



Rec'd 3/8/82

File
10-47

March 5, 1982

Sun Exploration and
Production Company
Three North Park East
Post Office Box 20
Dallas Texas 75221
214 739 7200State of New Mexico
Energy and Minerals Department
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501Attn: Mr. Daniel S. Nutter
Chief EngineerRe: Administrative Application of Sun
Exploration and Production Co. for an
Unorthodox Gas Well Location, Eddy Co-
ounty, New Mexico

Gentlemen:

Sun Exploration and Production Company respectfully requests adminis-
trative approval of an unorthodox gas well location, due to topograph-
ical conditions, for our Pecos Irrigation Co. Well No. 1 to be drilled
at a location 1980 feet from the North line and 2130 feet from the
East line of Section 10, Township 23 South, Range 28 East, Eddy County,
New Mexico.

Sun's proposed well would test the Atoka and Morrow formations at ap-
proximate respective depths of 11,600 feet and 12,275 feet. Sun's
Pecos Irrigation Company Well No. 1 would be permitted to a depth of
13,100 feet with the proposed total depth at 13,000 feet.

More than one lease of different ownership has been voluntarily dedi-
cated to the well, and the interest of all owners has been consolidated
by voluntary unitization. The East half of Section 10, T-23-S, R-28-E,
Eddy County, has been dedicated to the proposed well.

Sun's request for an unorthodox location is necessitated because of
two intersecting canals and a road which traverse the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$
in a NE/SW direction and in an E/W direction. Both canals intersect in
the SW $\frac{1}{4}$ NE $\frac{1}{4}$ at a point approximately 1980 feet from the North and East
lines of Section 10.

All offset operators have been notified of Sun's unorthodox gas well
location and waiver requests have been submitted via certified mail
as per the attached offset operator list.

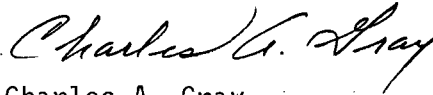
Notified Price Bennett of this appl and the
waiver from Pogo 11:30 am 3/8/82. Told him it's
OK to approve C-101 subject to provision there be no
production until NSL has been approved. Also
called Charlie Gray-Sun and told him OK to start drilling.

NSL-1497
due 4/7and notification
Also that we need ownership in Sec 2 and half Sec 14
that Bennett will approve C-101 today subject to above provisions.Rec'd
4-7-82
DR

Due to extenuating circumstances (lease expiration date) Sun begs the Commission to expedite verbal approval authority in order that Sun may be allowed to spud subject well on Monday, March 8, 1982.

Your assistance and cooperation in this matter is most appreciated.

Respectfully submitted,

A handwritten signature in cursive script, reading "Charles A. Gray".

Charles A. Gray
Area Manager of Conservation
P. O. Box 20
Dallas, Texas 75221
AC 214 739-7499

CAG:nh
Attachments

Union Oil Co.
Holly Energy
Amoco

R 28 E

T-39992-1,2
1-83
120 Ac.

U.S.

T-39990
11-11-82

POGO PRODUCING
COMPANY
320 Ac.

Pogo
80 Ac.

Sun
200 Ac.

Delta
Drilling

U.S.

10

URQUIDEZ
COM. #1

⊙
660 FWL
1980 FSL
ATOKA FORM.

Pogo
40 Ac.

2130'
Irrigation Canal & Road

Amoco T
23
S

T-39991
11-11-82
80 Ac.

T-39990
11-11-82
194.60Ac.

U.S.

Coquina Oil Corp.

State

T-39994
8-81
32.29Ac.

Cities Service
Pogo Producing
Coquina Oil Corp.



unitized Lease

SUN EXPLORATION & PRODUCTION CO.
SUN GAS DIVISION
WELL LOCATION PLAT
PECOS IRRIGATION CO. NO. 1
N.E. LOVING FIELD
EDDY CO., NEW MEXICO
SCALE: 1" = 1000' FEB., 1982

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

Form C-102
Supersedes C-128
Effective 1-1-65

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

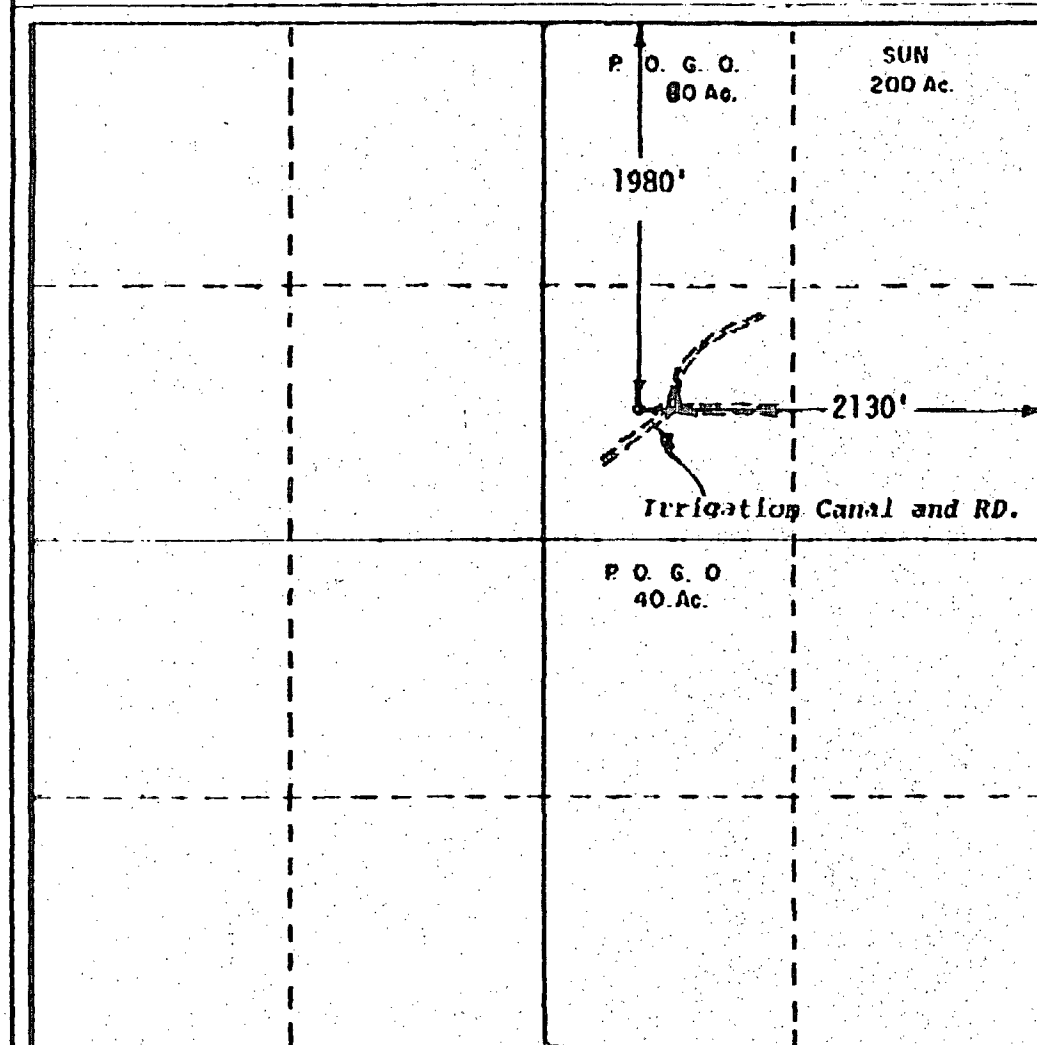
Operator SUN EXPLORATION & PRODUCTION CO.			Lessee PECOS IRRIGATION CO.		Well No. 1
Tract Letter G	Section 10	Township 23-S	Range 28-E	County EDDY	
Actual Enticement Location of Well:					
1980	feet from the	NORTH	line and	2130	feet from the EAST line
Ground Level Elev: 3019'	Producing Formation Atoka, Morrow		Pool NE Loving		Dedicated Acreage: 320 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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



CERTIFICATION

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

Sue Clark
Name

Production Staff Associate
Position

Sun Exploration & Production
Company

February 22, 1982
Date

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.

