OIL CONSERVE ON DIVISION

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#### PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762 4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP

April 14, 1993



Re: Malaga "C" Well No. 3

**EDDY COUNTY, NEW MEXICO** 

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

Attention: Mr. Micheal Stogner

Gentlemen:

Phillips Petroleum Company respectfully requests administrative approval of an unorthodox location for the Malaga "C" Well No. 3 in the Culebra Bluff, South-Atoka, Field based upon geological conditions. The proposed location for this well is 990' FSL and 1980' FWL of Section 36, T-23-S, R-28-E, Eddy County, New Mexico.

Statewide Rule 104(F)(2) allows an administrative exception be granted for geologic conditions, providing that such unorthodox location shall be no closer than 990' to the nearest end boundary of the proration unit.

Please find attached necessary support for this geological location. Please direct any questions to me at (915) 368-1488.

very nuly yours

L. M. Sanders, Supervisor

Regulatory Affairs

LMS:JM:ehg Attachments

RegPro:JMapl:MalagaC3.UL

# Submit to Appropriate District Office State Lease — 6 copies

CONDITIONS OF AFFROVAL, IF ANY:

#### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101

Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NN	A 88240	P.O. Box 208	88	API NO. ( assigned by O	CD on New Wells)
DISTRICT II P.O. Drawer DD, Artesia, I		Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lea	STATE X FEE
DISTRICT III 1000 Rio Brazos Rd., Azte	c, NM 87410			6. State Oil & Gas Lead L-5364	
APPLICAT	ION FOR PERMIT	TO DRILL, DEEPEN, C	OR PLUG BACK		
1a. Type of Work:	<del></del>	<u> </u>		7. Lease Name or Unit	Agreement Name
DRILL b. Type of Well: oil GAS WELL WELL X		DEEPEN SINGLE	PLUG BACK MULTIPLE ZONE	Malaga C	
2. Name of Operator				8. Well No.	
•	roleum Company			3	
3. Address of Operator				9. Pool name or Wildca	t
•	k St., Odessa	Texas 79762		Culebra Blu	Ef, South-Atok
Unit Letter N	7 : 990 Feet F			NMPM Fddy	West Coun
		10. Proposed Depth	<b>I</b>	Formation .	12. Rotary or C.T.
		12200'		Atoka	Rotary
13. Elevations (Show whather	ł .	4. Kind & Status Plug. Bond	15. Drilling Contractor	••	L. Date Work will start
2972.4' GR (	+	Bond	NA		approval:
	<del></del>	OPOSED CASING AN			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMEN	
17-1/2"	13-3/8" 9-5/8"	48# 36#	625 <b>'</b> 2700 <b>'</b>	600 sx C 400 sx C tail	Surf. w/150sx C Su
12-1/4" 8-1/2"	7"	23 & 26#	10500'	350 sx H	8000'
	4 7 /04				***************************************
ner) 6-1/8,"	4-1/2"	13.5#	12200'	300 sx H	9700 <sup>1</sup>
			•		
·					
IN ABOVE SPACE DESC ZONE, GIVE BLOWOUT PREVI		RAM: IF PROPOSAL IS TO DEEPE	N OR PLUG BACK, GIVE DATA O	N PRESENT PRODUCTIVE ZONE	AND PROPOSED NEW PRODUC
I hereby certify that the inform	nation above is true and complet	e to the best of my knowledge and	belief.		
SIGNATURE	1// aples	m	Supv., Reg.	Affairs b	4/20/93
TYPE OR PRINT NAME L	M. Sanders			Т	915/368-148
(This space for State Use)					
APPROVED BY	,	m	2	D	ATE

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All Distances must be from the outer boundaries of the section

