

LAW OFFICES

**TANSEY, ROSEBROUGH, GERDING & STROTHER, P.C.**

621 WEST ARRINGTON  
FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 325-1801

OF COUNSEL  
Charles M. Tansey

Austin E. Roberts  
1921—1983

Douglas A. Echols  
Richard L. Gerding  
Connie R. Martin  
Michael T. O'Loughlin  
James B. Payne  
Tommy Roberts  
Haskell D. Rosebrough  
Robin D. Strother

Mailing Address:  
P. O. Box 1020  
Farmington, N.M. 87499

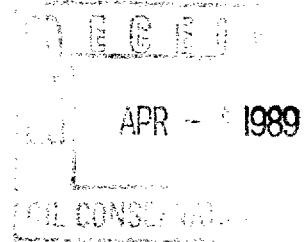
April 3, 1989

State of New Mexico  
Energy and Minerals Department  
New Mexico Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

*Case 9661*

Attn: William J. Lemay, Division Director

Re: Application of Hixon Development Company  
for Unorthodox Oil Well Location  
Hixon Development Company Missy #3 Well  
Rio Arriba County, New Mexico




Gentlemen:

Hixon Development Company hereby applies for an Order of the New Mexico Oil Conservation Division approving an unorthodox oil well location 330 FSL and 2310 FWL (Unit N) of Section 35, Township 25 North, Range 3 West, N.M.P.M., West Lindrith Gallup-Dakota Oil Pool, the SW/4 of said Section 35 to be dedicated to the Hixon Development Company Missy #3 Well forming a standard 160-acre oil spacing and proration unit for said pool.

By telephone communication of this date, this application was verbally transmitted to Florene Davidson in your office. I advised Ms. Davidson that it is the desire of Hixon Development Company that this application be placed on the April 26, 1989 Examiner Hearing Docket of the New Mexico Oil Conservation Division.

Please advise should you require any additional information.

Sincerely,

  
\_\_\_\_\_  
TOMMY ROBERTS, Attorney  
for Hixon Development Company

State of New Mexico  
Energy and Minerals Department  
New Mexico Oil Conservation Division  
April 3, 1989  
Page Two

TR:nk

xc: Hixon Development Company  
P. O. Box 2810  
Farmington, New Mexico 87499

Supervisor - District III Office  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Application of Hixon Development Company  
for Unorthodox Location

Rio Arriba County, New Mexico

New Mexico Oil Conservation Division  
Case #9661

Prepared by Hixon Development Company

April 26, 1989

Application of Hixon Development Company  
for Unorthodox Location  
Rio Arriba County, New Mexico

New Mexico Oil Conservation Division  
Case #9661

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Hixon Development Company  
Missy Well No. 3  
330' FSL, 2310' FWL  
Section 35, T25N, R3W  
Rio Arriba Co., NM

March 14, 1989

John Corbett of Hixon Development called NMOCD office in Aztec, NM regarding numbering, allowable, and legal location of infill wells in the West Lindrith Gallup/Dakota pool. Proposed well to be named the Missy No. 3, location of 330' FSL, 2310' FWL, Sec. 35, T25N, R3W was allowed provided we were 660' from the Mobil Lindrith B No. 75 and the Missy No. 2, top allowable of 382 BOD and 2,000 GOR was not to be exceeded by combined production of the Missy No. 2 and No. 3.

March 15, 1989

Charles Harraden of Hixon Development Company and Ed Risenhoover (Professional Surveyor) staked location.

March 17, 1989

Received approved APD from NMOCD in Aztec.

Received verbal approval from landowner to build location.

March 20 - 27, 1989

Built location.

March 28, 1989

Mobil picked up a copy of the APD at NMOCD in Aztec.

March 30, 1989

Arapahoe Drilling Company rig #7 spudded well at 1:00 pm.

Frank Chaves of NMOCD called at 4:20 pm to notify Hixon Development that the location may be nonstandard.

March 31, 1989

Verified that location was nonstandard.

April 3, 1989

Placed case on NMOCD docket for April 26 seeking approval of nonstandard location.

Notified offset operator (Mobil) of pending hearing.

April 20, 1989

Mobil proposed allowable for Missy 3 of 79.8 BOD based on (382 BOD / 2 wells) (330' / 790').

Missy 3 w.t. —

LAW OFFICES

TANSEY, ROSEBROUGH, GERDING & STROTHER, P.C.

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FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 325-1801

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Mailing Address:  
P. O. Box 1020  
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April 3, 1989

State of New Mexico  
Energy and Minerals Department  
New Mexico Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

Attn: William J. Lemay, Division Director

Re: Application of Hixon Development Company  
for Unorthodox Oil Well Location  
Hixon Development Company Missy #3 Well  
Rio Arriba County, New Mexico


Gentlemen:

Hixon Development Company hereby applies for an Order of the New Mexico Oil Conservation Division approving an unorthodox oil well location 330 FSL and 2310 FWL (Unit N) of Section 35, Township 25 North, Range 3 West, N.M.P.M., West Lindrith Gallup-Dakota Oil Pool, the SW/4 of said Section 35 to be dedicated to the Hixon Development Company Missy #3 Well forming a standard 160-acre oil spacing and proration unit for said pool.

By telephone communication of this date, this application was verbally transmitted to Florene Davidson in your office. I advised Ms. Davidson that it is the desire of Hixon Development Company that this application be placed on the April 26, 1989 Examiner Hearing Docket of the New Mexico Oil Conservation Division.

Please advise should you require any additional information.

Sincerely,

  
TOMMY ROBERTS, Attorney  
for Hixon Development Company

# Hixon Development

COMPANY

April 3, 1989

Mobil Oil Corporation  
1225 17th Street  
Post Office Box 5444  
Denver, Colorado 80217

Subject: Application of Hixon Development Company  
for Unorthodox Oil Well Location  
Hixon Development Company Missy #3 Well  
Rio Arriba County, New Mexico

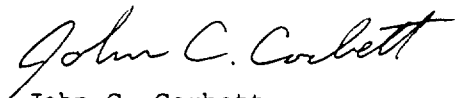
Gentlemen:

The purpose of this letter is to provide notice to you, in accordance with the rules and regulations of the New Mexico Oil Conservation Division, that Hixon Development Company has filed an application with the New Mexico Oil Conservation Division seeking and Order approving an unorthodox oil well location 330' FSL and 2310' FWL (Unit N) of Section 35, Township 25 North, Range 3 West, N.M.P.M., West Lindrith Gallup-Dakota Oil Pool, the SW/4 of said Section 35 to be dedicated to the Hixon Development Company Missy #3 Well forming a standard 160-acre oil spacing and proration unit for said pool.

This application has been placed on the April 26, 1989 Docket of the New Mexico Oil Conservation Division. In accordance with rules and regulations of the New Mexico Oil Conservation Division, you are entitled to be present at the hearing to present testimony and to submit evidence in support of your position regarding the merits of the application.

If you have any questions please call me at 326-3325 or write to me at the letterhead address.

Very truly yours,

  
John C. Corbett  
Vice President - Exploration

JCC/plc

CERTIFIED - RETURN RECEIPT REQUESTED  
P 950 806 348

xc: New Mexico Oil Conservation Division  
Attn: William J. Lemay, Division Director  
Post Office Box 2088  
Santa Fe, New Mexico 87501-2088

Is your RETURN ADDRESS  
completed on the reverse side?

PS Form 3811, Mar. 1988 \* U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:

Mobil Oil Corporation  
P. O. Box 5444  
Denver, Colorado 80217

4. Article Number: F 950 806 348

Type of Service:

☐ Registered ☒ Certified ☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Address

6. Signature - Agent

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

Thank you for using  
Return Receipt Service.

P 950 806 348

RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

Mobil Oil Corporation	
Street and No.	
P. O. Box 5444	
P.O., State and Zip Code	
Denver, Colorado 80217	
Postage	\$ .25
Certified Fee	.85
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	.90
TOTAL Postage and Fees	\$ 2.00
Postmark or Date	4-3-89

PS Form 3800, June 1985

Fold at the top of envelope to the right of the return address

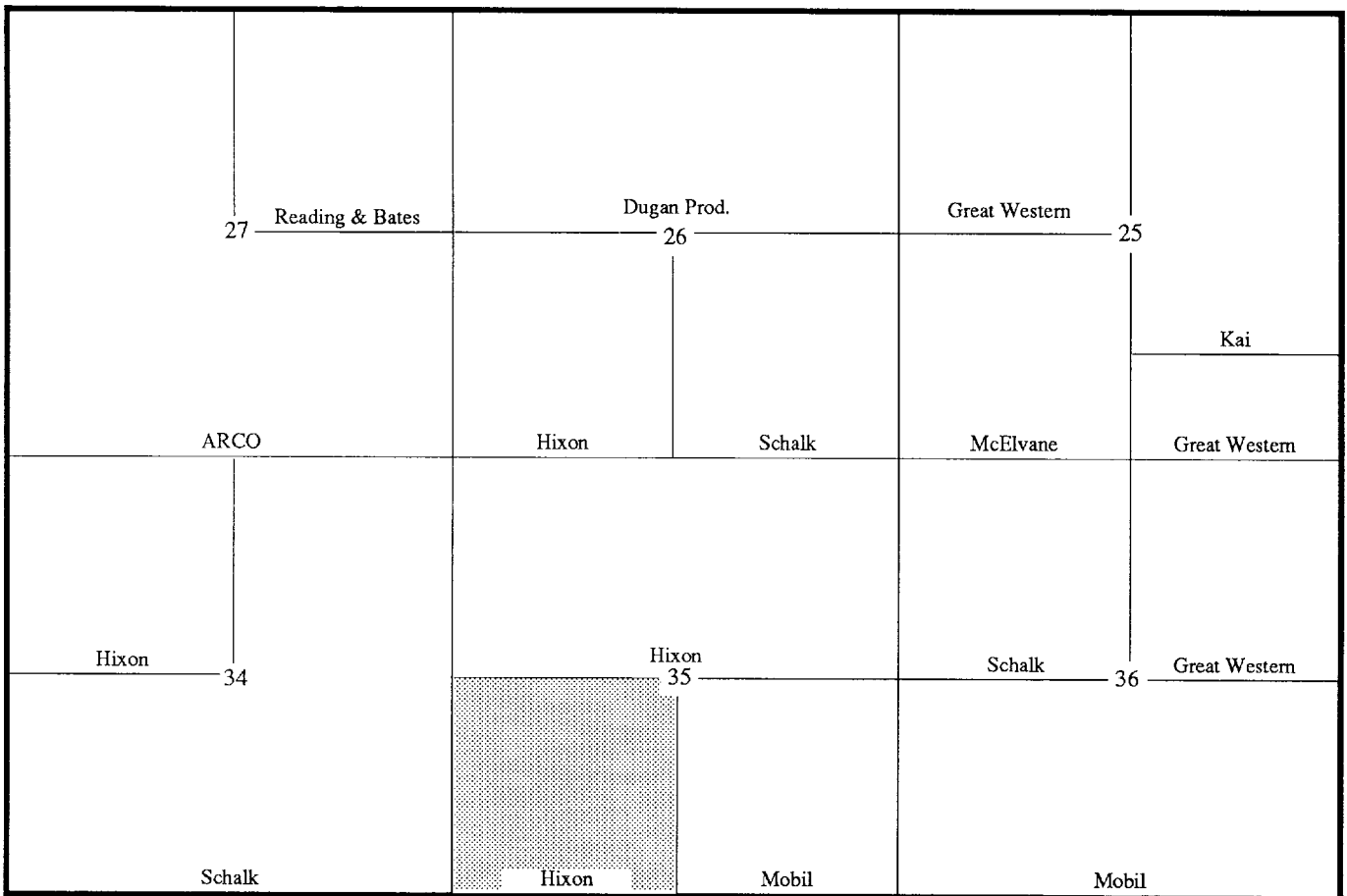
CERTIFIED

P 950 806 348

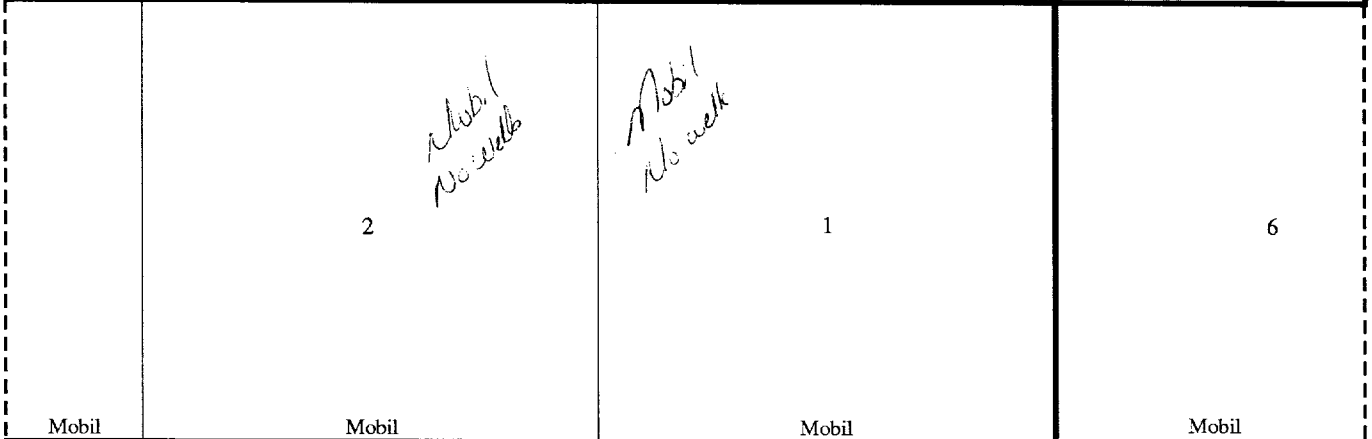
MAIL

R3W

T  
25  
N



T  
24  
N



R3W

R2W

### MISSY WELL NO. 3 AREA

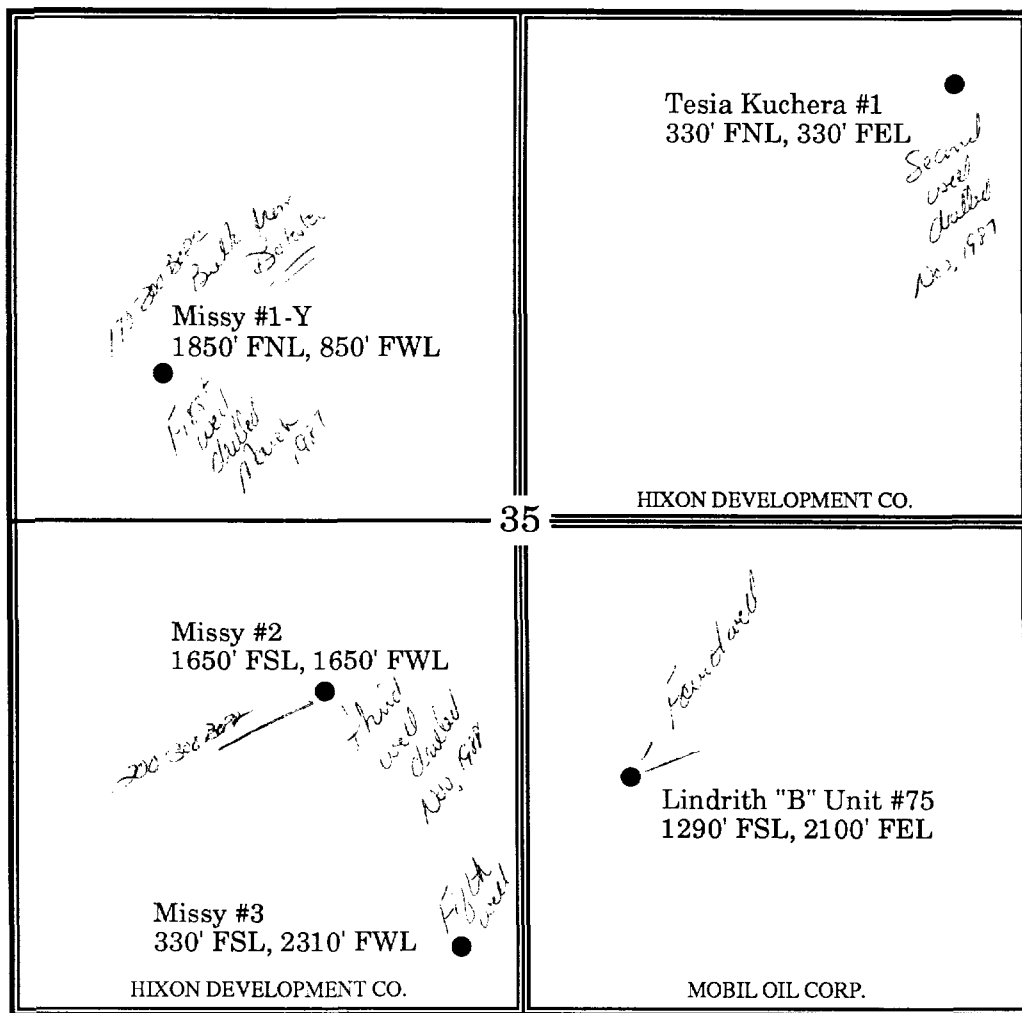
West Lindrith Gallup /Dakota Pool

Rio Arriba Co., New Mexico

scale: 1" = 2,275'

R3W

T  
25  
N



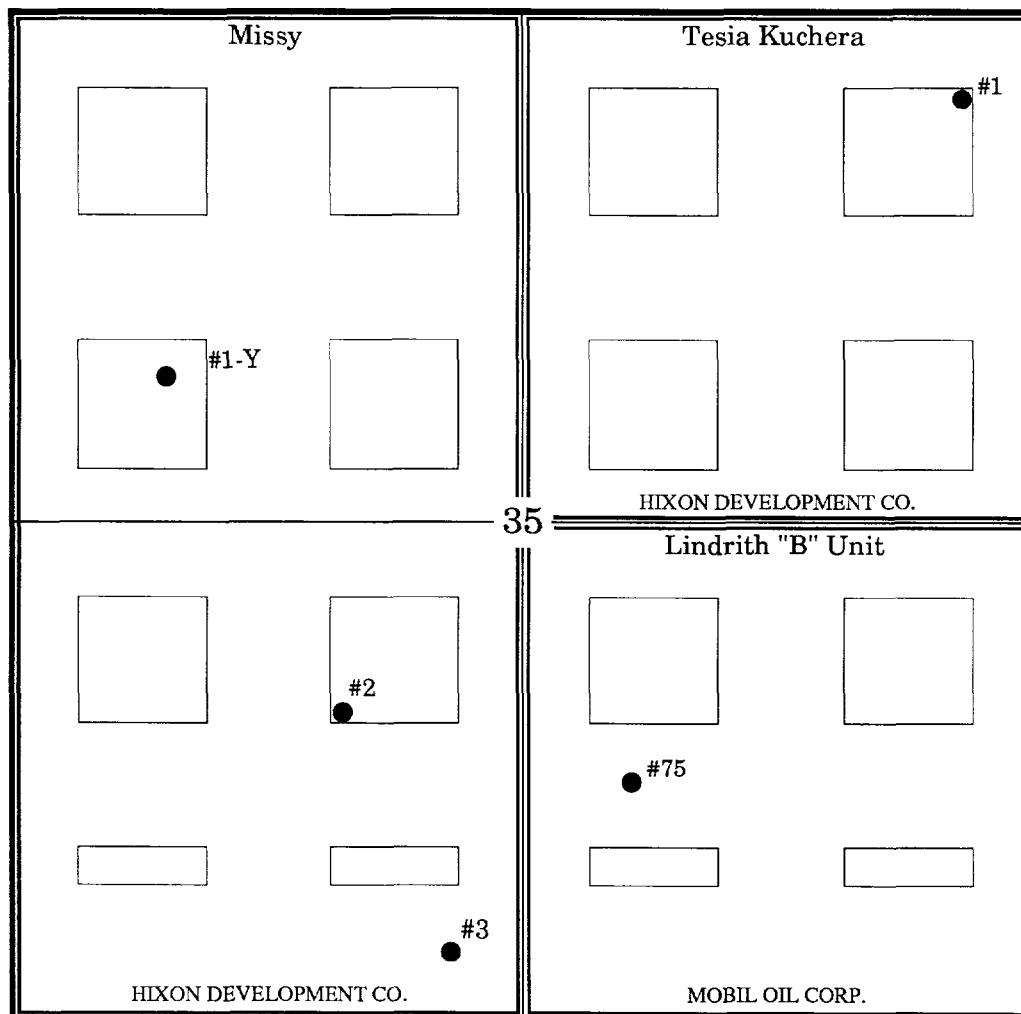
scale: 1" = 1,000'

## West Lindrith Gallup / Dakota Pool

Rio Arriba Co., New Mexico

R3W

T  
25  
N



scale: 1" = 1,000'

## West Lindrith Gallup / Dakota Pool

Rio Arriba Co., New Mexico

Plat showing location and operator of existing  
Gallup and Dakota wells, and legal drilling windows.