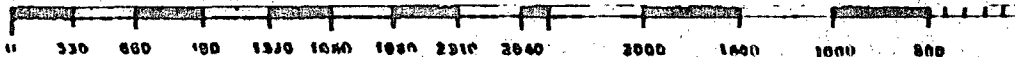
FEBRUARY 18, 1982

Date Surveyed
GARY S. BOSWELL

Registered Professional Engineer
and/or Land Surveyor

Gary S. Boswell
Certificate No.

6689



OFFSET OPERATOR LIST

Amoco Production Company
P. O. Box 3092
Houston, Texas 77001
Attn: Mr. J. C. Allen
Proration Dept.

Cities Service Company
P. O. Box 1919
Midland, Texas 79702
Attn: Mr. E. F. Motter

Coquina Oil Corporation
P. O. Drawer 2960
Midland, Texas 79702
Attn: Mr. Les Oppermann

Delta Drilling Company
3100-C North A- Street
Midland, Texas 79701
Attn: Mr. Ray Bullock/Rod Woodard

Holly Energy, Inc.
2600 Diamond Shamrock Tower
Dallas, Texas 75201
Attn: Mr. Wm. H. Boyles

Union Oil Company of California
P. O. Box 671
Midland, Texas 79702
c/o Robert Lockhart/Attn: Mr. Lloyd Thompson

**TO: OFFSET
OPERATORS**

March 5, 1982

-COPY-

Re: Waiver Request for Administrative
Application of an Unorthodox Gas
Well Location, Eddy County, NM

Gentlemen:

Sun Exploration and Production Company respectfully requests your waiver of objection for administrative approval of an unorthodox well location based on topographical conditions for our Pecos Irrigation Co. Well No. 1 proposed to be drilled at a location 1980 feet from the North line and 2130 feet from the East line of Section 10, Township 23 South, Range 28 East, Eddy County, New Mexico.

Sun's well would test the Atoka and Morrow formations in the East half of Section 10, but our request for an unorthodox location would in no manner infringe upon your acreage position, as our proposed location is at least 1980 feet removed from lease boundaries to the North, East and South of Section 10.

If you as the authorized representative of your company have no objections to Sun's proposed unorthodox location, please execute the waiver noted below and mail in the envelopes provided to the appropriate parties.

Your assistance and cooperation in this matter is most appreciated. Should you have any questions, please contact me in Dallas, Texas at 214/739-7499.

Respectfully submitted,

Charles A. Gray
Area Manager of Conservation
SUN EXPLORATION & PRODUCTION COMPANY

W A I V E R

Gentlemen,

Please be advised that **OFFSET OPR.** has reviewed Sun Exploration & Production Co.'s proposed Pecos Irrigation Co. Well No. 1 to be drilled at an unorthodox location 1980 feet from the North line and 2130 feet from the East line of Section 10, T-23-S, R-28-E, Eddy County, New Mexico, and hereby waive all rights of protest as to this proposed location.

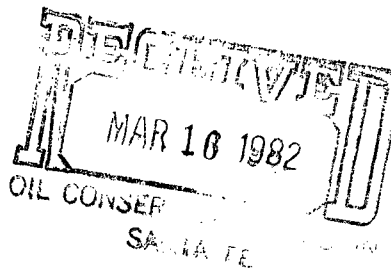
Signed: _____

Date: _____

Title: _____

CG/Attachments

- Copy 1 - Retain by Executor
- Copy 2 - Submit to New Mexico Oil Conservation Commission
- Copy 3 - Submit to Sun Exploration & Production Company



Amoco Production Company (USA)

500 Jefferson Building
P.O. Box 3092
Houston, Texas 77001

March 11, 1982

File: JCA-986.511-059

NSL-1497

Re: Waiver Request for Administrative
Application of an Unorthodox Gas
Well Location,
Eddy County, New Mexico

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

Gentlemen,

Please be advised that Amoco Production Company has reviewed Sun Exploration & Production Co.'s proposed Pecos Irrigation Co. Well No. 1 to be drilled at an unorthodox location 1980 feet from the North line and 2130 feet from the East line of Section 10, T-23-S, R-28-E, Eddy County, New Mexico, and hereby waive all rights of protest as to this proposed location.

