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STATE	OF NEW MEXICO	SANTA FE. NEW	V MEXICO	•	اللا فات دومیند. روید است	NATIVE ORDER
ERGY AND M	INERALS DEPARTMENT	87501			NFL 6	2
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	IN SECTION 27 Commission F And Oil Co	NFILL DRILLING FINDI 71.305(b) OF THE FED WEGULATIONS, NATURAL INSERVATION DIVISION	NGS PURSUAN ERAL ENERGY GAS POLICY ORDER NO. 1	T TO REGULATORY ACT OF 197 R-6013-A	'8	
erator	ARBOB ENERGY CORPOR	RATION Well Nam	me and No.	Old Loco (Unit Well No.	19
cation: D	mit_N Sec. 32	Twp. 17-S Rng.	29 - E	_Cty.	Eddy	
`•		• • • • • • • • • • • • • • • • •				
E DIVISTON	I FINDS:	·				
1) That Source in the prore	ection 271.305(b) of the Natural Gas Poly shore production well is necessary to effe tion unit which cann	the Federal Energy icy Act of 1978 prov l under Section 103 Sctively and efficies not be so drained by	Regulatory ides that, of said Act ntly drain any existin	Commission in order fo , the Divis a portion o ng well wit	Regulations p or an infill w ion must find if the reservo. whin that unit	romulgated ell to qualify that the ir covered
2) That by ;ocedure wi .vision and	y Order No. R-6013-A lereby the Division L find that an infill	, dated February 8, Director and the Div Well is necessary.	1980, the D ision Exami	ivision est ners are em	tablished an a powered to ac	dministrative t for the
1) That th	he well for which a 1	finding is sought is	ompleted :	in the Gr	ayburg Jacks	on (SR=QN-
tbg-SA)	Pool, and the sta	andard spacing unit .	in said poo.	1, is	40	acres.
1) That a	40ac	cre proration unit c	omprising t	the $SE/4$	SW/4	T
Sec. <u>32</u>	. <u>14</u> , Twp. <u>17-S</u>	, Rng. <u>29-E</u> ,	is current.	ly dedicate	d to the Old	Loco Unit
INC	<u> </u>		of s.	and section	٠.	
ie producti herwise bo	ion of an additional	2,457 MC	F of gas fr	om the pror	ation unit wh.	ich would not
 That a. That a. which a servoir co it. 	ll the requirements (finding is sought is wered by said prorat	of Order No. R-6013- s necessary to effec tion unit which canno	A have been tively and ot be so dr	complied w efficiently ained by an	vith, and that ¹ drain a port ¹ y existing we.	the well ion of the ll within the
) That in plication	n order to permit eff should be approved.	fective and efficien	t drainage	of said pro	oration unit,	the subject
IS THEREP	TORE ORDERED:		•	· .		- - - - - - -
1) That the servoir constraint of the servoi	he applicant is here on the existing pro drilling granted by a overed by said prorat y well thereon.	by authorized to dri ration unit describe this order is necess tion unit which canno	ll the well d in Sectio ary to perm ot be effec	described in II(4) abo it the drai tively and	in Section I ove. The auth hage of a por efficiently d	above as an orization tion of the rained by
2) That juice in the second se	urisdiction of this (7 deem necessary.	cause is retained fo	or the entry	of such fu	irther orders	as the .
ONE at San	ta Fe, New Mexico, o	n this 24th day	of Noven		, 19 <u>⁰⁴</u> .	
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		DIVISIO	IN DIRECTOR	EXA	MINER	-
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Received : July 19, 1982 Suspince: Today OIL CONSERVATION DIVISION P. O. Box 2088 ADMINISTRATIVE ORDER STATE OF NEW MEXICO SANTA FE, NEW MEXICO 102 ENERGY AND MINERALS DEPARTMENT . 87501 NFT. 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 T. Operator Marbob Energy Corporation Well Name and No. Old Loco Unit Well No. 19 Cty. Eddu Location: Unit N Sec. 32 Twp. 175 Rng. 29E II. THE DIVISION FINDS: (1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit. (2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary. (3) That the well for which a finding is sought is completed in the Gravburn Jackson (SR - Qn. -Pool, and the standard spacing unit in said pool is Grba - 5A 40 acres. 5E/4 SWIL -acre proration unit comprising the ____ That a ·40 (4) , Twp. 175 32 , Rng. 29E, is currently dedicated to the Old hold of Sec. Well located in Unit _____ of said section. That this proration unit is (\mathcal{A}) standard () nonstandard; if nonstandard, said unit was previously (5) approved by Order No. N/A (6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit. (7) That the drilling and completion of the well for which a finding is sought should result in 2,457 MCF of gas from the proration unit which would not the production of an additional otherwise be recovered. (8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit. (9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved. IT IS THEREFORE ORDERED: (1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon. That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary. DONE at Santa Fe, New Mexico, on this day of ci- OLP Arteria EXAMINER DIVISION DIRECTOR NMO+ GEL Hobbs

