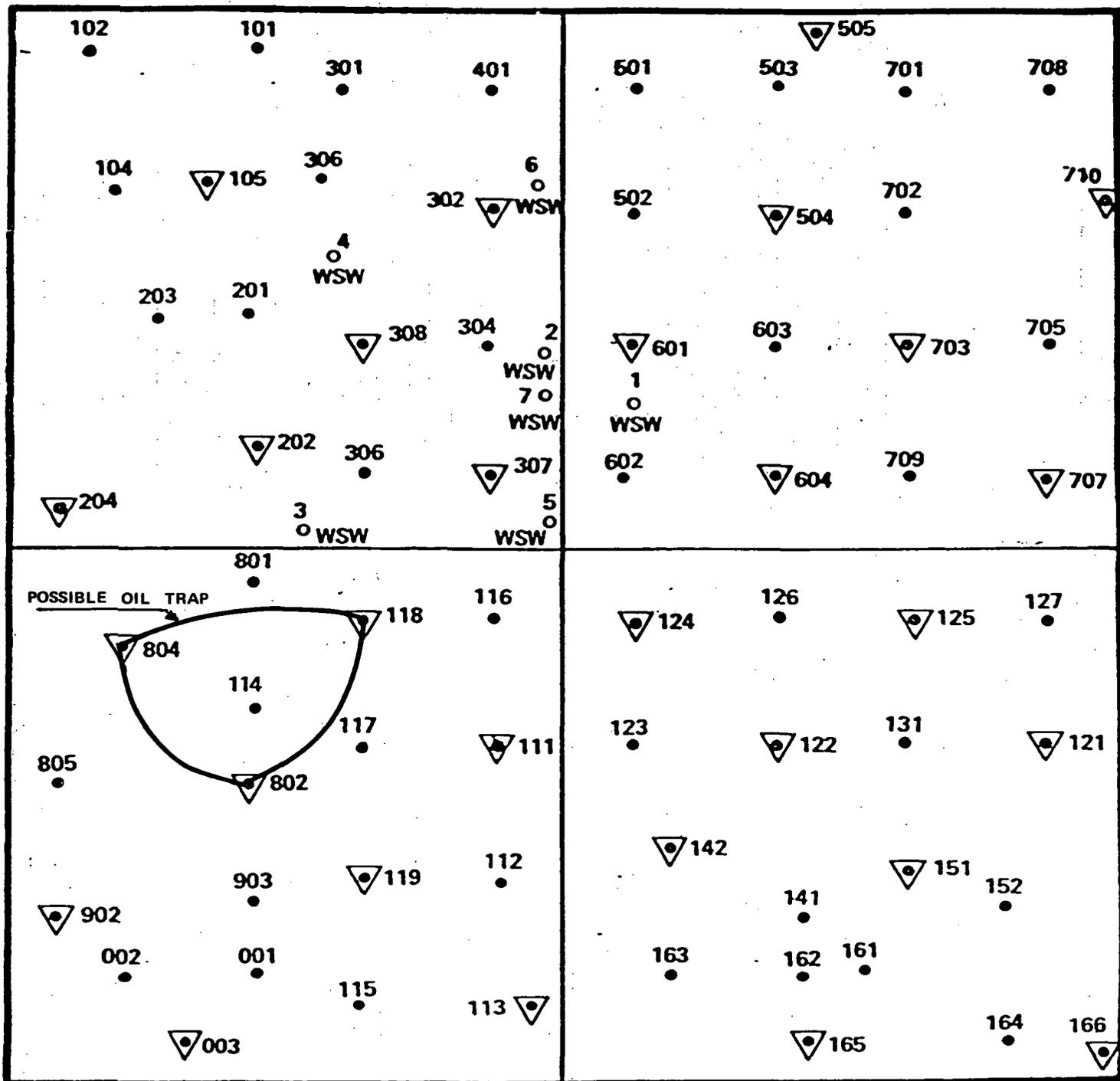
	Well No. 117	Well No. 114
Location:	1980' FN & WL Sec. 33, T24S, R37E Lea. Co.	1539' FNL & 2407' FEL Sec. 33, T24S, R37E, Lea Co.
Spud Date:	4-25-39	3-4-84
Completion Date:	6-3-39	5-31-84
Mechanical Problems:	Csg. leak 832' to 845' (1968)	None
Remedial Work:	Sq. w/150 sx Class "C" Cmt.	None
Current Rate Prod.:	3 BOPD, 2MCFGPD, 30 BWPD	6 BOPD, 0.7 MCFGPD, 102 BWPD

Well No. 114 was drilled in an area of the unit believed to contain reserves not recoverable by existing producers. Due to the location of injection wells 118, 802 and 804, it was believed that a "trap" existed as indicated on Figure 1.