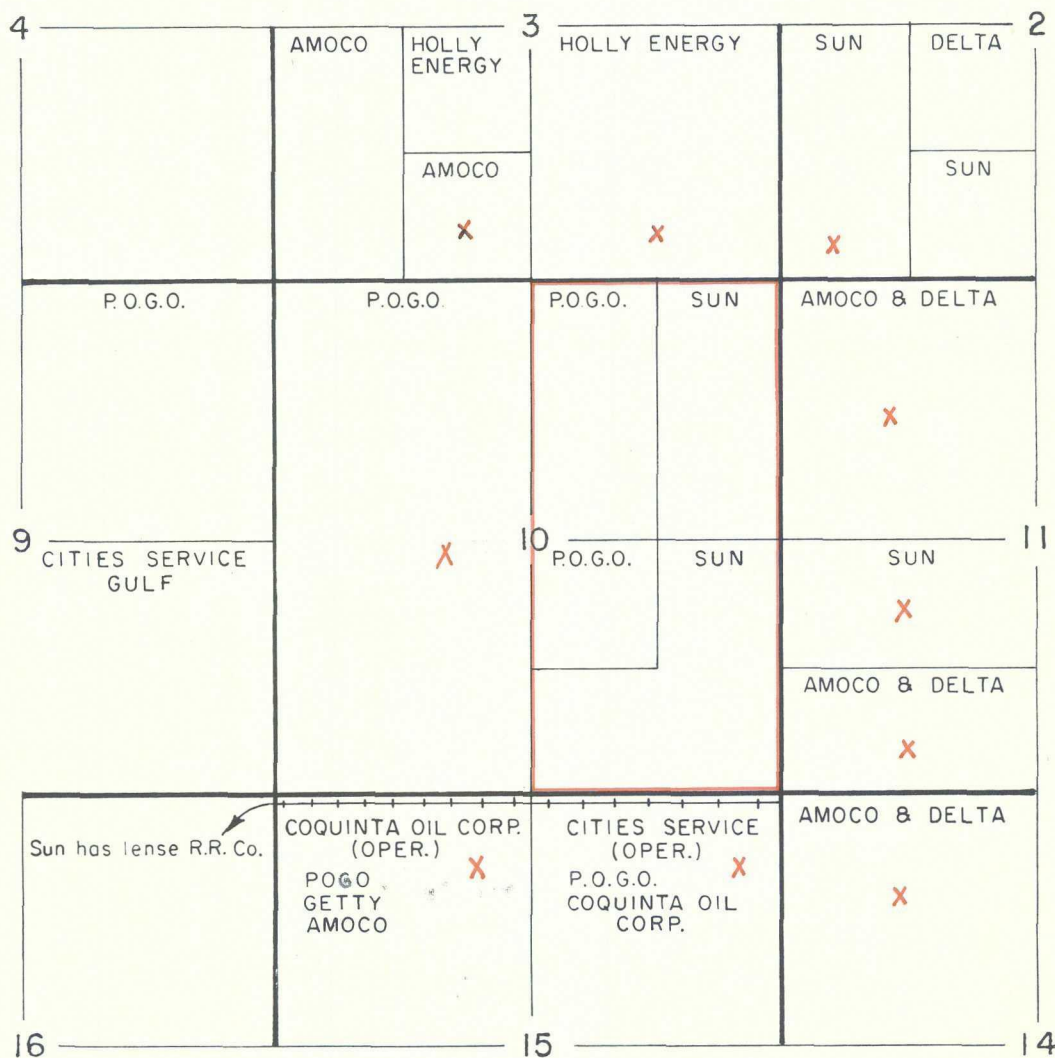
Yours very truly,

R. G. Smith
Regional Engineer Manager - West

MLC/fp

cc: Sun Gas Company
P. O. Box 20
Dallas, TX 75221

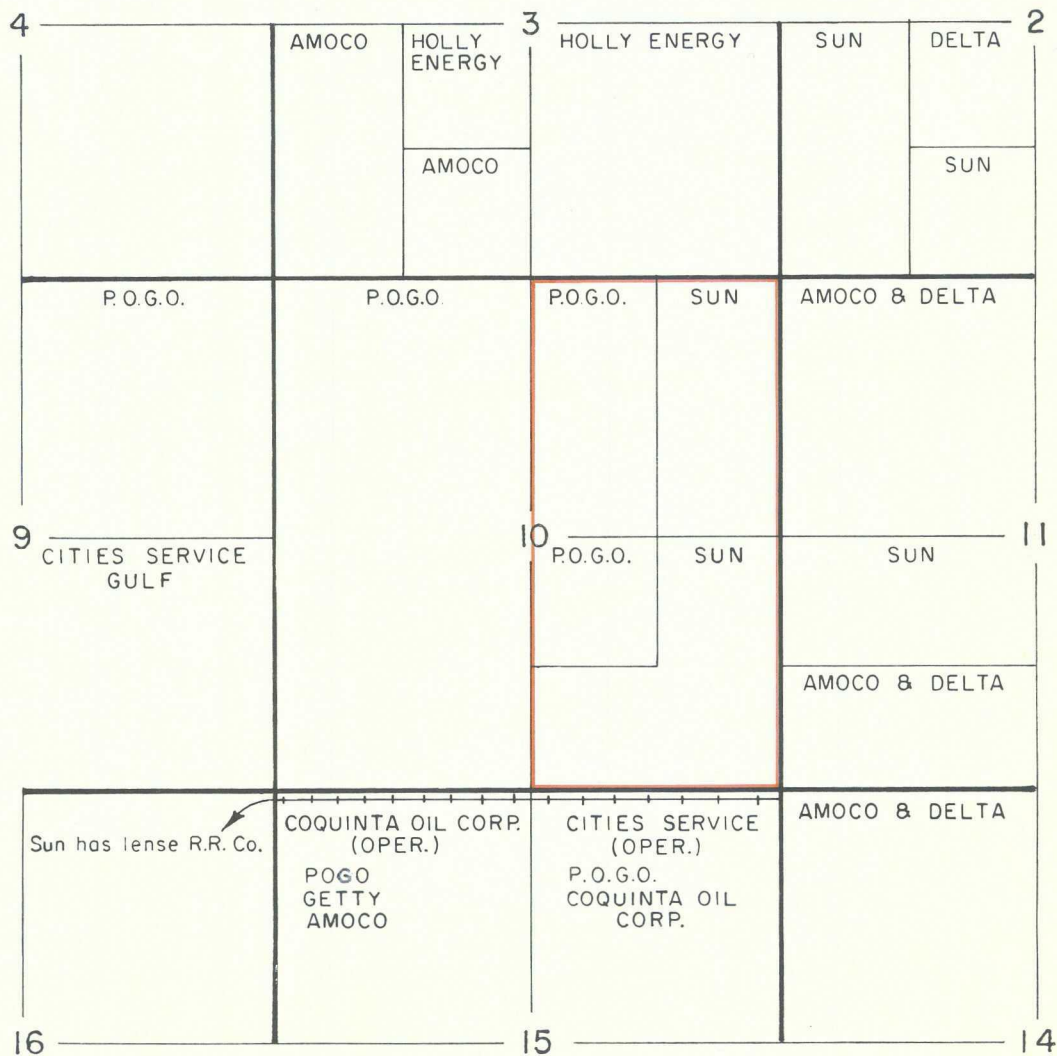
R. 28 E.



T.
23
S.

SUN PRODUCTION & EXPLORATION CO.
PECOS IRRIGATION CO. NO. 1
 UNIT, LETTER G, SECTION 10, T23S, R28E.
 N.E. LOVING FIELD
 EDDY CO., NEW MEXICO
 SCALE: 1" = 2000' MARCH, 1982