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-101  
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  
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)  
30-039-2433

5. Indicate Type of Lease  
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name  
Missy

8. Well No.  
3

9. Pool name or Wildcat  
West Lindrith Gallup/Dakota

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:  
DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:  
OIL WELL ☒ GAS WELL ☐ OTHER ☐  
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator  
Hixon Development Company

3. Address of Operator  
P.O. Box 2810, Farmington, New Mexico 87499

4. Well Location  
Unit Letter N : 330 Feet From The South Line and 2310 Feet From The West Line  
Section 35 Township 25N Range 3W NMPM Rio Arriba County

10. Proposed Depth  
8030'

11. Formation  
Gallup/Dakota

12. Rotary or C.T.  
Rotary

13. Elevations (Show whether DF, RT, GR, etc.)  
7038' GLE

14. Kind & Status Plug, Bond

15. Drilling Contractor  
Unknown

16. Approx. Date Work will start  
March 26, 1989

17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
<u>12-1/4"</u>	<u>9-5/8"</u>	<u>36.0#</u>	<u>250'</u>	<u>160 sks.</u>	<u>Surface</u>
<u>8-3/4"</u>	<u>5-1/2"</u>	<u>17.0#</u>	<u>8030'</u>	<u>1035 sks.</u>	<u>Surface</u>

160 acres join 4/42

It is proposed to drill the subject West Lindrith Gallup/Dakota oil well. It will be evaluated on the basis of open hole logs. Storage facilities will be located on the site. A BOP will be used during drilling operations.

APPROVAL EXPIRES 9-17-89  
UNLESS DRILLING IS COMMENCED.  
SPUD NOTICE MUST BE SUBMITTED  
WITHIN

RECEIVED  
MAR 7 1989  
OIL CON. DIV.

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 BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE John C. Corbett TITLE Vice President-Exploration DATE March 16, 1989  
TYPE OR PRINT NAME John C. Corbett TELEPHONE NO.

(This space for State Use)

APPROVED BY [Signature] TITLE [Signature] DATE MAR 17 1989  
CONDITIONS OF APPROVAL, IF ANY:



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  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

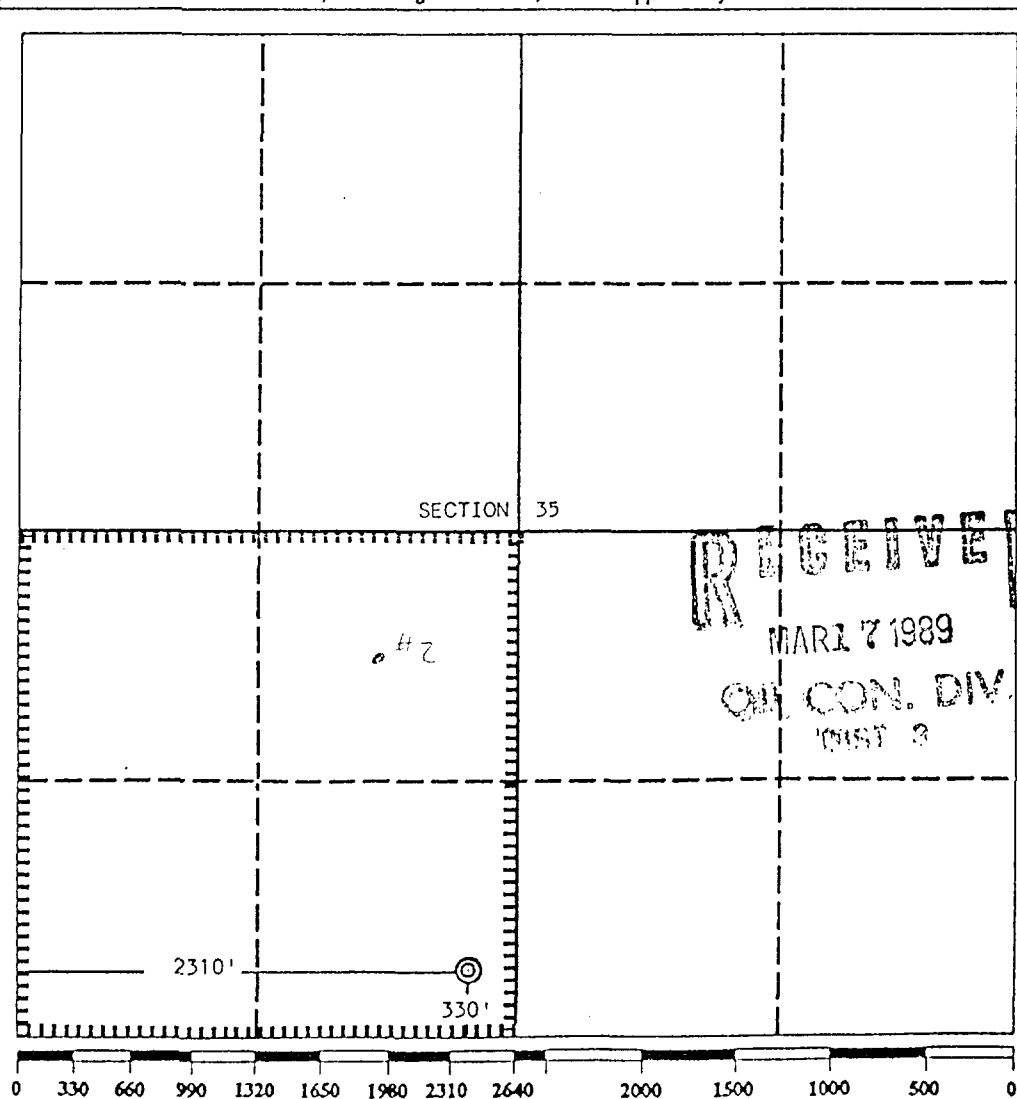
All Distances must be from the outer boundaries of the section

Operator Hixon Development Company			Lease Missy		Well No. 3
Unit Letter N	Section 35	Township 25N	Range 3W	County NMPM	Rio Arriba
Actual Footage Location of Well: 330 feet from the South line and 2310 feet from the West line					
Ground level Elev. 7038	Producing Formation Gallup/Dakota	Pool West Lindrith Gallup/Dakota	Dedicated Acreage: 160 Acres		

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 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  
*John C. Corbett*  
Printed Name  
John C. Corbett  
Position  
Vice President - Exploration  
Company  
Hixon Development Co.  
Date  
March 16, 1989

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  
March 15, 1989  
Signature & Seal of Professional Surveyor  
*Edgar L. Risenhoover*  
Certificate No. 5970  
Edgar L. Risenhoover  
REGISTERED LAND SURVEYOR  
NEW MEXICO

WF

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

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

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

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

WELL API NO. 30-039-24373
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name  Missy
8. Well No. 3
9. Pool name or Wildcat West Lindrith Gallup/Dakota
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 7038' GLE

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	2. Name of Operator Hixon Development Company
3. Address of Operator P.O. Box 2810, Farmington, N.M. 87499	4. Well Location Unit Letter N : 330 Feet From The South Line and 2310 Feet From The West Line Section 35 Township 25N Range 3W NMPM Rio Arriba County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER: Drilling Progress ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spudded surface at 1:00 p.m. on Wednesday, March 29, 1989. Drilled 12-1/4" hole to 262'. Ran 6 jts. (242.90') of 9-5/8", 36#, LT&C casing. Set casing at 257.90' KB. Cemented casing as follows: Mixed and pumped 160 sks. (189 cu. ft.) of Class "B" cement containing 2% CaCl and 1/4#/sk. Cellophane flakes. Cement circulated to surface.

RECEIVED

APR 3 - 1989

OIL CON. DIV.

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

SIGNATURE Bruce E. Delventhal TITLE Petroleum Engineer DATE March 31, 1989  
TYPE OR PRINT NAME Bruce E. Delventhal TELEPHONE NO.

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT DATE APR 03 1989  
CONDITIONS OF APPROVAL, IF ANY:

Missy #3  
well file D

Surface Damages Release  
and Grant of Right-of-Way

Know All Men By These Presents:

That for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, this day paid to the undersigned by Hixon Development Company, the receipt and sufficiency of which are hereby acknowledged for all purposes, the undersigned, as the owners of one hundred percent (100%) of the surface of the hereinafter described lands, and their heirs, successors, and assigns, do hereby release Hixon Development Company, their successors, agents, assigns, and employees from any and all claims for damages to the surface of the hereinafter described lands resulting from the drilling, completion, operation, maintenance and/or abandonment of an oil or gas well to be commenced on said lands at a location described in the Exhibit "A" attached hereto and made a part hereof by this specific reference for all purposes.

The consideration paid hereunder shall also compensate the undersigned for damages sustained, or which may be sustained, as a result of the construction, use and maintenance of an access road on said lands necessary for access to the well identified above and a pipeline on said lands necessary to the transportation of production from said well.

In conjunction with the execution of this release, the undersigned do hereby grant unto Hixon Development Company, their successors, agents, assigns, and employees, a right-of-way over, on and across the surface of the hereinafter described lands for the construction and subsequent use of the well site location, an access road thereto, and any pipeline necessary for the transportation of production therefrom.

In Witness whereof, this release is voluntarily entered into and executed this 21st day of March, 1989.

Charles E. Myers  
Charles E. Myers

Phyllis E. Myers  
Phyllis E. Myers

State of New Mexico )  
                                  )SS.  
County of Valencia )

Before me, the undersigned authority, on this 21st day of March, 1989 personally appeared Charles E. Myers and Phyllis E. Myers, husband and wife, who are known to me to be the persons who executed the foregoing instrument and who acknowledged to me that they executed the same as their free act and deed for all of the purposes therein stated.

Subscribed and sworn to me this 21<sup>st</sup> day of March, 1989.

My commission Expires



Thelma D. Coffey  
Notary Public  
By: Thelma D. Coffey

EXHIBIT "A"

Attached to and made a part of that certain Surface Damages Release  
and Right-of-Way dated March 21st, 1989 by and between Charles E.  
Myers and Phyllis E. Myers; and Hixon Development Company

Lands to which this release generally applies

T25N-R3W, N.M.P.M.  
Section 35: W/2  
Containing 320.00 acres, more or less  
Rio Arriba County, New Mexico

68219

FILED IN THE COUNTY  
CLERK'S OFFICE  
AT 1:30 O'CLOCK P. M.  
Book 126 Page 382-383

APR 3 1989

DAVID S. CHAVEZ  
County Clerk Rio Arriba County  
New Mexico

By Shirley M. Chavez Deputy



# Mobil Exploration & Producing U.S. Inc.

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

April 4, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Frank T. Chavez  
District Supervisor  
New Mexico Oil Conservation Division  
Aztec District  
1000 Rio Brazos Road  
Aztec, NM 87410

UNAPPROVED UNORTHODOX LOCATION  
HIXON #3 MISSY  
SECTION 35-T25N-R3W  
W. LINDRITH GALLUP-DAKOTA POOL  
RIO ARriba COUNTY, NEW MEXICO

Dear Frank:

This letter is to follow up on our recent phone conversations identifying that the Hixon Development Company #3 Missy is in an unapproved unorthodox location. The unorthodox location is due to the location of the well being 330 feet north of the boundary of the West Lindrith Gallup-Dakota Oil Pool. Rule 4 of NMOCD Order R-4314-A specifically states that wells must be 790 feet back from the pool boundary. The #3 Missy does not meet this criteria.

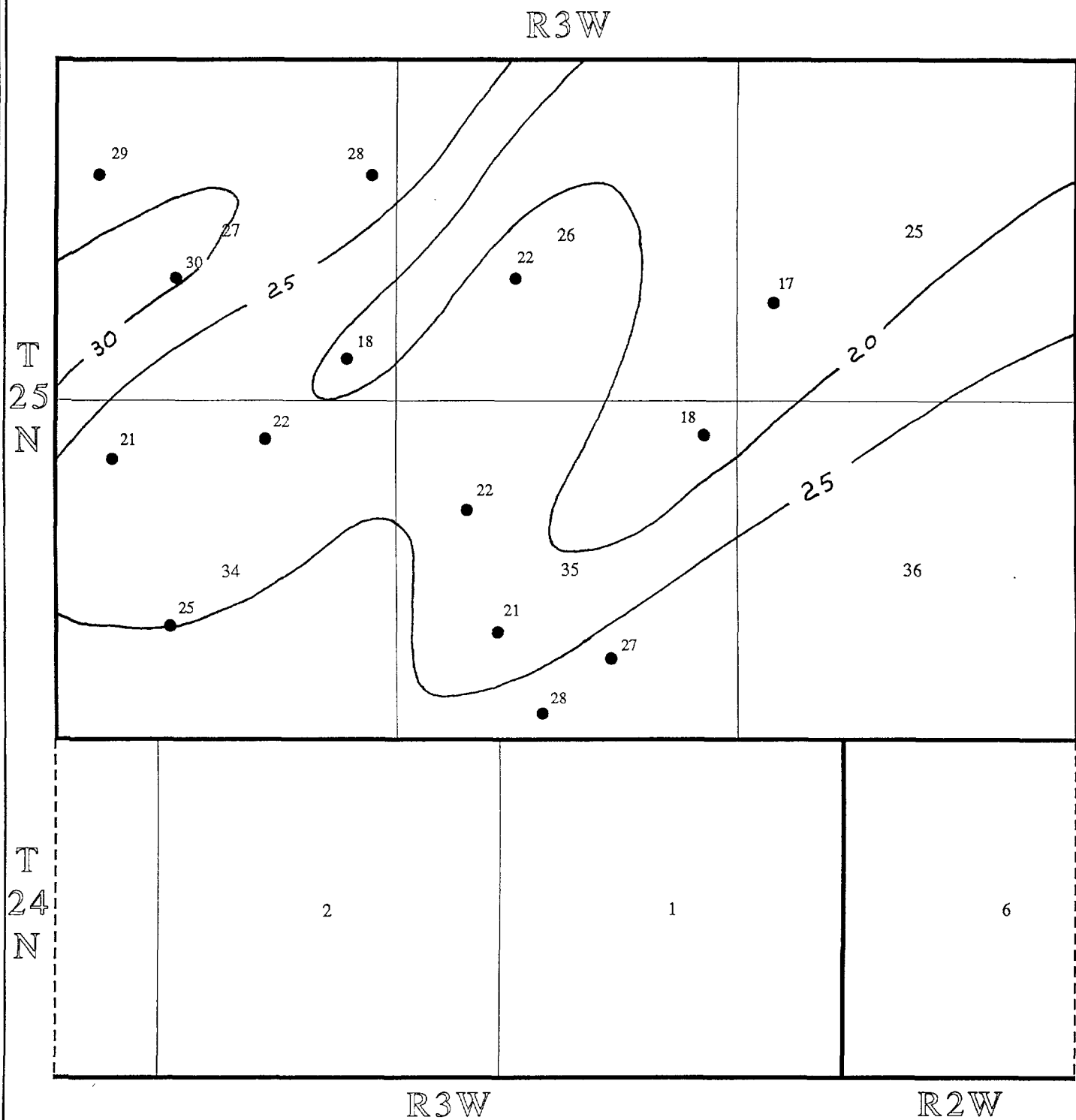
It is our understanding that Hixon Development Company was notified of the unapproved status of their unorthodox location and have elected to continue to drill the well which was spudded before we were aware of their permit. Therefore, we request that the Hixon well not be allowed to produce beyond a 30 calendar day test period until this matter can be brought to hearing and the subject of a well allowable and the unorthodox location be resolved. Further, it is requested that Mobil receive notice of this hearing at the above-listed address.

Very truly yours,



B. R. Maynard  
Regulatory Compliance Manager

CNEggerman/jag  
CNE8907



Ispach Map of the Dakota "C" Sand

Missy Well No. 3 Area

West Lindrith Gallup /Dakota Pool

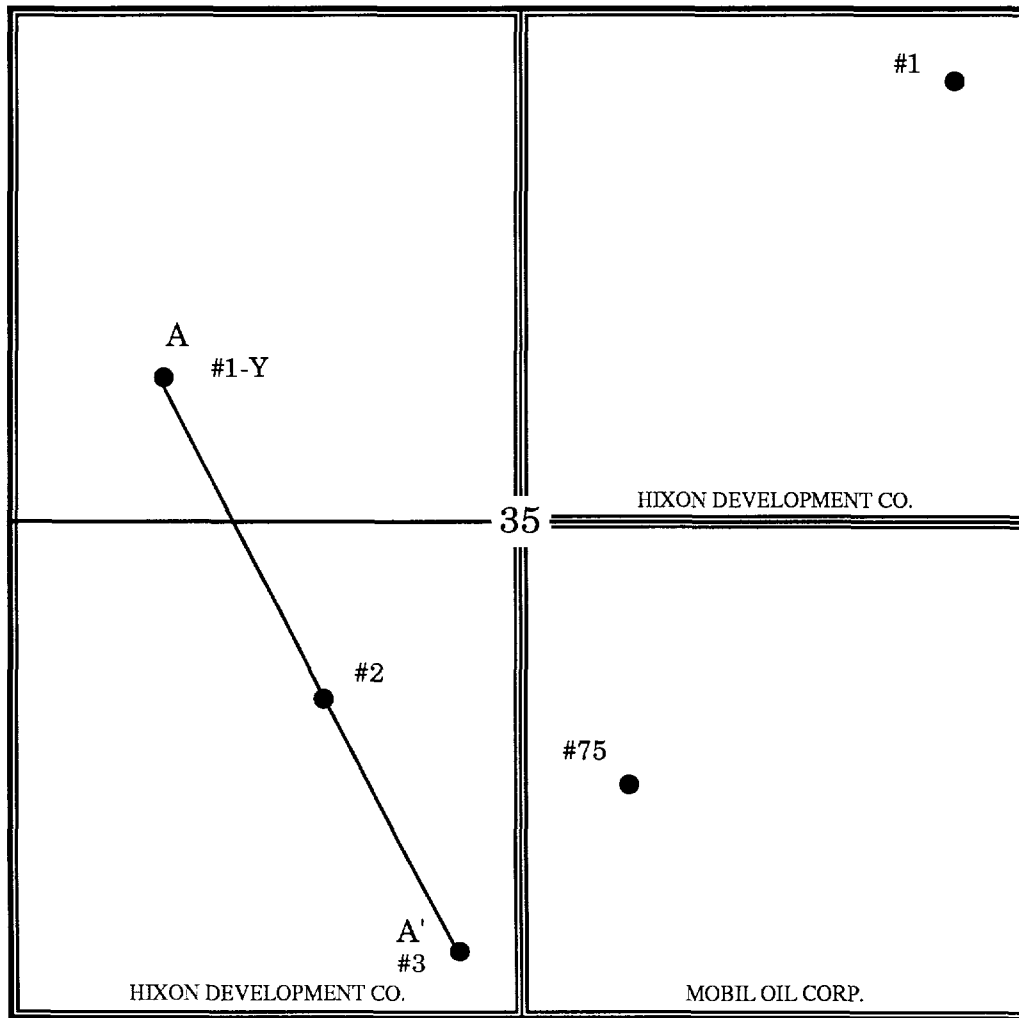
Rio Arriba Co., New Mexico

scale: 1" = 2,275'

C.I. = 5'

R3W

T  
25  
N



scale: 1" = 1,000'