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Request for Infill Finding on

Old Loco Unit #19

in accordance with Administative

Procedures samended SEebruary 28, 1980

N- 32-175-29E Eddy

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2. If more than one !	ease is dedicated to (he well, outline ca.	RECE	IVED whether the tend that has to working
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3. If more than one le dated by communiti	ase of different owners zation, unitization, fore	hip is dedicated to i espooling, etc?	he well, have the p O. C .	interests of all owners been consolie.
[]] Yes []] No	If answer is "yes!"	type of consolidation	ARTESIA, O	FFICE
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		1		torned herein is true and complete to the best of my knowledge and belief
+ ·				Carolin Orres
		:		Secretary
		i i		Marbob Energy Corp.
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Rule 6:

Old Loco Unit #19

Pool: Grayburg Jackson Seven Rivers Queen Grayburg San Andres Standard spacing unit: 40 acres

Rule 7:

NA

Rule 8:

a. Old Loco Unit #14 - 330 FSL 2310 FWL Sec. 32-T17S-R29E Old Loco Unit #18 - 990 FSL 2310 FWL Sec. 32-T17S-R29E #14 - 3/4/40 b. #18 - 11/13/79 #14 - 4/9/40с. #18 - 12/13/79 d. None e. #14 - 2 bbl. oil, 1/3 mcf gas/day #18 - 9 bbl. oil, 9 mcf gas/day f. NA

g. Well #19 was drilled because of the low permeability and low quality solution gas recovery mechanism require reduced spacing to efficiently drain the reservoir. Since both #19 and #18 experienced new reservoir type conditions we feel the additional drilling was justified.



R 29 E Rule # 9-A

Charles .



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Marbob Energy Corporation Old Loco Unit, Well #19 Grayburg Jackson Seven Rivers Queen Grayburg San Andres Eddy County, New Mexico

Pertinent Engineering Data and Conclusions:

Well #19 was completed in the Grayburg Jackson pool in March 1980. This is an infill well located as per the attached plat.

Effective July 1, 1982, oil reserves recoverable will be 9,828 barrels and gas reserves recoverable will be 2,457 mcf.

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

From a study of this immediate area in this pool I find per well producing rates in 1970 below what the rates are for the newly drilled infill wells. The daily producing rate of oil for well #19 in May 1982 was 12 BOPD. In 1970 the average daily producing rate per well on this property was '7 BOPD.

Due to extensive waterflooding in the area there has been significant oil migration into areas between injection wells or between injection and producing wells.

It is evident from the rate of production and from oil reserves remaining that pattern density has to be increased to recover additional oil and gas reserves.

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

Paul G. White

Petroleum Engineer

Date

Rule #9-8

Marbob Energy Corp. Old Loco Unit, Well #19 990 FSL 1650 FWL Sec. 32-T17S-R29E Eddy County, N.M.

