

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well ☐ Oil Well ☐ Gas Well ☒ Other SWD		3. Lease Serial No. SF-07933
2. Name of Operator NM&O Operating Company		6. If Indian, Allottee or Tribe Name
3a. Address 6 East Fifth, #200, Tulsa, OK	3b. Phone No. (include area code) 918-584-3802	7. If Unit or CA/Agreement, Name and/or No. 30-039-23231
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1450' FSL & 1520' FWL Sec. 24-T25N-R2W		8. Well Name and No. Rucker Lake #2SWD
		9. API Well No.
		10. Field and Pool, or Exploratory Area Gavilan Gallup Extension
		11. County or Parish, State Rio Arriba

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recombine	☒ Other <u>Convert to SWD</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Converted to SWD in the Morrison Formation as follows:

1. Held safety meeting.
2. Pull out of hole with tubing.
3. Ran cement retainer on 2-3/8" tubing to top of perforations @ 6749'.
4. Pumped 42 barrels cement down tubing - tag TOC @ 6749' & circulate hole.
5. Drilled out cement to 8428' and circulate hole clean.
6. Pulled out of hole with bit & tubing.
7. Ran packer on workstring & set @ 7521' - pressure test back side to 590 psig - held OK. Pulled out of hole with workstring.
8. Ran in hole with AD-1 plastic coated packer on 2-3/8" plastic coated tubing & set @ 8012'.
9. Pumped 75 barrels lease water down tubing @ 600-650 psig.
10. Conversion to SWD operations completed 10/16/97 - Test in rate 1.2 BPM @ 650 psig.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Larry D. Sweet

Title

President

Signature

Date

12/11/97

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

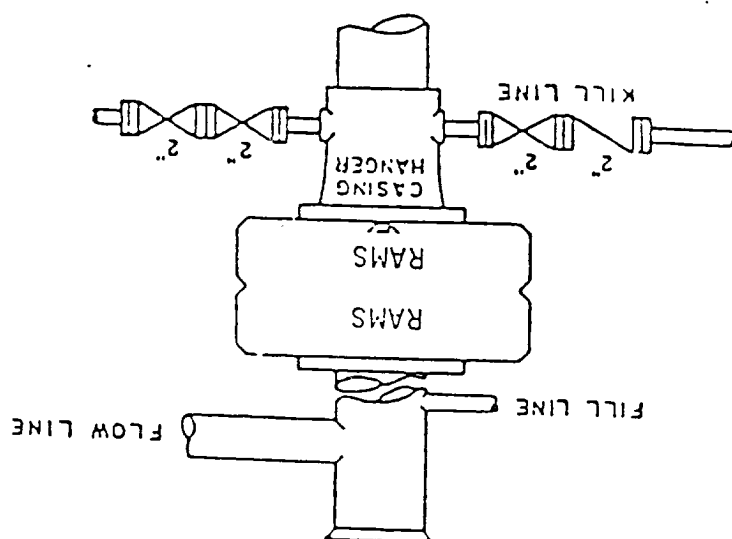
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations or to any matter within its jurisdiction.

(Instructions on on reverse)