Operator PHILLIPS PETROLEUM COMPANY					Lease		MALAGA C			Well No.
Unit Letter	Section		Township	<del></del>	Range				County	
N	36	5	23 SO	UTH		28 E	AST	NMPM		EDDY
Actual Footage Loc	ation of W	ell:	•		•					
	t from the	SOL	1207 -21		1980		· fe	et from	the WES	
Ground Level Elev	1	icing For			Pool					Dedicated Acreage:
2972.4'			Bluff,Sout							320 Acres
1. Outline the ac	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).										
unitization, f	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							
If answer is "no this form necess		wners an	d tract descript	ions which h	ave actually	been con	solidated. (U	Jse reve	rse side of	1.00 2.00 2.00
		gned to	the well unit	all interests	s have beer	consolid	lated (by c	ommun	itization, u	nitization, forced-pooling.
otherwise) or u	ntil a non	-standar	d unit, elimina	ting such in	terest, has	bее <u>п</u> аррі	roved by the	Divisio	on.	<u>د</u>
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MALAG	а <u> </u>				•				PN11111 Date	s Petroleum Co.
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#### PROPOSED CASING & CEMENTING PROGRAM

#### Malaga C Well No. 3

#### 13 3/8" 48 1b/ft H-40 Surface Casing Set at 625' - 17 1/2" Hole:

Circulate to surface with 600 sacks of Class "C" + 2% CaCl<sub>2</sub>.

Slurry Weight:

Slurry Yield:

14.8 ppg 1.32 ft<sup>3</sup>/sx

Water Requirement:

6.3 gals/sx

#### 9 5/8" 36 ]b/ft J-55 Intermediate Casing Set at 2700' - 12 1/4" Hole:

Lead: 400 sx Class "C" + 20% Diacel "D" + 3% Salt. TOC = Surface.

Slurry Weight:

12.0 ppg

Slurry Yield:

2.79 ft<sup>3</sup>/sx

Water Requirement:

16.1 gals/sx

Tail: 150 sx Class "C" Neat.

Slurry Weight:

14.8 ppg

Slurry Yield:

1.32 ft<sup>3</sup>/sx

Water Requirement:

6.2 gals/sx

### 7" 23 & 26 lb/ft J-55 & L-80 Production Casing Set at 10500' - 8 1/2" Hole:

350 sx Class "H" + Retarder/Fluid Loss Additives as required. TOC = 8000'.

Slurry Weight:

15.6 ppg

Slurry Yield:

1.18 ft<sup>3</sup>/sx

Water Requirement:

5.6 gals/sx

# 4 1/2" 13.5 1b/ft L-80 Production Liner Set at 12200' - 6 1/8" Hole:

300 sx Class "H" + Retarder/Fluid Loss Additives as required. TOC = 9700' (Top of liner).

Slurry Weight:

15.6 ppg

Slurry Yield:

 $1.18^{\circ} \text{ ft}^3/\text{sx}$ 

Water Requirement:

5.6 gals/sx

PROPOSED MUD PROGRAM SUMMARY Malaga C Well No. 3

COMMENTS	Spud Mud	Brine Water	Fresh Water	Drispac+ / XCD	
% SOLIDS		!	i i 1	1 1	
FLUID LOSS	No Control	No Control	No Control	15 - 20 cc	
VISCOSITY	34-38 sec/1000 cc	26-28 sec/1000 cc	26-28 sec/1000 cc	34-38 sec/1000 cc	
MUD WEIGHT	8.6-8.8 ppg	10.0-10.1 ppg	8.8-9.2 ppg	10.0-12.5 ppg	
ОЕРТН	Surf - 625'	625 2700.	2700' - 10500'   8.8-9.2 ppg	10500' - 12200'	

