THE APPLICATION OF MESA PETROLEUM COMPANY FOR A DUAL COMPLETION

ORDER NO. MC-2840

# ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

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Under the provisions of Rule 112-A Mesa Petroleum Company made application to the New Mexico Oil Conservation Division on April 27, 1981, for permission to dually complete its Federal Well No. 600 ocated in Unit E of Section 6, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico, in such a manner as to permit production of gas from the Crouch Mesaverde Pool and the Basin Dakota Pool.

Now, on this 18th day of May, 1981, the Division Director finds:

- 1. That application has been filed under the provisions of Rule 112-A of the Division's Rules and Regulation's;
- 2. That satisfactory information has been provided that all operators of offset acreage have been duly notified;
- 3. That no objections have been received within the waiting period as prescribed by said rule;
- 4. That the proposed dual completion will not cause waste nor impair correlative rights; and
- 5. That the mechanics of the proposed dual completion are feasible and consonant with good conservation practices.

### IT IS THEREFORE ORDERED:

That the applicant herein, Mesa Petroleum Company, be and the same is hereby authorized to dually complete its Federal Well No. 6M located in Unit E of Section 6, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico, in such a manner as to permit production of gas from the Crouch Mesaverde Pool and the Basin Dakota Pool through parallel strings of tubing.

 $$\tt PROVIDED\ HOWEVER}$$  , That applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A.

 $\frac{\text{PROVIDED FURTHER, That applicant shall take packer-leakage}}{\text{upon completion and annually thereafter.}}$ 

 $\overline{\text{IT IS FURTHER ORDERED}}$ : That jurisdiction of this cause is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

MAY 26 1981 OIL COM. COM. DIST. 3 STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY // Division Director

SEAL



### STATE OF NEW MEXICO

### ENERGY AND MINERALS DEPARTMEN

OIL CONSERVATION DIVISION AZTEO DISTRICT OFFICE

1000 RIO BRAZOS F040 AZ160 NEW MEXICO B1410 (505) 334-6113

50X 2038	505) 334-611
SANTA FE, NEW MEXICO 87501	
DATE 4-20-81	
RE: Proposed MC X Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX	
Santleman:	
I have examined the application dated 4-17-81	
for the Mesa Federal #6M F-6-29.  Sperator Lesse and Well No. Unit,	-/1 S-T-R
and my reconsendations are as follows:	3-1-K
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ours truly,	mentina ar ann <u>maga</u> n ar nag
Brank J. Chang	

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### NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

		County	Date	
Mesa Petroleum Co.		San Juan	4/	6/81
Address		Lease	Well No	•
1660 Lincoln St., #2800, D	enver, CO 80264	Federal	6M	
Location Unit Secti	on To	wnship	Range	
	6	29N	11	<u></u>
<ol> <li>Has the New Mexico Oil Conservation zones within one mile of the subject w</li> <li>If answer is yes, identify one such ins</li> </ol>	vell? YES X	NO		
3. The following facts are submitted:	Upper	Intermed	1	Lower
	Zone	Zone		Zone
a. Name of Pool and Formation	<u> Mesaverde</u>			Dakota
b. Top and Bottom of				
Pay Section	2001 27001			6439'-6594'
(Perforations)	3668'-3700'			
c. Type of production (Oil or Gas)	gas			gas
d. Method of Production (Flowing or Artificial Lift)	flouring			flowing
4. The following are attached. (Please c	flowing beck YES or NO)			
X c. Waivers consenting to	hed conies of the applica	ition.		f, evidence that said offset opera-
d. Electrical log of the dicated thereon. (If su	well or other acceptable ch log is not available at	the thie application is inc		
d. Electrical log of the dicated thereon. (If su	well or other acceptable ch log is not available at on which this well is loca	ated together with their corr		
d. Electrical log of the dicated thereon. (If su the lease *4(d) - Logs sent prior to	well or other acceptable ch log is not available at on which this well is location of this a	ated together with their corr	ect mailing addre	
d. Electrical log of the dicated thereon. (If su	well or other acceptable ch log is not available at on which this well is location of this a	ated together with their corr	ect mailing addre	
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d. Electrical log of the dicated thereon. (If substitute of the lease *4(d) - Logs sent prior to Southland Royalty Co., 41	well or other acceptable ch log is not available at on which this well is loca filing of this a 0 17th Street, Su h Colorado Blvd.,	pplication  ite 1000, Denver, (	ect mailing addre	
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5. List all offset operators to the lease *4(d) - Logs sent prior to  Southland Royalty Co., 41  Tenneco Oil Co., 720 Sout  Supron Energy Corp., Box  Amoco Production Co., 501	well or other acceptable ch log is not available at on which this well is local filing of this a 0 17th Street, Suh Colorado Blvd., 808, Farmington, Airport Road, Fa	pplication  ite 1000, Denver, (  Penthouse, Denver  NM 87401	0 80202 CO 80222	
d. Electrical log of the dicated thereon. (If su suppose the lease *4(d) - Logs sent prior to Southland Royalty Co., 41  Tenneco Oil Co., 720 Sout Supron Energy Corp., Box	well or other acceptable ch log is not available at on which this well is local filling of this a 0 17th Street, Su h Colorado Blvd., 808, Farmington, Airport Road, Famore, CO 80201 pove notified and furnished	pplication ite 1000, Denver, ( Penthouse, Denver NM 87401 rmington, NM 8740	CO 80202	
d. Electrical log of the dicated thereon. (If substitute of the lease *4(d) - Logs sent prior to southland Royalty Co., 41  Tenneco Oil Co., 720 Sout  Supron Energy Corp., Box  Amoco Production Co., 501  Texaco, Inc. Box 2100, D.  6. Were all operators listed in Item 5 all date of such notification 4/6/8	well or other acceptable ch log is not available at on which this well is local filing of this a 0 17th Street, Su h Colorado Blvd., 808, Farmington, Airport Road, Famover, CO 80201 pove notified and furnished an	pplication  ite 1000, Denver, (  Penthouse, Denver  NM 87401  rmington, NM 8740  ed a copy of this application  sion Production Supplication of the standard company to the st	co 80202  CO 80222  CO 80222  The result of the Me make this report	Sa Petroleum
d. Electrical log of the dicated thereon. (If substitute of the lease *4(d) - Logs sent prior to Southland Royalty Co., 41  Tenneco Oil Co., 720 Southland Supron Energy Corp., Box  Amoco Production Co., 501  Texaco, Inc. Box 2100, D.  6. Were all operators listed in Item 5 all date of such notification 4/6/8  CERTIFICATE: I, the undersigned,	well or other acceptable ch log is not available at on which this well is local filing of this a 0 17th Street, Su h Colorado Blvd., 808, Farmington, Airport Road, Famover, CO 80201 pove notified and furnished an	pplication  ite 1000, Denver, (  Penthouse, Denver  NM 87401  rmington, NM 8740  ed a copy of this application  sion Production Supplication of the standard company to the st	co 80202  CO 80222  CO 80222  The result of the Me make this report	Sa Petroleum