BOP ARRANGEMENT

3000 PSI WORKING PRESSURE

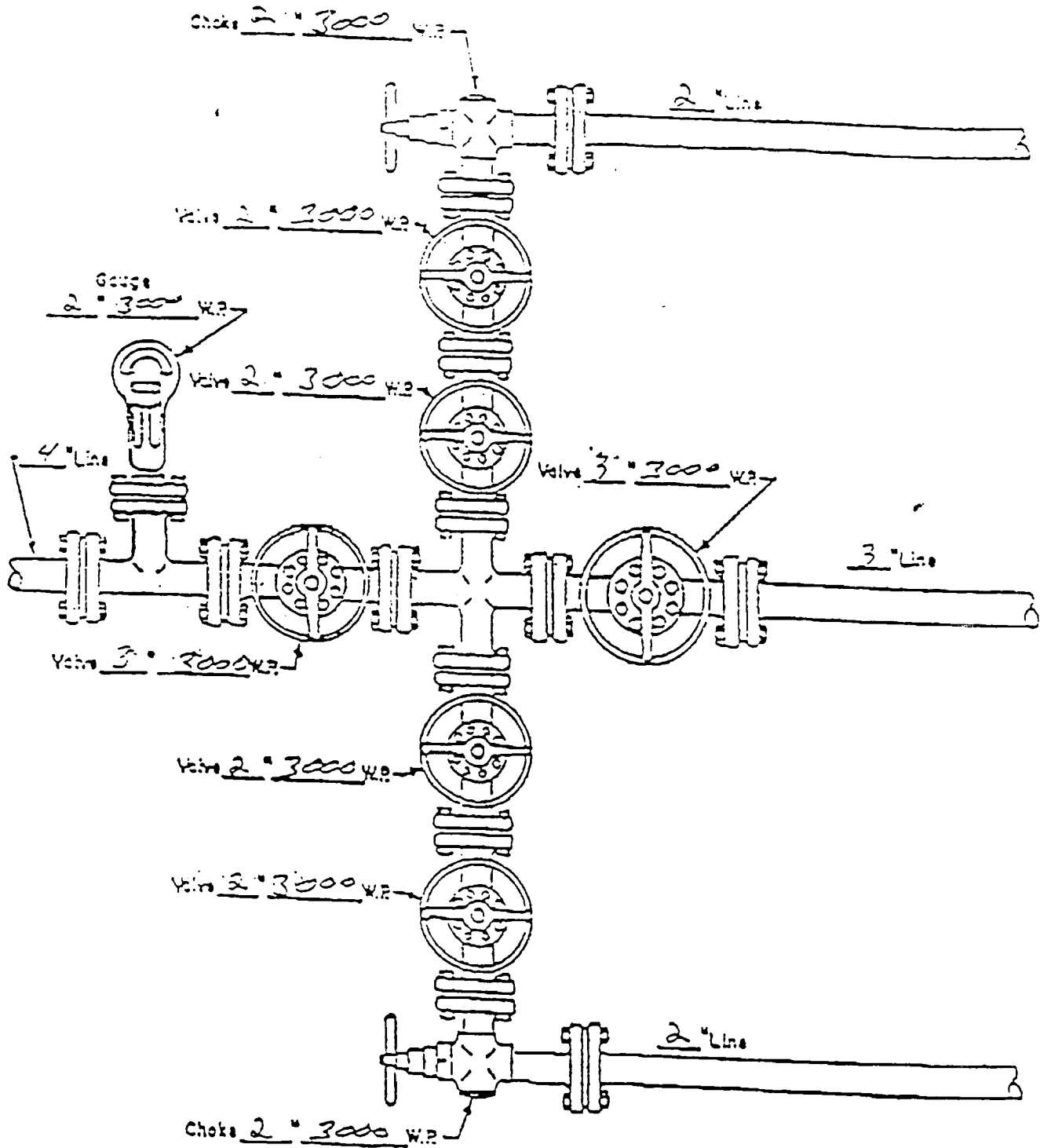
BOP STACK



Name	Acct	Rev-011	Rev-Gas	Marktg	Gath	Other	Net	DST	SUS	RET
NM&O OPERATING COMPANY										
6 EAST FIFTH, SUITE 200 TULSA, OKLAHOMA 74103 (918) 584-3300										
CHRIS PHILLIPS	0 0.02250000	5.63	10.38	0.00	1.19	0.00	0.00	0.00	0.00	N Y
LM WICKES AGENT	0 0.01090000	2.59	4.63	0.00	0.53	0.00	0.00	0.00	0.00	L N
CORP.										
ARRISON	December 10 0.1251251997	7.45	13.76	0.00	1.58	0.00	0.00	0.00	12.18	Y N Y
LLC										
MESA GRANDE	W 0.56643750	141.61	261.95	0.00	30.04	0.00	0.00	0.00	231.41	Y N Y
LTD.										
M & O	W 0.21875000	54.60	106.98	0.00	11.62	0.00	0.00	0.00	89.36	Y N N
Bureau of Land Management										
435 Montano N.E.										
** Lease/Well...	0.00000000	461.56	0.00	46.41	0.00	0.00	0.00	0.00	415.15	
RE: Sundry Notice - Form 3160-5										
RUCKER LAKE #2 SWD	57.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.69	Y N N
MANAGEMENT	Sec. 24-T25N-R2W									
MESA GRANDE	Rio Arriba County, NM	87.87	0.00	46.41	0.00	0.00	0.00	0.00	357.46	Y N Y
LTD.										
** Lease/Well...	0.00000000	250.00	461.56	0.00	46.41	0.00	0.00	0.00	415.15	
Enclosed is the above referenced form, in triplicate, for the subsequent report of work completed to convert the Rucker Lake #2 to salt water disposal.										
RITA L. BOK	121.70	0.00	13.64	0.00	0.00	0.00	0.00	0.00	108.06	Y L
TRUST, BOK										
CRESTONE ENERGY	0.00000000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y L N
CORPORATION										
JAMES B	0.01171095	17.59	32.43	0.00	3.63	0.00	0.00	0.00	28.80	Y L Y
FULLER										
Sincerely,										
FLORA L. G	0.04166667	62.50	115.39	0.00	12.93	0.00	0.00	0.00	182.46	Y L N
WAYNE L. HAYLEY										
KAISER-FRANCIS	0.05859367	88.01	162.26	0.00	18.18	0.00	0.00	0.00	144.88	Y L N
OIL CO.										
