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• • • • •		ATION GEVISION		· .
STAT	P.O. Of New Mexico Santa Fe,	BOX 2088	ADMINISTRAT	IVE ORDER
	MINERALS DEPARTMENT		NFL 52	
	INFILL DRILLING FI SECTION 271.305(b) OF THE COMMISSION REGULATIONS, NATU AND OIL CONSERVATION DIVIS	FEDERAL ENERGY REGULA IRAL GAS POLICY ACT OF	1978	
I.				
Operator _	Marbob Energy Corporation Well	Name and No. West Ai	rtesia Grayburg Unil	<u>Tr. 5</u> #22
Location:	Unit_L_Sec8 Twp185 F	Rng. <u>28E</u> Cty	Eddy	
II. The division	N FINDS.			
(1) That is pursuant to as a new or infill well	ection 271.305(b) of the Federal Ener the Natural Gas Policy Act of 1978 p shore production well under Section 1 is necessary to effectively and effi ation unit which cannot be so drained	provides that, in orde 103 of said Act, the D Iciently drain a porti	r for an infill well ivision must find th on of the reservoir (to qualify at the
procedure v	y Order No. R-6013-A, dated February hereby the Division Director and the d find that an infill well is necessa	Division Examiners are	established an admin e empowered to act fo	nistrative or the
(3) · That (he well for which a finding is sought	is completed in the	Artesia Queen Brayl	purg
San And	es Pool, and the standard spacing un		فيسود المثبوب بالمتنب المتحاد المستعر المحال وانكر المكال والتك	acres.
(4) That a		t comprising the <u>NV</u>	N/4 SW/4	
of Sec. $\underline{8}$, Twp. <u>185</u> , Rng. <u>28E</u>	, is currently dedic	cated to the West An	rtesia
<u>Grayburq</u>	Tr 5 Well #12 located in Unit	of said sec	tion.	
well(s) on	aid proration unit is not being effect the unit. he drilling and completion of the wel			
the product	ion of an additional <u>12,823</u> e recovered.			
for which a reservoir a unit.	ll the requirements of Order No. R-60 finding is sought is necessary to ef overed by said proration unit which o	fectively and efficient cannot be so drained by	ntly drain a portion y any existing well w	of the within the
application	n order to permit effective and effic should be approved.	lent drainage of said	proration unit, the	SUDJECT
	FORE ORDERED:			
infill well for infill reservoir o	he applicant is hereby authorized to on the existing proration unit descr drilling granted by this order is nec overed by said proration unit which c g well thereon.	ribed in Section II(4) ressary to permit the (above. The authoris drainage of a portion	zation n of the
	urisdiction of this cause is retained y deem necessary.	l for the entry of suc	h further orders as	the
DONE at San	ta Fe, New Mexico, on this <u>21st</u> d	lay of <u>May</u>	, 19 <u>82</u> .	
· · · · ·	an a	CTON DIPROMOD	EVANTNED	
•	DIVI	ISION DIRECTOR	EXAMINER	
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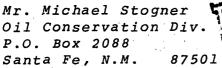
Marbob Energy Corporation

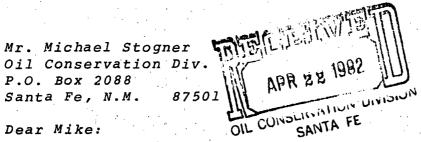
P. O. DRAWER 217 ARTESIA, NEW MEXICO 88210

April 20, 1982

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

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





Dear Mike:

- J

J,

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.

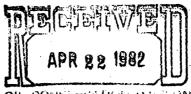
Very truly yours,

Ray

Raye Miller Land Department

RPM/CO

Encl.



OIL CONSERVATION DIVISION SANTA FE

Request for Infill Finding on West Artesia Grayburg Unit, Tr. 5, Well #22 in accordance with Administrative Procedures amended February 8, 1980