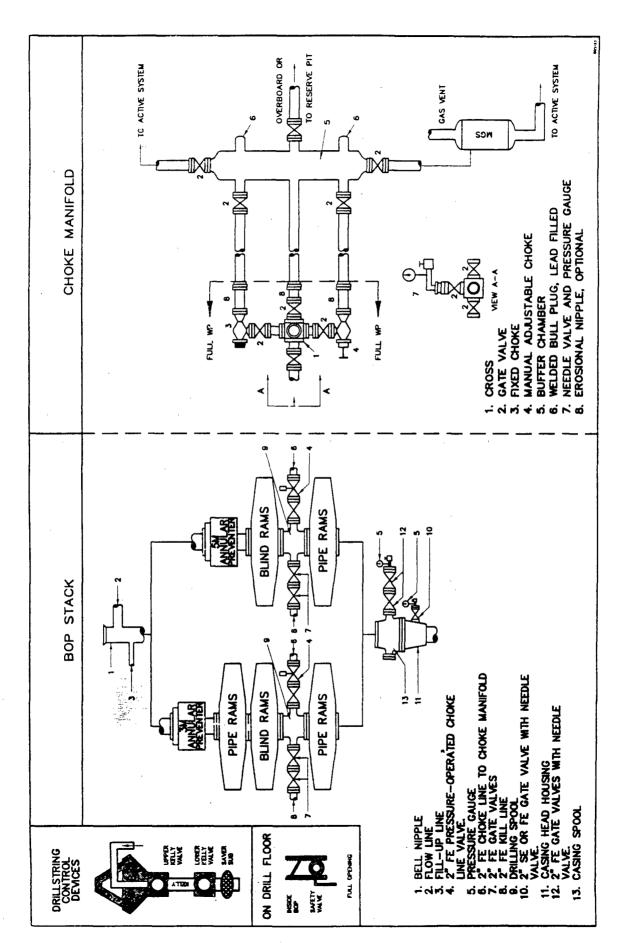


Fig. 2.5. Class 3 BOP and Choke Manifold.

EXPLORATION AND PRODUCTION GROUP Permian Basin Region

MALAGA C WELL NO. 3 OFFSET OPERATOR

Enron Oil & Gas Company P.::O. Box 2267 Midland, Texas 79702

I hereby certify that the above offset operator has been notified on this date of Phillips Petroleum Company's application to drill the Malaga C well no. 3 by copy of the application to the State of New Mexico Oil Conservation Division.

Title: Supv., Reg. Affairs

Name:

Date:

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2			Enron Oil	& Gas			1	6	
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OIL CONSERVE OUN DIVISION

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193 APH 25 AM 9 40



ODESSA, TEXAS 79762 4001 PENBROOK

April 14, 1993

EXPLORATION AND PRODUCTION GROUP

Re: Malaga "C" Well No. 3

**EDDY COUNTY, NEW MEXICO** 

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

Attention: Mr. Micheal Stogner

Gentlemen:

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Statewide Rule 104(F)(2) allows an administrative exception be granted for geologic conditions, providing that such unorthodox location shall be no closer than 990' to the nearest end boundary of the proration unit.

Please find attached necessary support for this geological location. Please direct any questions to me at (915) 368-1488.

Very truly yours

M. Sanders, Supervisor

Regulatory Affairs

LMS:JM:ehg Attachments

RegPro:JMapl:MalagaC3.UL

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

STATE X FEE

API NO. ( assigned by OCD on New Wells)

Santa Fe, New Mexico 87504-2088 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 5. Indicate Type of Lease DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 6. State Oil & Gas Lease No. L-5364 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK la. Type of Work: 7. Lease Name or Unit Agreement Name DRILL X RE-ENTER DEEPEN PLUG BACK b. Type of Well: SINCLE MULTIPLE ZONE METT \_\_ Malaga C WELL X  $\mathbf{x}$ OTHER ZONE 2. Name of Operator 8. Well No. Phillips Petroleum Company 9. Pool name or Wildcat 3. Address of Operator 4001 Penbrook St.. Odessa, Texas 79762 Culebra Bluff, South-Atoka Well Location Unit Letter : 990 Feet From The South 1980 Feet From The West Line **NMPM** County 10. Proposed Depth 11. Formation 12. Rotary or C.T. 12200' Atoka Rotary 13. Elevations (Show whether DF, RT, GR, etc.) 14. Kind & Status Plug. Bond 15. Drilling Contractor 16. Approx. Date Work will start NA 2972 4' GR (Unprepared) Bond Upon approval PROPOSED CASING AND CEMENT PROGRAM SACKS OF CEMENT SIZE OF HOLE WEIGHT PER FOOT **SETTING DEPTH** EST. TOP SIZE OF CASING

625' Surf. 17-1/2" 13-3/8" 48# 600 sx C 9-5/8" 400 sx C tail w/150sx C Surf. 2700' 12-1/4" 36# 8-1/2" 10500! 80001 23 & 26# 350 sx H (Liner) 6-1/8" 4-1/2" 13.5# 122001 300 sx H 9700'

