STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87501

ADMINISTRATIVE ORDER

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NFL 51

INFILL DRILLING FINDINGS PURSUANT TO SECTION 271.305(b) OF THE FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

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ation:	Unit <u>I</u>	Sec7		Rng	28E	Cty	Eddy	
<u>DIVISI</u>	ON FINDS:							
That suant t a new o fill wel the pro	Section 27 o the Naturnshore pro l is neces ration uni	1.305(b) of tral Gas Pol oduction wel tsary to eff t which can	the Federal icy Act'of 1 l under Sect ectively and not be so dr	Energy R 1978 provid ion 103 of l efficien tained by	egulatory des that, f said Ac tly drain any exist	Commiss in order t, the I a port ing well	sion Regulations er for an infill Division must fi ion of the reser l within that un	promulgated well to gualify nd that the voir covered it.
That cedure vision a	by Order N whereby th nd find th	No. R-6013-A le Division lat an infil	, dated Febr Director and l well is ne	uary 8, 19 the Divis cessary.	980, the sion Exam	Division niners an	n established ar re empowered to	administrative act for the
That	the well f	or which a	finding is s	ought is	ompleted	l in the	<u>Artesia Quee</u>	n Gravburg
n Andr	es Pool,	and the st	andard spaci	ng unit in	n said po	ol is _	40	acres.
That	a <u>40</u>		cre proratio	n unit con	mprising	the	<u>NE/4_SE/4</u>	
sec.	/ , Tw	p. <u>185</u>	, Rng. <u>28</u>	<u>E</u> • :	is curren	tly ded	icated to the W_{i}	<u>est Artesia Gray</u>
	II O WEII	NO. 15	located in U		of	said sec	ction.	
coved b	y Order No	·	*				istanualu, salu	unit was previou
That l(s) on	the unit.	tion unit i	s not being	effective.	ly and ef	ficient:	ly drained by th	e existing
That	the drilli	ng and comp.	letion of th	e well fo:	r which a	finding	g is sought show	ld result in
						12.1		
produc erwise	tion of an be recover	additional ed.	9440	MCF	of gas f	rom the	proration unit	which would not
produc erwise That which ervoir t.	tion of an be recover all the re a finding covered by	a additional red. equirements is sought i said prora	9440 of Order No. s necessary tion unit wh	MCF R-6013-A to effect lich canno	of gas f have bee ively and t be so d	rom the en compli l efficie trained b	proration unit ied with, and th ently drain a po by any existing	which would not at the well ortion of the well within the
produc erwise That which ervoir t. That licatio	tion of an be recover all the re a finding covered by in order t n should b	a additional equirements is sought i v said prora co permit ef be approved.	9440 of Order No. s necessary tion unit wh fective and	MCF R-6013-A to effect hich canno efficient	of gas f have bee ively and t be so d drainage	rom the en compli- l efficie lrained l e of said	proration unit ied with, and th ently drain a po by any existing i proration unit	which would not at the well ortion of the well within the c, the subject
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	OIL CONSERVATION DIVISION	•
	P. O. Box 2088	ADMINISTRATIVE ORDER
STATE OF NEW MEXICO	SANTA FE, NEW MEXICO	51
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U. Arrawer 2/7 INFILI SECTION 271.3	L DRILLING FINDINGS PURSUANT TO 05(b) OF THE FEDERAL FNERCY REC	
tuia NM 88210 COMMISSION REGUL	LATIONS, NATURAL GAS POLICY ACT	OF 1978
AND OIL CONSER	RVATION DIVISION ORDER NO. R-60	13-A
▼ .		
marries Marlah Erren Car		
T	Dration well Name and No. West	Artesia troy burg Wait, Iract 9, 4011
Location: UnitSecTwr	0. <u>185</u> Rng. <u>28 F</u> Cty	·Eddy
II.		
THE DIVISION FINDS:		
(1) That Section 271.305(b) of the pursuant to the Natural Gas Policy A as a new onshore production well und infill well is necessary to effectiv by the proration unit which cannot h	Federal Energy Regulatory Comm Act of 1978 provides that, in o der Section 103 of said Act, th yely and efficiently drain a po be so drained by any existing w	ission Regulations promulgated rder for an infill well to qualify e Division must find that the rtion of the reservoir covered ell within that unit.
(2) That by Order No. R-6013-A, dat procedure whereby the Division Direc Division and find that an infill we?	ed February 8, 1980, the Divis tor and the Division Examiners 11 is necessary.	ion established an administrative are empowered to act for the
(3) That the well for which a findi	ing is sought is completed in t	he Artesia Queen Grayburs
San Andres Pool, and the standar	d spacing unit in said pool is	40 acres.
(4) That a 40 -acre r	proration unit comprising the	NEIN SEIN
of Sec. 7 Twp. 185	and sef is currently d	dicated to the lifet Ada C
I want The of Q will de 12 1000	ond in Unit 5 of said	edicated to the Wist Mitesia Gray
burg Unit, Mart 8, Well No.13 10cat	ed in Unit or said	section.
(5) That this promation unit is (X)	standard () nonstandard; if	nonstandard, said unit was previous
approved by order No.	· · ·	,
(6) That said proration unit is not	being effectively and officia	ntly drained by the evicting
well(s) on the unit.	. Seing effectively and efficie	ict dialned by the existing
<pre>well(s) on the unit. (7) That the drilling and completio</pre>	on of the well for which a find	ing is sought should result in
<pre>well(s) on the unit. (7) That the drilling and completio the production of an additional</pre>	on of the well for which a find 9440 MCF of gas from the second secon	ing is sought should result in
<pre>well(s) on the unit. (7) That the drilling and completio the production of an additional otherwise be recovered.</pre>	on of the well for which a find <u>9440</u> MCF of gas from t	ing is sought should result in ne proration unit which would not
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Marbob Energy Corporation