## Cross Section A - A'

Showing Dakota Pay Zone

West Lindrith Gallup / Dakota Pool

Rio Arriba Co., New Mexico

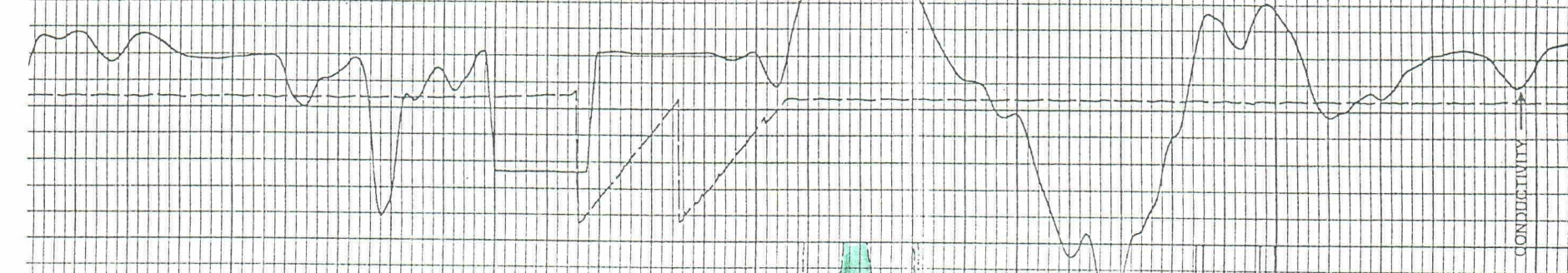
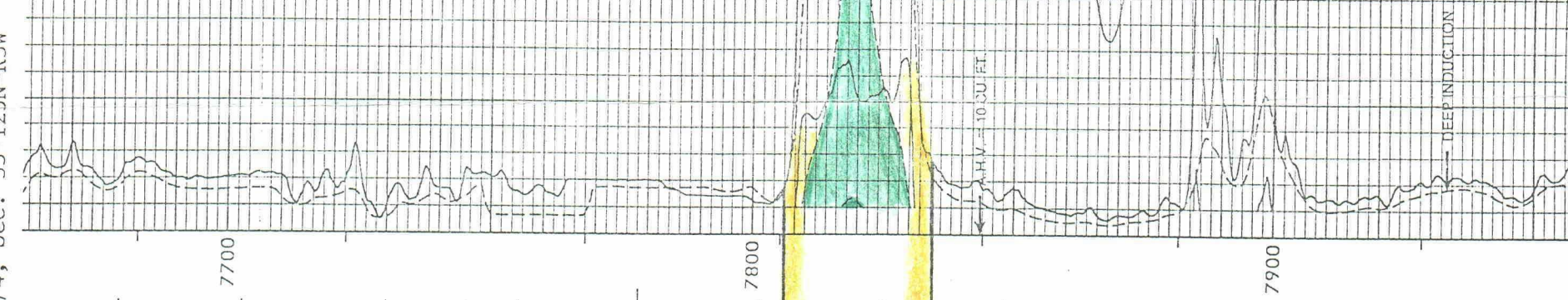
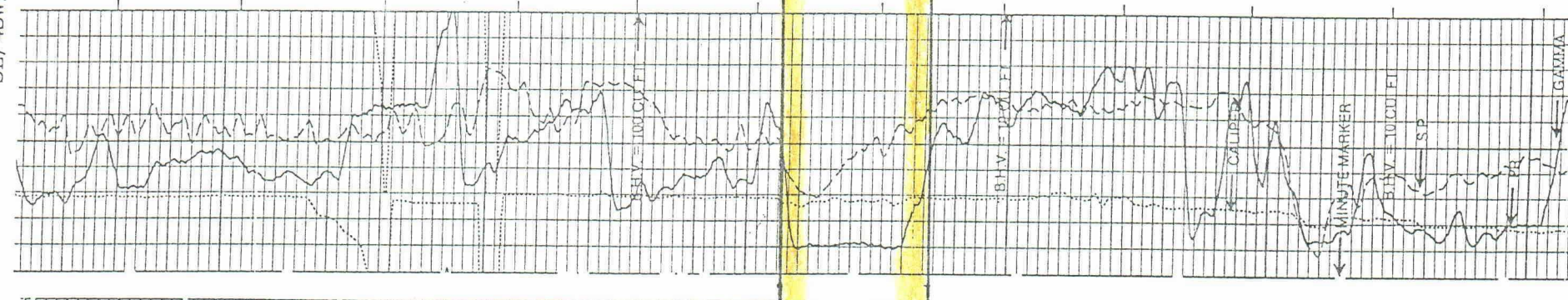
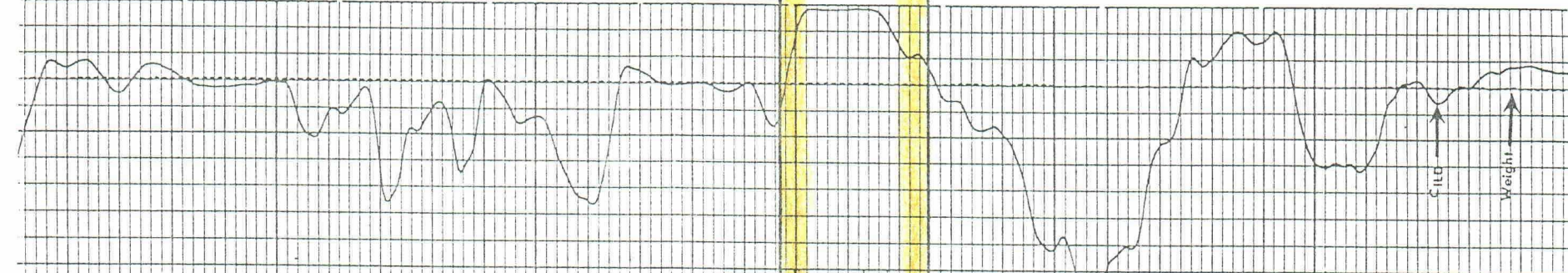
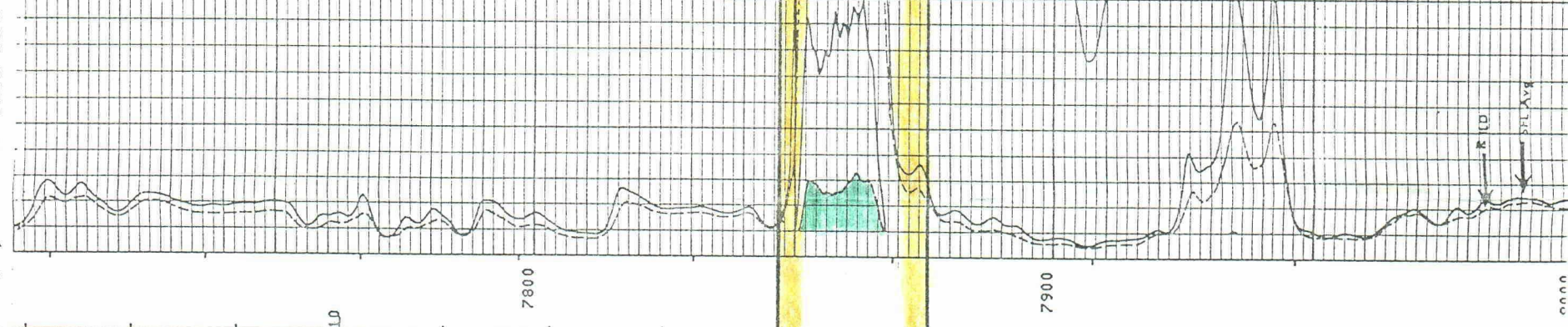
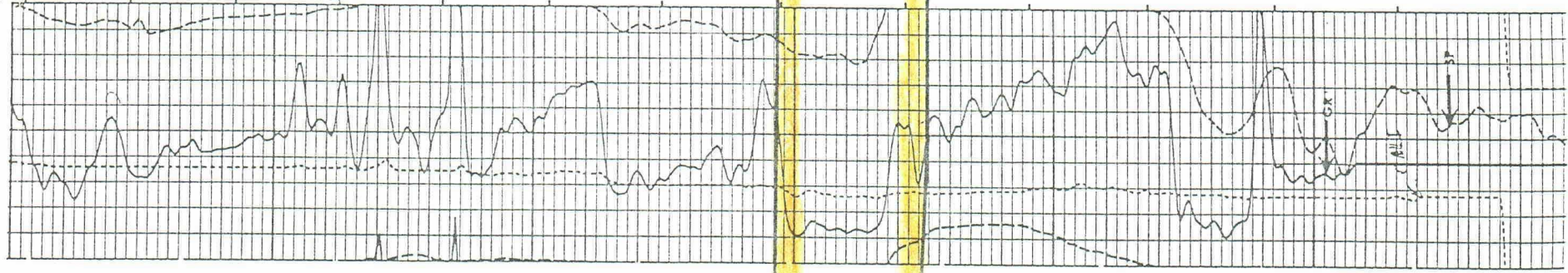
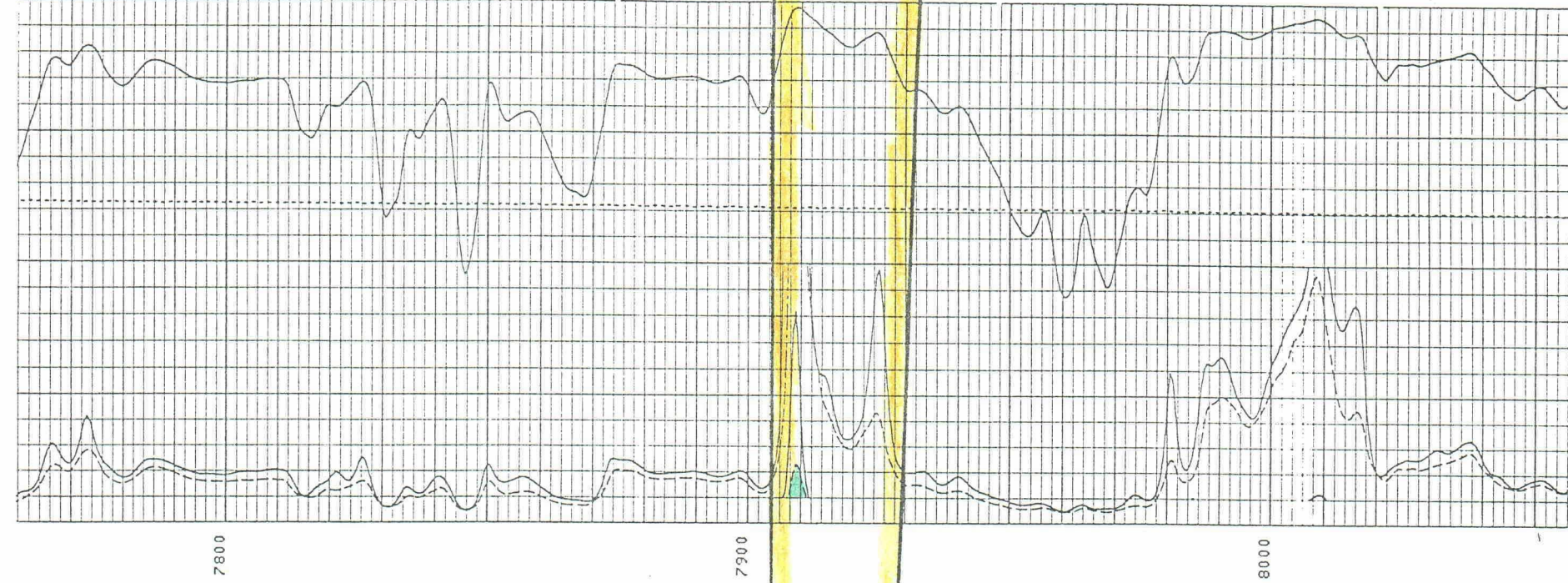
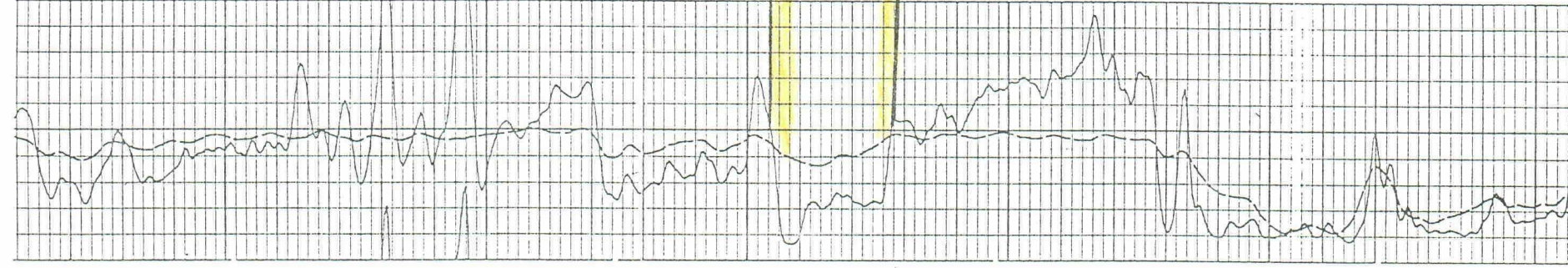


Hixon Development Company  
Missy Lease Dakota "C" Zone  
Induction-Electric Logs

Missy No. 1-Y  
SW/4NW/4, Sec. 35-T25N-R3W

Missy No. 2  
NE/4SW/4, Sec. 35-T25N-R3W

Missy No. 3  
SE/4SW/4, Sec. 35-T25N-R3W



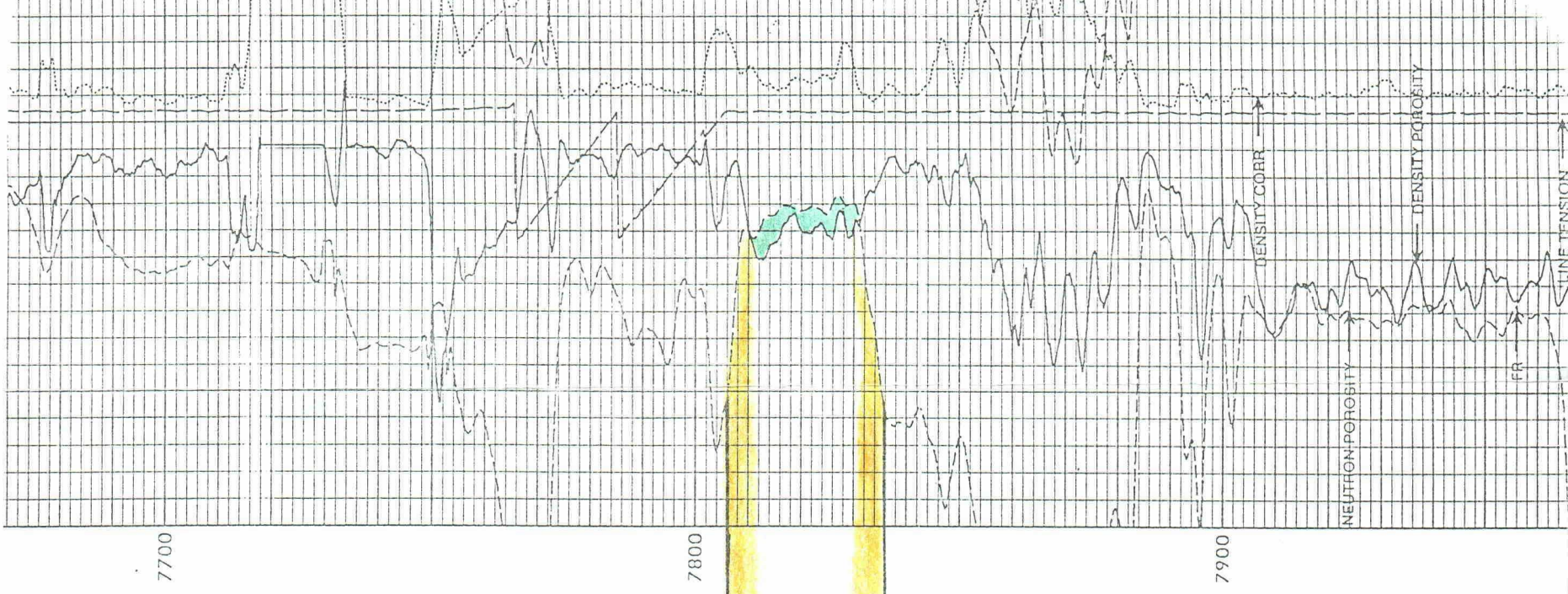
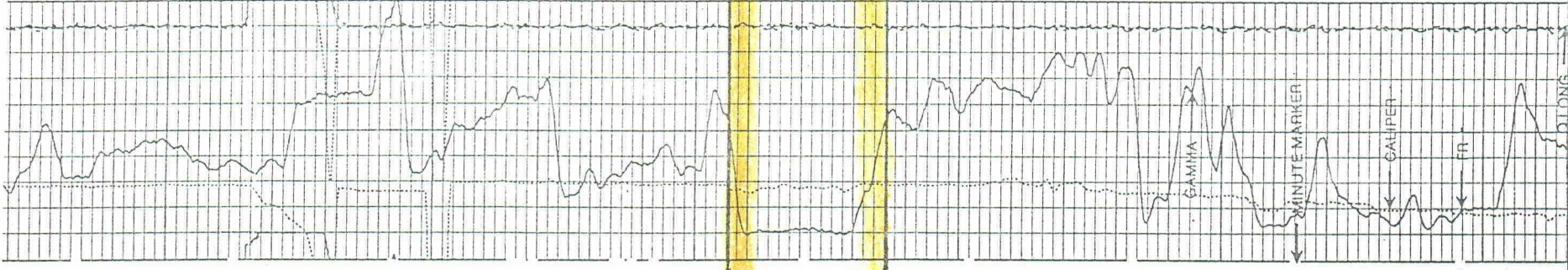
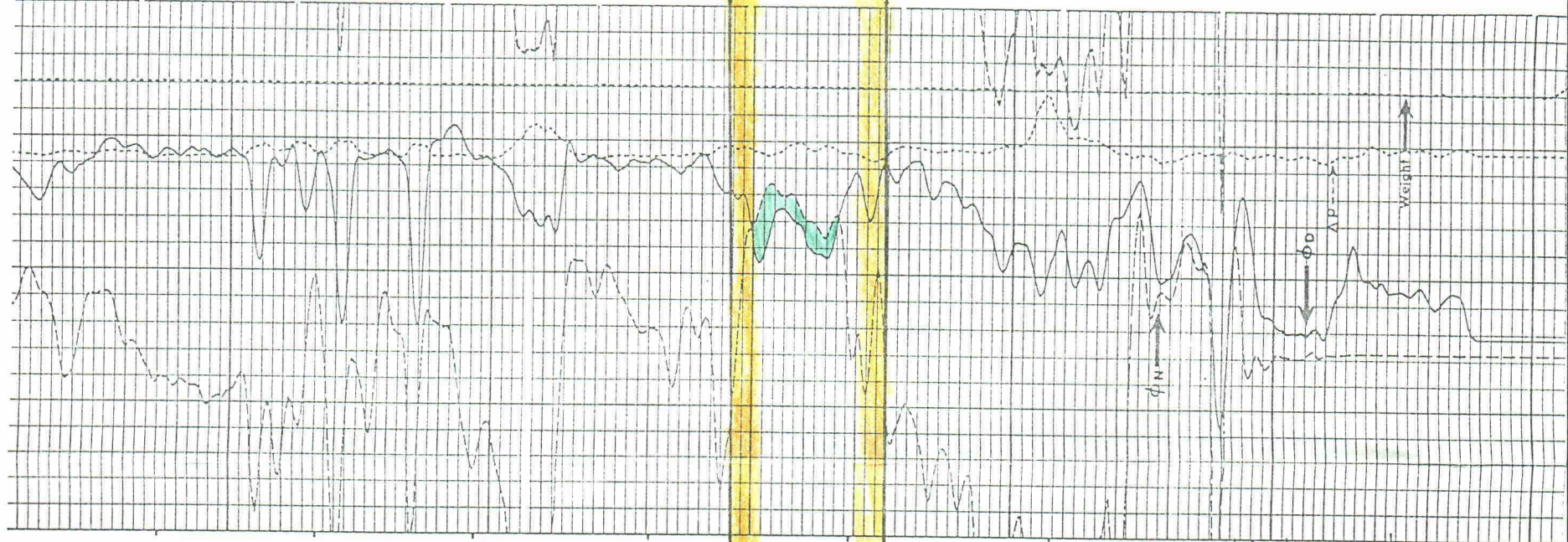
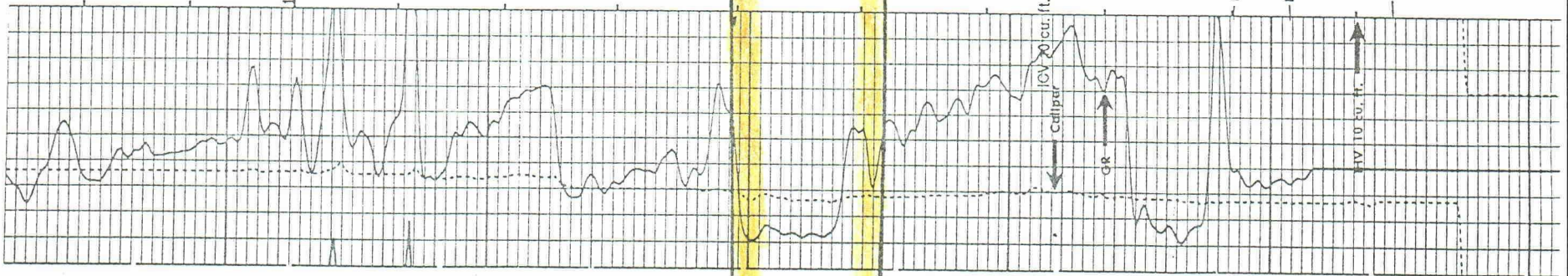
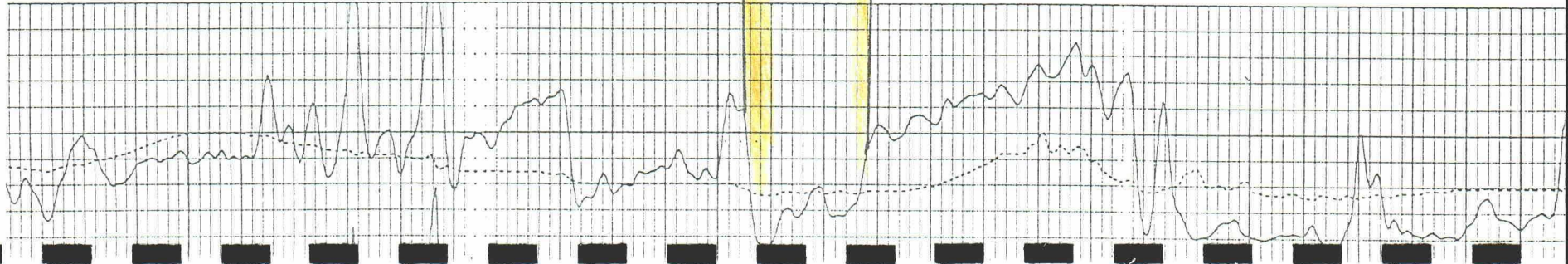