Figure 2 is a structure map drawn on the top of the Queen Formation.

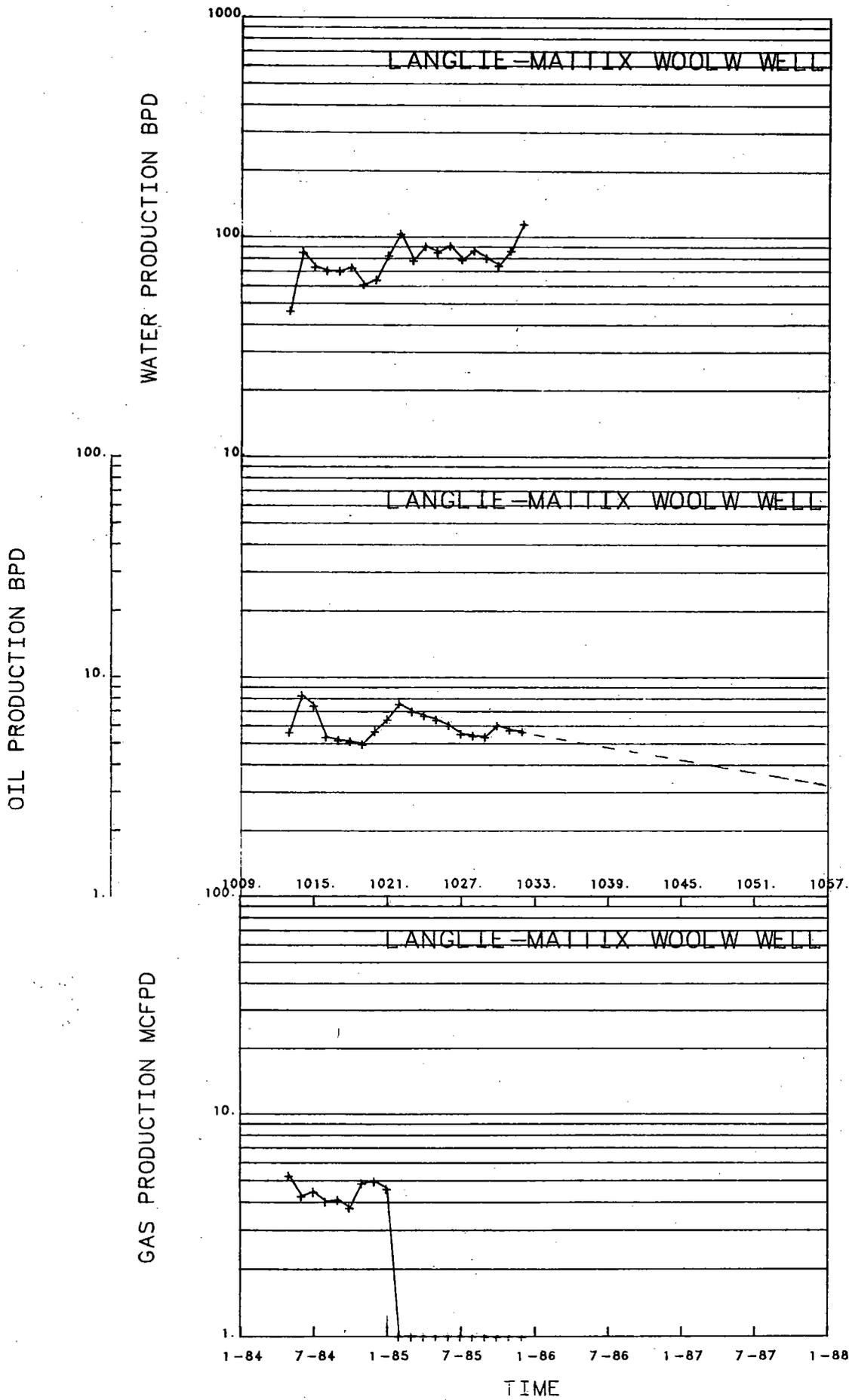
It has been determined by decline curve analysis that well No. 114 will recover 10,637 barrels of oil and 2,318 MCF of gas. Figure 3 is a production curve showing oil, gas and water production. Well No. 114 currently produces 6 BOPD, 0.7 MCFGPD and 102 BWPD. The well is currently declining at 22% per year. Cumulative recovery to 1-1-86 is 3,492 bbls. of oil and 1,484 MCF of gas. The decline curve extrapolation indicates 7,145 bbls. of oil and 834 MCF of gas remaining from 1-1-86.

