

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

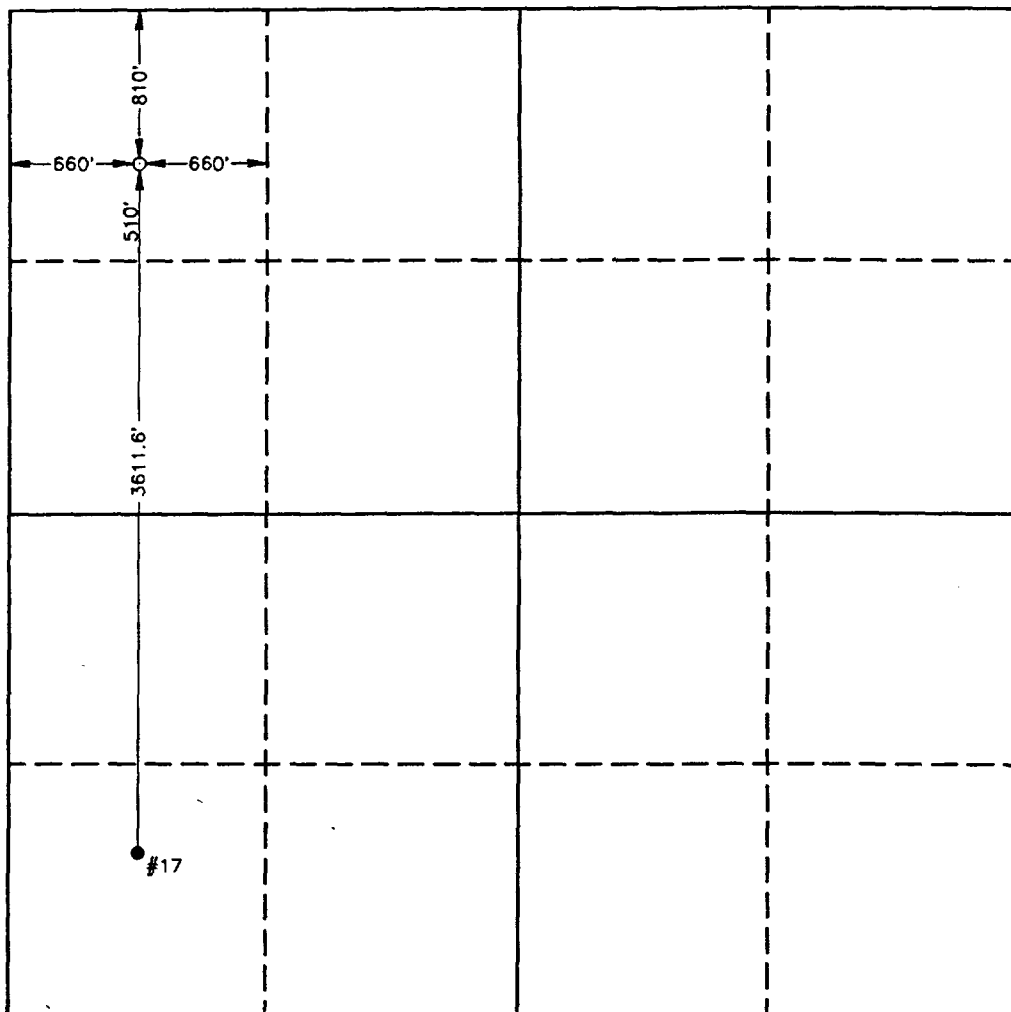
Operator PHILLIPS PETROLEUM COMPANY			Lease RANGER		Well No. 20
Unit Letter D	Section 26	Township 12 SOUTH	Range 34 EAST	County NMPM LEA	
Actual Footage Location of Well: 810 feet from the NORTH line and 660 feet from the WEST line					
Ground Level Elev. 4151.1'	Producing Formation		Pool	Dedicated Acreage: Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the 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 of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature

Printed Name

Position

Company

Date

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

JANUARY 22, 1993

Signature & Seal of
Professional Surveyor

Certificate No. **JOHN W. WEST 676**
RONALD J. EDSON 3239
GARY L. JONES 7977

93-11-0101

MARTIN YATES, III
1912 - 1990
FRANK W. YATES
1936 - 1990



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

March 2, 1993

Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762

Attention: Paul Hall

RE: Application of Phillips Petroleum
Company for Unorthodox Gas Well
Proposed Ranger #20 Well
Sec. 26-T12S-R34E
Lea County, New Mexico

Gentlemen:

Pursuant to our telephone conversation, enclosed are copies of waivers covering the captioned which have been executed on behalf of Yates Petroleum Corporation, Yates Drilling Company, and Myco Industries, Inc. We have no principal for Abo Petroleum Corporation present until perhaps Thursday. There is no problem with a waiver executed on behalf of Abo Petroleum Corporation; however it looks doubtful if signature can be obtained this week.