NO. OF COPIES RECEIVED	1	THEFT	m - 015-23639				
DISTRIBUTION		ERVATION COMMISSION	10 mm C-101				
SANTA FE			howned 1-1-65				
FILE	APR 28 1982						
U.S.G.S.							
LAND OFFICE		OIL CONSERVATION DIVIS	5. State Oil & Gas Lease No.				
OPERATOR		C SANTA FE	E-7179				
		ARTESIA, OFFICE					
	R PERMIT TO DRILL, DEEPEN	, OR PLUG BACK					
ta. Type of Work			7. Unit Agreement Name				
DRILL X	• DEEPEN		West Artesia Grbg. Ut. 8. Farm or Lease Name Tr. 5				
	OTHER	SINGLE X MULTIPLE ZONE	West Artesia Grbg. Ut.				
2. Name of Operator	· · · · · · · · · · · · · · · · · · ·		9. Well No.				
Marbob Energy Co	rporation		22				
3. Address of Operator			10. Field and Pool, or Wildcat				
P.O. Box 304, Ar	tesia, N.M. 88210		Artesia Qn. Grbg. SA				
4, Location of Well UNIT LETTER	L LOCATED 2269	FEET FROM THE South LINE					
		· · · · · · · · · · · · · · · · · · ·					
AND 330 FLET FROM THE	West LINE OF SEC. 8	TWP. 185 RGE. 28E NMPM	$\Delta M M M M M M M M M M M M M M M M M M M$				
			12, County				
			Eddy				
		19. Proposed Depth 19A. Formatic	20. Rotary or C.T.				
		2500' Graybur	g Rotary				
21. Elevations (Show whether DF, RT; et	, , , , , , , , , , , , , , , , , , , ,	2113. Drilling Contractor	22. Approx. Date Work will start				
3621.1'	Statewide Active	Stewart Bros. Drlg. Co	. 2/11/80				
SIZE OF HOLE SIZ	E OF CASING WEIGHT PER FOC	T SETTING DEPTH SACKS O	ECEMENT EST TOP				

	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
125	8 5/8''	24#	500'	Circ.	
7_7/8''	4 1/2"	10.50#	2500'	Attempt to Circ	
	ł	ł		1	

We propose to drill to 500', set 8 5/8" 24# casing, drill on to 2500', test the Grayburg formation, and set $4\frac{1}{2}$ " 10.50# casing.

APPROVAL VALID FOR 180 DAYS PERMIT EXPINES 7-29-81 UNLESS DRILLING UNDERWAY

creby certify that the information above to true and cur	nplete to th	ne best of my knowledge and belief.		· · ·
ned Aralan Chico	Tule	Production Clerk	Date	1/27/81
(This space for State Use)				
PROVED BY IN, a. Gresset		SUPERVISOR. DISTRICT II	DATE	IAN 2 9 1981

CONDITIONS OF APPROVAL, IF ANY:

		NAMEXI		NSERVATION CO	омміз	12CT	17.171516	C-inz
A start and a start and a start and a start a st				ACREAGE DEDIC		1		clive 1-1-85
		All distances	must be from t	he outer boundaries (of the Sector	APR 2	2 1982	
MARBOB	ENERGY CON	$\overline{\rho}$	Leo	1	CAYO TEN	NUMINOEON	Weller	
	Section	Township		EST ARTESIA GI	TAI DUAG		CT 5 0.1.322	
L	8	18 SOUTH	· · · · · · · · · · · · · · · · · · ·	28 EAST	EDDY	COUNTY,	NEW MEXICO	2
Actual Footage Local 2269		SOUTH	line and	<i>330</i> (et from the	WEST	line	
Ground Level Flev	Froducing For Graybu	mation rg	Poo				Dedicated Acroay	e:
<u>3621.1</u>				y colored pencil		marke on th	L	Actes
	-			-			•	
		dedicated to	the well, or	itline each and id	lentify the	ownership t	hereof (both as	to working
interest and	i royanty).	•			•			
				cated to the well	, have the	interests 'of	all owners bee	n consoli-
duted by co	mmunitization, 1	initization, lord	e-pooling.	PIC /				. .
🗌 Yes [No If a	nswer is "ves"	' type of co	nsolidation				
If answer is	"no!' list the	owners and tra	et descripti	ions which have i	actually be	en consolidi	ated."(Use reve	rse side of
this form if			·	<u>.</u>				
	•			erests have been it, eliminating su		•		
sion.							approved by th	(C) (10)(4)(13) ²
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	!			a F		Marbob F	nergy Corpo	ration
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	1			1		1/27/81		
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			- Prostantin		ATTT	Consticute	PATRICK A. R	8T 676 DMERO 6868
C 330 66C 10	1320 1880 'B	1 2310 2640	200C	1800 1000	800 LS	L	Ronald J. Ei	deon 3239

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Rule 6:

West Artesia Grayburg Unit, Tr. 5, Well #22 Pool: Artesia Queen Grayburg San Andres Standard spacing unit - 40 acres