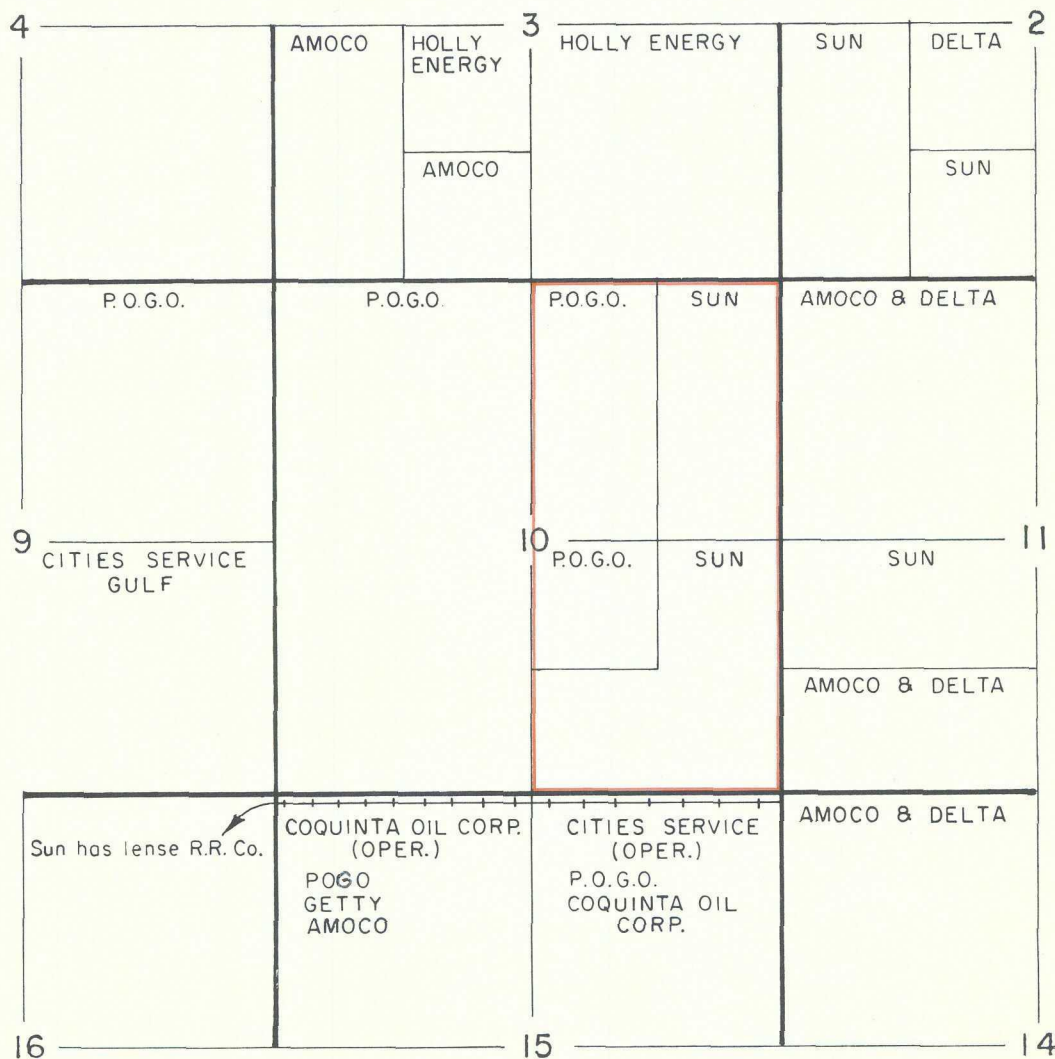
R. 28 E.



T.
23
S.

SUN PRODUCTION & EXPLORATION CO.
PECOS IRRIGATION CO. NO. 1
 UNIT, LETTER G, SECTION 10, T23S, R28E.
 N.E. LOVING FIELD
 EDDY CO., NEW MEXICO
 SCALE: 1" = 2000' MARCH, 1982

R. 28 E.



T.
23
S.

SUN PRODUCTION & EXPLORATION CO.
PECOS IRRIGATION CO. NO. 1
 UNIT, LETTER G, SECTION 10, T23S, R28E.
 N.E. LOVING FIELD
 EDDY CO., NEW MEXICO
 SCALE: 1" = 2000' MARCH, 1982



Pogo Producing Company

300 Midland Tower Building • Post Office Box 10340 • Midland, Texas 79701 • 915/682-6822

Recd 3/8/82

March 5, 1982

Oil Conservation Division
State of New Mexico Energy and Minerals Department
State Land Office Building, Room 206
Old Santa Fe Trail
Santa Fe, New Mexico 87501

Attention: Mr. Daniel S. Nutter

Gentlemen:

Pogo Producing Company has been advised of Sun Exploration and Production Company's location being 1980' FNL and 2130' FEL of Section 10, T-23-S, R-28-E, Eddy County, New Mexico and has no objection to this proposed Morrow or Atoka test at the stated unorthodox location.

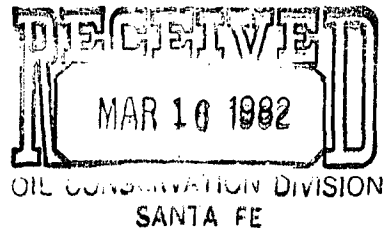
Yours very truly,

POGO PRODUCING COMPANY

A. T. Carleton
Vice President

ATC:dt

1497 nsl
March 5, 1982



Cities Service Company
P. O. Box 1919
Midland, Texas 79702

Attn: Mr. E. F. Motter

Re: Waiver Request for Administrative
Application of an Unorthodox Gas
Well Location, Eddy County, NM

Gentlemen:

Sun Exploration and Production Company respectfully requests your waiver of objection for administrative approval of an unorthodox well location based on topographical conditions for our Pecos Irrigation Co. Well No. 1 proposed to be drilled at a location 1980 feet from the North line and 2130 feet from the East line of Section 10, Township 23 South, Range 28 East, Eddy County, New Mexico.

Sun's well would test the Atoka and Morrow formations in the East half of Section 10, but our request for an unorthodox location would in no manner infringe upon your acreage position, as our proposed location is at least 1980 feet removed from lease boundaries to the North, East and South of Section 10.

If you as the authorized representative of your company have no objections to Sun's proposed unorthodox location, please execute the waiver noted below and mail in the envelopes provided to the appropriate parties.

Your assistance and cooperation in this matter is most appreciated. Should you have any questions, please contact me in Dallas, Texas at 214/739-7499.

Respectfully submitted,

Charles A. Gray
Area Manager of Conservation
SUN EXPLORATION & PRODUCTION COMPANY

W A I V E R

Gentlemen,

CITIES SERVICE COMPANY

Please be advised that Cities Service Co. has reviewed Sun Exploration & Production Co.'s proposed Pecos Irrigation Co. Well No. 1 to be drilled at an unorthodox location 1980 feet from the North line and 2130 feet from the East line of Section 10, T-23-S, R-28-E, Eddy County, New Mexico, and hereby waive all rights of protest as to this proposed location.

Signed:

Date:

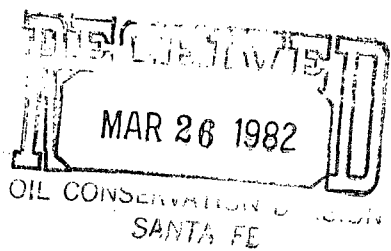
MAR 12 1982

Title:

Engineering Manager

CG/Attachments

- Copy 1 - Retain by Executor
- Copy 2 - Submit to New Mexico Oil Conservation Commission
- Copy 3 - Submit to Sun Exploration & Production Company



March 5, 1982

File
NSC-1497

Union Oil Company of California
P. O. Box 671
Midland, Texas 79702
c/o Robert Lockhart/Attn: Mr. Lloyd Thompson

Re: Waiver Request for Administrative
Application of an Unorthodox Gas
Well Location, Eddy County, NM

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Your assistance and cooperation in this matter is most appreciated. Should you have any questions, please contact me in Dallas, Texas at 214/739-7499.

Respectfully submitted,

Charles A. Gray
Area Manager of Conservation
SUN EXPLORATION & PRODUCTION COMPANY

W A I V E R

Gentlemen,

Please be advised that Union Oil Co. of California has reviewed Sun Exploration & Production Co.'s proposed Pecos Irrigation Co. Well No. 1 to be drilled at an unorthodox location 1980 feet from the North line and 2130 feet from the East line of Section 10, T-23-S, R-28-E, Eddy County, New Mexico, and hereby waive all rights of protest as to this proposed location.