Thank you.

Very truly yours,

YATES PETROLEUM CORPORATION

Kathy H. Porter, CPL
Landman

KHP/pkw
Enclosures

**PHILLIPS PETROLEUM COMPANY**ODESSA, TEXAS 79762
4001 PENBROOKEXPLORATION AND PRODUCTION GROUP
Permian Basin Region

February 10, 1993

RE: Application of Phillips Petroleum
Company for an Unorthodox Gas
Well Location
Proposed Ranger #20 Well
Section 26, T12S, R34E
Lea County, New Mexico

Yates Petroleum Company
Attention: Mr. Randy Patterson
105 South Fourth Street
Artesia, New Mexico 88210

Dear Mr. Patterson:

Phillips Petroleum Company intends to make application to the New Mexico Oil Conservation Division to permit the drilling of its proposed Ranger 20 Well at an unorthodox well location 810 feet FNL and 660 feet FWL (Unit D) of Section 26, T12S, R34E, NMPM, West Ranger Lakes-Devonian Gas Pool.

Our information is that Yates Petroleum Company, Yates Drilling Company, ABO Petroleum Corporation and Myco Industries, Inc. are the owners of Section 22, T12S, R34E, the northwest diagonally offsetting section to the well location.

Phillips Petroleum Company is requesting a waiver of objection from you for this location. Please sign in the space provided below and return one (1) copy of this letter to the undersigned.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

Paul Hall, CPL
Area LandmanPH:lsw
yatesapp.ltr

Yates Petroleum Company hereby
WAIVES OBJECTION To This Application

By

Title Peyton Yates, Attorney-in-FactDate: March 2, 1993

**PHILLIPS PETROLEUM COMPANY**ODESSA, TEXAS 79762
4001 PENBROOKEXPLORATION AND PRODUCTION GROUP
Permian Basin Region

February 10, 1993

RE: Application of Phillips Petroleum
Company for an Unorthodox Gas
Well Location
Proposed Ranger #20 Well
Section 26, T12S, R34E
Lea County, New Mexico

Yates Drilling Company
Attention: Mr. Randy Patterson
105 South Fourth Street
Artesia, New Mexico 88210

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Very truly yours,

PHILLIPS PETROLEUM COMPANY

Paul Hall, CPL
Area LandmanPH:lsw
yatesapl.1tr

Yates Drilling Company hereby
WAIVES OBJECTION To This Application

By

Title Peyton Yates, Attorney-in-FactDate: March 2, 1993

**PHILLIPS PETROLEUM COMPANY**ODESSA, TEXAS 79762
4001 PENSROCKEXPLORATION AND PRODUCTION GROUP
Permian Basin Region

February 10, 1993

RE: Application of Phillips Petroleum
Company for an Unorthodox Gas
Well Location
Proposed Ranger #20 Well
Section 26, T12S, R34E
Lea County, New Mexico

Myco Industries, Inc.
Attention: Mr. Randy Patterson
105 South Fourth Street
Artesia, New Mexico 88210

Dear Mr. Patterson:

Phillips Petroleum Company intends to make application to the New Mexico Oil Conservation Division to permit the drilling of its proposed Ranger 20 Well at an unorthodox well location 810 feet FNL and 660 feet FWL (Unit D) of Section 26, T12S, R34E, NMPH, West Ranger Lakes-Devonian Gas Pool.

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Phillips Petroleum Company is requesting a waiver of objection from you for this location. Please sign in the space provided below and return one (1) copy of this letter to the undersigned.