FIGURE 1



LANGLIE MATTIX WOOLWORTH UNIT
Lea County, New Mexico

FIGURE 3



114 01/29/86

114 01/29/86

114 01/29/86

SWD
12-12-84

R. Howell
2-13-84
2

30-025-2859

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

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

5A. Indicate Type of Lease
STATE FEE
 5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
 b. Type of Well DRILL DEEPEN PLUG BACK
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. Name of Operator
Amerada Hess Corporation

3. Address of Operator
Drawer "D", Monument, New Mexico 88240

4. Location of Well
UNIT LETTER G LOCATED 1539 FEET FROM THE North LINE
 AND 2407 FEET FROM THE East LINE OF SEC. 33 TWP. 24S RGE. 37E NMPM

7. Unit Agreement Name
Langlie Mattix Woolwo Unit

8. Farm or Lease Name

9. Well No.
114

10. Field and Pool or Wellsect
Langlie Mattix Field
Langlie Mattix Pool

11. County
Lea

18. Proposed Depth
3800'

19A. Formation
Queen

19. Factory or C.T.
Rotary

21. Elevations (Show whether DF, RT, etc.)
3247'-GL 3258'-KB (Est.)

21A. Kind & Status Plug. Bond
Blanket

21B. Drilling Contractor
Unknown

22. Approx. Date Work will start
February 1984

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15"	9-5/8"	36.00	2700'		Circulated
7-3/8"	5-1/2"	14.00	3800'		Circulated
17-1/2"	13-3/8"	32.30	350'		Circulated

LMU #114 is to be drilled to gain further reservoir information about the Queen formation in hopes of upgrading the Units' recovery efficiency.

MONUMENT DISTRICT
1984 FEB 13 AM 11:30

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 5/6/84
UNLESS DRILLING UNDERWAY

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 BLENDOUT PRELIMINARY PROGRAM, IF ANY.

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

Signed Ronald L. Howell Title Associate Petroleum Engineer Date February 2, 1984

(This space is for use by the Commission)
Eddie W. Seay
Oil & Gas Inspector

FEB 10 1984

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-85

All distances must be from the outer boundaries of the Section.