<sup>\*</sup>Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

# Daniel Casper Petroleum Landman 2575 South Lafayette Denver, Colorado 80210 (303) 744-7500

OFFSET WELLS

### Well Name: Federal No. 6M

Operator .	Well Name	Legal Description
Mesa Petroleum Co. Mesa Petroleum Co. Southland Royalty Co. Southland Royalty Co. Tenneco Oil Co. Tenneco Oil Co. Supron Energy Corp. Amoco Production Co.	Federal No. 6 State Com AH No.30 Cooper No.3 Nye No. 17 Dudley Cornell A No. 1E Dudley Cornell A No. 1 Federal 13 No. 1 Pan American Federal	6-29-11 NWNE 36-30-12 NESE 6-29-11 NWSW 31-30-11 NWSE 1-29-12 SWNE 1-29-12 SWSE 31-30-11 SESW 31-30-11 SWSE
Texaco, Inc. Tenneco Oil Co.	Gas Com B No. 1 Federal State Com A No. 1 Cornell D No. 1E	32-30-11 SESW 12-29-12 NENE

R 12 W. RIIW 30 32 Fed. State Com. A \*1
Texaco ,Fed. GM Ludley Cornell A\*IE

Tenneco Dudley Cornell A\*1
Tenneco 12

OFFSET WELLS TO MESA
PETROLEUM CO.'S FEDERAL GM

#### UNITED STATES SUBMIT IN DUPLICATE. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

In. TYPE OF WELL:  OIL WELL OIL WELL OTHER	ENT NAME  SE NAME  OOL, OR WILDCAT
b. TYPE OF COMPLETION:  NEW WORK DEEP DLUG DIFF.  NEW WOLK OVER EN BACK EESVR. Other  2. NAME OF OPERATOR  Mesa Petroleum Co.  3. ADDRESS OF OPERATOR  1660 Lincoln Street, Suite 2800, Denver, CO 80264  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*  At surface 1750' FNL & 805' FWL  At top prod. interval reported below Same	OOL, OR WILDCAT
NEW WELL WORK DEEP DIFF. Other  2. NAME OF OPERATOR  Mesa Petroleum Co.  3. ADDRESS OF OPERATOR  1660 Lincoln Street, Suite 2800, Denver, CO 80264  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*  At surface 1750' FNL & 805' FWL  At top prod. interval reported below Same  At total death  8. FARM OR LEASE  6M  10. FIELD AND PO  11. SEC., T., R., M  OR AREA	ool, or wildcat
WELL OVER EN BACK EESVR. Other  8. FARM OR LEAST  Mesa Petroleum Co.  3. ADDRESS OF OPERATOR  1660 Lincoln Street, Suite 2800, Denver, CO 80264  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*  At surface 1750' FNL & 805' FWL  At top prod. interval reported below Same	ool, or wildcat
Mesa Petroleum Co.  3. ADDRESS OF OPERATOR  1660 Lincoln Street, Suite 2800, Denver, CO 80264  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*  At surface 1750' FNL & 805' FWL  At top prod. interval reported below Same	ta
3. ADDRESS OF OPERATOR  1660 Lincoln Street, Suite 2800, Denver, CO 80264  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*  At surface 1750' FNL & 805' FWL  At top prod. interval reported below Same	ta
1660 Lincoln Street, Suite 2800, Denver, CO 80264  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*  At surface 1750' FNL & 805' FWL  At top prod. interval reported below Same	ta
At total donth  4. Location of Well (Report location clearly and in accordance with any State requirements)*  Basin Dakot  1750' FNL & 805' FWL  At top prod. interval reported below Same	ta
At surface 1750' FNL & 805' FWL  At top prod. interval reported below Same	
At top prod. interval reported below Same	
S dille	
At total depth	*,
Same	
14. PERMIT NO. DATE ISSUED 12. COUNTY OR PARISH	13. STATE
5. DATE SPUDDED   16. DATE T.D. BEACHED   17. DATE COMPL. (Ready to prod.)   18. ELEVATIONS (DE REE PT. OR PTC.)   19.	New Mexico