Very truly yours,

PHILLIPS PETROLEUM COMPANYPaul Hall, CPL
Area LandmanPH:lsw
yatesap3.1tr

Myco Industries, Inc. hereby
WAIVES OBJECTION To This Application

By Frank Yates Jr.Title Frank Yates, Jr., Attorney-in-FactDate: March 2, 1993

STANDARD COTTON *Cotnam*
COTTON / COTTON
ALCOHOLIC COMPANY
COTTON *4*
CASE NO. *10,675*

WELL SERVICE APPROVAL
PHILLIPS PETROLEUM COMPANY--PERMIAN BASIN REGION

RKB @ 4159
CHF @
GL @ 4149

Category Code: none Date March 1, 1993
Area NORTH Subarea LOVINGTON
Lease & Well No. RANGER LAKE UNIT #2-14 (formerly tract 2 well 2)
Legal Description 1980' FSL & 1980' FWL SEC. 23, T12S, R34E
LEA COUNTY State: NEW MEXICO
Field RANGER LAKE
Status: P&A'D 9-13-71 BCPD BWPD MMCFD
Tbg: of " OD, #/ft, Gr.

Packer: Packer Type:
Date Drilled/Completed: 5-27-66/9-02-66; plugback 9-01-69
Hole/Casing Condition: P&A'D 7-13-71
Stimulation History: 8-12-66 12907-12940' (OH) 500 gals acid
9-03-69 10224-10326' 5000 gals 15% acid

WELLHEAD DESCRIPTION:

PROPOSAL:

JUSTIFICATION:

XXXXXXXXXXXXXXXXXXXX 17-1/2" Hole
XXXXXXXXXXXXXXXXXXXX 30' to surf 10 sx
13-3/8" 48# @ 358'
XXXXXXXXXXXXXXXXXXXX Cmt'd w/400 sx
XXXXXXXXXXXXXXXXXXXX TOC @ surface
XXXXXXXXXXXXXXXXXXXX 11" Hole
XXXXXXXXXXXXXXXXXXXX cmt plug f/310-400' 100 sx
cmt plug f/750-850' 60 sx
XXXXXXXXXXXXXXXXXXXX 8-5/8" csg cut-off @ 799'
TOC @ 3005'
8-5/8" 32# @ 4205'
XXXXXXXXXXXXXXXXXXXX cmt'd w/385 sx
XXXXXXXXXXXXXXXXXXXX Cmt plug f/4150-4250' 35 sx
XXXXXXXXXXXXXXXXXXXX 7-7/8" Hole
4-1/2" csg cut-off @ 4720'
cmt plug f/4670-4770'
TOC @ 9140'
pkc @ 10196' + 40 sx cmt on top
& 10 sx cmt below
Penn perfs sqzd
10224-10230' (6 holes)
10234-10242' (8 holes)
10248-10255' (7 holes)
10264-10268' (4 holes)
10280-10284' (4 holes)
10288-10294' (6 holes)
10310-10314' (4 holes)
10322-10326' (4 holes)
Baker CIBP @ 12800'
cmt on top to 12794'
4-1/2" 13.5#, 11.6# csg set
@ 12,907' Cmt'd w/800 sxs
TOC @ 9140'
33' open hole (Devonian)
TD = 12940'
PBTD = 0'

Checked by:
Reser. Engr.
Prod. Engr.
Approved

PROJECT ECONOMICS @ \$
BOPD MCFD
AARR %
PAYOUT YRS.
NTER TIMES
NPV @ 13%
NPVR @ 13%
ECONOMIC LIFE YRS.
EST. COMPL. DATE
PPCO: W.I. %
R.I. %

Copies: R. M. Sulak
(r) Central Files
S. H. Oden (3)
D. L. Rockey
L. M. Sanders
D. R. Wier
(r) P. A. Boring
S. D. McCoy
(r) K. E. Snow
M. L. Moore
J. I. Michaelis
S. C. Balke

CHARGE TO	GROSS COST	NET COST
TANGIBLE WO	\$	\$
INTANGIBLE AFE	\$	\$
TOTAL	\$	\$

Catanach	
STATEMENT ON	
TOTAL OF THE DEBT OF THE	
DATE	5
AMOUNT	10,675

WELL SERVICE APPROVAL
PHILLIPS PETROLEUM COMPANY--PERMIAN BASIN REGION

RKB @ 4157
GL @ 4146

Category Code: THREE Date March 2, 1993 CHF
Area NORTH Subarea LOVINGTON
Lease & Well No. RANGER #15 (was West Ranger Lake Unit #1)
Legal Description 660' FNL & 1980' FWL SEC. 26, T12S, R34E
LEA COUNTY State: NEW MEXICO
Field RANGER LAKE - Bough
Status: P&A'D BCPD BMPD MMCFD
Tbg: of " OD, #/ft, Gr.