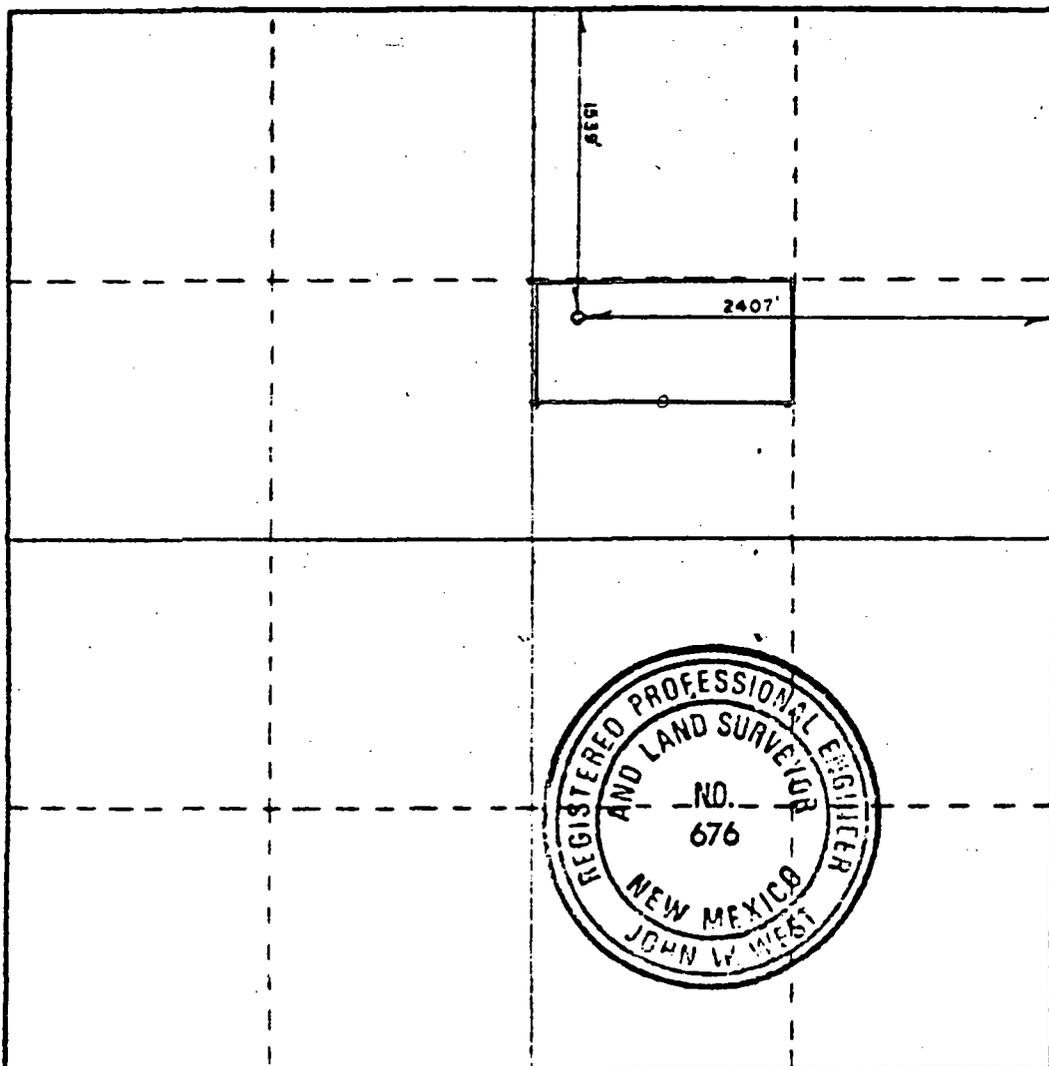
Operator AMERADA HESS CORP.		Lease LANGLIE MATTIX WOOLWORTH		Well No. 114
Unit Letter G	Section 33	Township 24S	Range 37E	County LEA
Actual Footage Location of Well: 1539 feet from the NORTH line and 2407 feet from the EAST line				
Ground Level Elev. 3247.0	Producing Formation Queen	Pool Langlie Mattix Pool	Dedicated Acreage: 20 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 N/A

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 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.