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSED IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY. complete/to the best of my knowledge and belief. mue Supv., Req. Affairs 4/20/93 SIGNATURE 15/368-1488 TYPE OR PRINT NAME M. Sanders (This space for State Use) TITLE APPROVED BY ... CONDITIONS OF AFPROVAL, IF ANY:

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

#### OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All Distances must be from the outer boundaries of the section

Operator PHILLIPS PETROLEUM COMPANY						MAL	AGA C			Well No.
Unit Letter	Section	מכ	Township		Range			Cot	inty	
N		36	23 SC	UTH		28 EAS	NMP)			EDDY
Actual Footage Loc		COL	( <b>T</b> LI		1980				WES	
990 fee Ground Level Elev	t from	the SOL		· · · · · · · · · · · · · · · · · · ·	Pool		feet fro	m the	WES	line Dedicated Acreage:
2972.4'		•	*	h Atoles		Dluff	Courth Ata	.lem		· ·
			Bluff,Sout							320 Acres
<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> </ol>										
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										
		of owners an	d tract descript	ions which h	ave actually	been consoli	dated. (Use re	verse s	side of	
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otherwise) or u	ıntil a	non-standar	d unit, elimina	ting such in	terest, has	been approve	d by the Divi			
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#### PROPOSED CASING & CEMENTING PROGRAM

#### Malaga C Well No. 3

#### 13 3/8" 48 1b/ft H-40 Surface Casing Set at 625' - 17 1/2" Hole:

Circulate to surface with 600 sacks of Class "C" + 2% CaCl<sub>2</sub>.

Slurry Weight:

 $\begin{array}{c} 14.8 \text{ ppg} \\ 1.32 \text{ ft}^3/\text{sx} \end{array}$ 

Slurry Yield: Water Requirement:

6.3 gals/sx

#### 9 5/8" 36 lb/ft J-55 Intermediate Casing Set at 2700' - 12 1/4" Hole:

400 sx Class "C" + 20% Diacel "D" + 3% Salt. TOC = Surface.

Slurry Weight:

12.0 ppg

Slurry Yield:

2.79 ft<sup>3</sup>/sx

Water Requirement:

16.1 gals/sx

Tail: 150 sx Class "C" Neat.

Slurry Weight:

14.8 ppg

 $1.32 \text{ ft}^3/\text{sx}$ 

Slurry Yield: Water Requirement:

6.2 gals/sx

# 7" 23 & 26 lb/ft J-55 & L-80 Production Casing Set at 10500' - 8 1/2" Hole:

350 sx Class "H" + Retarder/Fluid Loss Additives as required. TOC = 8000'.

Slurry Weight:

15.6 ppg

Slurry Yield:

1.18' ft³/sx

Water Requirement:

5.6 gals/sx

# 4 1/2" 13.5 1b/ft L-80 Production Liner Set at 12200' - 6 1/8" Hole:

300 sx Class "H" + Retarder/Fluid Loss Additives as required. TOC = 9700' (Top of liner).

15.6 ppg

Slurry Weight: Slurry Yield:

 $1.18^{\circ} \text{ft}^3/\text{sx}$ 

Water Requirement:

5.6 gals/sx

PROPOSED MUD PROGRAM SUMMARY Malaga C Well No. 3

COMMENTS	Spud Mud	Brine Water	Fresh Water	Drispac+ / XCD	
% SOLIDS	1	: : :	1 1	1 1 1	
FLUID LOSS	No Control	No Control	No Control	15 - 20 cc	
VISCOSITY	34-38 sec/1000 cc	26-28 sec/1000 cc	26-28 sec/1000 cc	34-38 sec/1000 cc	
MUD WEIGHT	8.6-8.8 ppg	10.0-10.1 ppg	8.8-9.2 ppg	10.0-12.5 ppg	
ОЕРТН	Surf - 625'	625: - 2700	2700' - 10500'	10500' - 12200'	·