XXXXXXXXXXXXXXXXXX 17-1/2" Hole
XXXXXXXXXXXXXXXXXX 100' to surf 50 sx (circ)
13-3/8" 54.5# @ 363'
Cmt'd w/400 sx
TOC @ surface (circ. 75 sx)
spot 50 sx @ 410' (plug @310')
spot 75 sx @ 410' (plug @640')
top of plug @ 780'
11" Hole
pulled 1000' of 8-5/8" csg
spotted 100 sx cmt @ 1050'
spotted 40 sx cmt @ 1550'
4 shots @ 2000' (sqzd w/108 sx)
spotted 65 sx cmt @ 2150'

Packer: Packer Type:
Date Drilled/Completed: 8-02-67
Hole/Casing Condition: P&A'D 8-19-80
Stimulation History: 7-28-67 12828-12894' (OH) 1000 gals reg. acid
7-25-70 9939-9978' 1000 gals 15% NE acid
12-30-70 9939-9978' 1000 gals 15% NEFE acid

WELLHEAD DESCRIPTION:

PROPOSAL:

JUSTIFICATION:

XXXXXXXXXXXXX top of plug @ 4030'
XXXXXXXXXXXXX 8-5/8" 32# @ 4200'
XXXXXXXXXXXXX Cmt'd w/400 sxs
XXXXXXXXXXXXX TOC @ 3150'
7-7/8" Hole
pulled 4,250' of 5-1/2" csg
spotted 65 sx cmt @ 4300' top of plug @ 4030'

BP @ 9780' + 3 sx cmt

Bough-C perfs

=== 9939-9944' (10 holes)
=== 9951-9957' (12 holes)
=== 9972-9978' (12 holes)
CIBP @ 9995' (Devonian zone P&A'D 7/70)

spotted 40 sx cmt @ 10800' reversed
out 3 Bbls cmt @ 10450'

37 Bbls mud @ 12400'
5-1/2" 17# J-55 to 20# N-80
@ 12,828' Cmt'd w/710 sxs
TOC @ 7200'
spotted 50 sx cmt @ 12815' (TOC @12400')
4-11/16" Hole
66' open hole (Devonian)
spotted 7 sx 3# sand @ 12894-12878'

TD = 12894'
PBTD = 0'

Checked by:

Reser. Engr.

Prod. Engr.

Approved

PROJECT ECONOMICS @ \$
BOPD MCFD
AARR %
PAYOUT YRS.
NTER TIMES
NPV @ 13%
NPVR @ 13%
ECONOMIC LIFE YRS.
EST. COMPL. DATE
PPCO: W.I. %
R.I. %

Copies: R. M. Sulak
(r) Central Files
S. H. Oden (3)
D. L. Rockey
L. M. Sanders
D. R. Wier
(r) P. A. Boring
S. D. McCoy
(r) K. E. Snow
M. L. Moore
J. I. Michaelis
S. C. Balke

	CHARGE TO	GROSS COST	NET COST
TANGIBLE	WO <u> </u>	\$ <u> </u>	\$ <u> </u>
INTANGIBLE	AFF <u> </u>	\$ <u> </u>	\$ <u> </u>
TOTAL		\$ <u> </u>	\$ <u> </u>

File name H:\WELLFILE\LOVINGTN\RANGER\#15.S01

NAME	Catanach
DATE	
BY	
SECTION	6
CASE NO.	10675

WELL SERVICE APPROVAL
PHILLIPS PETROLEUM COMPANY--PERMIAN BASIN REGION

RKB @ 4160
 a
 GL @ 4146

Category Code: THREE Date March 2, 1993 CHF
 Area NORTH Subarea LOVINGTON
 Lease & Well No. RANGER #16 (WAS WEST RANGER LAKE UNIT #2)
 Legal Description 1980' FSL & 1980' FML SEC. 26, T12S, R34E
LEA COUNTY State: NEW MEXICO
 Field RANGER LAKE -
 Status: _____ BCPD _____ BWPD _____ MMCFD
 Tbg: _____ of _____ " OD, _____ #/ft, Gr. _____