P. O. DRAWER 217 ARTESIA, NEW MEXICO 88210

April 20, 1982

DECISION Mr. Michael Stogner APR 22 1982 Oil Conservation Div. OIL CONSERVATION UNION 87501

Dear Mike:

P.O. Box 2088

Santa Fe, N.M.

We are enclosing three infill finding requests on The West Artesia Grayburg Unit #22, 24, and 25 We feel these are in order but if there are questions, please let us know. Thank you.

Very truly yours,

Raye Miller Land Department

RPM/co

Encl.

- OFFICE PHONE -(505) 748-3303 (505) 746-2422

- NIGHT PHONES -(505) 746-6197 (505) 746-6500

Request for Infill Finding on

West Artesia Grayburg Unit, Tr. 8, Well #25 in accordance with Administrative Procedures amended February 8, 1980

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OPERATOR V					0. C.	D.	i 🖓 O	G-5780 A FE	
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APPLICATIO	N FOR PE	RMIT TO	DRILL, DEEPEN,	OR PLUG	BACK				()))
a. Type of Work							7. Unit Agre	ement Name	
	1						West Ar	tesia Grbg.	Ut.
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OIL X GAS WELL	отн	ER		SINGLE X	MULT	IPLE	West Ar	tesia Grbg.	Ŭt.
. Name of Operator							9. Well No.		
Marbob Energy C	orporati	on					25		
, Address of Operator							10. Field on	d Pool, or Wildcat	
P.O. Box 304, A	rtesia,	N.M. 8	8210				Artesia	Qn. Grbg. S	A
. Location of Well	I I	LOC	1650		South				m
						[(0)
ND 940 PEET FROM	THE East	LIN	E OF SEC. 7	TWP. 185	RGE. 28	E NMPM			()))
IIIIIIIIIII.							12. County Eddy		M
	<u>MMM</u>	<u>mm</u>		19. Proposed	Depth 19	A. Formation		20. Rotary or C.T.	
				2400'		Graybur	g	Rotary	
T. Elevations (Show whether DF	RT, etc.)	21A. Kind	6 Status Plug, Bond	21B. Drilling	Contractor	_	22. Approx	. Date Work will sta	rt
3619.4' GR		State	wide active	Stewart	Bros. Dr	lg. Co.	4/8	1/81	
3.		P	ROPOSED CASING AN	D CEMENT PI	RÖGRAM				•••••••
SIZE OF HOLE	SIZE OF	CASING	WEIGHT PER FOO	TISETTIN	G DEPTH	SACKS OF	CEMENT	EST. TOP	·
12 1/4"	8 578		24#	50	0'	Circ.			
7 7/8"	4 172	n (10.50#	240	0'	Attempt	to cir	c.	
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	1		1			1		I	

We propose to drill to 500', run 8 5/8" 24# casing, circulate cement, drill on to 2400' to test the Grayburg formation, run $4\frac{1}{2}$ " 10.50# casing and cement.

x' .

I ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS IVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM. IF ANY.	TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESEN	IT PRODUCTIVE ZONE AND PROPOSED NEW PRO	DUC•
igned Arohan Trile	Production Clerk	Date 4/6/81.	
(This space for State Use)			
PPROVED BY N. a. Aresiet TITLE_	SUPERVISOR, DISTRICT II	AFR 0 8 1981	

ONDITIONS OF APPROVAL, IF ANY

		All distanc	es must be fro	to the outer boundaries	of the section. A p		and the second se
Operator	• _		1	- 90 Be		R 20 10 Well No	/
Marb	ob Energy	Corp.		West Artesia G	rayburg Unit	Tr. 8982 1/12	5
Unit Letter 5	7	18 S	South	28 Fast	County	day //	
Actual Footage Location	n of Well:					aver	
1650	eet from the SOUT	zh.	line and	940	eat (mm the ea	st	
Ground Level Elev.	Producing Form	nation +	F	2001		Dedicated Acres	Jge:
3619.4	Graybu	rg		Artesia Qn. G	rbg. SA	40	A
 Outline the outline than If more than interest and outline than 	one lease is oyulty).	ed to the e dedicated t	subject wel o the well,	l by colored pencil outline each and id	or hachure mark lentify the owne	(8 on the plat below. rship thereof (both a	s to work
dated by com Yes If answer is this form if no No allowable forced-pooling sion.	munitization, un No If an "no?' list the c eccessary.) will be assigne g, or otherwise);	nitization, f swer is "ye owners and d to the we or until a no	orce-pooling es;' type of tract descri ll until all i on-standard	g. etc? consolidation ptions which have nterests have been unit, eliminating su	consolidated (lich interests, ha	by communitization.	erse side unitizati the Comm
		· · · · · · · · · · · · · · · · · · ·	PLEO. PLEO.		The Cor	hereby certify that the in oined herein is true and c stift my knowledge and <u>CEAPLEY</u> Carolyn Orris Silico Production Cle Marbob Energy H 4/6/81	omplete ro belief. Letk Corp.
	 		-		.940'	hermby certify that the hawn on this plat was pla intes of actual surveys m inder my supervision, and is true and correct to th nowledge and belief.	well loca ited from f nade by m that the s ne best of

11.7.1

Rule 6: West Artesia Grayburg Unit, Tr. 8, Well #25 Pool: Artesia Queen Grayburg San Andres Standard spacing unit - 40 acres

Rule 7:

NA

Rule 8:

a. West Artesia Grayburg Unit, Tr. 8, Well #25 - 1650 FSL 940 FEL Sec. 7-185-28E

West Artesia Grayburg Unit, Tr. 8, Well #13 - 2310 FSL 330 FEL Sec. 7-185-28E

b. #25 - 5/5/81

#13 - 6/21/58

c. #25 - 6/30/81

#1.3 - 8/1/58

- d. None
- e. #25 5.3 bbl. oil, 16.5 mcf gas/day

#13 - SI

- f. NA
- g. Well #13 was placed on injection in November 1968 and needs to remain on injection for proper flooding of this unit. Also well #25 was opened in 3 additional zones in the Grayburg formation that had not been treated in well #13, and that possibly could not be properly treated in #13 due to the age of the casing and the old cementing techniques.



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Marbob Energy Corporation Artesia Queen Grayburg San Andres West Artesia Grayburg Unit Well #25

Pertinent Engineering Data and Conclusions:

Well No. 25 was completed in the Artesia Queen Grayburg pool in July 1981. This is an infill well located as per the attached plat.

Effective March 1, 1982, oil reserves recoverable will be 9,228 barrels and gas reserves recoverable will be 9,440 mcf.