Hixon Development Company  
Missy Lease Dakota "C" Zone  
Spectral Density - Dual Spaced Neutron Logs

Missy No. 1-Y  
SW/4NW/4 Sec. 35-T25N-R3W

Missy No. 2  
NE/4SW/4, Sec. 35-T25N-R3W

Missy No. 3  
SE/4SW/4, Sec. 35-T25N-R3W





Well Name Missy						Well No. 3		Field West Lindrith Gallup/Dakota	
Location 330' FSL & 2310' FWL Section 35, T25N, R3W						County Rio Arriba		State New Mexico	
Information Dakota						Est. Total Depth: 8030'			

						PRODUCING WELL			DRY HOLE
						Sub.	Total		
<b>TUBULAR GOODS</b>									
Surface Casing	250	Ft.	9-5/8	Inch.	13.50 \$/Ft.	\$ 3,375		\$ 3,375	
Int. Casing		Ft.		Inch.					
Prod. Casing	8030	Ft.	5-1/2	Inch.	8.00 \$/Ft.	64,240		64,240	
		Ft.		Inch.					
		Ft.		Inch.					
Tubing	8030	Ft.	2-7/8	Inch.	2.75 \$/Ft.	22,083			
Line Pipe	2500	Ft.	2	Inch.	2.65 \$/Ft.	6,625	\$ 96,323		
<b>WELLHEAD EQUIPMENT:</b> Wellhead, Production Tanks, Treater, Meter, Valves & Fittings, etc.						60,000	60,000		
<b>OTHER EQUIPMENT</b> Liner Hangers and Production Packers									
<b>CONTRACT COSTS:</b>									
Footage	8030	Ft.	12.40		\$/Ft.	99,572		99,572	
Daywork	2	Day	3850		\$/Day	7,700		7,700	
Daywork		Day			\$/Day				
Daywork Completion	15	Day	1050		\$/Day	15,750	123,022	15,750	
<b>CEMENTING: (Cement and Pump Trucks)</b>									
Surface						3,200		3,200	
Intermediate						12,000		12,000	
Production									
Liner									
Liner P & A								4,000	
Sq. Job.							15,200		
<b>FORMATION TREATMENT:</b>									
Acidizing						2,000		2,000	
Fracturing Equipment						50,000		50,000	
Fluid		Gal.	Oil						
		Gal.	Water						
Sand		Lbs.							
Tank Rental							52,000		
<b>ADDITIONAL SERVICES: (Surveys and Tests)</b>									
Perforating						5,000		5,000	
Mud Logging						16,000		16,000	
Electric and Radioactive Logging									
Drill Stem Tests							21,000		
Cores									
<b>MATERIALS:</b>									
Drilling Mud and Chemicals						30,000		30,000	
Drilling Gas or Air Water (Turnkey)									
Bits									
Fuel						5,000		5,000	
Cement Equipment (shoes, collars, etc.)									
Bridge Plugs and Retainers						22,733	57,733	15,000	
Miscellaneous (welding, hauling, rental of tongs, etc.)									
<b>ACCESS AND LOCATION:</b>						30,000	30,000	30,000	
Total Direct Cost						455,278	455,278	362,837	
Plus _____ %Contingency									
<b>ESTIMATED TOTAL COST</b>						\$ 455,278	\$ 455,278	\$ 362,837	
<b>WORKING INTEREST:</b>						ESTIMATED COST ONLY — Each participating owner to pay proportionate share of actual well cost subject to operating agreement.			
Others _____									

MISSY WELL NO. 3  
WEST LINDRITH GALLUP/DAKOTA

\* ECON PROGRAM \*  
AS OF 4 / 1989

DATE: 04-24-1989  
TIME: 19:18:18  
FILE: MISSY3

END MO-YR	NO. WELLS	* GROSS PRODUCTION *		* NET PRODUCTION *		* PRICES *		* * * * NET REVENUE * * * *			
		OIL	GAS	OIL	GAS	OIL	GAS	OIL	GAS	OTHER	TOTAL
----	----	MBBL-----	MMCF-----	MBBL-----	MMCF-----	\$/B---	\$/M---	M\$-----	M\$-----	M\$-----	M\$-----
12-89	0.7	40.965	28.676	30.724	21.507	18.00	1.43	553.029	30.755	0.000	583.784
12-90	1.0	44.585	31.209	33.439	23.407	18.00	1.43	601.896	33.472	0.000	635.368
12-91	1.0	30.212	21.149	22.659	15.861	18.00	1.43	407.864	22.682	0.000	430.546
12-92	1.0	20.473	14.331	15.355	10.748	18.00	1.43	276.382	15.370	0.000	291.752
12-93	1.0	13.873	9.711	10.405	7.283	18.00	1.43	187.286	10.415	0.000	197.701
12-94	1.0	9.401	6.581	7.051	4.935	18.00	1.43	126.911	7.058	0.000	133.969
12-95	1.0	6.370	4.459	4.778	3.344	18.00	1.43	85.999	4.783	0.000	90.782
12-96	1.0	4.317	3.022	3.238	2.266	18.00	1.43	58.275	3.241	0.000	61.516
12-97	0.5	1.565	1.096	1.174	0.822	18.00	1.43	21.132	1.175	0.000	22.307

REM.	0.0	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.000	0.000	0.000
TOT.	0.0	171.761	120.233	128.821	90.175	18.00	1.43	2318.773	128.950	0.000	2447.723

YR	& PROD TAX	ADVALOREM TAXES	WINDFALL TAXES	OPERATING EXPENSES	TOTAL EXPENSES	OPERATIONAL CASH FLOW	*** NET INVESTMENTS ***			CASH FLOW	10.0% CUM DISC C.F.
							TANGIBLE	INTANGIBLE	LEASEHOLD		
--	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
89	78.234	0.000	20.000	98.234	485.550	156.323	298.955	0.000	0.000	30.272	13.402
90	85.147	0.000	30.000	115.147	520.221	0.000	0.000	0.000	0.000	520.221	475.369
91	57.698	0.000	30.000	87.698	342.848	0.000	0.000	0.000	0.000	342.848	752.148
92	39.098	0.000	30.000	69.098	222.654	0.000	0.000	0.000	0.000	222.654	915.554
93	26.494	0.000	30.000	56.494	141.206	0.000	0.000	0.000	0.000	141.206	1009.764
94	17.953	0.000	30.000	47.953	86.015	0.000	0.000	0.000	0.000	86.015	1061.935
95	12.166	0.000	30.000	42.166	48.616	0.000	0.000	0.000	0.000	48.616	1088.741
96	8.244	0.000	30.000	38.244	23.272	0.000	0.000	0.000	0.000	23.272	1100.407
97	2.989	0.000	15.000	17.989	4.317	0.000	0.000	0.000	0.000	4.317	1102.374

REM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOT	328.023	0.000	245.000	573.023	1874.700	156.323	298.955	0.000	0.000	1419.422	1102.374

PROFITABILITY INDICATORS				REVERSION POINTS(YRS)		PRESENT WORTH PROFILE	
-----	-----	-----	-----	-----	-----	%----	M\$-----
PAYOUT (YRS)	0.70	INITIAL W.I.	100.0000	ULTIMATE OIL (MBBL)	171.8	5.0	1244.694
DISCOUNTED PAYOUT (YRS)	0.73	FINAL W.I.	100.0000	ULTIMATE GAS (MMCF)	120.2	10.0	1102.374
DCF RATE OF RETURN (%)	100.00	INITIAL NRI OIL	75.0000	BTU RATING	1000	15.0	984.564
INCOME/INVESTMENT	4.12	FINAL NRI OIL	75.0000	WINDFALL TIER	3	20.0	885.641
DISC INCOME/INVESTMENT	3.42	INITIAL NRI GAS	75.0000	MAJOR PHASE	OIL	25.0	801.535
PROJECT LIFE (YRS)	8.75	FINAL NRI GAS	75.0000	PROB. OF SUCCESS (%)	100.00	30.0	729.229
						40.0	611.473
MYERS ET. AL. FEE		RIO ARRIBA				50.0	519.791
MISSY NO. 3		NM				70.0	386.460
WEST LINDRITH GALLUP DAKOTA		HIXON DEVELOPMENT COMPANY				100.0	257.904

## INPUT DATA REPORT

DATE : 04-24-1989

TIME : 19:17:48

FILE : MISSY3

## LSE ID CODE

LEASE NAME MYERS ET. AL. FEE

WELL NAME MISSY NO. 3

FIELD NAME WEST LINDRITH GALLUP DAKOTA

COUNTY/ST RIO ARriba ,NM

OPERATOR HIXON DEVELOPMENT COMPANY

FOOTNOTE #1 MISSY WELL NO. 3

FOOTNOTE #2 WEST LINDRITH GALLUP/DAKOTA

MAJOR PHASE OIL

PROJECT START DATE 4/1989

ENDING MONTH 12

DISC RATE % 10.0

SELECTION CODE 111

ECONOMIC LIMIT YES

CASH FLOW FACTOR % 100.00

RESERVES FACTOR % 100.00

## LOCAL TAXES

OIL PROD. TAX % 8.44 ADVAL TAX % 5.00

STEP WELL NO

GAS PROD. TAX % 4.69 LEAP WELL NO

GAS PROD. TAX \$/M 0.16

## PRODUCT PRICES

OIL PRICE GAS PRICE-BTU RATING 1000

\$/BBL ESC % ESC \$ YRS \$/MCF ESC % ESC \$ YRS

18.000 30 1.430 30

30 30

30 30

30 30

30 30

0.000 MAXIMUM PRICE 6.000 MAXIMUM PRICE

## OPERATING EXPENSES

RATE ESC % YEARS ESC % YEARS

\$/W/M 2500 0.00 30 0.00 0

## WINDFALL PROFIT TAXES

WINDFALL CATEGORY IND B.P.INFLATOR % 6.00

TIER 3 90% N.I. LIMIT NO

WPT BASE PRICE \$/B 23.00

## OWNERSHIP PERCENTAGES

W.I. NRI OIL NRI GAS # OF YRS CUM NOI M\$ ROR%

100.0000 75.0000 75.0000 99.000 0.000 0.000

DECLINE	INITIAL	FINAL	DECLINE	TIME	CUMULATIVE
TYPE	---N---	---RATE---	---RATE---	-PERCENT	-MONTHS PROD X1000
OIL PROD START	5/89	EXP	0.000	191.000	8.000
OIL PROD UNITS	B/DAY			32.2367	97.84
NUMBER OF WELLS	1				171.761
GOR (SCF/BBL)	700.0				

GAS PROD START 5/89

GAS PROD UNITS M/MTH

NUMBER OF WELLS 0

YIELD (B/MMCF) 0.0

## GROSS CAPITAL INVESTMENTS

MO/YR TANG INTAN RISK % MO/YR TANG INTAN RISK %

4/89 156.3 299.0 100.00 12/ 0 0.0 0.0 100.00

12/ 0 0.0 0.0 100.00 12/ 0 0.0 0.0 100.00

12/ 0 0.0 0.0 100.00 12/ 0 0.0 0.0 100.00

12/ 0 0.0 0.0 100.00 12/ 0 0.0 0.0 100.00

12/ 0 0.0 0.0 100.00 12/ 0 0.0 0.0 100.00

ESC 0.00% FOR 30 YRS

## FEDERAL TAX INFORMATION

RATE TIME RATE

FED TAX RATE 46.00 30 0.00 TAX LOSS CRRY.FWRD. NO

DEPREC. METHOD ACRS

DEPREC. LIFE YRS 0

STAT. DEPL. NO B/O EQUIV. MCF/B 6.0

YR	WELLS	OIL	GAS	YR	WELLS	OIL	GAS
		MBBL	MMCF			MBBL	MMCF
89	0.7	40.965	28.676				
90	1.0	44.585	31.209				
91	1.0	30.212	21.149				
92	1.0	20.473	14.331				
93	1.0	13.873	9.711				
94	1.0	9.401	6.581				
95	1.0	6.370	4.459				
96	1.0	4.317	3.022				
97	0.5	1.565	1.096				

PRIOR PRODUCTION	0.000	0.000
TOTAL	171.761	120.233

MISSY WELL NO. 3  
WEST LINDRITH GALLUP/DAKOTA

\* ECON PROGRAM \*  
AS OF 4 / 1989

DATE: 04-24-1989  
TIME: 19:03:19  
FILE: MISSY3

END MO-YR	NO. WELLS	* GROSS PRODUCTION *		* NET PRODUCTION *		* PRICES *		* * * * NET REVENUE * * * *			
		OIL	GAS	OIL	GAS	OIL	GAS	OIL	GAS	OTHER	TOTAL
		----- MMBL-----	----- MMCF-----	----- MMBL-----	----- MMCF-----	\$/B---	\$/M---	MS-----	MS-----	MS-----	MS-----
12-89	0.7	19.431	13.602	14.573	10.201	18.00	1.43	262.323	14.588	0.000	276.911
12-90	1.0	29.147	20.403	21.860	15.302	18.00	1.43	393.484	21.882	0.000	415.366
12-91	1.0	29.147	20.403	21.860	15.302	18.00	1.43	393.484	21.882	0.000	415.366
12-92	1.0	27.244	19.071	20.433	14.303	18.00	1.43	367.793	20.453	0.000	388.246
12-93	1.0	20.273	14.191	15.205	10.644	18.00	1.43	273.691	15.220	0.000	288.912
12-94	1.0	14.800	10.360	11.100	7.770	18.00	1.43	199.795	11.111	0.000	210.906
12-95	1.0	10.804	7.563	8.103	5.672	18.00	1.43	145.850	8.111	0.000	153.961
12-96	1.0	7.887	5.521	5.915	4.141	18.00	1.43	106.470	5.921	0.000	112.392
12-97	1.0	5.757	4.030	4.318	3.023	18.00	1.43	77.724	4.322	0.000	82.046
12-98	1.0	4.203	2.942	3.152	2.206	18.00	1.43	56.738	3.155	0.000	59.893
12-99	1.0	3.068	2.148	2.301	1.611	18.00	1.43	41.419	2.303	0.000	43.722

REM.	0.0	0.000	0.000	0.000	0.000	0.00	0.00	0.000	0.000	0.000	0.000
TOT.	0.0	171.761	120.233	128.821	90.174	18.00	1.43	2318.771	128.949	0.000	2447.720

YR	ADVALOREM	WINDFALL	OPERATING	TOTAL	OPERATIONAL	*** NET INVESTMENTS ***			10.0% CUM	
	& PROD TAX	TAXES	EXPENSES	EXPENSES	CASH FLOW	TANGIBLE	INTANGIBLE	LEASEHOLD	CASH FLOW	DISC C.F.
--	MS-----	MS-----	MS-----	MS-----	MS-----	MS-----	MS-----	MS-----	MS-----	MS-----
89	37.109	0.000	20.000	57.109	219.801	156.323	298.955	0.000	-235.477	-243.114
90	55.664	0.000	30.000	85.664	329.702	0.000	0.000	0.000	329.702	49.669
91	55.664	0.000	30.000	85.664	329.702	0.000	0.000	0.000	329.702	315.835
92	52.029	0.000	30.000	82.029	306.217	0.000	0.000	0.000	306.217	540.568
93	38.717	0.000	30.000	68.717	220.194	0.000	0.000	0.000	220.194	687.478
94	28.264	0.000	30.000	58.264	152.642	0.000	0.000	0.000	152.642	780.060
95	20.633	0.000	30.000	50.633	103.328	0.000	0.000	0.000	103.328	837.034
96	15.062	0.000	30.000	45.062	67.330	0.000	0.000	0.000	67.330	870.784
97	10.995	0.000	30.000	40.995	41.051	0.000	0.000	0.000	41.051	889.491
98	8.026	0.000	30.000	38.026	21.867	0.000	0.000	0.000	21.867	898.550
99	5.859	0.000	30.000	35.859	7.863	0.000	0.000	0.000	7.863	901.511

REM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOT	328.022	0.000	320.000	648.022	1799.697	156.323	298.955	0.000	1344.419	901.511

PROFITABILITY INDICATORS				REVERSION POINTS(YRS)		PRESENT WORTH PROFILE	
-----						%----	MS-----
PAYOUT (YRS)	1.46	INITIAL W.I.	100.0000	ULTIMATE OIL (MMBL)	171.8	5.0	1094.316
DISCOUNTED PAYOUT (YRS)	1.58	FINAL W.I.	100.0000	ULTIMATE GAS (MMCF)	120.2	10.0	901.511
DCF RATE OF RETURN (%)	93.50	INITIAL NRI OIL	75.0000	BTU RATING	1000	15.0	749.581
INCOME/INVESTMENT	3.95	FINAL NRI OIL	75.0000	WINDFALL TIER	3	20.0	627.544
DISC INCOME/INVESTMENT	2.98	INITIAL NRI GAS	75.0000	MAJOR PHASE	OIL	25.0	527.863
PROJECT LIFE (YRS)	10.75	FINAL NRI GAS	75.0000	PROB. OF SUCCESS (%)	100.00	30.0	445.234
						40.0	316.890
MYERS ET. AL. FEE		RIO ARRIBA				50.0	222.454
MISSY NO. 3		NM				70.0	93.998
WEST LINDRITH GALLUP DAKOTA		HIXON DEVELOPMENT COMPANY				100.0	-19.503

## INPUT DATA REPORT

DATE : 04-24-1989

TIME : 19:02:16

FILE : MISSY3

## LSE ID CODE

LEASE NAME MYERS ET. AL. FEE

WELL NAME MISSY NO. 3

FIELD NAME WEST LINDRITH GALLUP DAKOTA

COUNTY/ST RIO ARriba ,NM

OPERATOR HIXON DEVELOPMENT COMPANY

FOOTNOTE #1 MISSY WELL NO. 3

FOOTNOTE #2 WEST LINDRITH GALLUP/DAKOTA

MAJOR PHASE OIL

PROJECT START DATE 4/1989

ENDING MONTH 12

DISC RATE % 10.0

SELECTION CODE 111

ECONOMIC LIMIT YES

CASH FLOW FACTOR % 100.00

RESERVES FACTOR % 100.00

## LOCAL TAXES

OIL PROD. TAX % 8.44 ADVAL TAX % 5.00

STEP WELL NO

GAS PROD. TAX % 4.69 LEAP WELL NO

GAS PROD. TAX \$/M 0.16

## PRODUCT PRICES

OIL PRICE

GAS PRICE-BTU RATING 1000

\$/BBL ESC % ESC \$ YRS \$/MCF ESC % ESC \$ YRS

18.000 30 1.430 30

30 30

30 30

30 30

30 30

0.000 MAXIMUM PRICE 6.000 MAXIMUM PRICE

## OPERATING EXPENSES

RATE ESC % YEARS ESC % YEARS

\$/W/M 2500 0.00 30 0.00 0

## WINDFALL PROFIT TAXES

WINDFALL CATEGORY IND B.P.INFLATOR % 6.00

TIER 3 90% N.I. LIMIT NO

WPT BASE PRICE \$/B 23.00

## OWNERSHIP PERCENTAGES

W.I. NRI OIL NRI GAS # OF YRS CUM NOI M\$ ROR%

100.0000 75.0000 75.0000 99.000 0.000 0.000

## DECLINE

## INITIAL

## FINAL

## DECLINE

## TIME CUMULATIVE

TYPE	---N---	---RATE---	---RATE---	---PERCENT---	---MONTHS PROD---	---X1000---
OIL PROD START	5/89	CON	0.000	79.800	79.800	0.0000
OIL PROD UNITS	B/DAY	EXP	0.000	79.800	4.000	27.0000

NUMBER OF WELLS 1

GOR (SCF/BBL) 700.0

GAS PROD START 5/89

GAS PROD UNITS M/MTH

NUMBER OF WELLS 0

YIELD (B/MMCF) 0.0

## GROSS CAPITAL INVESTMENTS

MO/YR TANG INTAN RISK % MO/YR TANG INTAN RISK %

4/89 156.3 299.0 100.00 12/ 0 0.0 0.0 100.00

12/ 0 0.0 0.0 100.00 12/ 0 0.0 0.0 100.00

12/ 0 0.0 0.0 100.00 12/ 0 0.0 0.0 100.00

12/ 0 0.0 0.0 100.00 12/ 0 0.0 0.0 100.00

12/ 0 0.0 0.0 100.00 12/ 0 0.0 0.0 100.00

ESC 0.00% FOR 30 YRS

## FEDERAL TAX INFORMATION

RATE TIME RATE

FED TAX RATE 46.00 30 0.00

TAX LOSS CRRY.FWRD. NO

DEPREC. METHOD ACRS

DEPREC. LIFE YRS 0

STAT. DEPL.