Calculation of oil reserves - refer to rate/time curve:

		Gross monthly	Gross Yearly
Year		<u>Oil - bbls.</u>	<u>Oil - bbls.</u>
·.			
1982 (6	mos.)	340	2,040
1983	· ·	240	2,880
1984	. '	160	1,920
1985		108	1,296
1986		61	732
1987		47	564
1988		33	396
	Total	oil remaining:	9,828
•	Cumula	tive to 1/1/82	14,976
	Total	ultimate reserves:	24,804

Gas-oil ratio average - 250 to 1

Remaining gas reserves - 2,457 mcf

Rule #9-B



Rule 11:

Notice of this infill request has been sent to Depco, Inc., 1000 Petroleum Bldg., Denver, Colorado 80202; and Anadardo Production Co., P.O. Box 2497, Midland, Texas 79702, as the offset operators.

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OLD LOCO UNIT #19

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	From	to	in feet	Formation
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	0	23	25	Caliche
	25	68	43	Red bed & gyp
	68	250	182	Gyp, anhydrite
	250	550	300	Salt
	\$50	1100	550	Salt. anhydrite
	1100	1950	850	Anhydrite, lime
	1950	1960	10	Anhydrite, red shale
	1960	1980	20	Anhydrite, shale, red sand
	1980	2040	6 0	Anhydrite, dolomite, sand
	2040	2040	20	Aphydrite dolomite sand red shale
	2060	2000	30	Anhydrite dolomite red shale
	2000	2000	10	Anhydrite, dolowice, led shale
	2100	2140	40	Anhydrite dolomite rod gand
	2100	2140	40	Anhydrite, dologite, red sand
	2140	2150	10	Annydrite, dolomite, sand, shale
	2150	2100	10	Annydrite, red & gray sand, shale
	2100	2200	40	Annydrite, red & gray sand
	2200	2200	0	Annydrice, dolomice, snale, sand
	2208	2230	22	Annydrice, dolomice, red & gray sand
	2230	2240	10	Annyorite, red & gray sand
	2240	2200	20	Annyarite, dolomite, red & gray sand
	2260	2270	10	Annydrice, dolomice, red sand, shale
	2270	2280	10	Annydrite, red sand
	2280	2300	20	Anhydrite, red & gray sand
•	2300	2310	10	Anhydrite, red sand
	2310	2390	80	Anhydrite, dolomite, red sand
	2390	2400	10	Anhydrite, dolomite, red & gray sand
	2400	2420	20	Anhydrite, dolomite
	2420	2470	50	Anhydrite, dolomite, sand
	2470	2480	10	Dolomite, red shale, sand
	2480	2500	20	Dolomite, shale
-	2500	2550	50	Dolomite
	2550	2590	40	Dolomite, anhydrite, sand
	2590	2630	40	Dolomite, anhydrite
	2630	2640	10	Dolomite, anhydrite, shale, sand
	2640	2650	10	Dolomite, red shale
•	2650	2660	10	Dolomite, anhydrite
	2660	2670	10	Dolomite, anhydrite, sand
	2670	2700	30	Dolomite, sand
	2700	2800	100	Dolomite, anhydrite, red shale, gray sand
	2800	2820	20	Dolomite, anhydrite, sand
	2820	2830	10	Dolomite, anhydrite, red & gray sand
	2830	2840	10	Dolomite, anhydrite
	2840	2850	10	Dolomite, anhydrite, sand
	2850	2862	12	Dolomite, anhydrite, red shale
	2862			TD
	202/			PRTD

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Request for Infill Finding on

Old Loco Unit #19

in accordance with Administative

Procedures amended February 8, 1980

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DISTRIBUTION	NEW MEXICO OIL CONS	ERVATION COMMISS	10H T	brm C+101	
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APPLICATION FOR	PERMIT TO DRILL, DEEPEN	OR PLUG BACK			
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DRILL	DEEPEN	91 (old Loco	Unit
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P.O. Box 304, Art	esia, N. M. 88210	_	• (Grbg Jaci	kson SR Queen
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		2850'		n l	Rotary
Tovati shi i shou whether UI, KI, etc	J 21A. Kind & Status Flag. Bond	218. Drilling Contract	of	22. Artica.	Date Work will start
3586 CR	Statewide Active	Alta-West Dri	lling Co.	2/4/	80

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11"	8 5/8"	20#	250'	Circ.	
7 7/8"	4 1/2"	10.50#	2850'	225	

We propose to drill to approximately 2850' to test Grayburg & Lovington formations. We do not anticipate gas at these depths & will not set up a blowout preventer program at this time.