Signed: At. Thompson

Date: 3/22/82

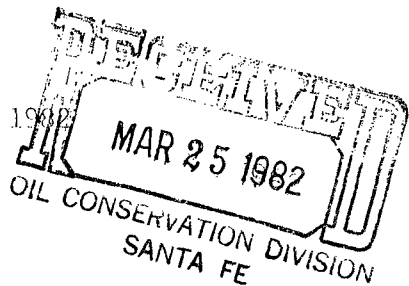
Title: Dist. Ops Mgr

CG/Attachments

Copy 1 - Retain by Executor
Copy 2 - Submit to New Mexico Oil Conservation Commission
Copy 3 - Submit to Sun Exploration & Production Company

1491

March 5, 1982



Delta Drilling Company
3100-C, North -A- Street
Midland, Texas 79701
Attn: Mr. Ray Bullock/Rod Woodard

Re: Waiver Request for Administrative
Application of an Unorthodox Gas
Well Location, Eddy County, NM

Gentlemen:

Sun Exploration and Production Company respectfully requests your waiver of objection for administrative approval of an unorthodox well location based on topographical conditions for our Pecos Irrigation Co. Well No. 1 proposed to be drilled at a location 1980 feet from the North line and 2130 feet from the East line of Section 10, Township 23 South, Range 28 East, Eddy County, New Mexico.

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Your assistance and cooperation in this matter is most appreciated. Should you have any questions, please contact me in Dallas, Texas at 214/739-7499.

Respectfully submitted,

Charles A. Gray
Area Manager of Conservation
SUN EXPLORATION & PRODUCTION COMPANY

W A I V E R

Gentlemen,

Please be advised that Delta Drilling Co. has reviewed Sun Exploration & Production Co.'s proposed Pecos Irrigation Co. Well No. 1 to be drilled at an unorthodox location 1980 feet from the North line and 2130 feet from the East line of Section 10, T-23-S, R-28-E, Eddy County, New Mexico, and hereby waive all rights of protest as to this proposed location.

Signed: Dr. H. Osterle Date: 3-16-82

Title: Sub. Prop. Engineer

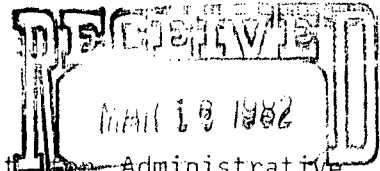
CG/Attachments

- Copy 1 - Retain by Executor
- Copy 2 - Submit to New Mexico Oil Conservation Commission
- Copy 3 - Submit to Sun Exploration & Production Company

March 5, 1982

Coquina Oil Corporation
P. O. Drawer 2960
Midland, Texas 79702

Attn: Mr. Les Oppermann



Re: Waiver Request for Administrative
Application of ~~Oil~~ Unorthodox Gas
Well Location, Eddy County, NM

Gentlemen:

Sun Exploration and Production Company respectfully requests your waiver of objection for administrative approval of an unorthodox well location based on topographical conditions for our Pecos Irrigation Co. Well No. 1 proposed to be drilled at a location 1980 feet from the North line and 2130 feet from the East line of Section 10, Township 23 South, Range 28 East, Eddy County, New Mexico.

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If you as the authorized representative of your company have no objections to Sun's proposed unorthodox location, please execute the waiver noted below and mail in the envelopes provided to the appropriate parties.

Your assistance and cooperation in this matter is most appreciated. Should you have any questions, please contact me in Dallas, Texas at 214/739-7499.

Respectfully submitted,

Charles A. Gray
Area Manager of Conservation
SUN EXPLORATION & PRODUCTION COMPANY

W A I V E R

Gentlemen,

Please be advised that Coquina Oil Corp. has reviewed Sun Exploration & Production Co.'s proposed Pecos Irrigation Co. Well No. 1 to be drilled at an unorthodox location 1980 feet from the North line and 2130 feet from the East line of Section 10, T-23-S, R-28-E, Eddy County, New Mexico, and hereby waive all rights of protest as to this proposed location.

Signed:

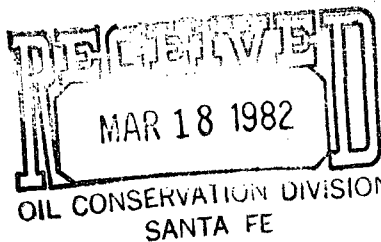
Date: 3-9-82

Title:

Exploration Manager

CG/Attachments

- Copy 1 - Retain by Executor
- Copy 2 - Submit to New Mexico Oil Conservation Commission
- Copy 3 - Submit to Sun Exploration & Production Company



March 5, 1982

nsk

3 8 82

Holly Energy, Inc.
2600 Diamond Shamrock Tower
Dallas, Texas 75201
Attn: Mr. Wm. H. Boyles

Re: Waiver Request for Administrative
Application of an Unorthodox Gas
Well Location, Eddy County, NM

Gentlemen:

Sun Exploration and Production Company respectfully requests your waiver of objection for administrative approval of an unorthodox well location based on topographical conditions for our Pecos Irrigation Co. Well No. 1 proposed to be drilled at a location 1980 feet from the North line and 2130 feet from the East line of Section 10, Township 23 South, Range 28 East, Eddy County, New Mexico.

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Respectfully submitted,

Charles A. Gray
Area Manager of Conservation
SUN EXPLORATION & PRODUCTION COMPANY

W A I V E R

Gentlemen,

Please be advised that Holly Energy, Inc. has reviewed Sun Exploration & Production Co.'s proposed Pecos Irrigation Co. Well No. 1 to be drilled at an unorthodox location 1980 feet from the North line and 2130 feet from the East line of Section 10, T-23-S, R-28-E, Eddy County, New Mexico, and hereby waive all rights of protest as to this proposed location.

Signed: William H. Boyles

Date: 3-12-82

Title: William H. Boyles

VICE PRESIDENT

CG/Attachments

- Copy 1 - Retain by Executor
- Copy 2 - Submit to New Mexico Oil Conservation Commission
- Copy 3 - Submit to Sun Exploration & Production Company

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

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED
MAR - 1 1982
O. C. D.
ARTESIA, OFFICE

Form C-101
Revised 1-1-65

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

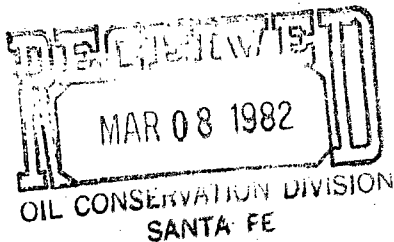
1a. Type of Work b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				7. Unit Agreement Name	
2. Name of Operator Sun Exploration and Production Company				8. Firm or Lease Name Pecos Irrigation Company	
3. Address of Operator 2525 N.W. Expressway, Oklahoma City, Oklahoma 73112				9. Well No. 1	
4. Location of Well UNIT LETTER <u>G</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>2130'</u> FEET FROM THE <u>East</u> LINE OF SEC <u>10</u> TWP. <u>23S</u> RGE. <u>28E</u> N.M.P.M.				10. Field and Pool, or Wellbore N. E. Loving	
				17. County Eddy	
18. Proposed Depth 13100		19A. Formation Atoka, Morrow		20. Rotary or C.T. Rotary	
21. Elevations (Show whether DF, RT, etc.) 3025' GR		21A. Kind & Status Plug. Bond Blanket		22. Approx. Date Work will start 3-5-82	

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
20"	16"	75#	425'	510	Surface
14-3/4"	10-3/4"	40.5#	2650'	1700	Surface
9-1/2"	7-5/8"	26.4#	10000'	1675'	2550'
6-1/2"	5"	15#	13000'	275	9200'

Drill & complete in the Atoka Formation as per the attached Drilling Program. We will penetrate the Morrow Formation as a secondary objective.