NO

B/O EQUIV. MCF/B 6.0

YR WELLS	OIL MBBL	GAS MMCF	YR WELLS	OIL MBBL	GAS MMCF
----------	----------	----------	----------	----------	----------

89 0.7 19.431 13.602

90 1.0 29.147 20.403

91 1.0 29.147 20.403

92 1.0 27.244 19.071

93 1.0 20.273 14.191

94 1.0 14.800 10.360

95 1.0 10.804 7.563

96 1.0 7.887 5.521

97 1.0 5.757 4.030

98 1.0 4.203 2.942

99 1.0 3.068 2.148

0 1.0 2.240 1.568

1 0.8 1.413 0.989

PRIOR PRODUCTION 0.000 0.000

TOTAL 175.414 122.789

Application of Hixon Development Company  
for Unorthodox Location

Rio Arriba County, New Mexico

New Mexico Oil Conservation Division

Case #9661

Prepared by Hixon Development Company

July 20, 1989

BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico	
Case No. <u>9661</u>	Exhibit No. <u>1</u>
Submitted by <u>Hixon</u>	
Hearing Date <u>7/20/89</u>	

Application of Hixon Development Company  
for Unorthodox Location  
Rio Arriba County, New Mexico

New Mexico Oil Conservation Division  
Case No. 9661

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Hixon Development Company  
Missy Well No. 3  
330' FSL, 2310' FWL  
Section 35, T25N, R3W  
Rio Arriba Co., NM

March 14, 1989

John Corbett of Hixon Development called NMOCD office in Aztec, NM regarding numbering, allowable, and legal location of infill wells in the West Lindrith Gallup/Dakota pool. Proposed well to be named the Missy No. 3, location of 330' FSL, 2310' FWL, Sec. 35, T25N, R3W was allowed provided we were 660' from the Mobil Lindrith B No. 75 and the Missy No. 2, top allowable of 382 BOD and 2,000 GOR was not to be exceeded by combined production of the Missy No. 2 and No. 3.

March 15, 1989

Charles Harraden of Hixon Development Company and Ed Risenhoover (Professional Surveyor) staked location.

March 17, 1989

Received approved APD from NMOCD in Aztec.

Received verbal approval from landowner to build location.

March 20 - 27, 1989

Built location.

March 28, 1989

Mobil picked up a copy of the APD at NMOCD in Aztec.

March 29, 1989

Arapahoe Drilling Company rig #7 spudded well at 1:00 pm.

Mr. Frank Chaves of NMOCD called at 4:20 pm to notify Hixon Development that the location may be nonstandard.

March 31, 1989

Verified that location was nonstandard.

April 3, 1989

Placed case on NMOCD docket for April 26 seeking approval of nonstandard location.

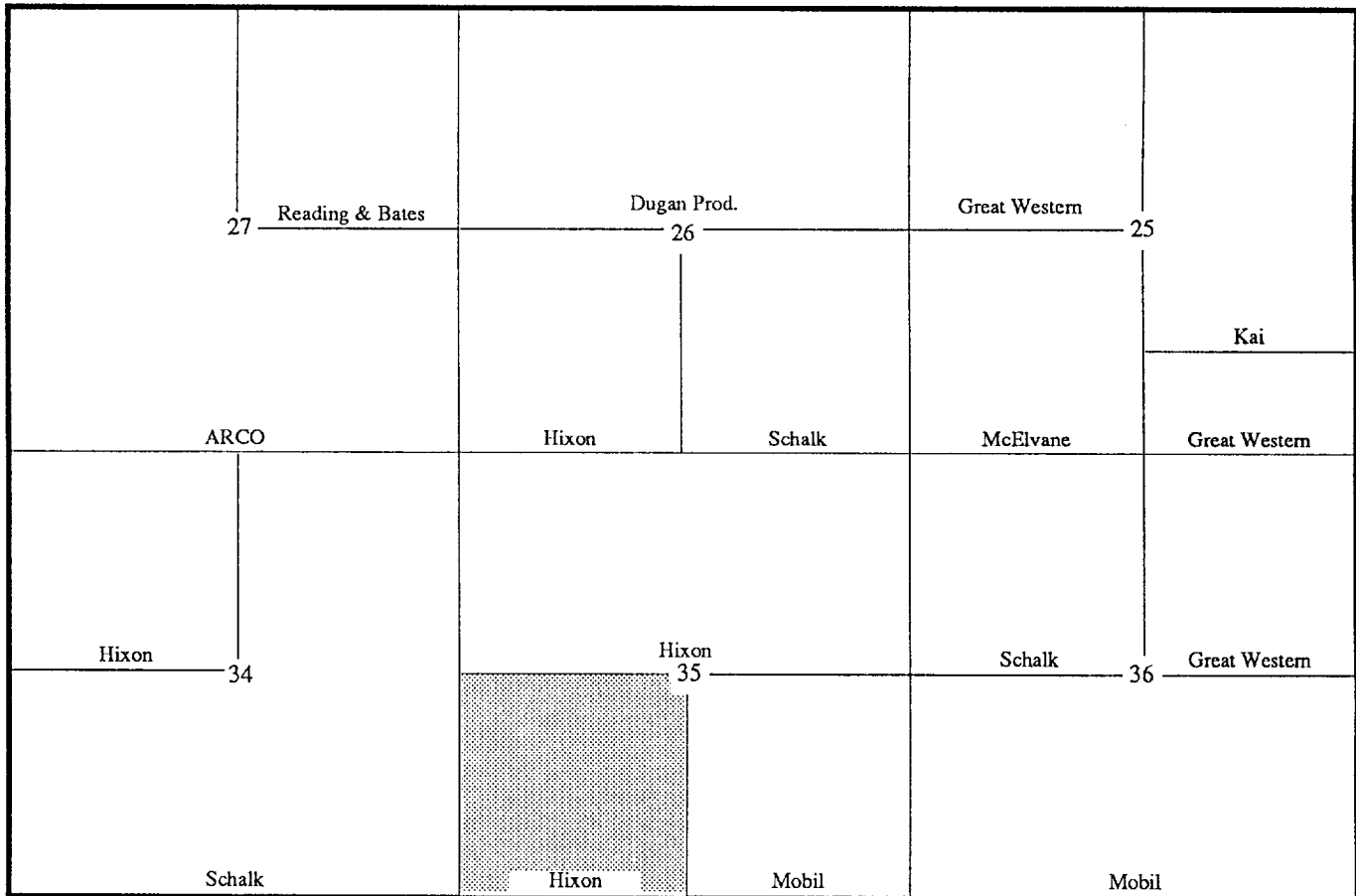
Notified offset operator (Mobil) of pending hearing.

April 20, 1989

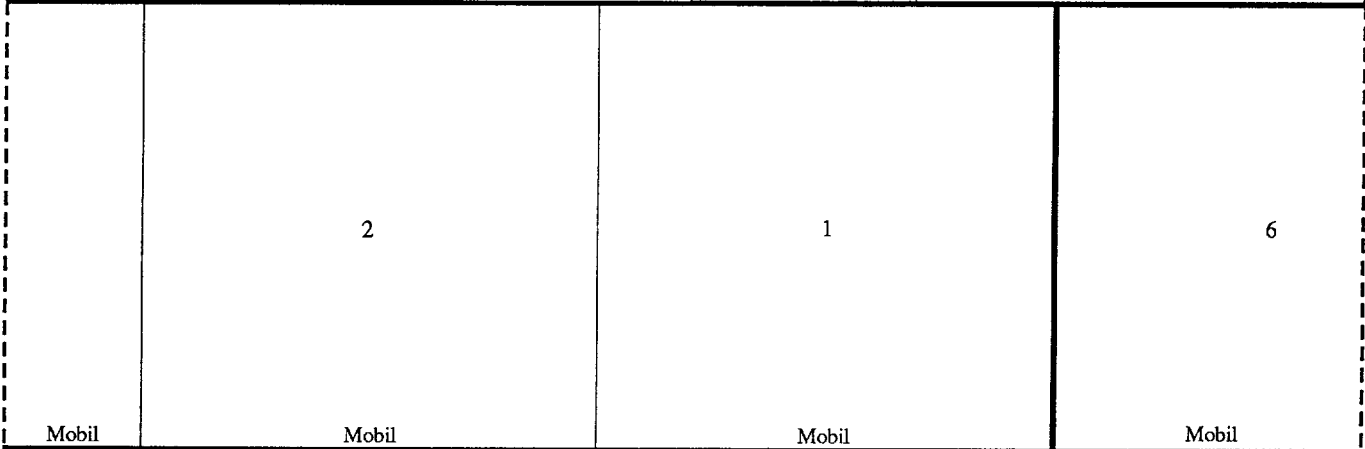
Mobil proposed allowable for Missy 3 of 79.8 BOD based on (382 BOD / 2 wells) (330' / 790').

R3W

T  
25  
N



T  
24  
N



R3W

R2W

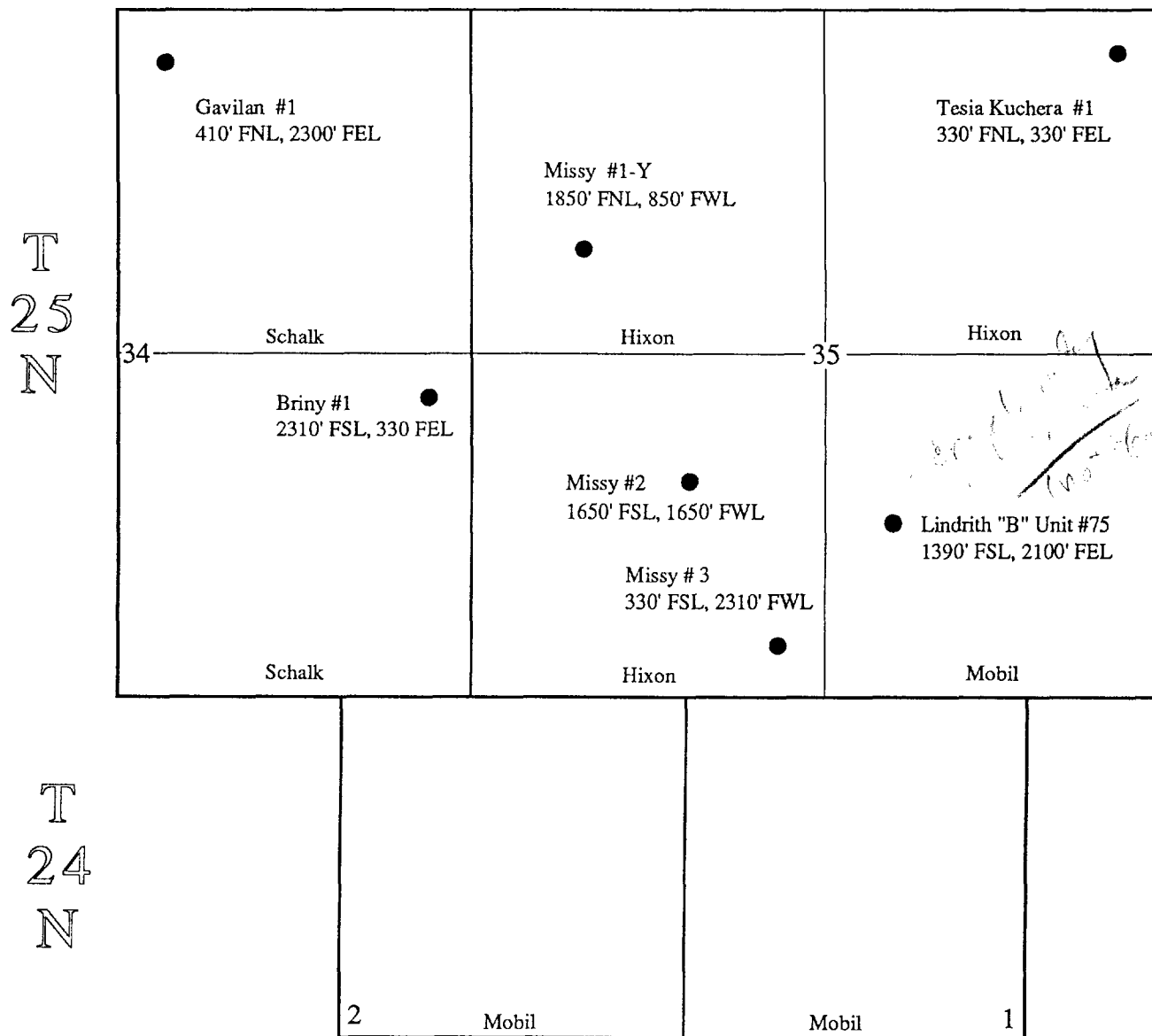
# MISSY WELL NO. 3 AREA

West Lindrith Gallup /Dakota Pool

Rio Arriba Co., New Mexico

scale: 1" = 2,275'

R 3 W

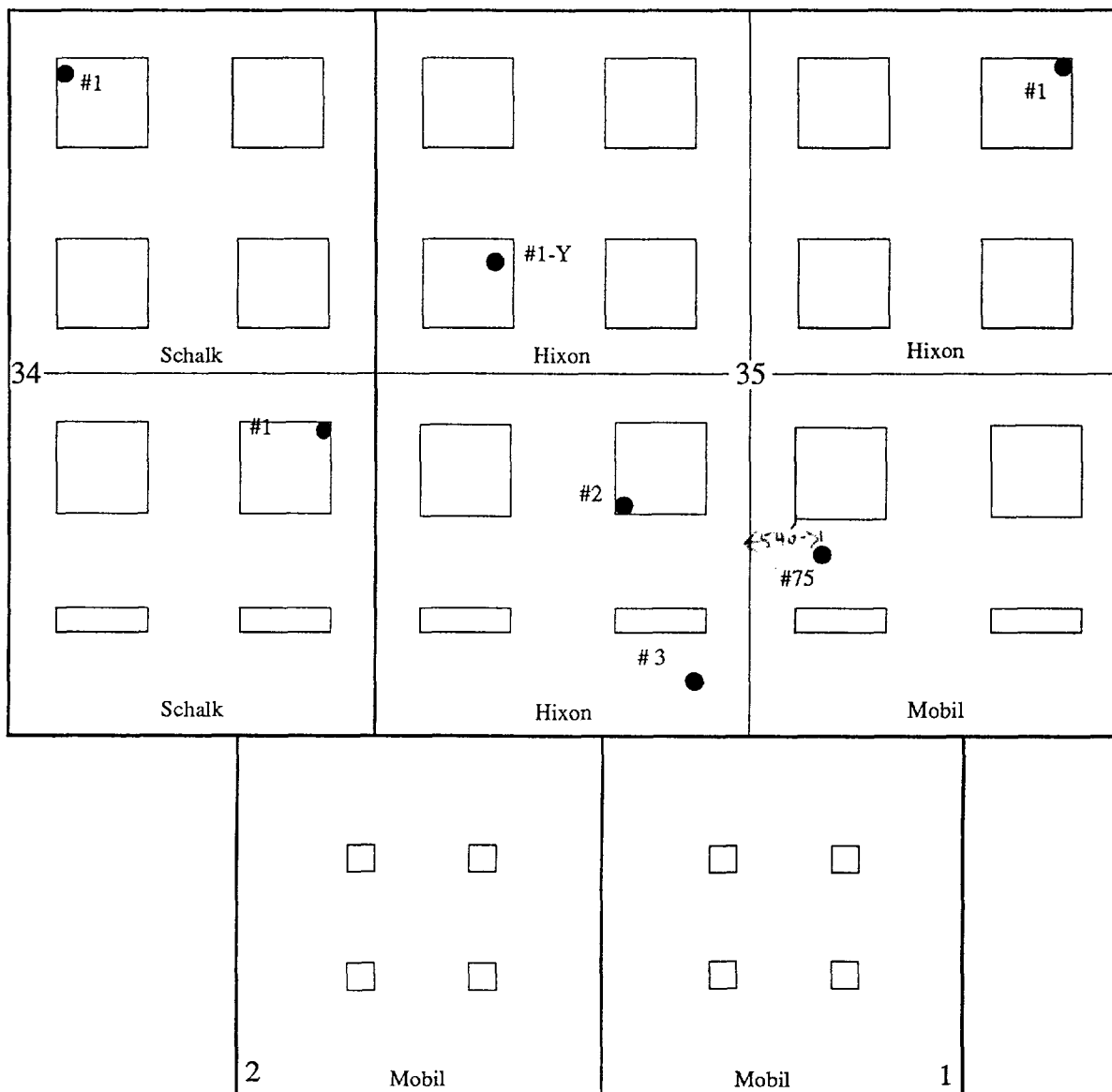


Plat Showing Currently Producing  
West Lindrith Gallup/Dakota Pool Wells  
In Proration Units Surrounding the  
Missy Well No. 3

scale: 1" = 1320'

R3W

T  
25  
N



Plat Showing Currently Producing  
West Lindrith Gallup/Dakota Pool Wells  
and Legal Locations Surrounding the  
Missy Well No. 3

scale: 1" = 1320'

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-101  
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

API NO. (assigned by OCD on New Wells)

30-039-2433

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL  
WELL ☒

GAS  
WELL ☐

OTHER ☐

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

7. Lease Name or Unit Agreement Name

Missy

2. Name of Operator

Hixon Development Company

8. Well No.

3

3. Address of Operator

P.O. Box 2810, Farmington, New Mexico 87499

9. Pool name or Wildcat

West Lindrith Gallup/Dakota

4. Well Location

Unit Letter N : 330 Feet From The South Line and 2310 Feet From The West Line

Section 35 Township 25N Range 3W NMPM Rio Arriba County

10. Proposed Depth

8030'

11. Formation

Gallup/Dakota

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

7038' GLE

14. Kind & Status Plug. Bond

15. Drilling Contractor

Unknown

16. Approx. Date Work will start

March 26, 1989

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	9-5/8"	36.0#	250'	160 sks.	Surface
8-3/4"	5-1/2"	17.0#	8030'	1035 sks.	Surface

160 over joint 4/42

It is proposed to drill the subject West Lindrith Gallup/Dakota oil well. It will be evaluated on the basis of open hole logs. Storage facilities will be located on the site. A BOP will be used during drilling operations.