17-1/2" Hole
 13-3/8" 54.5# J-55 @ 370'
 Cmt'd w/400 sx
 TOC @ surface (circ. 150 sx)
 11" Hole

Packer: _____ Packer Type: _____
 Date Drilled/Completed: 8-02-67
 Hole/Casing Condition: _____
 Stimulation History: 2-07-68 12816-12863' (OH) 1000 gals reg. acid
4-29-71 10,000' spotted 300 gals 10% acetic acid
12-30-70 9939-9978' 1000 gals 15% NEFE acid
7-27-73 12,250' spotted 3000 gals 28% acid
7-07-82 OH(12816-12863') 3000 gals 28% NEFE HCL
12-83 11849-870' 2000 gals 15% NEFE HCL
6-04-84 10245-280' 3500 gals 20% NEFE HCL
11-11-86 10245-10280' 2000 gals 24% NEFE HCL

Proposal: _____
 HISTORY: 3/68-5/71 produced Devonian (spotted 55 sx cmt @ 12859', plug @ 12400', reversed out 5 sx @ 12400'; spotted 42 bbls mud @ 12400'; spotted 60 sx cmt @ 10600', plug @ 10100', reversed out 7 sx cmt)
 5/71-7/73 Produced Bough-C (9958-9976') sqzd w/50 sx cmt 7/73
 7/73 drld cmt to 12,863'; converted to SWD; OH 12816-12863'
 4/83 pkr @ 12470', perf'd Mississippian 11849-11870' sqzd w/50 sx 5/84
 5/84 perf'd Ranger Lake Penn (10245-10280')
 6/84 csg leak, spotted 50 sx cmt @ 2300' displaced to 9976'; ret @ 2230' pmpd 350 sx cmt to sqz hole @ 2365-2397'

8-5/8" 32# J-55 @ 4200'
 Cmt'd w/400 sxs
 TOC @ 3600' (T.S.)

7-7/8" Hole

Bough-C perfs sqzd 7/73
 9958-9976' (36 holes)

Ranger Lake Penn perfs
 10245-10250' (10 holes)
 10254-10261' (14 holes)
 10276-10280' (8 holes)

Mississippian Chester perfs
 11,849-11,870' (42 shots) sqzd 5/84
 E-Z Drill ret. @ 11743; cmt @ 11712'
 Model "D" pkr @ 12,470' + 4 sx cmt
 TOC @ 12,375'

5-1/2" 17# J-55 to 20# N-80
 @ 12,816' Cmt'd w/750 sxs
 TOC @ 6800'

4-11/16" Hole
 47' open hole (Devonian)

TD = 12863'
 PBTD = 11712'

Checked by:
 Reser. Engr. _____
 Prod. Engr. _____
 Approved _____

PROJECT ECONOMICS @ \$ _____
 _____ BOPD _____ MCFD
 AARR _____ %
 PAYOUT _____ YRS.
 NTER _____ TIMES
 NPV @ 13% _____
 NPVR @ 13% _____
 ECONOMIC LIFE _____ YRS.
 EST. COMPL. DATE _____
 PPCO: W.I. _____ %
 R.I. _____ %

Copies: R. M. Sulak
 (r) Central Files
 S. H. Oden (3)
 D. L. Rockey
 L. M. Sanders
 D. R. Wier
 (r) P. A. Boring
 S. D. McCoy
 (r) K. E. Snow
 M. L. Moore
 J. I. Michaelis
 S. C. Balke

	CHARGE TO	GROSS COST	NET COST
TANGIBLE	WO _____	\$ _____	\$ _____
INTANGIBLE	AFF _____	\$ _____	\$ _____
TOTAL		\$ _____	\$ _____

File name H:\WELLFILE\LOVINGTN\RANGER\#16.S01

Species: *Catanach*
Date: _____
Locality: _____
Collector: _____
Number: 7
Case No. 10675

WELL SERVICE APPROVAL
PHILLIPS PETROLEUM COMPANY--PERMIAN BASIN REGION
Procedure No. 92392

RKB @ 4180.90
 DF @ 4179.90
 GL @ 4149.60

Category Code: 3 Date October 29, 1992
 Area North Subarea Lovington
 Lease & Well No. Ranger #17
 Legal Description 860' FSL & 660' FUL SEC. 26, T12S, R34E
Lea County State: New Mexico
 Field Ranger Lake (DEVONIAN)
 Status: Flowing 10/26/26 BCPD BMPD MMCFD
 Tbg: 12,731' of 2-7/8" @ 7.9 #/ft, Gr. L-80
 See attached sketch for subsurface equipment detail***
 Packer: 12,730' Packer Type: Baker Model DB
 Date Drilled/Completed: January 1992
 Hole/Casing Condition: NEW WELL
 Stimulation History: Original Completion- 5/16/92- 3,000 gals 15% NeFeHCl