Note: Blowout Preventer Diagrams attached.

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.

Signed Sue Clark Title Production Staff Associate Date February 22, 1982

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

Form C-102
Supersedes C-128
Effective 1-1-65

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

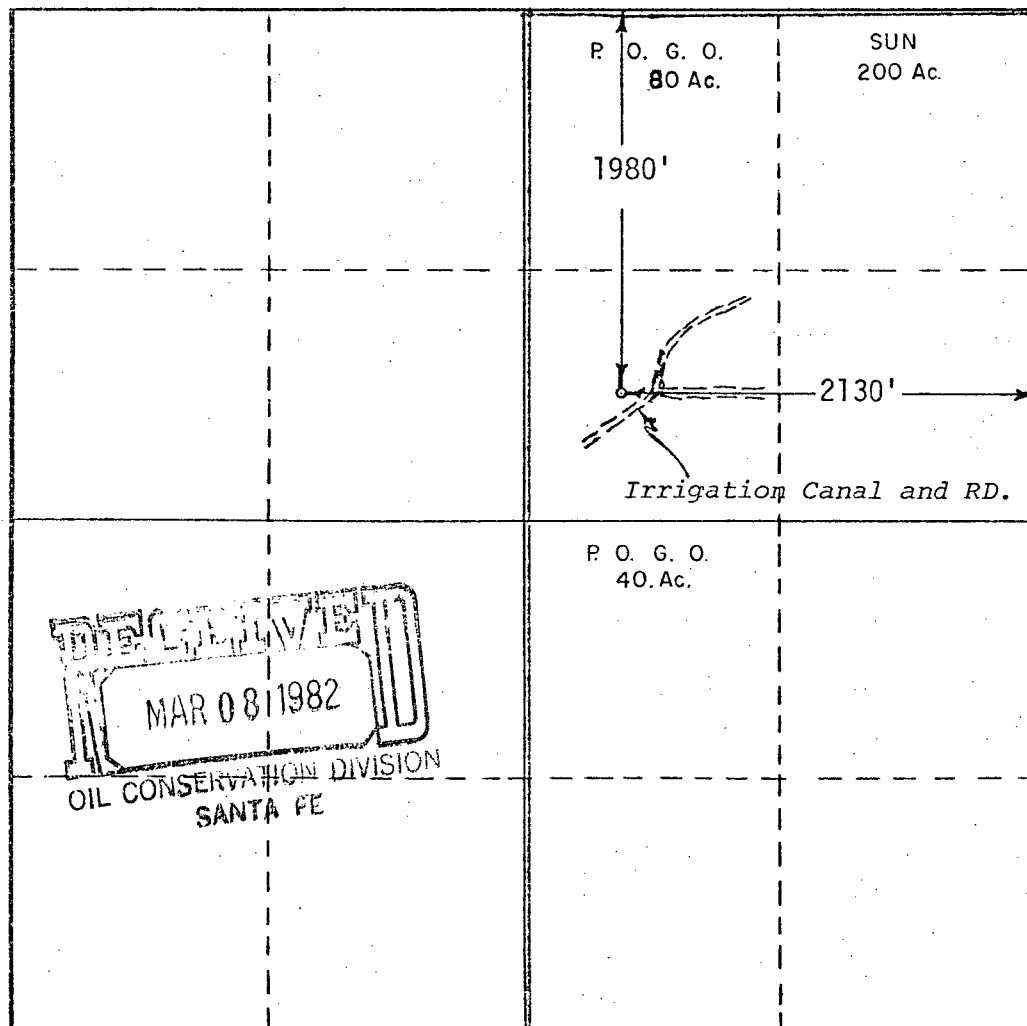
Operator SUN EXPLORATION & PRODUCTION CO.			Lease PECOS IRRIGATION CO.		Well No. 1
Unit Letter G	Section 10	Township 23-S	Range 28-E	County EDDY	
Actual Footage Location of Well: 1980 feet from the NORTH line and 2130 feet from the EAST line					
Ground Level Elev. 3019'	Producing Formation Atoka, Morrow		Pool NE Loving		Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation UNITIZATION AGREEMENT

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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



CERTIFICATION

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

Sue Clark
Name

Production Staff Associate
Position

Sun Exploration & Production
Company

February 22, 1982
Date

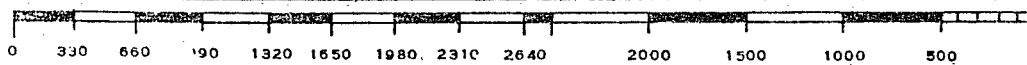
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

FEBRUARY 18 1982
Date Surveyed

GARY D. ROSWELL
Registered Professional Engineer
and/or Land Surveyor

Gary D. Roswell
Certificate No.

6689



DRILLING PROGRAM

LEASE & WELL

Pecos Irrigation Company #1

DISTRICT Oklahoma City FIELD NE Loving CO. ~~XXX~~ Eddy STATE NM
DEPTH TD 13,000 MD 13,000 COMPLETION SINGLE X DUAL OTHER GAS X OIL CLASS D X PW EW OTHER

LOCATION SURFACE 1980' FNL & 2130' FEL, Section 10-T23S-R28E
BOTTOM HOLE
GR. ELEV. 3025

DRILLING TIME & COST DAYS FROM SPUD TO DRILL PLUG OF:

	SURFACE CASING	10-3/4" TER	7-5/8" TER	TD	OIL STRING	RR
DAYS	2	13	45	80	81	85
BITS	1	2	8	14	14	15
TAN	32,000	92,000	350,000	350,000	422,000	500,000
INTAN	130,000	290,000	950,000	1,570,000	1,620,000	1,610,000

VENDORS MUD CO. Baroid TESTING - CORING -
CMTG. CO. HOWCO MUD LOGGER TBD DH COMP. EQPT. TBD
SCRAT. & CENT. HOWCO RENTAL CO. TBD WELLHEAD Natl. or OCT
LINER EQPT. MWL FLOATING EQPT. HOWCO PERF. TBD
BITS Supply Store LOGGING Schlumberger STIMULATION TBD

SUBSURFACE DATA

ZONE	DEPTH	ANTIC. BHP	EQV. MW	REMARKS
Bone Springs	6,500			See attached geologic procedure for logging program.
Strawn	11,250			
Atoka	11,600	7700	12.7	Strawn possibly overpressured. Atoka likely overpressured.
Morrow	12,275	5950	9.3*	

*Morrow normally pressured but has been holding the heavier mud used to control the Atoka.