APPROVAL EXPIRES 9-17-89  
UNLESS DRILLING IS COMMENCED.  
SPUD NOTICE MUST BE SUBMITTED  
WITHIN 90 DAYS

RECEIVED

MAR 7 1989

OIL CON. DIV

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

SIGNATURE John C. Corbett TITLE Vice President-Exploration DATE March 16, 1989

TYPE OR PRINT NAME

TELEPHONE NO.

(This space for State Use)

APPROVED BY [Signature] TITLE [Signature] DATE MAR 17 1989

CONDITIONS OF APPROVAL, IF ANY:

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

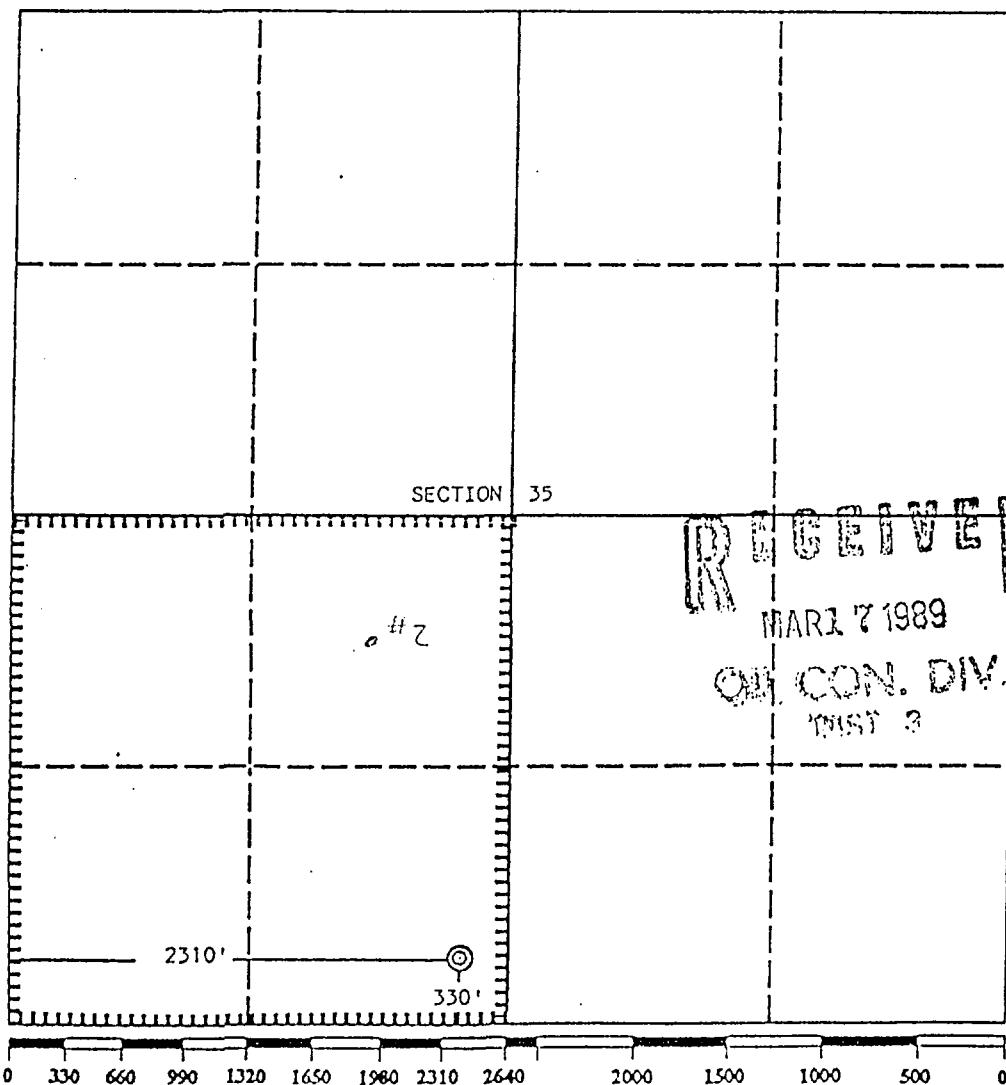
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Hixon Development Company			Lease Missy		Well No. 3
Unit Letter N	Section 35	Township 25N	Range 3W	County NMPM Rio Arriba	
Actual Footage Location of Well: 330 feet from the South line and 2310 feet from the West line					
Ground level Elev. 7038	Producing Formation Gallup/Dakota	Pool West Lindrith Gallup/Dakota		Dedicated Acreage: 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below. *5T~1/4*
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 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

*John C. Corbett*

Printed Name

John C. Corbett

Position

Vice President - Exploration

Company

Hixon Development Co.

Date

March 16, 1989

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

March 15, 1989

Signature & Seal of Professional Surveyor

*Edgar L. Risenhoover*  
EDGAR L. RISENHOOVER  
NEW MEXICO  
5970  
Certificate No. 5970  
Edgar L. Risenhoover  
REGISTERED LAND SURVEYOR

WF

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

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

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

# OIL CONSERVATION DIVISION

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

WELL API NO.  
30-039-24373

5. Indicate Type of Lease  
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:  
OIL WELL ☒ GAS WELL ☐ OTHER

2. Name of Operator  
Hixon Development Company

3. Address of Operator  
P.O. Box 2810, Farmington, N.M. 87499

4. Well Location  
Unit Letter N : 330 Feet From The South Line and 2310 Feet From The West Line

Section 35 Township 25N Range 3W NMPM Rio Arriba County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
7038' GLE

7. Lease Name or Unit Agreement Name

Missy

8. Well No.  
3

9. Pool name or Wildcat  
West Lindrith Gallup/Dakota

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER: Drilling Progress ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spudded surface at 1:00 p.m. on Wednesday, March 29, 1989. Drilled 12-1/4" hole to 262'. Ran 6 jts. (242.90') of 9-5/8", 36#, LT&C casing. Set casing at 257.90' KB. Cemented casing as follows: Mixed and pumped 160 sks. (189 cu. ft.) of Class "B" cement containing 2% CaCl and 1/4#/sk. Cellophane flakes. Cement circulated to surface.

RECEIVED

APR 3 - 1989

OIL CON. DIV.

DIST. 3

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

SIGNATURE Bruce E. Delventhal  
Bruce E. Delventhal

TITLE Petroleum Engineer

DATE March 31, 1989

TYPE OR PRINT NAME

TELEPHONE NO.

(This space for State Use)

APPROVED BY

TITLE

DATE

SUPERVISOR DISTRICT

APR 03 1989

CONDITIONS OF APPROVAL, IF ANY:

# Mobil Exploration & Producing U.S. Inc.

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

April 4, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Frank T. Chavez  
District Supervisor  
New Mexico Oil Conservation Division  
Aztec District  
1000 Rio Brazos Road  
Aztec, NM 87410

UNAPPROVED UNORTHODOX LOCATION  
HIXON #3 MISSY  
SECTION 35-T25N-R3W  
W. LINDRITH GALLUP-DAKOTA POOL  
RIO ARriba COUNTY, NEW MEXICO

Dear Frank:

This letter is to follow up on our recent phone conversations identifying that the Hixon Development Company #3 Missy is in an unapproved unorthodox location. The unorthodox location is due to the location of the well being 330 feet north of the boundary of the West Lindrith Gallup-Dakota Oil Pool. Rule 4 of NMOC Order R-4314-A specifically states that wells must be 790 feet back from the pool boundary. The #3 Missy does not meet this criteria.

It is our understanding that Hixon Development Company was notified of the unapproved status of their unorthodox location and have elected to continue to drill the well which was spudded before we were aware of their permit. Therefore, we request that the Hixon well not be allowed to produce beyond a 30 calendar day test period until this matter can be brought to hearing and the subject of a well allowable and the unorthodox location be resolved. Further, it is requested that Mobil receive notice of this hearing at the above-listed address.

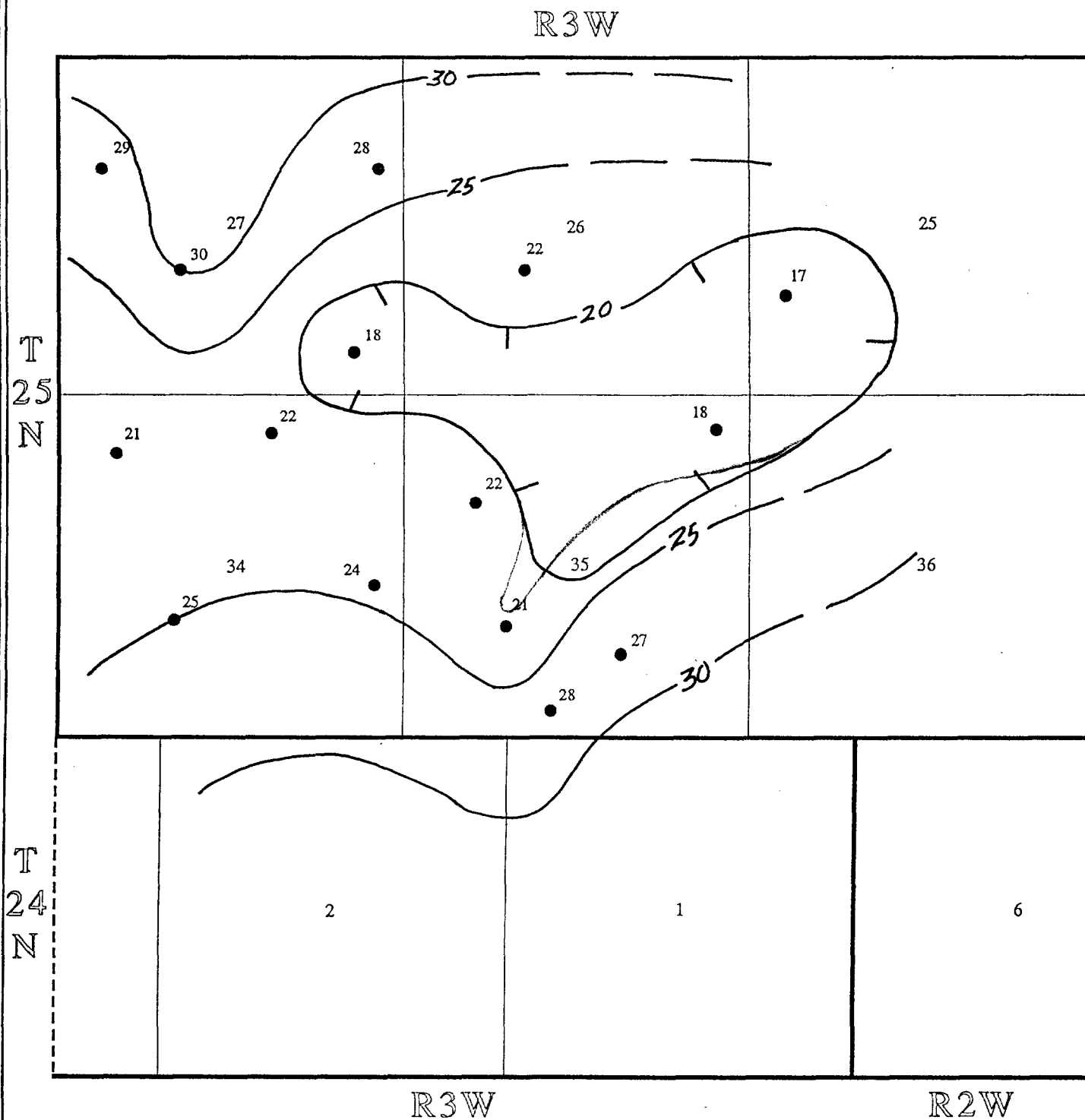
Very truly yours,



B. R. Maynard  
Regulatory Compliance Manager

CNEggerman/jag  
CNE8907





Ispach Map of the Dakota "C" Sand

Missy Well No. 3 Area

West Lindrith Gallup /Dakota Pool

Rio Arriba Co., New Mexico

scale: 1" = 2,275'

C.I. = 5'

HIXON  
MISSY 3

7700

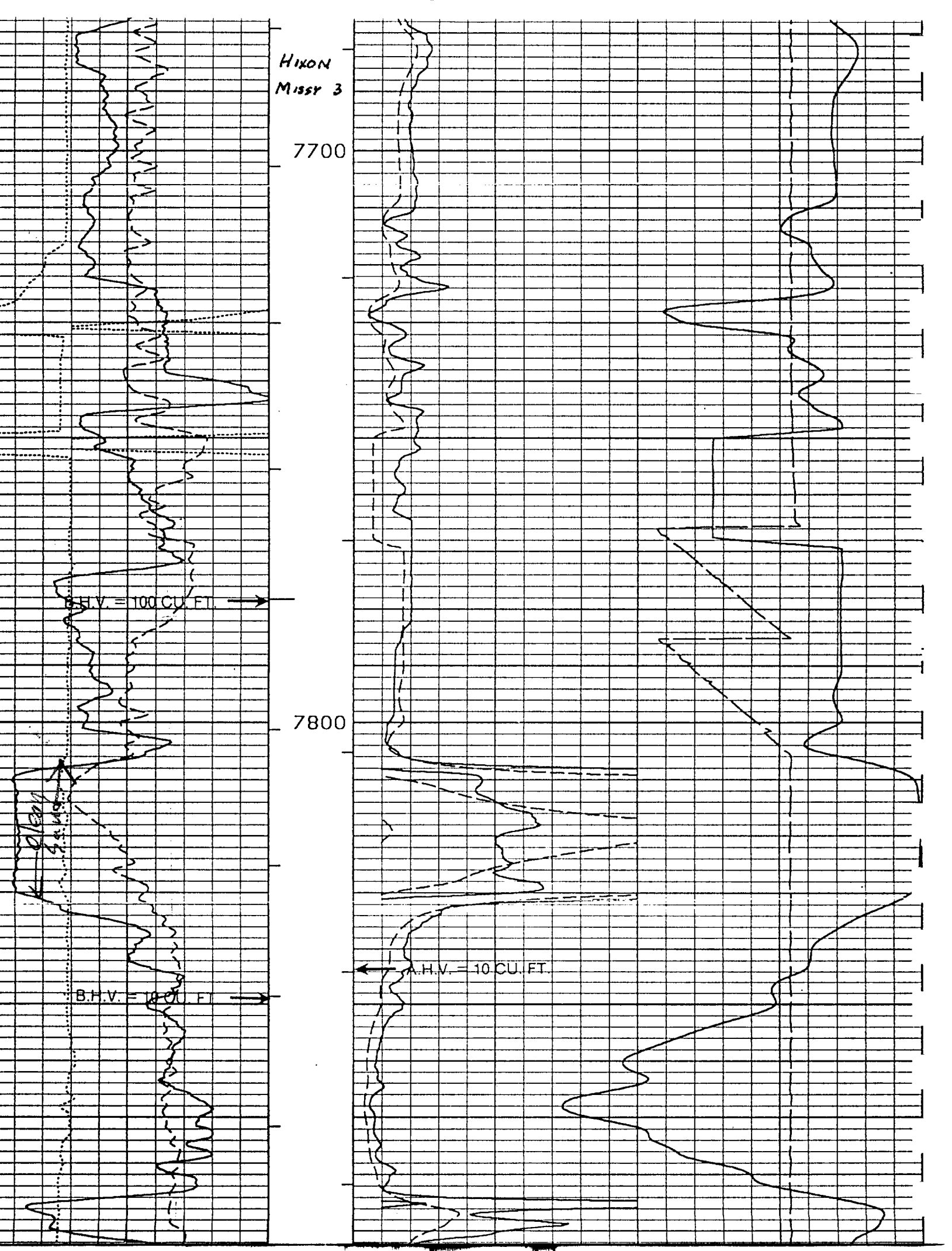
B.H.V. = 100 CU. FT. →

7800

0.150  
3.5 W.S.

B.H.V. = 100 CU. FT. →

← A.H.V. = 10 CU. FT.