Name
Randall L. Howell
Position
Associate Petroleum Engineer

Company
Amerada Hess Corporation

Date
December 13, 1983

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
12/9/83

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No.
N.M. P.E. & L.S. #676

Langlie Mattix Field

40 Acre Spacing

LMWU No. 114 approved by order No. NSL-1779

No. 114 is on the same standard proration unit as No. 117

Well Data

Langlie Mattix Woolworth Unit

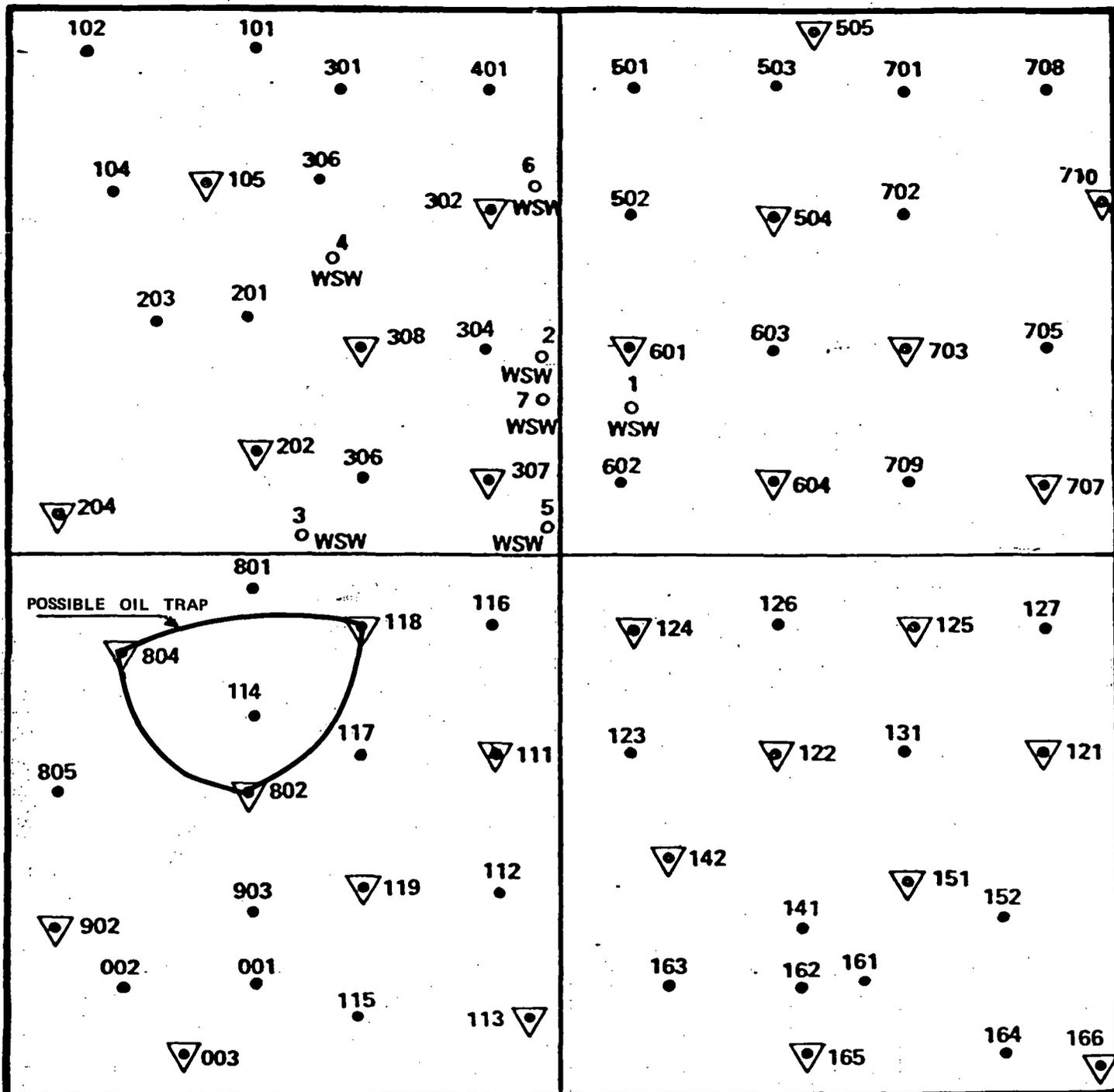
	Well No. 117	Well No. 114
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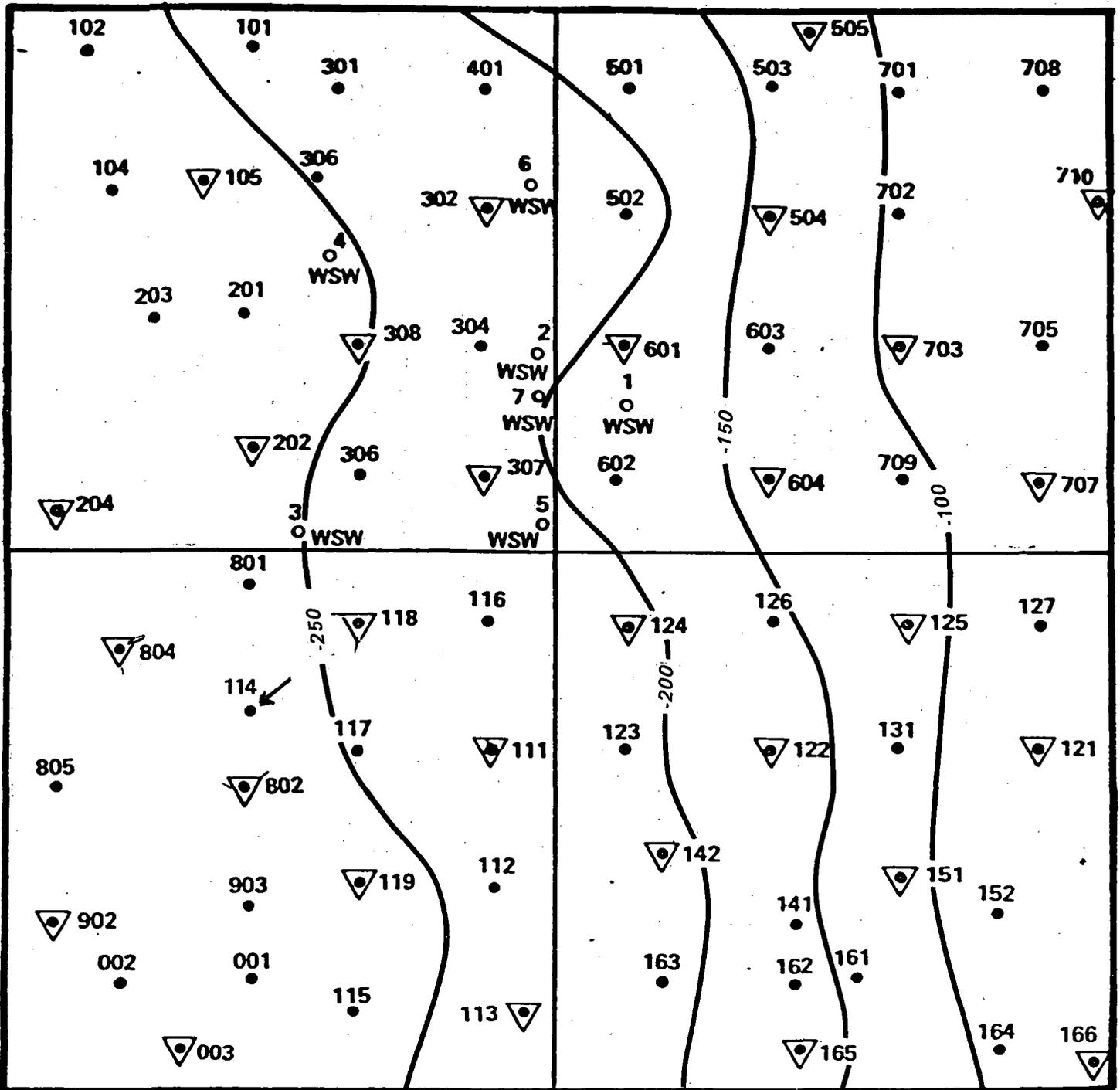
FIGURE 1