Tot abbrations (br, aug, ar, da, brei)	). ELEV. CASINGHEAD
7/14/80   7/26/80   3/9/81   5808 GR ungraded	5808
6650' two DRILLED BY 0-6650'	1 -0-
24. PRODUCING INTERVAL(8), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*	25. WAS DIRECTIONAL
	SURVEY MADE
Graneros & Dakota 6439'-6594'	No-
6. TYPE ELECTRIC AND OTHER LOGS RUN 27.	WAS WELL CORED
GR-CBL, IES	No
S. CASING RECORD (Report all strings set in well)	
CASING SIZE WEIGHT, LB./FT. DEPTH SET (MD) HOLE SIZE CEMENTING RECORD	AMOUNT PULLED
8 5/8" 24# 273' 12½" 250 sxs Class "B"	
5 1/2" 15.5# 6648' 7 7/8" 925 sxs 50/50 poz, 465	
sxs 35/65 poz	-0-
9. LINER RECORD 30 TURING RECORD	
GITT TO CAR (NO.)	1
SIZE TOP (MD) BOTTCM (MD) SACES CEMENT SCREEN (MD) SIZE DEPTH SET (MD)  2 1/16" 6424'	6233'
1 1/2" 3669'	-0-
1. PERFORATION RECORD (Interval, size and number) 82. ACID, SHOT, FRACTURE, CEMENT SQ	
NEDRAL INTERPRETATION	
394 , 40 , 40 , 42 , 37 , 35 , 32 , 27 , 6501 6430 1-4 Core 62 000	
1', 21', 6456', 42', 39', ( <b>13 h</b> oles), 40" diameter	/20 sd. 2nd fra
21,638 gals x+link, 17,800 #10	0/20 sd w/600 f
per bbl of N2	
ATE FIRST PRODUCTION   PRODUCTI	
WELL STAT	rus (Producing or
N/A flowing shut-in)	shut-in
N/A   TIOWING	I CAR-OIL DIWIN
N/A TIOWING  ATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR O(L—BBL. GAS—MCF. WATER—BBL.	GAS-OIL RATIO
N/A   TIOWING  ATE OF TEST   HOURS TESTED   CHOKE SIZE   PROD'N. FOR TEST PERIOD   CHOKE SIZE   CHOKE SIZE   PROD'N. FOR TEST PERIOD   CHOKE SIZE   PROD'N. FOR TEST PERIOD   CHOKE SIZE   CHOKE SIZE   CHOKE SIZE   CHOKE SIZE   CHOKE SIZE   PROD'N. FOR TEST PERIOD   CHOKE SIZE   PROD'N. FOR TEST PERIOD   CHOKE SIZE   CHOKE SIZE   CHOKE SIZE   CHOKE SIZE   PROD'N. FOR TEST PERIOD   CHOKE SIZE	N/A
N/A  ATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR OIL—BBL.  4/3/81 24 hrs  CALCULATED LOW. TUBING PRESS.  CASING PRESSURE CALCULATED AO DSi  O  732 -0-  732 -0-  732 -0-  732 -0-  732 -0-  732 -0-	N/A GRAVITY-API (CORR.)
N/A   TIOWING  ATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR OIL—BBL. GAS—MCF. WATER—BBL.  4/3/81 24 hrs — 0- 732 -0-  LOW. TUBING PRESS. CASING PRESSURE CALCULATED OIL—BBL. GAS—MCF. WATER—BBL. OIL  40 DSi 0 — 732 — 0-	N/A GRAVITY-API (CORR.) N/A
N/A  ATE OF TEST HOURS TESTED CHOKE SIZE TEST PERIOD  4/3/81 24 hrs  CALCULATED 24-HOUR BATE  40 psi 0  ADISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  Vented for test purposes on V	N/A GRAVITY-API (CORR.) N/A
N/A   TIOWING   ATE OF TEST   HOURS TESTED   CHOKE SIZE   PROD'N. FOR TEST PERIOD   OIL—BBL.   GAS—MCF.   WATER—BBL.   $4/3/81$   $24$ hrs   $-0-$   $732$   $-0-$   Low. Tubing press.   Casing pressure   Calculated   $24$ -Hour rate   $24$ -Hour rate   $-0-$   $-$	N/A GRAVITY-API (CORR.) N/A
N/A TIOWING  ATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. $4/3/81$ 24 hrs $-0-$ 732 $-0-$ LOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE $-0-$ 732 $-0-$ 4. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  Vented for test purposes only  United for test purposes only $-0-$ 732 $-0 -0-$ 732 $-0-$ TEST WITNESSED J. Archer $-0-$ 732 $-0-$	N/A GRAVITY-API (CORR.) N/A BY
N/A  ATE OF TEST HOURS TESTED CHOKE SIZE TEST PERIOD  4/3/81 24 hrs  CALCULATED 24-HOUR RATE  40 psi 0  ADSPOSITION OF GAS (Sold, used for fuel, vented, etc.)  Vantad for test purposes on N	N/A GRAVITY-API (CORR.) N/A BY