26" Hole
 20" 94# K-55 Csg @ 420'
 Cmt w/1000 sks
 Circulated cmt to surface

WELLHEAD DESCRIPTION: 11" 10,000 PSI/ 2-1/2" 5000# Flange on swab valve

PROPOSAL: Run 2nd Production Log

JUSTIFICATION: Second production log is necessary to determine point of water entry.

17 1/2" Hole
 13-3/8" 68# L-80 BUTT/LT&C @ 4199'
 Cmt w/2100 sks cement
 Circulated cmt to surface

BHP= 4876 psi
 BHT= 222 F
 Estimated Frac Gradient= .45 psi/ft

CASING DETAIL

TOC @ 8080' (CBL)	9 5/8" 53.5 lb/ft L-80 Buttruss 86.44'
	9 5/8" 47.0 lb/ft L-80 Buttruss 2657.48'
	9 5/8" 53.5 lb/ft L-80 Buttruss 36.27'
	9 5/8" 47.0 lb/ft L-80 LTC 4907.70'
	9 5/8" 53.5 lb/ft L-80 LTC 3985.08'
	9 5/8" 53.5 lb/ft P-110 LTC 2127.41'
DV Tool @ 11501'	
TOC @ 11630' (CBL)	

Note: Perforations correlated with Schlumberger GR-N-CCL log dated 3-11-92

Baker Model 'DB' Packer
 Set at 12730.86'
 (12724' wireline meas)

Perfs (Devonian)
 12813'-12821' (8'-32 shots)
 12829'-12843' (14'-56 shots)
 12849'-12853' (4'-16 shots)
 12864'-12869' (5'-20 shots)
 12871'-12902' (31'-136 shots)

Checked by:
 Resvr. Engr. S. E. Gutberlet
 Prod. Engr. D. G. Harms
 Approved _____

Current PBTD @ 12914'
 CIBP set @ 12925

12943-13011 (164 HOLES)
 13068-13105 (108 HOLES)
 CIBP set @ 13120'
 13134-13152 (72 HOLES)
 13192-13235 (18 HOLES)
 13260-13276 (32 HOLES)
 13312-13346 (50 HOLES)
 13467-13515 (70 HOLES)
 13682-13707 (50 HOLES)

CIBP set @ 13750'
 9 5/8" CASING SET AT 13800' (12 1/4" HOLE)
 CEMENTED IN 2 STAGES
 STAGE 1 1000 SKS
 STAGE 2 1650 SKS

PROJECT ECONOMICS @ \$ _____
 _____ BOPO _____ MCFD
 AARR _____ %
 PAYOUT _____ YRS.
 NTER _____ TIMES
 NPV @ 13% _____
 NPVR @ 13% _____
 ECONOMIC LIFE _____ YRS.
 EST. COMPL. DATE Nov. 92
 PPCO: W.I. 100.000000 %
 R.I. 87.212170 %

Copies: R. M. Sulak
 (r) Central Files
 S. H. Oden (3)
 D. L. Rocky
 L. M. Sanders
 D. R. Wier
 (r) S. E. Gutberlet
 S. D. McCoy
 (r) K. E. Snow
 D. G. Harms
 J. I. Michaelis
 L. S. Malone
 M. L. Moore

	CHARGE TO	GROSS COST	NET COST
TANGIBLE	WD 63-2598	\$ 13,500	\$ 13,500
INTANGIBLE	AFE	\$	\$
TOTAL		\$ 13,500	\$ 13,500

8 1/2" OPEN HOLE (13800'-14100')
 TD=14,100'