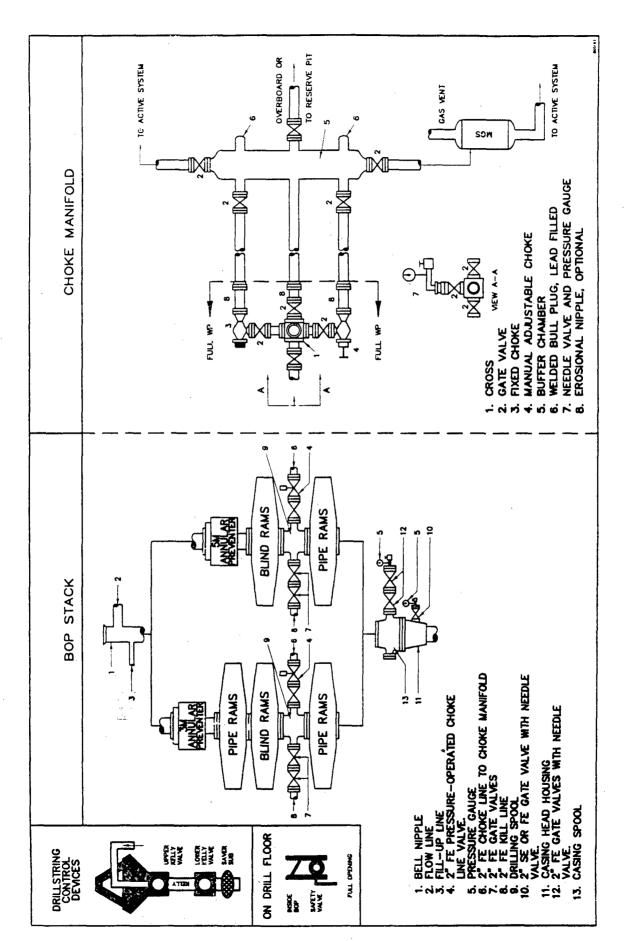


Fig. 2.5. Class 3 BOP and Choke Manifold.



EXPLORATION AND PRODUCTION GROUP Permian Basin Region

MALAGA C WELL NO. 3 OFFSET OPERATOR

Enron Oil & Gas Company P. O. Box 2267 Midland, Texas 79702

I hereby certify that the above offset operator has been notified on this date of Phillips Petroleum Company's application to drill the Malaga C well no. 3 by copy of the application to the State of New Mexico Oil Conservation Division.

Name:

April 20, 1993

Title: Supv., Reg. Affairs

~	MALAGA C LEASE		1	
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	Phillips Petroleum Co.		•	
	Malaga C			
	●#3 			
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	Enron Oil & Gas	1	6	
2 Phillips	Legend: Culebra Bluff, South-Atoka	_	Phill	ips
•	I hereby certify that the information contained here:	in is t	:rue	
	and correct to the best of my knowledge ability.			
	Name:	3		
	M./Sanderts			
	Title: Supervisor, Reg. Affairs			
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NO.	REVISION BY	DATE	CHKD	APP'D
FOR BIDS	DULLING DETROLEUM COMPANY	JA I		FILE CODE
FOR APPR	BARTLESVILLE, OKLAHOMA	AFE	NO.	SCALE
FOR CONST	Malaga C Lease - 640 ac.	<u> </u>		1"-1000
DRAWN	Sec. 36, T-23-S, R-28-E, Eddy County,	NO.		
CHECKED	SH			

County Edu	<b>y</b> //	POOL Sout	h Culebra	v:Bluff_A	toka Gas .
TOWNSHIP 23	South	Range 28	Elest"	NMPM	
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- Le + -/-	# <b>1</b> 7 # #	4.16	15	— 14 <del>1</del>	
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Phillips Petroleum Well

 $W_{2}^{1}$  § 36 - 23 South - 28 East

Eddy County, New Mexico

Dear Florene:

above well received administrative The approval simultaneous dedication and/or an unorthodox gas well location (I do not have the order number). Could you please provide me with a copy of the application (with exhibits or attachments) and the order? Thanks.

Very truly yours,

HINKLE, COX, EATON, COFFIELD

WENSLEY

publish by 26/53 Jamés Bruce

VIA HAND DELIVERY

JGB5\93F48.c