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ART (VALD TOR S. -) (TUESS DRILLITU COMUNCED,

:3- 11-8-0 EXPIRES -

DOVE SPACE DESCRIBE PROPOSED PROGRAMI IF PROPOSAL IS TO DEEPEN OR PLUE BACK, GIVE DATA ON PRESENT PRODUCTIVE JONE AND PROPOSED NEW PRO SORE, GIVE BLOWDUT PREVENTER PROGRAM, IF ANT.

aby certify styl the information abave is true and complete to the be	et of my knowledge and belief.	4	ç · · ·
.d_ Carely and Tille	Secretary	_ Date	2/8/80
(This space for State Upp)	SUPERVISOR DISTRICT A		FEB 1 1 1980
DITIONS OF APPROVAL, IF ANYI	K	Jule	#5

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Rule 6:

Old Loco Unit #19 Pool: Grayburg Jackson Seven Rivers Queen Grayburg San Andres Standard spacing unit: 40 acres

Rule 7:

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Rule 8:

#14 - 330 FSL 2310 FWL Sec. 32-T175-R29E Old Loco Unit а. Old Loco Unit #18 - 990 FSL 2310 FWL Sec. 32-T17S-R29E #14 - 3/4/40b . #18 - 11/13/79 #14 - 4/9/40c. #18 - 12/13/79 d. None #14 - 2 bbl. oil, 1/3 mcf gas/day е. #18 - 9 bbl. oil, 9 mcf gas/day f. NA

9. Well #19 was drilled because of the low permeability and low quality solution gas recovery mechanism require reduced spacing to efficiently drain the reservoir. Since both #19 and #18 experienced new reservoir type conditions we feel the additional drilling was justified.

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R 29 E Rule # 9-A

Marbob Energy Corporation Old Loco Unit, Well #19 Grayburg Jackson Seven Rivers Queen Grayburg San Andres Eddy County, New Mexico

Pertinent Engineering Data and Conclusions:

Well #19 was completed in the Grayburg Jackson pool in March 1980. This is an infill well located as per the attached plat.

Effective July 1, 1982, oil reserves recoverable will be 9,828 barrels and gas reserves recoverable will be 2,457 mcf.

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

From a study of this immediate area in this pool I find per well producing rates in 1970 below what the rates are for the newly drilled infill wells. The daily producing rate of oil for well #19 in May 1982 was 12 BOPD. In 1970 the average daily producing rate per well on this property was 7 BOPD.

Due to extensive waterflooding in the area there has been significant oil migration into areas between injection wells or between injection and producing wells.

It is evident from the rate of production and from oil reserves remaining that pattern density has to be increased to recover additional oil and gas reserves.

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

Paul G. White

Petroleum Engineer

Date

Rule #9-8

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Marbob Energy Corp. Old Loco Unit, Well #19 990 FSL 1650 FWL Sec. 32-T17S-R29E Eddy County, N.M.

Calculation of oil reserves - refer to rate/time curve:

		· · · · ·	
		Gross monthly	Gross Yearly
Year		Oil - bbls.	<u>Oil - bbls.</u>
1000	(6 mog)	340	2.040
1983	(0	240	2,880
1984		160	1,920
1985		108	1,296
1986	`	61	732
1987		47	564
1988		33	<u> </u>
	Total oi	l remaining:	9,828
	Cumulati	ve to 1/1/82	14,976
	Total ul	timate reserves:	24,804

Gas-oil ratio average - 250 to 1

Remaining gas reserves - 2,457 mcf

Rule #9.B

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Rule 11:

Notice of this infill request has been sent to Depco, Inc., 1000 Petroleum Bldg., Denver, Colorado 80202; and Anādardo Production Co., P.O. Box 2497, Midland, Texas 79702, as the offset operators.