Oil reserves were calculated from the attached rate/time curves to an economic limit of approximately 1 BOPD. Gas reserves were estimated using a study of the gas oil ratio performance not only on the specific well but on the entire pool.

My study reveals that as early as 1964 the producing well rate was 3.6 barrels of oil per day per well. The wells in the pool have remained on 40 acre spacing up until the past two years.

From infill well performance it is obvious that well density in this pool has to be increased to recover remaining reserves. The low permeability and low quality solution qas recovery mechanism will require reduced spacing to efficiently produce the reserves.

The daily producing rate for Well No. 25 was 5.3 BOPD in February 1982. This, of course, indicates that no interference has as yet been experienced from offset wells.

In my opinion the infill wells which increase the density of pattern will produce an amount of oil and gas reserves equal to the older wells in the field.

Therefore, it is my recommendation that well density be increased and it is my conclusion that infill wells will experience new reservoir conditions.

Paul swhite

Paul G. White Petroleum Engineer

<u>4-13-82</u> Date

PGW/co Encl.

RULE 9- b.



Rule 11:

03.

Notice of this infill request has been sent to Kersey & Company, 808 W. Grand, Artesia, New Mexico 88210; Exxon Co., USA, P.O. Box 1600, Midland, Texas 79701; and W. C. Welch, 913 So. 4th St., Artesia, New Mexico 88210.



BRUCE KING

GOVERNOR

LARRY KEHOE

SECRETARY

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT **OIL CONSERVATION DIVISION**

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Mr. Raye Miller Marbob Energy Corporation P.O. Drawer 217 Artesia, NM 88210

sauce of the

Re: Application for NGPA Infill Well Findings Under Provisions of Order No. R-6013-A NG Phillips

State Well Nos. 25, 27, 28, 29 and

West Artesia Grayburg Unit Well

Nos. 22, 24, and (25,

Dear Raye:

We may not process the subject application for infill findings until the required information, forms, or plats checked on the reverse side of this letter are submitted. din a di •. •

Sincerely,

togner

Michael E. Stogner, Petroleum Engineer

MES/dp

	ŀ	ł	сору	of∘	Form	C-101	must	be	submitted.
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A copy of Form C-102 must be submitted.

•

] The pool name must be shown.

The standard spacing unit size for the pool must be shown.

X I

Give the Division Order No. which granted the non-standard proration unit.

Please state whether or not the well has been spudded and give the spud date, if any.

Information relative to other wells on the proration unit is incomplete.

The geologic and reservoir data is incomplete or insufficient. All of Paul G. White's reports refer in paragraph three to calculated oil reserves, please include this calculations.

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Other:

Marbob Energy Corporation

P. O. DRAWER 217 ARTESIA, NEW MEXICO 88210

April 29, 1982



Mr. Michael Stogner Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Dear Mike:

Per your request, we are enclosing Paul G. White' calculations on the oil reserves for the NG Phillips St. #25, 27, 28 and 29 and the West Artesia Grayburg Unit #22, 24, 21 and 25.

Let us know if you need further information.

Very truly yours,

ris

Carolyn Orr**í**s Production Clerk

co

Encl.

-- OFFICE PHONE --(505) 748-3303 (505) 746-2422

- NIGHT PHONES -(505) 746-6197 (505) 746-6500 Marbob Energy Corp. West Artesia Grayburg Unit, Tr. 8, Well #25 1650 FSL 940 FEL Sec. 7-T18S-R28E

Calculation of Oil Reserves - Refer to Rate/Time Curve:

Year	Gross Monthly <u>Oil - bbls</u> .	<u>-</u>	Gross Yearly <u>Oil - bbls.</u>
1982	134		1 608
1983	100		1 200
1984	83		996
1985	72		864
1986	62		744
1987	58		696
1988	· 54		648
1989	49		588
1990	45	·	540
1991	42		504
1992	37		444
1 993	33		396
	Total Oil Remaining:	•	9,228
	Cumulative to 1/1/82		1,500
	Total Ultimate Reserves	+	10,728

Gas-Oil Ratio Average - 1023 to 1

Remaining Gas Reserves - 9,440 MCF