EXHIBIT NO. 8

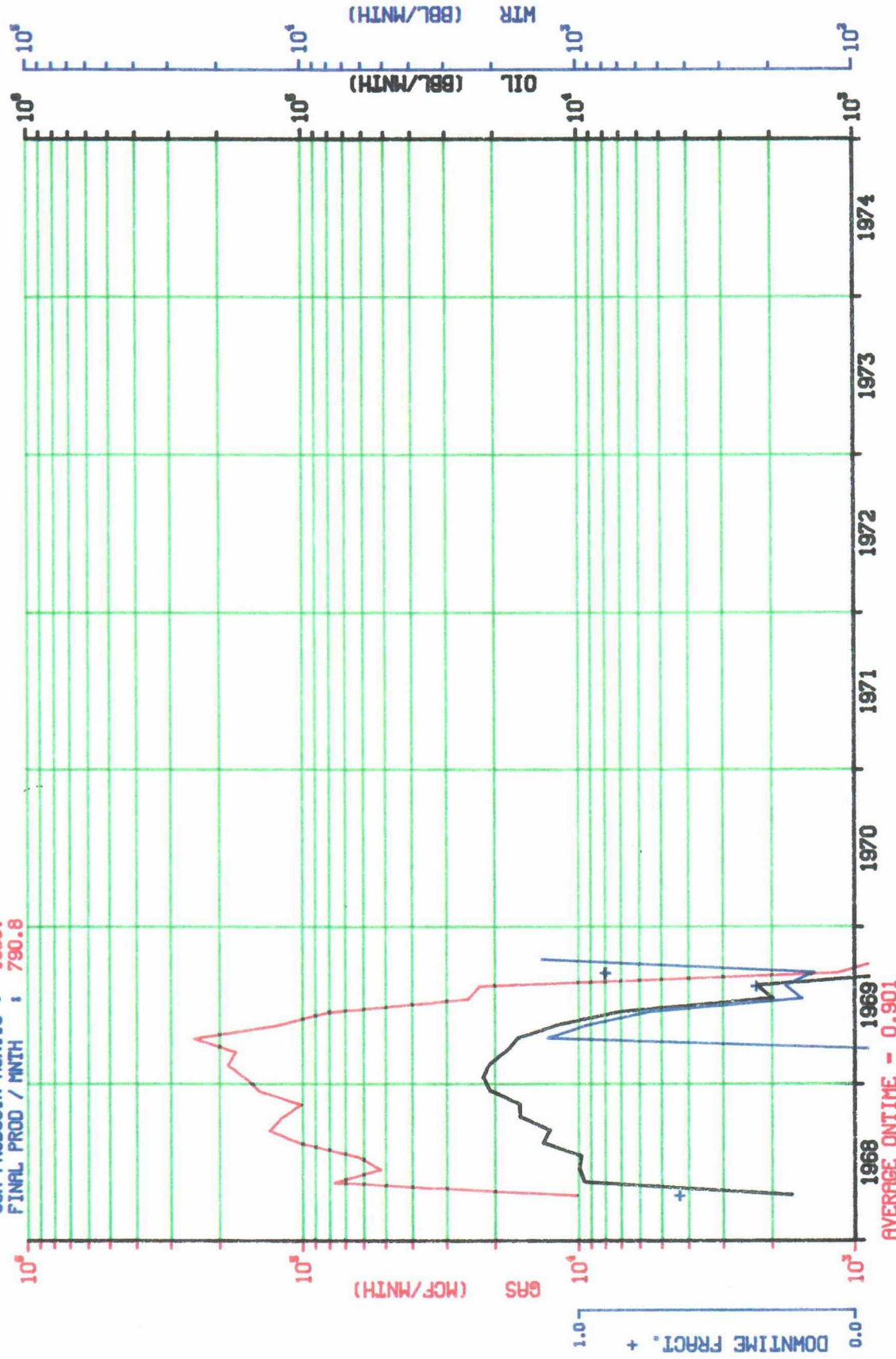
Catanoach

CASE NO. 10675

4/68-10/69
INITIAL PROD / MNTH : 27734.1

CUMS - 10/69
1808. MMCF GAS
211214. BBL OIL
4620. BBL WTR

CUM PRODUCTN-MUNITS : 1808.
FINAL PROD / MNTH : 790.8



LEASE- 600069 : RANGER
RESVR- 260 : RANGER LAKE WEST DEVONIAN
WELL - 000015 PHS WELL PRODUCTION

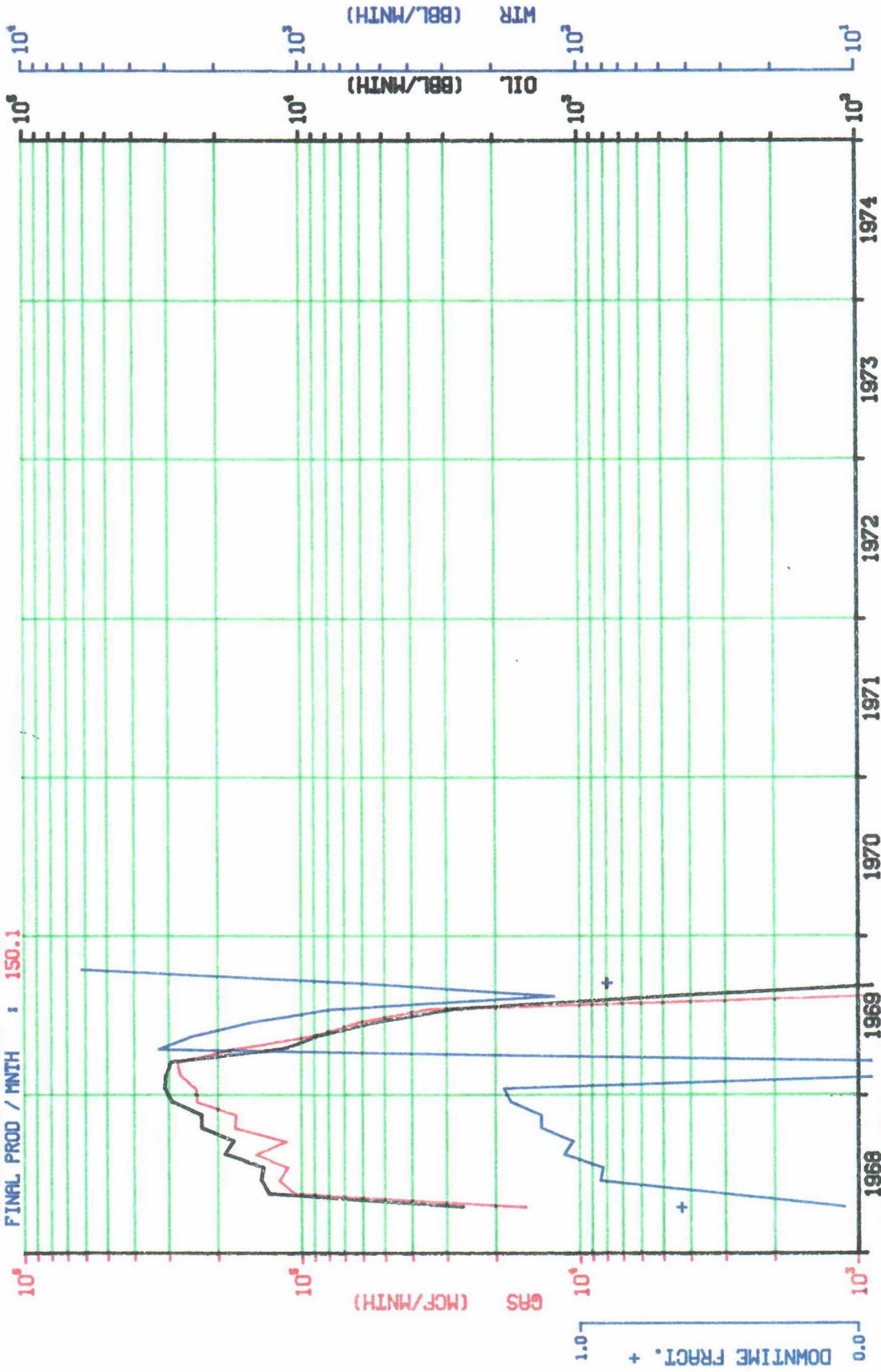
WELL-60006926000000015
API-30025220830000

Catanach
10,675
9
CASE NO 10,675

4/68-10/69
INITIAL PROD / MNTH : 42890.0

CUMS - 10/69
2351. MMCF GAS
275099.88L OIL
16211.88L WTR

CUM PRODUCTN-MUNITS : 2351.
FINAL PROD / MNTH : 150.1



AVERAGE ONTIME - 0.919

LEASE- 600069 : RANGER
RESVR- 260 : RANGER LAKE WEST DEVONIAN
WELL - 000016 PHS WELL PRODUCTION

WELL-6000692600000016
API-30025223520000

Catamarca

10

10,675