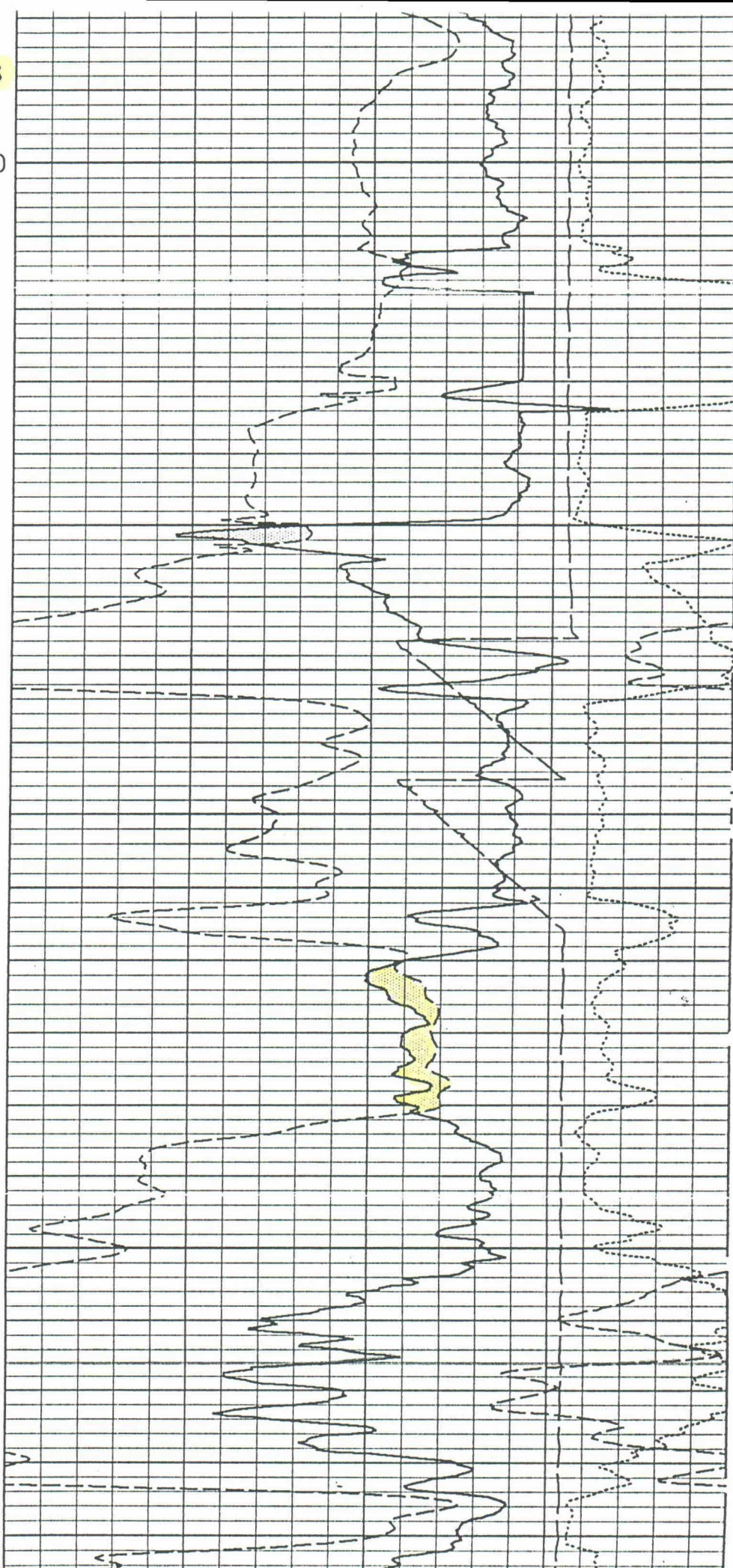




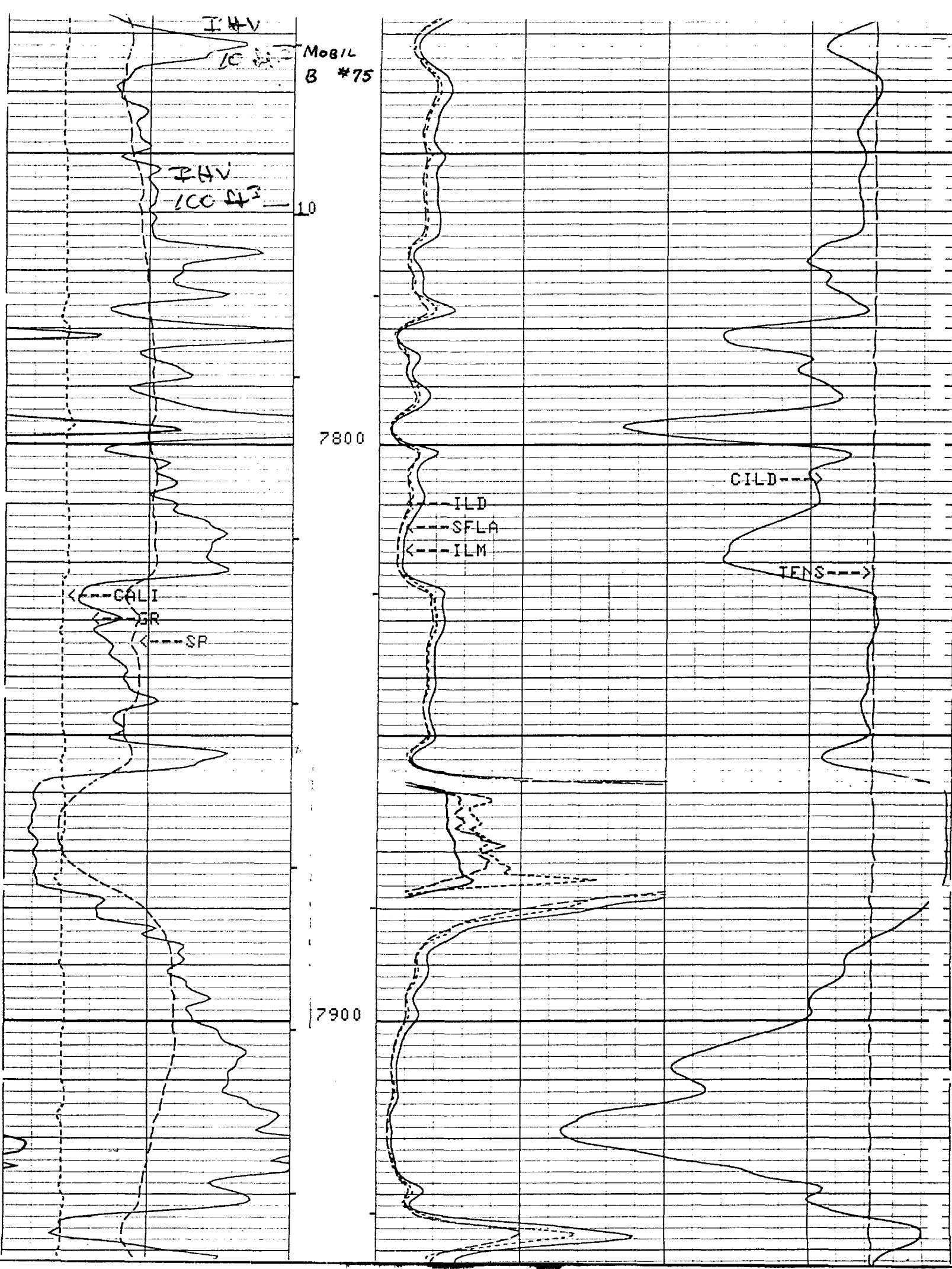
Hixon  
MISSY 3

7700

7800









MOBIL  
B #75

K---CALI

IN V 100 CU. FT.

10

7800

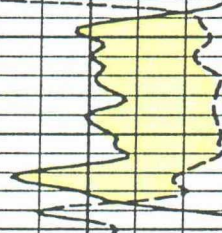
7900

TENS---

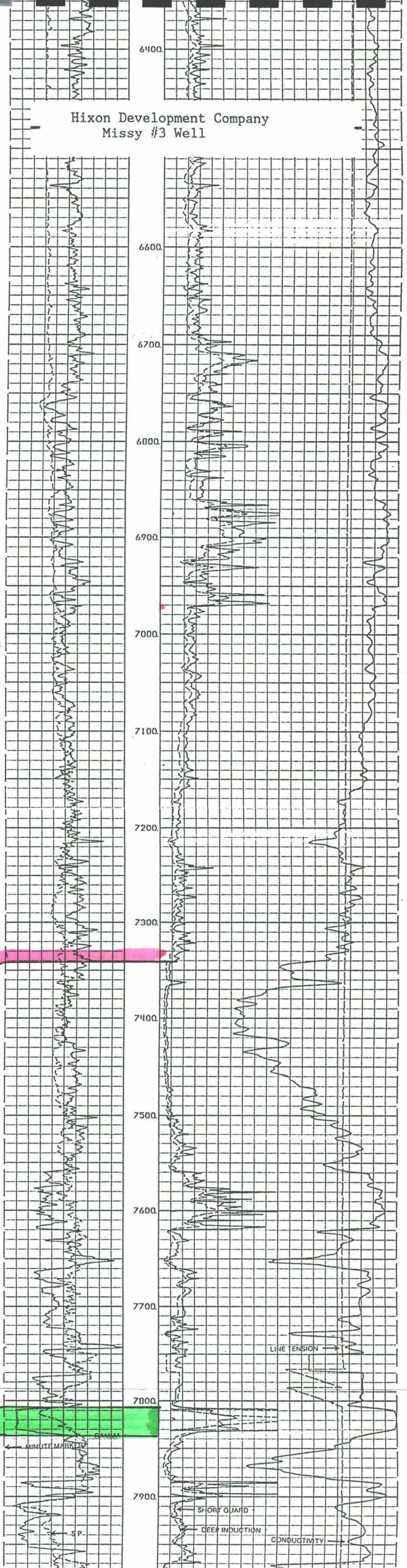
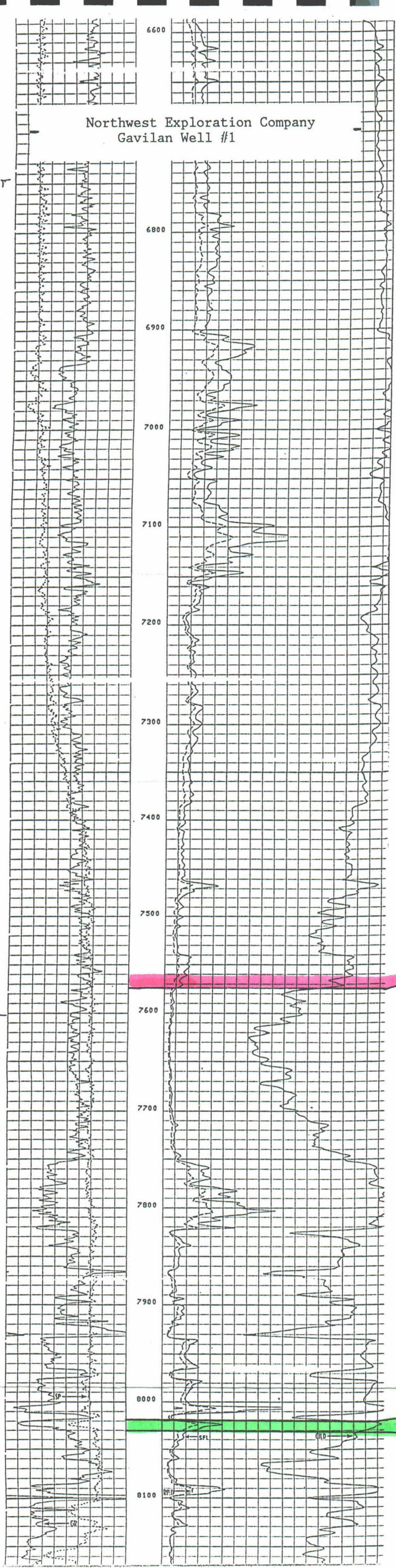
DRHO---

DPHI---

NPPI---









## (SANTO NINO-BONE SPRING POOL - Cont'd.)

(5) This case shall be reopened at an examiner hearing in November, 1990 at which time the operators in the subject pool may appear and show cause why the Santo Nino-Bone Spring Pool should not be developed on 40-acre spacing units.

(6) 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.

WEST LINDRITH GALLUP-DAKOTA OIL POOL  
Rio Arriba County, New Mexico

Order No. R-4314-A, Adopting Operating Rules for the West Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico, January 7, 1988, as Amended by Order No. R-4314-A-1, January 7, 1988.

Order No. R-4314-A, as amended, rescinds Order No. R-4314, July 1, 1972.

In the Matter of the Hearing Called by the Oil Conservation Division on its Motion to Amend the Special Pool Rules for the Gavilan-Mancos Oil Pool, Rio Arriba County, New Mexico.

CASE NO. 9226  
CASE NO. 9227  
Order No. R-4314-A

## ORDER OF THE DIVISION

BY THE DIVISION: These consolidated cases came on for hearing at 9:00 a.m. on November 19, 1987, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 7th day of January, 1988, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing and being fully advised in the premises,

## FINDS THAT:

(1) Due public notice having been given as required by law, the Commission has jurisdiction of these causes, the parties and the subject matter thereof.

(2) In Case 9226 the Oil Conservation Division on its own motion seeks to amend the Special Pool Rules for the West Lindrith Gallup-Dakota Oil Pool in Rio Arriba and Sandoval Counties, New Mexico, as promulgated by Division Order No. R-4314, to reconsider the well location requirements poolwide, to restate the allowable in the pool to reflect the daily oil allowable for a 160-acre unit in the depth range of this pool to 382 BOPD as promulgated by Division General Rule 505, and to create a

buffer zone in those sections that adjoin the Gavilan-Mancos Oil Pool to the east (Sections 1, 12, 13, 24, 25 and 36, Township 25 North, Range 3 West, Rio Arriba County) with any additional provisions which may be necessary and/or advisable to protect correlative rights along the common boundary of the two pools.

(3) In Case 9227 the Oil Conservation Division seeks on its own motion to amend the Special Pool Rules for the Gavilan-Mancos Oil Pool in Rio Arriba County, New Mexico, as promulgated by Division Order No. R-7407, as amended, to create a buffer zone utilizing those existing proration units in Sections 5, 6, 7, 8, 17, 18, 19, 20, 29, 30, 31, and 32, Township 25 North, Range 2 West, that adjoin the West Lindrith Gallup-Dakota Oil Pool with any additional provisions which may be necessary and/or advisable to protect correlative rights along the common boundary of the two pools.

(4) On June 27, 1987, by Order R-8188-A, the Commission formed the Northeast Ojito Gallup-Dakota Oil Pool out of the Ojito Gallup-Dakota Oil Pool so that the southern boundary of the Northeast Ojito Gallup-Dakota Oil Pool was contiguous with part of the northern boundary of the Ojito Gallup-Dakota Oil Pool.

(5) By Order R-8544, entered on November 19, 1987, the Commission in Case 9228 abolished the Ojito Gallup-Dakota Oil Pool which had been spaced on 40-acre statewide spacing and proration units and extended the West Lindrith Gallup-Dakota Oil Pool which is spaced on 160-acre spacing and proration units and now adjoins the Northeast Ojito Gallup-Dakota Oil Pool.

(6) As a result of the entry of Order R-8544, the West Lindrith Gallup-Dakota Oil Pool was expanded so that its eastern boundary became contiguous with the western boundary of the Gavilan-Mancos Oil Pool which has special pool rules, including restricted allowables, 640-acre spacing and well locations no closer than 790 feet to the outer boundary of a spacing and proration unit.

(7) Geologic testimony and evidence indicate that while the Mancos formation in the western portion of the Gavilan-Mancos Oil Pool is in fact the same common source of supply as the Gallup formation in the West Lindrith and Northeast Ojito Pools, the quality and intensity of the fracture system in the Gavilan-Mancos Oil Pool diminishes to the west indicating that production in West Lindrith Pool may be less enhanced by natural fracturing.

(8) The engineering evidence indicated producing characteristics between typical wells in each pool are such that differences in allowables for wells in the respective pools will not cause violation of correlative rights.

(9) Present data is insufficient to determine if future wells drilled in the West Lindrith boundary area will be capable of draining any portion of the Gavilan-Mancos Oil Pool.

(10) The 160-acre gas limit for West Lindrith covers both Gallup (Mancos) and Dakota production and is 764 MCF (4.775 MCF/per acre) per day while the 640-acre gas limit for Gavilan, which covers Mancos only, is 480 MCF (0.75 MCF per acre) per day creating a difference in gas limits between the two pools of 2576 MCF (4.025 MCF per acre) per day per 640-acre tract.

(11) The testimony indicated there are no wells currently producing in the West Lindrith Pool boundary area that are capable of producing a 160-acre gas limit, however the area is sparsely developed at this time.

(12) Among the issues to be considered by the Commission was the creation of a buffer zone between the two pools and the adoption of a buffer gas allowable for those spacing units in each pool within approximately one-half mile of the common boundary.

## (WEST LINDRITH GALLUP-DAKOTA OIL POOL) - Cont'd.)

(13) Average production per well in both West Lindrith and Gavilan Pools are well below the top allowable rate but individual well production varies greatly and the area of the common boundary is still under development.

(14) At least one well in the proposed Gavilan Mancos Buffer Zone area is capable of producing in excess of the current top allowable and an increased allowable in the Gavilan boundary area may result in a violation of correlative rights within the Gavilan-Mancos Oil Pool.

(15) Although the Dakota formation is produced in conjunction with the Gallup formation throughout the West Lindrith Pool and contributes significant production in part of the West Lindrith Pool, testing to date of the Dakota formation in the boundary area of both pools indicates that the Dakota formation in the boundary area is of marginal productivity and therefore the Gallup section provides the majority of oil and gas production.

(16) The difference in gas limits between West Lindrith Pool and Gavilan-Mancos Pool currently has no adverse effect on correlative rights across the common pool boundary because there are no wells in the West Lindrith boundary area that are capable of producing the gas limit rate; however, the potential for disparate withdrawals exists for future wells.

(17) The evidence shows that no adjustments to allowables is necessary at this time but provisions should be made for timely adjustments in allowables should future development so warrant.

(18) Because of the fact that the source of supply in the Gallup (Mancos) formation is common between West Lindrith, Northeast Ojito and Gavilan and there is a large disparity in per-acre allowables between Gavilan on the one hand and West Lindrith and Northeast Ojito on the other hand, and further because the location requirements for wells in West Lindrith differs from that in both Gavilan and Northeast Ojito, and in fact all other 160-acre spaced pools in this area, it is necessary, in order to prevent waste and protect correlative rights, to formulate special rules for any West Lindrith well to be drilled within a one-half mile pool boundary area which rules should include the following:

(a) That no well completed or recompleted in the West Lindrith Pool shall be drilled closer than 790 feet to the pool boundary unless there is a direct producing offset well located closer than 790 feet.

(b) Should any West Lindrith well in the one-half mile buffer area adjacent to Gavilan be capable of producing at per-acre rates comparable to Gavilan Mancos top allowable wells, the production from said well shall be presumed to be from the Gallup interval unless the operator of said well performs testing to establish the relative contributions of the Gallup and Dakota intervals. Should the district supervisor find that producing rates from the Gallup interval in said well will adversely affect correlative rights across the common pool boundary, or cause waste, the Division may establish a reduced allowable in said well to protect correlative rights or prevent waste until the Division, after notice and hearing on the earliest docket date, acts to establish an appropriate allowable for the well or for all wells in the one-half mile buffer area. Such reduced allowable shall be no less than the average per acre gas limit for the two pools, currently  $\frac{1}{2} (4.775 + 0.75) = 2.7625$  MCFPD per acre.

(19) Rule 6 of the special pool rules for the West Lindrith Gallup-Dakota Oil Pool should be restated to assign the depth bracket allowable at 382 barrels of oil to a standard 160-acre proration unit in accordance with current General Rule 505.

(20) The application in Case 9227 should be dismissed without prejudice.

## IT IS THEREFORE ORDERED THAT:

(1) The application in Case 9227 is dismissed without prejudice.

(2) (As Amended by Order No. R-4314-A-1, January 7, 1988) "Effective January 1, 1988, Order No. R-4314, dated May 31, 1972 is hereby rescinded and the Special Rules and Regulations for the West Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico, are hereby promulgated, to read in their entirety, as follows:"

## SPECIAL RULES FOR THE WEST LINDRITH GALLUP-DAKOTA OIL POOL

RULE 1. Each well completed or recompleted in the West Lindrith Gallup-Dakota Oil Pool or within one mile thereof and not closer to another Gallup-Dakota pool shall be spaced, drilled, operated, and produced in accordance with the Special Rules hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 160 acres, more or less, substantially in the form of a square, which is a quarter-section being a legal subdivision of the United States Public Land Surveys.

RULE 3. The Director of the Division may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit consisting of less than 160 acres or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Director has received the application.

RULE 4. Each well shall be located no nearer than 330 feet to the outer boundary of the proration unit or to any governmental quarter-quarter section line nor nearer than 660 feet to the nearest well drilling to or capable of producing from the same pool; provided however,

a. A boundary area is hereby created consisting of a band one-half mile wide extending from the pool boundary to a line one-half mile inside said boundary.

b. No well completed or recompleted in said boundary area shall be drilled closer than 790 feet to the pool boundary nor closer than 130 feet to the interior quarter-quarter section line unless a direct offset producing well is located closer than 790 feet to the pool boundary in which case the West Lindrith Well could be drilled as close to the boundary as the offset well.



## (WEST LINDRITH GALLUP-DAKOTA OIL POOL) - Cont'd.)

c. No well completed or recompleted in the Gallup-Dakota interval outside but within one mile of the West Lindrith pool boundary and not within a mile of another pool containing the same, or part of the same, vertical interval shall be drilled closer than 790 feet to the quarter-section line nor closer than 130 feet to the interior quarter-quarter section line.

d. Any well which on the effective date of this order is completed in or drilling to the West Lindrith Gallup-Dakota Oil Pool at an unorthodox location under these rules is hereby granted an exception thereto.

**RULE 5.** The Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers or if no objection to the unorthodox location has been entered within 20 days after the Director has received the application.

**RULE 6.** A standard proration unit (158 through 162 acres) shall be assigned a depth bracket allowable of 382 barrels of oil per day and in the event there is more than one well on a 160-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 160 acres.

**RULE 7.** The limiting gas-oil ratio for the West Lindrith Gallup-Dakota Oil Pool shall be 2000 cubic feet of gas per barrel of oil produced.

**RULE 8. a.** In the event any West Lindrith well located in the boundary area described in rule 4(a) above offsets the Gavilan-Mancos Pool, the production from said well shall be presumed to be entirely from the Gallup (Mancos) interval unless the operator of said well demonstrates through testing to the satisfaction of the Division's district supervisor the proportional contributions of the Gallup and Dakota intervals.

b. In the event a well drilled in the boundary area offsetting the Gavilan-Mancos Pool indicates the capacity to produce at rates greater on a per-acre basis than the top allowable rates of a Gavilan-Mancos well the Division is hereby authorized to reduce the gas limit of said well to a rate which will protect correlative rights or prevent waste which limit shall continue in effect until the Division, after notice and hearing at the earliest hearing docket thereafter, enters an order establishing an appropriate allowable for said well or for all wells in said portion of the boundary area. Said interim gas limit shall not be less than the average of the per-acre gas limits of the Gavilan Mancos and West Lindrith Pools which currently is  $\frac{1}{2}$  ( $4.775 + 0.75$ ) = 2.7625 MCFPD per acre.

## IT IS FURTHER ORDERED THAT:

(3) The location of all wells presently drilling to or completed in the West Lindrith Gallup-Dakota Oil Pool are hereby approved; the operator of any well having an unorthodox location shall notify the Aztec District Office of the Division in writing of the name and location of the well on or before February 1, 1988.

(4) Pursuant to Section 70-2-18 contained in Chapter 271, Laws of 1969, existing wells in the West Lindrith Gallup-Dakota Oil Pool shall have dedicated thereto 160 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereof.