LANGLIE MATTIX WOOLWORTH UNIT

Lea County, New Mexico

FIGURE 2

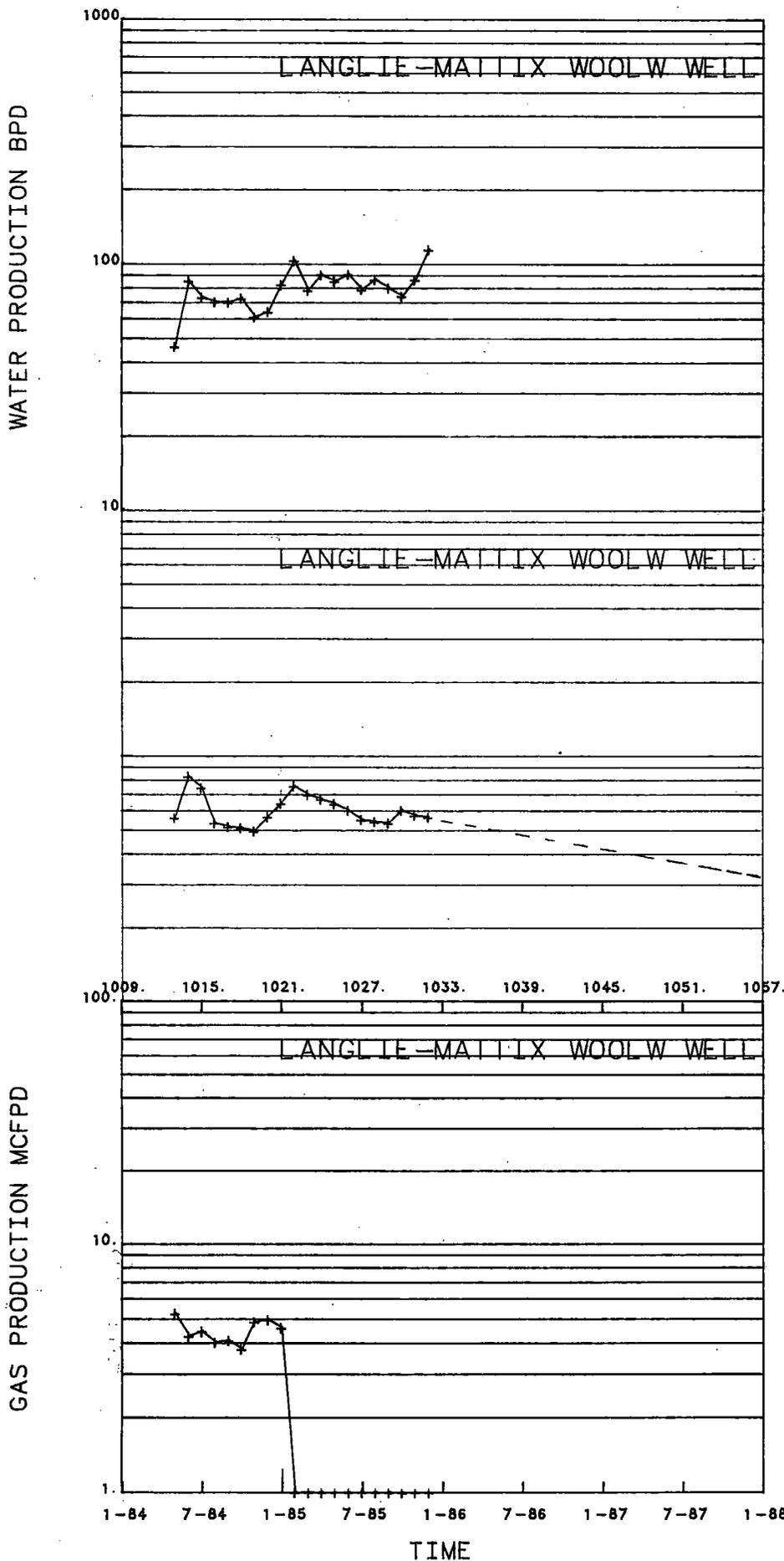


CONTOURED ON TOP OF QUEEN

CONTOUR INTERVAL 50'

LANGLIE MATTIX WOOLWORTH UNIT
Lea County, New Mexico

FIGURE 3



114 01/29/86

77

114 01/29/86

114 01/29/86

SWS
12-17-84

XC-9 Enslay
R. Howell
2-13-84
2

30-025-2854

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
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5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well
 DRILL DEEPEN PLUG BACK
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

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Amerada Hess Corporation

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114

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Drawer "D", Monument, New Mexico 88240

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Landle Mattix Field
Landle Mattix Pool

4. Location of Well
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 AND 2407 FEET FROM THE East LINE OF SEC. 33 TWP. 24S RGE. 37E NMPM

11. County
Lea

18. Proposed Depth 3800' 19A. Formation Queen 20. Rotary or C.T. Rotary

21. Elevations (Show whether D.F., R.F., etc.) 3247'-GL 3258'-KB (Est.) 21A. Kind & Status Plug. Bond Blanket 21B. Drilling Contractor Unknown 22. Approx. Date Work will start February 1984

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1984 FEB 13 AM 11:30

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UNLESS DRILLING UNDERWAY

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

Signed Randall Howell Title Associate Petroleum Engineer Date February 2, 1984

(This space is for use by the Commission)
Eddie W. Seay
Oil & Gas Inspector

FEB 10 1984

APPROVED BY _____ TITLE _____ DATE _____

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**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-83