Deborah Greenwich										
PETER R. LAND ASSISTANT	5.87	10.82	0.00	1.21	0.00	0.00	0.00	0.00	9.61	Y L N
LONING CO-EXE.										
SHEAR, INGL	0.00585933	8.80	16.23	0.00	1.82	0.00	0.00	0.00	14.41	Y L N
MURTING	1171095	17.59	32.43	0.00	3.63	0.00	0.00	0.00	28.80	Y L Y
CAROL N. WALKER										
JOSEPH RAZZOLA	0 0.00085933	1.29	2.38	0.00	0.27	0.00	0.00	0.00	2.11	Y L N
BENSON-MARTIN-E	W 0.05529787	83.06	153.14	0.00	17.16	0.00	0.00	0.00	135.93	Y L Y
REER										
CHEYERNE	W 0.03785343	56.86	104.83	0.00	11.75	0.00	0.00	0.00	93.88	Y L Y
PARTNERS V,										
CRESTONE ENERGY	W 0.01562453	23.47	43.27	0.00	4.85	0.00	0.00	0.00	38.42	Y L Y
CORPORATION										
FLOYD OIL	W 0.00511533	7.98	14.17	0.00	1.59	0.00	0.00	0.00	12.58	Y L Y
COMPANY										
MESA GRANDE	W 0.06649341	101.11	1901.11	0.00	218.91	0.00	0.00	0.00	1688.10	Y N Y
LTD.										
M & O	W 0.01664323	27.98	51.16	0.00	5.71	0.00	0.00	0.00	45.33	Y L Y
OPERATING										
** Lease/Well...	0.00000000	1902.43	2189.43	0.00	218.91	0.00	0.00	0.00	1688.10	

Choke Manifold

Exhibit 1



MANIFOLD
3000 # W.P.

- ☒ Manual
- ☐ Hydraulic

Exhibit 1

DRILLING PROGRAM

Attached to Form 3160-3
Mallon Oil Company
Jicarilla 457-4 No. 2
1510 FSL and 2400' FWL (NE SW) Unit K
Sec. 4, T30N-R3W
Rio Arriba County, New Mexico

Lease Number: Jicarilla 457

1. Geologic Name of Surface Formation : San Jose
2. Estimated Tops of Important Geologic Markers

San Jose	Surface
Ojo Alamo	3222'
Kirtland	3454'
Fruitland	3690'
Pictured Cliffs	3797'
Lewis	3887'
Mesa Verde	5997'
Mancos	6328'
Total Depth	6500'

3. The Estimated Depths of Anticipated Fresh water, Oil or Gas:

San Jose	50'	Fresh Water
Ojo Alamo	3222'	Gas
Fruitland	3690'	Gas
Pictured Cliffs	3797'	Gas
Mesa Verde	5997'	Gas

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 8-5/8" casing at 500' and circulating cement back to surface.