Failure to file new Forms C-102 with the Division dedicating 160 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the West Lindrith Gallup-Dakota Oil Pool shall receive no more than one-fourth of a standard allowable for the pool.

(5) 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.

AMANDA-ABO-GAS POOL  
DRINKARD POOL  
WANTZ-ABO POOL  
SOUTH BRUNSON DRINKARD-ABO POOL  
(Formerly South Brunson-Abo Pool)  
Lea County, New Mexico

Order No. R-8593, Abolishing the Amanda-Abo Pool, Redefining the Limits of Certain Pools and Adopting Operating Rules for the South Brunson Drinkard-Abo Pool, Lea County, New Mexico, February 1, 1988, as Amended by Order No. R-8593-B, January 27, 1988.

The Application of the Oil Conservation Division upon its Own Motion for an Order Abolishing the Amanda-Abo Gas Pool, Contracting the Horizontal Limits of the Drinkard and Wantz-Abo Pools, Extending Both the Horizontal and Vertical Limits of the South Brunson-Abo Pool, (To Be Redesignated the South Brunson Drinkard-Abo Pool), and Re-establishing the Vertical Limits of the Drinkard and Wantz-Abo Pools, all in Lea County, New Mexico.

CASE NO. 9237  
Order No. R-8593

## ORDER OF THE DIVISION

BY THE DIVISION: This cause came on for hearing at 8:15 a.m. on October 21, 1987, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 27th day of January, 1988, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and having been fully advised in the premises,

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

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

CASE NO. 9661  
Order No. R-8935

APPLICATION OF HIXON DEVELOPMENT  
COMPANY FOR AN UNORTHODOX OIL  
WELL LOCATION AND SIMULTANEOUS  
DEDICATION, RIO ARRIBA COUNTY,  
NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on April 26, 1989, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 16th day of May, 1989, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

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

(2) The applicant, Hixon Development Company, seeks approval for an unorthodox oil well location for its Missy Well No. 3 located 330 feet from the South line and 2310 feet from the West line (Unit N) of Section 35, Township 25 North, Range 3 West, NMPM. West Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico, the SW/4 of said Section 35, forming a standard 160-acre proration unit for said pool, to be simultaneously dedicated to the above-described well and to the existing Missy Well No. 2 located 1650 feet from the South and West lines (Unit K) of said Section 35.

(3) By Order No. R-4314-A, dated January 7, 1988, the Division promulgated Special Rules and Regulations for the

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Case No. 9661  
Order No. R-8935

West Lindrith Gallup-Dakota Oil Pool, which include, among other things, a rule creating a one-half mile buffer zone extending from the pool boundary to a line one-half mile inside the pool boundary and a provision which requires that all wells located in said buffer zone be located no closer than 790 feet to the pool boundary nor closer than 130 feet to the interior quarter-quarter section line.

(4) The subject well, which was drilled during March and April, 1989, is in fact located within the buffer zone as described above and is therefore subject to the well location requirements as stated.

(5) Mobil Producing Texas and New Mexico, Inc. (Mobil), the operator of Section 1, Township 24 North, Range 3 West, NMPM, being the affected offset acreage to the south which is currently undeveloped, appeared at the hearing in opposition to the application and in support of imposing a production penalty against the subject well.

(6) Examination of the chronology of events leading to the drilling of the subject well, presented as evidence in this case, reveals the following:

A. March 17, 1989: The applicant, unaware that the subject well's location is non-standard, submitted Forms C-101 (Application to Drill) and C-102 (Acreage Dedication Plat) to the Aztec district office of the Division, and received timely approval.

B. March 30, 1989: Applicant commenced drilling operations at approximately 1:00 P.M. At approximately 4:20 P.M., the supervisor of the Aztec district office of the Division informed the applicant that the well location is non-standard. Applicant chose to continue drilling.

(7) The evidence indicates that the subject well has been drilled to a total depth of approximately 8,030 feet and is currently being tested. The evidence further shows that, by all indications, the subject well should encounter production in the range of 200-300 barrels of oil per day.

(8) The geologic evidence presented further indicates that the reservoir likely extends onto Mobil's acreage in said Section 1.

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Case No. 9661  
Order No. R-8935

(9) Under different circumstances, the Division, which may have been partially responsible for the well being located at an unorthodox location, may have been able to provide some relief to the applicant; however, under its statutory obligation to protect correlative rights, the Division has no alternative than to approve the unorthodox location request subject to a production penalty.

(10) Top unit allowable for the West Lindrith Gallup-Dakota Oil Pool is 382 barrels of oil per day. The evidence indicates that the applicant's Missy Well No. 2, which is located at a standard location and which will share the allowable with the subject well, has an average daily producing rate from January-March, 1989, of approximately 305 barrels of oil per day.

(11) Mobil has proposed that the allowable for the subject well be established at 80 barrels per day, said allowable determined by multiplying  $F1 \times F2$  where:

$F1$  = Top unit allowable divided by the  
number of wells or  $382/2$

$F2$  = Subject well's distance from the  
South line divided by legal loca-  
tion distance or 330 feet/790 feet.

(12) The allowable for the subject well proposed by Mobil is fair and reasonable and should be adopted in this case.

(13) The subject proration unit should be assigned a top unit allowable of 382 barrels of oil per day and may be produced jointly by both Wells No. 2 and No. 3; however, at no time should the production from Well No. 3 exceed 80 barrels of oil per day.

(14) Approval of the proposed simultaneous dedication and unorthodox well location subject to the reduced allowable as described above will allow the applicant the opportunity to produce its just and equitable share of the production in the subject pool, will prevent the drilling of unnecessary wells, and will protect correlative rights.

(15) The applicant should be allowed to reopen this case and petition for an increased allowable for the subject well if it can be shown that continued development has proven

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Case No. 9661  
Order No. R-8935

said Section 1 to be non-productive or that Mobil's interests are not being adversely affected.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Hixon Development Company, is hereby given approval for an unorthodox oil well location for its Missy Well No. 3 located 330 feet from the South line and 2310 feet from the West line (Unit N) of Section 35, Township 25 North, Range 3 West, NMPM, West Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico; the SW/4 of said Section 35, a standard 160-acre proration unit for said pool, shall be simultaneously dedicated to the above-described well and to the existing Missy Well No. 2 located 1650 feet from the South and West lines (Unit K) of said Section 35.

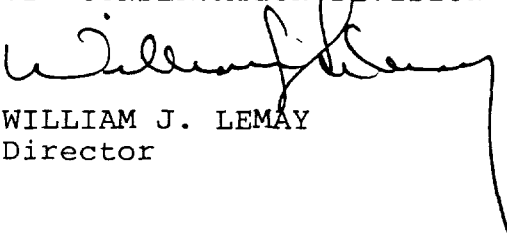
(2) The standard proration unit, the SW/4 of said Section 35, shall receive a top unit allowable of 382 barrels of oil per day; however, Well No. 3 shall at no time produce more than 80 barrels per day and any production in excess of that rate shall be made up by reduced production from Well No. 3.

(3) The applicant shall be allowed to reopen this case and petition for an increased allowable for the Missy Well No. 3 if it can be shown that continued development has proven Section 1, Township 24 North, Range 3 West, NMPM, to be non-productive or that Mobil's interests are not being adversely affected.

(4) 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.

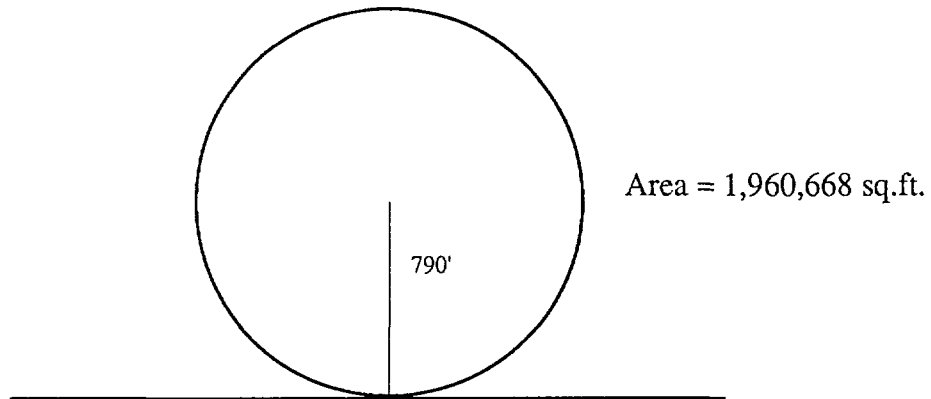
STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY  
Director

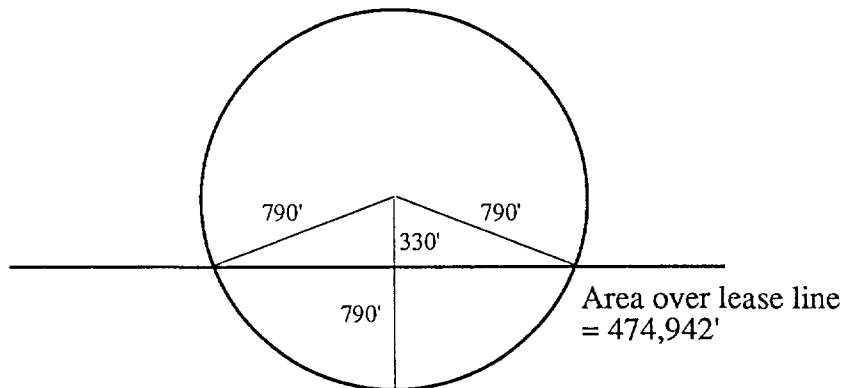
S E A L  
fd/

# Double Circle Penalty Method

790 Setback  
Full Allowable  
(382 BOD)



330 Setback  
Reduced Allowable  
(290 BOD)



Proposed Allowable =

$$\left(1 - \frac{474,942}{1,960,668}\right) (382) = 290 \text{ BOD}$$

### Ratio Method

$$\frac{\text{Actual Location Setback}}{\text{Desired Location Setback}} = \frac{330'}{790'} = 0.42$$

$$\begin{array}{rcl} \text{Depth Bracket Allowable} & & 382 \text{ BOD} \\ \text{Ratio Method Solution} = & \times 0.42 & \\ & \hline & 160 \text{ BOD} \end{array}$$

Using the Ratio Method Hixon Development would be allowed to produce 160 BOD from the Missy No. 3 and make up whatever portion of the full allowable was possible from the Missy No. 2.

## (G-OIL PRORATION AND ALLOCATION - Cont'd.)

(f) (As Adopted by Order No. R-4348, September 1, 1972, and Amended by Order No. R-8795, January 1, 1989.) A periodic tabulation of all supplements to the current proration schedule shall be made and distributed by the Division.

(g) (As Adopted by Order No. R-4348, September 1, 1972, and Amended by Order No. R-8795, January 1, 1989.) The provisions of Rule 104(h) et seq. shall be adhered to in fixing top unit allowables.

(h) (As Adopted by Order No. R-4348, September 1, 1972, and Amended by Order No. R-8795, January 1, 1989.) In the event it becomes necessary for any transporter of crude petroleum to resort to pipeline proration in New Mexico, such transporter shall, as soon as possible and not later than 24 hours after the effective date thereof, notify the Division of its decision to so prorate; upon receipt of such notice from such transporter, the Division may take such emergency action, as may be deemed proper, and/or upon its own motion, after notice, hold a hearing for the purpose of considering any action within its authority, to preserve and protect correlative rights.

In case of pipeline proration any operator affected thereby has the right to make application to the Division for authorization to have any shortage or underproduction resulting therefrom included in subsequent proration schedules. Such applications shall be made upon a form hereby authorized to be prescribed by the Division and filed therewith within thirty days after the close of the first proration period in which such pipeline proration shortage occurred, and such authorization shall be limited in any event to wells capable of producing the daily top unit allowable for such period.

In approving any such application the Division shall determine the period of time during which such shortage shall be made up without injury to the well or pool, and shall include the same in the regularly approved proration schedules following the conclusion of pipeline proration.

**RULE 504. AUTHORIZATION FOR PRODUCTION OF OIL WHILE COMPLETING, RECOMPLETING, OR TESTING AN OIL WELL** (As Amended by Order No. R-98-A, July 1, 1952; Order No. R-2761, January 1, 1965.)

(a) In the event an operator does not have sufficient lease storage to hold oil produced from a well during the process of its drilling, completing, recompleting, or testing, the operator of said well shall be permitted to produce and sell from said well an amount of oil as may be necessary to drill, complete, re-complete, or test said well; provided however, that the operator of said well shall file with the Division a written application stating the circumstances at said well and setting forth therein the estimated amount of oil to be produced during the aforementioned process of operations, and provided further that said application is approved by the Division. Oil produced during the process of drilling, completion or recompletion, or testing a well shall be charged against the allowable production of said well.

(b) (As Amended by Order No. R-2761, January 1, 1965.) No well shall be placed on the proration schedule until Form C-104 has been filed with and approved by the Division.

**RULE 505. DEPTH BRACKET ALLOWABLES** (As Amended by Order No. R-98-A, July 1, 1952; Order No. R-160, June 12, 1952; Order No. R-1756, August 23, 1960; Revised by O.C.C. June 1, 1968; and Amended by Order No. R-3933, June 1, 1970; and Order No. R-4348, September 1, 1972.)

(a) (As Adopted in Order No. R-4348, September 1, 1972.) Subject to the market demand percentage factor determined pursuant to the provisions of Rule 503, the daily oil allowable for each oil pool in the state shall be equal to the appropriate depth bracket allowable below. The depth of the casing shoe or the top perforation in the casing, whichever is higher, in the first well completed in the pool shall determine the depth classification for the pool. Daily oil allowables for each of the several ranges of depth and spacing patterns shall be as follows:

POOL DEPTH RANGE	DEPTH BRACKET ALLOWABLE		
	40 Acres	80 Acres	160 Acres
0 to 4,999 feet	80 bbls.	160 bbls.	- -
5,000 to 5,999 feet	107 bbls.	187 bbls.	347 bbls.
6,000 to 6,999 feet	142 bbls.	222 bbls.	382 bbls.
7,000 to 7,999 feet	187 bbls.	267 bbls.	427 bbls.
8,000 to 8,999 feet	230 bbls.	310 bbls.	470 bbls.
9,000 to 9,999 feet	275 bbls.	355 bbls.	515 bbls.
10,000 to 10,999 feet	320 bbls.	400 bbls.	560 bbls.
11,000 to 11,999 feet	365 bbls.	445 bbls.	605 bbls.
12,000 to 12,999 feet	410 bbls.	490 bbls.	650 bbls.
13,000 to 13,999 feet	455 bbls.	535 bbls.	695 bbls.
14,000 to 14,999 feet	500 bbls.	580 bbls.	740 bbls.
15,000 to 15,999 feet	545 bbls.	625 bbls.	785 bbls.
16,000 to 16,999 feet	590 bbls.	670 bbls.	830 bbls.
17,000 to 17,999 feet	635 bbls.	715 bbls.	875 bbls.

(b) (As Adopted in Order No. R-4348, September 1, 1972.) The 40-acre depth bracket allowables shall apply to all undesignated wells not governed by special pool rules and to all pools developed on the normal 40-acre statewide spacing unit.

(c) (As Adopted in Order No. R-4348, September 1, 1972.) The 80-acre and 160-acre depth bracket allowables shall apply to wells governed by applicable special pool rules promulgated by the Division as an exception to the normal 40-acre statewide spacing unit.

(d) (As Adopted in Order No. R-4348, September 1, 1972.) The Division may, where the same is deemed advisable, assign to a given pool a special depth bracket allowable at variance to the depth bracket allowable normally assigned to a pool of similar depth and spacing. Such special allowable may be more or less than the regular depth bracket allowable and shall be assigned only after notice and hearing.

In assigning a lesser than regular depth bracket allowable, the Division may consider, among other pertinent factors, reservoir damage, casinghead gas production and disposition, water production and disposition, transportation facilities, the prevention of surface or underground waste, and the protection of correlative rights.

Assignment of a greater than regular depth bracket allowable shall be made only after sufficient reservoir information is available to ensure that said allowable can be produced without damage to the reservoir and without causing surface or underground waste. The Division shall also consider the availability of crude oil transportation and marketing facilities, casinghead gas transportation, processing, and marketing facilities, water disposal facilities, the protection of correlative rights, and other pertinent factors.

**RULE 506. GAS-OIL RATIO LIMITATION** (As Amended by Order No. R-98-A, July 1, 1952, Revised by O.C.C. June 1, 1968, Amended by Order No. R-4159-A, November 1, 1971, and Order No. R-8795, January 1, 1989.)

(a) In allocated pools containing a well or wells producing from a reservoir which contains both oil and gas, each proration unit shall be permitted to produce only that volume of gas equivalent to the applicable limiting gas-oil ratio multiplied by the top unit oil allowable for the pool. In the event the Division has not set a gas-oil ratio limit for a particular oil pool, the limiting gas-oil ratio shall be 2000 cubic feet of gas for each barrel of oil produced. In allocated oil pools all producing wells, whether oil or casinghead gas, shall be placed on the oil proration schedule.



Submit 5 Copies  
Appropriate District Office  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

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

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-104  
Revised 1-1-89  
See Instructions  
at Bottom of Page

REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

I.

Operator Hixon Development Company	Well API No. 30-039-24373
Address P.O. Box 2810, Farmington, New Mexico 87499	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator	

II. DESCRIPTION OF WELL AND LEASE

Lease Name Missy	Well No. 3	Pool Name, Including Formation W Lindrith Gallup/Dakota	Kind of Lease State, Federal or Fee	Lease No.
Location				
Unit Letter N	: 330	Feet From The South	Line and 2310:	Feet From The West
Section 35	Township 25N	Range 3W	, NMPM, Rio Arriba County	

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Giant Refining	PO Box 256, Farmington, NM 87499
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit N Sec. 35 Twp. 25N Rge. 3W Is gas actually connected? No When ?
If this production is commingled with that from any other lease or pool, give commingling order number:	

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well	New Well <input checked="" type="checkbox"/>	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded 3-29-89	Date Compl. Ready to Prod. 5-1-89	Total Depth 8030'	P.B.T.D. 7989.67'					
Elevations (DF, RKB, RT, GR, etc.) 7038' GLE	Name of Producing Formation Gallup/Dakota	Top Oil/Gas Pay 7808'	Tubing Depth 7807'					
Perforations 7808' - 7832'	Depth Casing Shoe							
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT				
12-1/4"	9-5/8"	257.90' KB		160 sks.				
8-3/4"	5-1/2"	8034.18'		1085 sks.				
	2-3/8"	7807'						

V. 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 Tank 5-1-89	Date of Test 5-11-89	Producing Method (Flow, pump, gas lift, etc.) Flowing	
Length of Test 24 hours	Tubing Pressure 100 psig	Casing Pressure 800 psig	Choke Size 3/4"
Actual Prod. During Test	Oil - Bbls. 347	Water - Bbls. 4 (Load fluid)	Gas - MCF 423

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

VI. OPERATOR CERTIFICATE OF COMPLIANCE

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

Signature  
Aldrich L. Kuchera President/CEO  
Printed Name  
May 11, 1989 (505) 326-3325  
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved MAY 01 1989  
By  
Title SUPERVISOR DISTRICT #

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
  - 2) All sections of this form must be filled out for allowable on new and recompleted wells.
  - 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
  - 4) Separate Form C-104 must be filed for each pool in multiply completed wells.
- (23)

OIL CONSERVATION DIVISION

AZTEC

DISTRICT OFFICE

Jan. thru June, 1989  
NO. 3020/R

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE June 2, 1989

PURPOSE ALLOWABLE REVISION

Effective May 1 1989, the Hixon Development Co., Missy #2 & #3, K & N-35-25N-3W, Lindrith Gallup Dakota, West Pool, Rio Arriba County are authorized to produce and are classified non-marginal in the oil proration schedule.

Allowable for the wells is 382 BOPD.  
Production for Missy #3 not to exceed 80 BOPD.

C-116 DUE June 10, 1989

New Well Missy #3

Type Land P

Producing Method F

IP 347 BOPD

160 Acres

Top Perforation 7808

Oil Trans. G R

OIL CONSERVATION DIVISION

  
DISTRICT SUPERVISOR