MUD PROGRAM

FROM	TO	TYPE MUD	WEIGHT	FUNNEL VIS	MAX WL	PV	YP
30	400	Native mud, gel & lime sweeps, LCM	8.5-9.5		NC		
400	2650	Brine, salt gel sweeps	9.0-10.0		NC		
2650	10000	Cut brine, salt gel	8.5-9.2		20-30		
10000	13000	Brine, polymer, 3-4% KCl	11-13.0		5-8		
		Possible key seating problems in anhydrite 425-2650'.					

REMARKS Use desander & desilter from 2650-10,000 to control solids. After drilling Atoka, keep mud weight as low as possible to drill Morrow. By 9000', PVT & hydraulic choke in operation along with flow sensor, mud gas separator & bulk barite hoppers.

Mud logger in service - 0-6,000'

MAR 08 1982

OIL CONSERVATION DIVISION

HOLE SIZE

SIZE	20	14-3/4	9-1/2	6-1/2	
FROM/TO	30 400	400 2650	2650 10,000	10,000 TD	
REMARKS	Set 30' conductor prior to MIRU. Cmt with redimix.				

PREPARED BY

DATE

APPROVED BY

DATE

DRILLING PROGRAM

LEASE & WELL

Pecos Irrigation Company #1

WELLHEAD EQUIP. 10-3/4"x7-5/8" csqhd (5000 psi WP), 7-5/8"x2-7/8" tbqhd (10,000 psi WP)
with dual master valves, crown valve, wing valve & adj chk

FRESH WATER
PROJECTION

DEPTH

2650

☐FIELD
RULES☐WATER
BOARD☐

OTHER

REMARKS 2650' intermediate csg to be cemented to surf to cover any fresh water sands.

EQUIPMENT PROGRAM

CSG SEAT	POS	FOOTAGE	SIZE	WEIGHT	GR	JOINT	DRIFT ID	MAX OD	REMARKS
425		425	16	75	K	STC	14.938	17.0	
2650*		2650	10-3/4	40.5	K	STC	9.894	11.750	*Set 50' into Delaware.
10000		10000	7-5/8	26.4	S95	LTC	6.844	8.500	**Set in top of Wolfcamp. Inspect with Scanalog 500 or equiv.
13000		3500	5	15	S95	LTC	4.283	5.553	Inspect with Scanalog 500 or equiv. Sandblasted.
	T	9500	2-7/8	6.5	N80	ABMod	2.347	3.668	Inspect on location with
	B	2000	2-3/8	4.7	N80	ABMod	1.901	3.053	Scanalog 500 or equiv.
									Ship A-B mod cplgs boxed separately.

REMARKS 16" & 10-3/4": Threadlock & tackweld btm 3 jts & float equipment. Centralize btm 425' & 1000' respectively. Test 10-3/4" to 1000 psi prior to drilling out.

7-5/8": Deliver 3 jts with handtite couplings & threadlock with float equipment.
Centralize btm 1000' + any potential zones.

5": Use MWL type EJ hanger with float collar & latch collar.

CEMENTING PROGRAM

CSG SIZE	TYPE		SX OR CU FT	SLURRY DESCRIPTION	YIELD	WEIGHT	EST TOP	CAL EX- CESS	WOC HOURS		
	COLLAR	SHOE							NU	DRL	PERF
16	FC	GS	510	Class C + 2% CaCl	1.32	14.8	Surf	100		12	
10-3/4	FC	GS	1500	Howcolite+8#/sk salt+1/4#/skFlocele	1.86	12.7	Surf	125	8	12	
				Tail in w/200 Class C + 2% CaCl	1.32	14.8					
7-5/8	FC	FS	525	Trinity litewt + .75% CFR-2 + 1/4#/sk Flocele	1.72	12.0	5700	35	8	12	
				Tail in w/300 Class H + .75% CFR-2	1.18	15.6					
				Precede with 30 bbl mud flush.							
5	FC, IC	FS	275	Class H + .6% Halad 22-A + .4% CFR-2 + .1% HR-7 + 5#/sk KCl + 1/2#/sk gas check. Precede with 20 bbl SAM V flush.	1.2	15.8	9200	25		24	48

NOTE: USE TOP & BOTTOM RUBBER CEMENTING PLUGS. TRANSFER WEIGHT FROM HOOK TO SLIPS WITHOUT PULL-UP OR SLACK
OFF WHEN NIPPLING UP. REMARKS Adjust volumes by caliper + 25%.

10-3/4": Reciprocate prior to & during cmtg. Test to 1000 psi prior to drlg shoe.

7-5/8": Reciprocate prior to & during cmtg. Test to 3000 psi prior to drlg out.

5": Batch mix cmt. Use double plug method. Pull 15-20 stds before reversing out.

Pilot test & all cmt with location mixing wtr.

MAY 08 1982

OIL CONSERVATION DIVISION
SANTA FE

3-4-82

PECOS IRRIGATION CO.

JWM

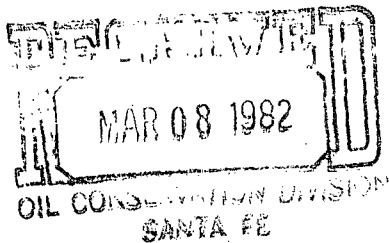
WILL CHANGE 7 5/8" CMTG PROGRAM
AS REQUESTED N.M. ENERGY & MINERALS DEPT.
TO BRING CMT BACK TO 10 3/4" CS @
2650' TO PROTECT POTENTIAL OIL ZONES
~ 3700'