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<u></u>		CAS	SING RECORD (Re	port all string	s set in well?			
CASING SIZE	WEIGHT LB.	T. DEPTI	H SET HO	LE SIZE	CEME	NTING REC	ORD	ANOUNT PULLED
8 5/8"	20#	310	.82	11"	150 вах С	1. H 2	<u>% CC</u>	
4 1/2	10.501	2850		/ //8"	3/0 sax (1. H,	5/10 of 1%	CFR 2,
	+			<u> </u>	JV Salt	, 104	sano per s	вск
	LIN	ER RECORD			30.		TUBING RECOP	1 ?D
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	0	PTH SET	PACKER SET
					2 3/8	•	2730'	
uloration Record ()	nterval, size and n	umberl		1 12			CENENT SOUL	
419-2423 - 8	3 shots	2682-	2684-4 shot	DEPTH	INTERVAL	AND AND	UNT AND KIND	MATERIAL USED
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First Production	Product	ion Method (Flo	wing, gas lift, pum	ping - Size a	id type pump)	~ ~ ~ / + (Well Sintus ((Prod. or Shut-in)
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OLD LOCO UNIT #19

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FTOM	to	in teet	Formacion
0	23	25	Caliche
25	68	43	Red bed & gyp
68	250	182	Gyp, anhydrite
250	550	300	Salt
550	1100	550	Salt, anhydrite
1100	1950	850	Anhydrite, lime
1950	1960	10	Anhydrite, red shale
1960	1980	20	Anhydrite, shale, red sand
1980	2040	60	Anhydrite, dolomite, sand
2040	2060	20	Anhydrite, dolomite, sand, red shale
2060	2090	30	Anhydrite, dolomite, red shale
2090	2100	10	Anhydrite
2100	2140	40	Anhydrite, dolomite, red sand
2140	2150	10	Anhydrite, dolomite, sand, shale
2150	2160	10	Anhydrite, red & gray sand, shale
2160	2200	40	Anhydrite, red & gray sand
2200	2208	8	Aphydrite, dolomite, shale, sand
2208	2230	22	Anhydrite, dolomite, red & grav sand
2230	2240	10	Anhydrite, red & gray sand
2240	2260	20	Anhydrite, dolomite, red & grav sand
2260	2270	10	Anhydrite, dolomite, red sand, shale
2270	2280	10	Anhydrite, red sand
2280	2300	20	Anhydrite, red & gray sand
2300	2310	10	Anbydrite, red sand
2310	2390	80	Anhydrite dolomite red sand
2390	2400	10	Anhydrite dolomite red & gray sand
2400	2400	20	Anhydrite dolomite
2400	2420	50	Anhydrice, dolomite sand
2420	2470	10	Dolomite red shele sand
2470	2400	20	Dolomite, led Shale, Sand Dolomite, shale
2500	2550	50	Dolomite
2550	2 2 5 9 0	40	Dolomite enhydrite cand
2590	2630	40	Dolomite, annydrite, sand i Dolomite, aphydrite
2630	2640	10	Dolomite anhydrite shale sand
2640	2650	10	Dolomite, red shale
2650	2660	10 -	Dolomite, schudrite
2660	2670	10	Dolomite, anhydrite, sand
2670	2700	30	Dolomite, sand
2700	2800	100	Dolomite, anhydrite, red shale, grav and
2800	2820	20	Dolomite. anhydrite. sand
2820	2830	10	Dolomite, anhydrite, red & grav sand
2830	2840	10	Dolomite, enhydrite
2840	2850	10	Dolomite, anhydrite sand
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