NEW MEXICO OIL CONSERVATION COMMISSION_

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Wa 1	I I contion	and Acreage	Dedication	Dias
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ection A.					Date no	œ hrempel		1904
MURPHY OIL CORPORATION		L	C 9 0 A	Navajo '	'AA ^P	~ 1∶		
	ection	9.4	- a36			7 D	17	WEST NMP
posted 2474 Feet From the SO			133	_10wnsnrp. Fi	et om_	= the	EAST	Lin
ounty SAN JUAN G. L. Eleva		5388		Dedicated	Acreage_	-		Acre
					_			
Is the Operator the only owner in the dedicate								
Yes_XNo								
If the answer to question one is "no",	have the in	nterests	of all	the owner	s been co	nsolidate	i by cor	nmunitiz at ic
agreement or otherwise? Yes	. No	If	answer	is "yes",	Type of	Consolid	ation.	
if the answer to question two is "no", li	ist all the o	wners :	and the	r respectiv	e interest	s below:		
Owner				Lanc	Descript	on		
								
		•						
otion B.	Note:	All dis	tances	must be fro	m outer bo	undaries	of sect	ion.
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is is to certify that the information		1			· 1		,	
Section A above is true and complete		' 			-			.
the best of my knowledge and belief.		'						
Murphy Oil Corporation	ļ	1	ļ		. t		I	ļ
(Operator)		l 					I	
XX har can	1	1		1 .	1		l	
(Representative)		1		1	1		ŀ	
200 Jefferson Avenue		<u> </u>		_' ↓	'_			
(Address)		1		ı			1	i i
El Dorado, Arkansas		ı		1			1	
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This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Scale 4 inches equal 1 mile

Date Surveyed	August 15, 1964
/	P
James (. seene
Registered Professiona	l Engineer and/or Land Surveyor
James P. Leese,	l Engineer and or Land Surveyor N. Mex. Reg. No. 1463

WELL STATUS AND PRODUCTION DATA Murphy Oil Corporation Navajo AA Lease Many Rocks Field San Juan County, New Mexico

Navajo "AA" #13 1		"AA" #12	"AA" #11	"AA" #10	"AA" #9	"AA" #8	"AA" #7	"AA" #6	"AA" #5	"AA" #4	*3	"AA" #2	Lease and Well No. Total Feet	
,653	,420	,715	,620	1,744	,703	,473	,720	,454	,484	,794	,492	,524	otal Depth Feet	
44	45	44	44	44	44	44	44	44	44	55 54	44	44	Production Size In.	
1,647	1,410	1,709	1,619	1,740	1,697	1,453	1,708	1,447	1,478	1,794	1,483	1,523	n Casing Depth	
None	1,374-78		1,585-88	1,697-99	1,643-45	1,427-29	1,664-66	1,405-07	1,440-53	1,743-47	1,443-46	1,473-77	Perf. Interval, A.	
6-28-64	6-4-64	Pmpg Frac (11-29-63	11-21-63	11-8-63	11-1-63	10-6-63	11-20-63	8-13-63	6-28-63	7-3-63	6-21-63	Completion Date	
SI -	20	011	72	92	102	45	85	12	20	ر.	65	60	Initia BOPD	
To be compl	510	•	MIST	MIST	MISI	MISI	MIST	MISI	MISI	MIST	MIST	MIST	l Potential GOR	
eted later	7-8-64	7-8-64	5-14-64	5-20-64	7-5-64	5-21-64	7-8-64	5-10-64	5-20-64	5-17-64	7-3-64	7-2-64	Current Test Data Date BOPD	
as an inje	20.04	5.01	12.10	57.57	81.40	11.69	55.09	6.90	5.85	5.00	16.62	21.68	est Data BOPD	
etion well and	858	Rec. Frac Oil	6,431	18,086	25,499	6,062	20,781	2,024	2,938	1,170	10,024	21.68 15,900	Cumulative Prod. to 9-1-64	
and/or a fuel	630	•	2,100	2,100	2,100	1,290	2,100	390	1,230	150	1,230	1,980	September 1964 Allowable BOPM	

Total Cumulative 109,773

Exhibit K

RESERVOIR PARAMETERS Murphy Oil Corporation Navajo AA Lease San Juan County, New Mexico

Estimated Reservoir Conditions:

Initial Reservoir Pressure, psig	470
Reservoir Temperature, oF	107
Oil Formation Volume Factor	1.1
Initial Oil Viscosity, cp.	1.4
initial Off Viscosity, ep.	1.1
Core Analysis Average Values:	
Porosity, per cent	15.5
Water Saturation, per cent	31.4
Residual Hydrocarbon Saturation per cent	34.3
Oil Zone Volumes:	
Net Reservoir Volume, acre-feet*	3009
Initial Oil in Place, STB	2,257,000
initial Off in Flace, 31B	2,237,000
Approximate Original Cap Gas in Place, MMCF	96
Cumulative Production to 10-1-64, STB	115,490
Estimated Increase in Oil Recovery	

^{*} Includes only sand having permeability greater than 1 md. and porosity greater than 9.2 per cent.

Due to Pressure Maintenance, STB

EXHIBIT N

300,000

PRODUCTION HISTORY Murphy Oil Corporation Navajo AA Lease Many Rocks Field San Juan County, New Mexico

Year	Month	Oil Production Barrels
1963	June	262
-,	July	1,054
	August	2,247
	September	3,757
	October	4,719
	November	9,515
	December	11,649
	Sub Total	33,203
1964	January	12,631
	February	12, 126
	March	9,242
	April	10,830
	May	8,050
	June	8,691
	July	6,754
	August	7,916
	September	6,047*
	Total	115,490

^{*} Approximation