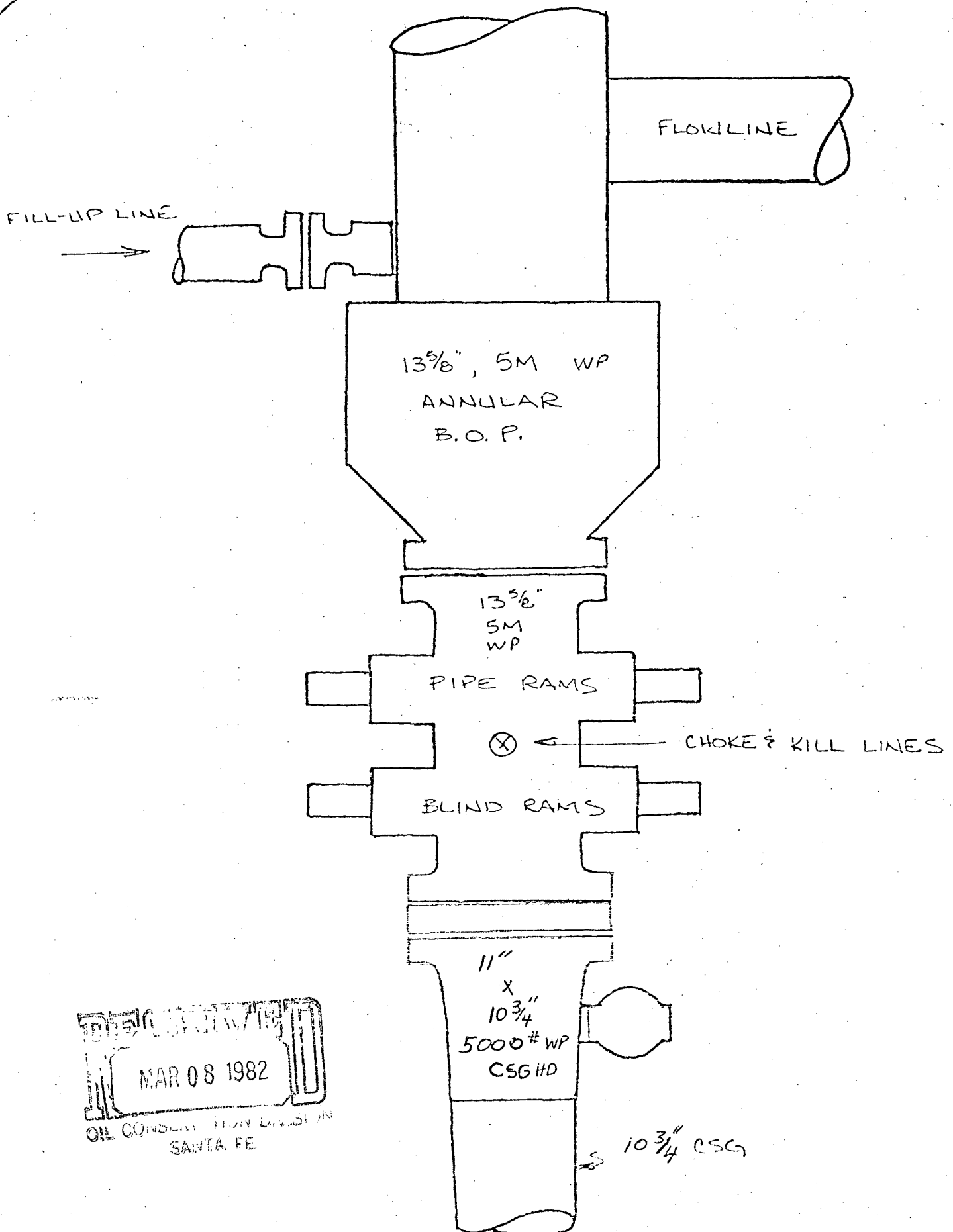
~~EE~~ RUN STAGE COLLAR @ 5700

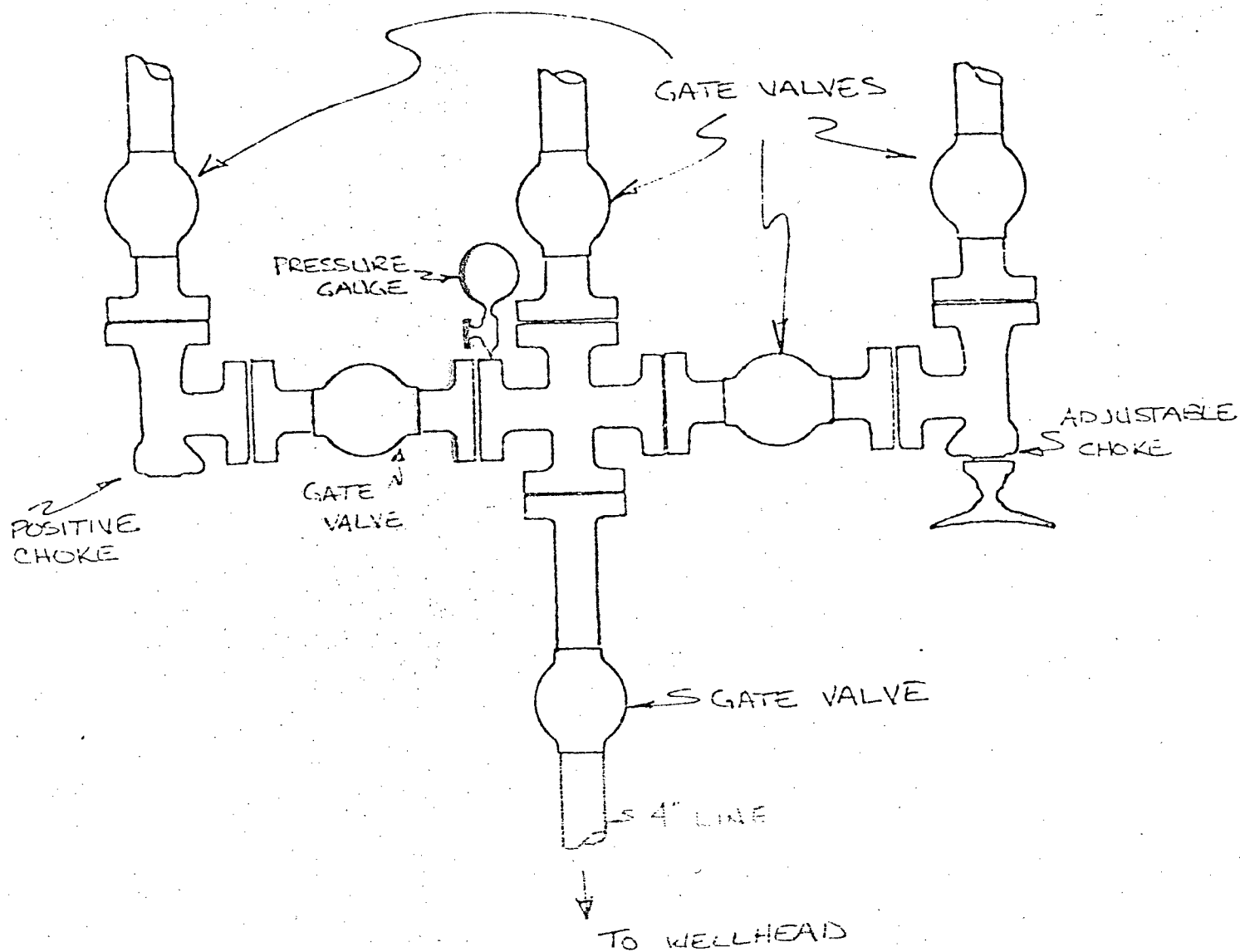
2nd STAGE TOC 2550'

						YLD	LT
750	SK	50:50:2	GEL	POZ MIX	A	126	14.1
TAIL	IN	W 100 SK	CLASS	1#	NEAT	1.18	15.6

50% EXCESS







5000 PSI WP

R 28 E

4		UNION OIL OF CALIFORNIA AMOCO PRODUCTION CO. HOLLY ENERGY, INC.		2
CITIES SERVICE GULF	P.O.G.O.	P.O.G.O.	P.O.G.O. SUN <i>waiver</i> 8-1980 2130 →	AMOCO PRODUCTION CO. DELTA DRILLING CO.
	9		10 P.O.G.O. SUN 11	
16		COQUINTA OIL CORP.	CITIES SERVICE P.O.G.O. COQUINTA OIL CORP.	14
		15		

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23
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 MAR 08 1982
 OIL CONSERVATION DIVISION
 SANTA FE

SUN PRODUCTION & EXPLORATION CO.

PECOS IRRIGATION CO.

WELL NO. 1

UNIT LETTER G, SECTION 10, T 23 N, R 28 E.