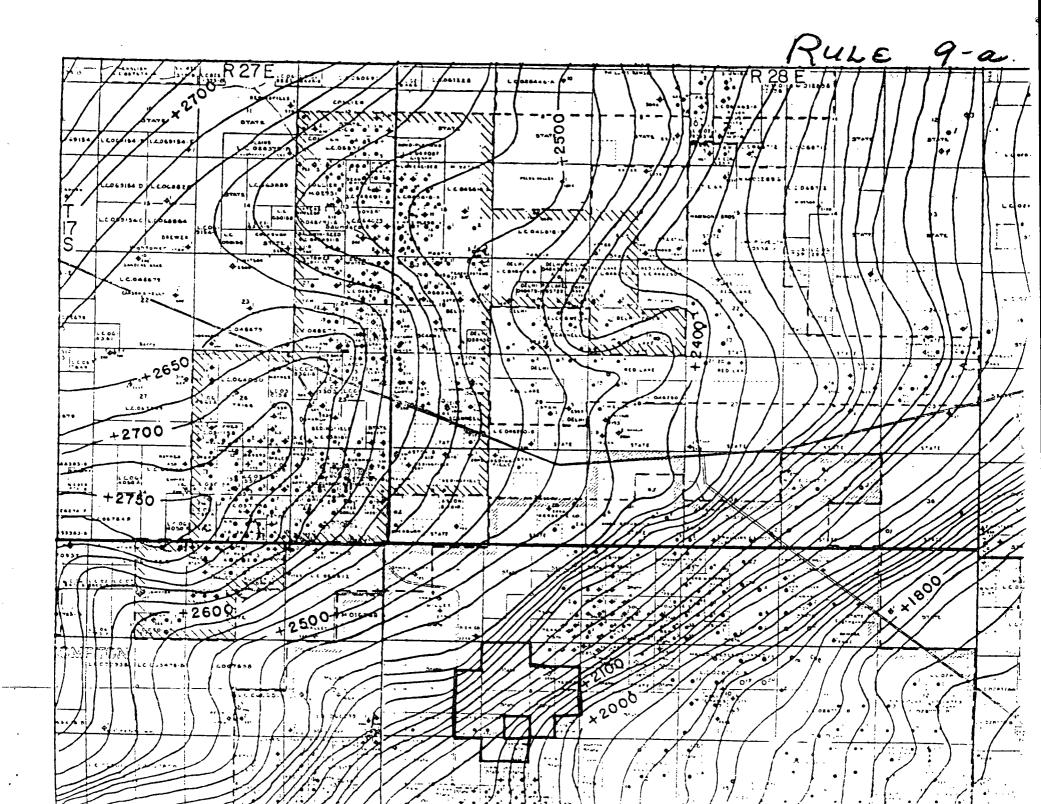
Rule 7:

NA

Rule 8:

a.	West Artesia Grayburg Unit, Tr. 5, Well #22-2269 FSL 330 FWL Sec. 8-185-28E
,	West Artesia Grayburg Unit, Tr. 5, Well #12-1650 FSL 990 FWL Sec. 8-18S-28E
	West Artesia Grayburg Unit, Tr. 5, Well #23-2269 FSL 971 FWL Sec. 8-18S-28E
b.	#22 - 2/12/81
	#12 - 9/7/57
	#23 - 3/4/81
с.	#22 - 3/23/81
	#12 - 10/11/57
	#23 - 3/25/81
d.	None
e.	#22 - 10 bbl. oil, 12.5 mcf gas/day
	#12 - Injection
	#23 - SI
f.	NA
g.	Well #12 was placed on injection in April 1971 and needs to remain on injection for proper flooding of this unit.
	Well #22 was opened in 1 additional zone in the Grayburg

formation that had not been treated in well #12, and that possibly could not be properly treated in #12 due to the the age of the casing and the old cementing techniques.



Marbob Energy Corporation Artesia Queen Grayburg San Andres West Artesia Grayburg Unit Well No. 22

Pertinent Engineering Data and Conclusions:

Well No. 22 was completed in the Artesia Queen Grayburg pool in April 1981. This is an infill well located as per the attached plat.

Effective March 1, 1982, oil reserves recoverable will be 21,408 barrels and gas reserves recoverable will be 12,823 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 gas recovery mechanism will required reduced spacing to efficiently produce the reserves.

The daily producing rate for Well No. 22 was 10 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.