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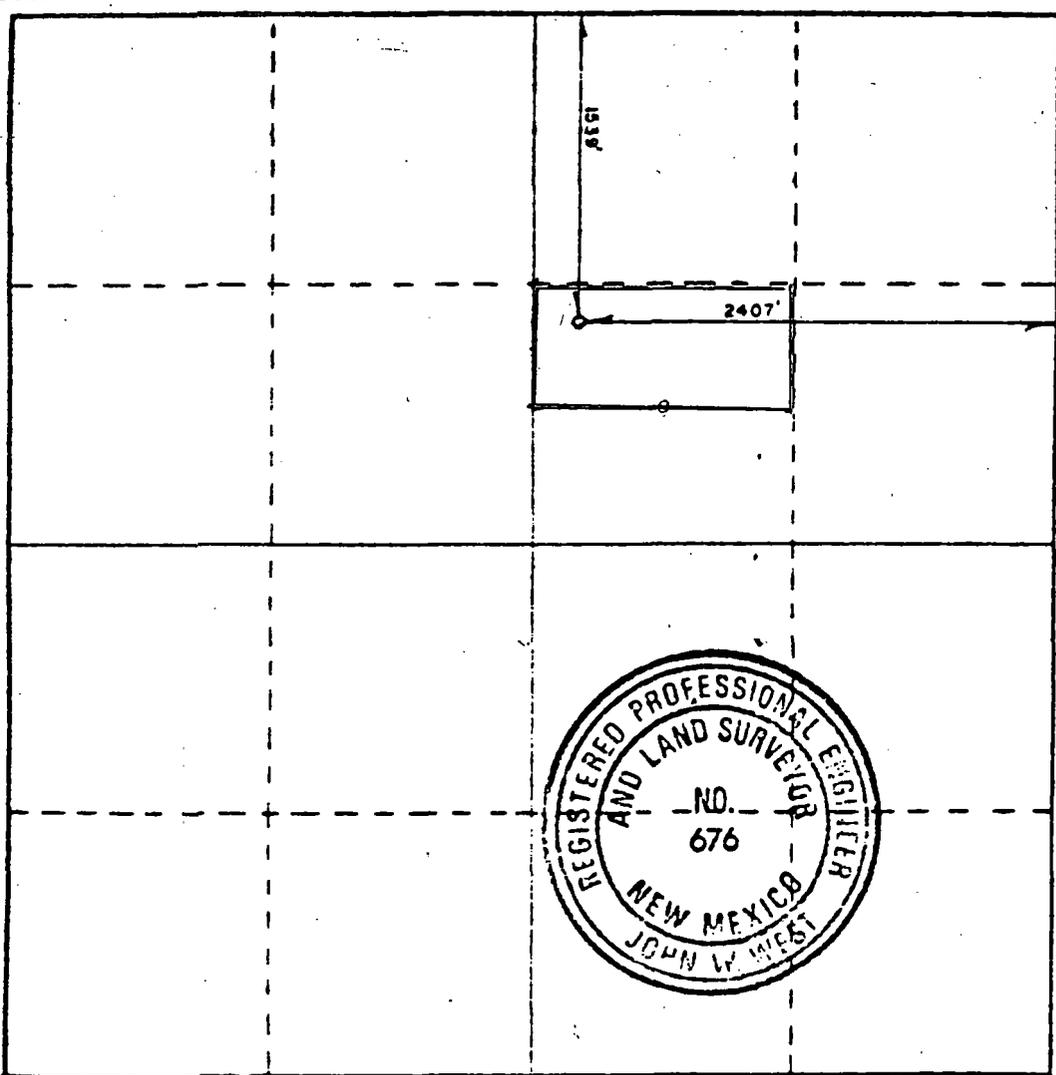
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Name <i>Randall L. Howell</i>
Position Associate Petroleum Engineer
Company Amerada Hess Corporation
Date December 13, 1983

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 12/9/83
Registered Professional Engineer and/or Land Surveyor <i>John W. West</i>

Certificate No. **N.M. P.E. & L.S. #676**