# INSTRUCTIONS

or both, pursuant as constant as a constant and a constant as a constant General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency

ltem 18: Indicate which elevations as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hem 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

SHOW ALL IMPOR	RTANT ZONES OF P TESTED, CUSHION	OROSITY AND CONTEN	BHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	38. GEOLO	GEOLOGIC MARKERS	 
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		F	TOP
			-	MANE	MEAS. DEPTH	TRUE VERT. DEPTH
Fruitland	1725'					
Pictured Cliffs	1984		-			
Cliff House	3580'				-	
Menefee	3709					
Pt. Lookout	4313'					·
Mancos	4595'					
Gallup	5590					
Graneros	6331'					
Dakota	6520	-				
		-				-
		,		-		-
				-		

871-233

## NEW MEXICO OIL CONSERVATION COMMSSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Туре		Initial			] Ar	mual			Speci	- 1	4 3		İ				
Comp						Connec	tion						-		-		
М	C.					Eb.	EPNG										
Pool							Formation Unit							ŀ			
BASIN DAKOTA  Completion Date  Total Depth					DA	DAKOTA  Plug Bock TD  Flevation  Farm or Lease Name											
	-19-81 Total Depth 6890			$\cap$	Plug Bock TD Elevation 5808.					FED		1146	1				
Csq.		WI.					´ •				Well No.						
	5.500		.5	4.950		6626	.	From	6439.	T	• (	5594	4.	64			
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			FL	OW DATA					<del></del>		DATA	-		SING			uration
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	Coefficient — VhwPm				Pressure Factor Co					1	Super Rate of Flow						
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		T_	1			z	Gas	Liquid H	ydrocarbon f	Ratio	>			•)•			Mc[/bb].
NO.	P <sub>t</sub>		p. *R	T <sub>e</sub>	<del>~- 7</del>	•	A.P.	.I. Gravity	of Liquid 1	Hydro	ocarbons			0. .673	<del></del>		Deg.
1.	0.08	1515	•	1.35	()• 9	233	Spec	cific Grav	Ity Separato	r Ga	*				() • (	<u> </u>	XXX
3.							Spen	cilic Grav	ity Flowing	Flui	<sup>1d</sup> <u> </u>	) • ×	<u> </u>	D.C.1	<u>, 60</u>	9.	P.S.I.A.
4.							Crit	ical Temp	eralure		उडा	•		F.S.I	R 3-	Π.	R
5.																	<u></u> -
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Approved By Commission: Conducted									1						7 5	m. E.	2

MESA PETROLEUM CO. FEDERAL 6M SEC. 6 - T29N - R11W SAN JUAN CO., NM 8 5/8" csg set @ 273' Cmt top @ 400' 1½" tbg set @ 3669' MV Perfs: 3676' - 3700' w/2 holes/ft. 3668' - 3683' w/l hole/ft.  $5\frac{1}{2}$ " csg set 0 6648' 2 1/16" tbg set @ 6424' DK Perfs: 6439' - 6594' 13 holes PBTD 6626' דח ה בבבתי