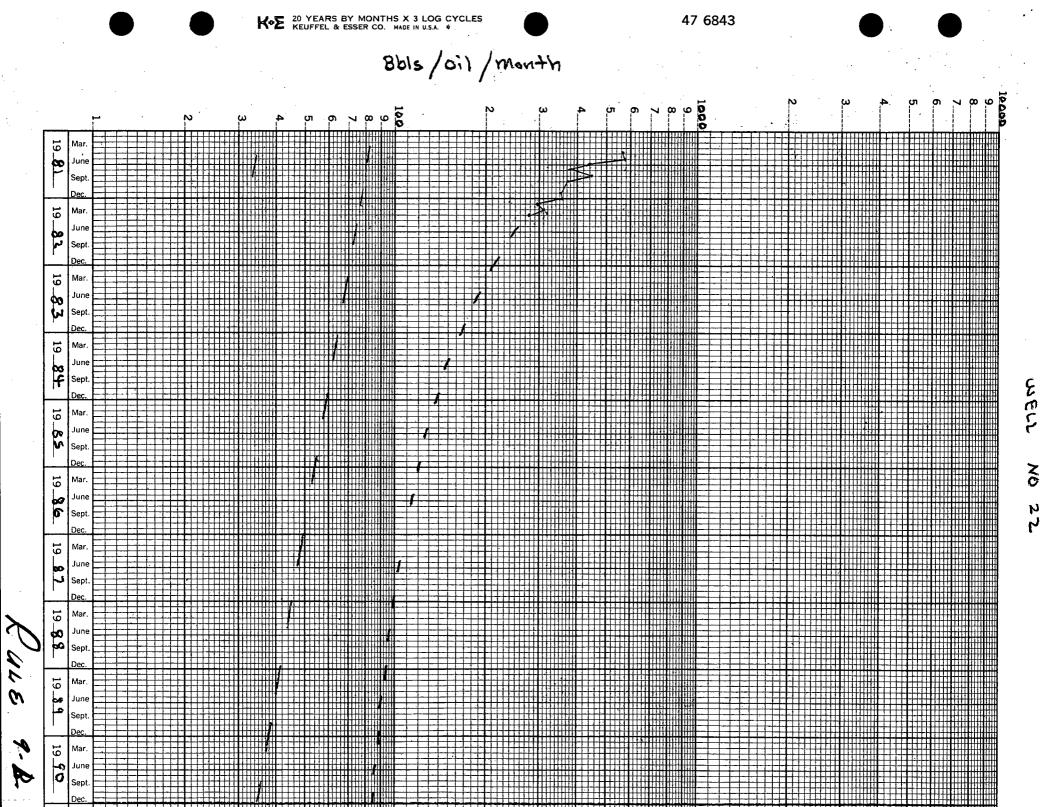
Vang Ginhito

Ruce 9-6.

Paul G. White Petroleum Engineer

4-13-82

PGW/co Encl.



WEST ARTES A DUCEN GARTBUCC

Rule 11:

Notice of this infill request has been sent to Donnelly Drilling Co., P.O. Box 433, Artesia, New Mexico 88210, by certified mail, as the only offset operator.



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR

LARRY KEHOE SECRETARY 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

> 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.

Sincerely,

E. Stogner

Michael E. Stogner, Petroleum Engineer

MES/dp

P	1 (copy	of∙	Form	C-101	must	be	submitted.	

A copy of Form C-102 must be submitted.

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The pool name must be shown.

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

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:

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x

Marbob Energy Corporation

P. O. DRAWER 217 ARTESIA, NEW MEXICO 88210

April 29, 1982



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

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

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,

Carolyn Orr**i**s Production Clerk

co

Encl.

Marbob Energy Corp. West Artesia Grayburg Unit, Tr. 5, Well #22 2269 FSL 330 FWLSec. 8-T185-R28E

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

	Gross Monthly	Gross Yearly
Year	<u>Oil - bbls.</u>	Oil - bbls.
1982	250	3,000
1983	185	2,220
1984	146	1,752
1985	128	1,536
1986	114	1,368
1987	103	1,236
1988	95	1,140
1989	90	1,080
1990	85	* 1,020
1991	80	960
1992	74	888
1993	67	804
1994	61	732
1995	56	672
1996	51	612
1997	47	564
1998	43	516
1999	40	480
2000	36	432
2001	33	396
	Total Oil Remaining:	21,408
	Cumulative to 1/1/82	4,366
	Total Ultimate Reserves	25,774

Gas-Oil Ratio Average - 599 to 1 Remaining Gas Reserves - 12,823 MCF