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Form C-105
Revised 11-1-8

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State ☐ Fee ☒

5. State Oil & Gas Lease No.

RECEIVED

Bureau of Mines

1a. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER OCT 19 1977

b. TYPE OF COMPLETION
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER G.C.C.

2. Name of Operator
NORTHERN NATURAL GAS COMPANY
ARTESIA, OFFICE

3. Address of Operator
403 Wall Towers West, Midland, Texas 79701

4. Location of Well
UNIT LETTER J LOCATED 2180 FEET FROM THE EAST LINE AND 1880 FEET FROM

THE South LINE OF SEC. 6 TWP. 20-S RGE. 26-E NMPM
12. County Eddy

15. Date Spudded 7-9-77 16. Date T.D. Reached 8-15-77 17. Date Compl. (Ready to Prod.) 10-7-77 18. Elevations (DF, RKB, RT, GR, etc.) 3325' GR 19. Elev. Casinghead 3325'

20. Total Depth 9850' 21. Plug Back T.D. 9780' W.L. 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools 0-9850 Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name 9498, 9601, Morrow 25. Was Directional Survey Made No

26. Type Electric and Other Logs Run DLL, CNL/FDC, GR/CCL 27. Was Well Cored No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5, 61, 72	367	17-1/2"	550 SX	None
9-5/8"	40, 43.5	1600	12-1/4"	800 SX	None
5-1/2"	14, 15.5, 17	9850	8-1/2"	300 SX	None

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SIZE	DEPTH SET	PACKER SET

31. Perforation Record (Interval, size and number)
1 - 0.42" JS @ 9498; 9501, 33, 37, 55, 57, 59; 9601' (Total - 8 holes)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL 9498-9601 AMOUNT AND KIND MATERIAL USED
150 gals 10% acetic acid;
4000 gals 7.5% HCL acid;
15,000 # 20-40 & 12,000 #
100 mesh Sd in 15,000 gals gell

33. PRODUCTION
Date First Production 9-2-77 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Shut In

Date of Test 10-7-77 Hours Tested 3 Choke Size 1/2" Production For Test Period Oil - Bbl. Gas - MCF Water - Bbl. Gas - Oil Ratio
Flow Tubing Press. 36 Casing Pressure Calculated 24-Hour Rate Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API (Corr.)
227.27

34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented Test Witnessed By Don Holland

35. List of Attachments
DST's & Deviation Survey

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.
SIGNED J. McDonald TITLE District Director, Engineering DATE October 17, 1977

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 115.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____	T. Atoka <u>9071' (-5734)</u>	T. Fictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>553' (+2784)</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>1020' (+2317)</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta <u>2762' (+575)</u>	T. McKee _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs <u>4314' (-977)</u>	T. Wingate _____	T. _____
T. Wolfcamp <u>6610' (-3273)</u>	T. Wolfcamp Lm <u>7008' (-3671)</u>	T. Chinle _____	T. _____
T. Penn. <u>7834' (-4497)</u>	T. Morrow <u>9485' (-6148)</u>	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

No. 1, from <u>9496</u> to <u>9508</u>	OIL OR GAS SANDS OR ZONES	No. 4, from <u>9600</u> to <u>9606</u>
No. 2, from <u>9530</u> to <u>9540</u>		No. 5, from _____ to _____
No. 3, from <u>9553</u> to <u>9560</u>		No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____	feet. _____
No. 2, from _____ to _____	feet. _____
No. 3, from _____ to _____	feet. _____
No. 4, from _____ to _____	feet. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	553	553	Conglomerate & Rod Beds				
553	1020	467	Sand & Dolomite				
1020	4030		Dolomite, Limestone, Chert				
4030	6610		Limestone, Sand & Shale				
6610	7008		Sand & Shale				
7008	9200		Limestone, Sand & Shale				
9200	9850		Limestone, Sand, Shale & Chert				

WELL NAME AND NUMBER Moutray Com. No. 1

LOCATION 2180/E 1880/S Section 6, T20S, R26E, Eddy County, New Mexico
(New Mexico give U.S.T&R: Texas give S, BLK, SURV. and TWP)

OPERATOR Northern Natural Gas Co.

DRILLING CONTRACTOR MORANCO

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees and Depth</u>		<u>Degrees and Depth</u>		<u>Degrees and Depth</u>		<u>Degrees and Depth</u>	
<u>1/4</u>	<u>248</u>	<u>2</u>	<u>3575</u>	<u>3 3/4</u>	<u>5008</u>	<u>3/4</u>	<u>6581</u>
<u>1/4</u>	<u>367</u>	<u>2</u>	<u>3732</u>	<u>3 3/4</u>	<u>5069</u>	<u>1</u>	<u>7055</u>
<u>1/2</u>	<u>864</u>	<u>2</u>	<u>3930</u>	<u>3</u>	<u>5133</u>	<u>1</u>	<u>7569</u>
<u>1/2</u>	<u>1300</u>	<u>3/4</u>	<u>4047</u>	<u>2 3/4</u>	<u>5205</u>	<u>1</u>	<u>7978</u>
<u>1/4</u>	<u>1785</u>	<u>3/4</u>	<u>4154</u>	<u>2 1/2</u>	<u>5392</u>	<u>1</u>	<u>8779</u>
<u>1</u>	<u>2318</u>	<u>1 3/4</u>	<u>4404</u>	<u>3</u>	<u>5447</u>	<u>1/4</u>	<u>9324</u>
<u>1</u>	<u>2567</u>	<u>2</u>	<u>4518</u>	<u>2 3/4</u>	<u>5570</u>	<u>1</u>	<u>9625</u>
<u>1 3/4</u>	<u>2818</u>	<u>2 1/2</u>	<u>4654</u>	<u>2 1/4</u>	<u>5675</u>	<u>1</u>	<u>9850</u>
<u>2</u>	<u>2976</u>	<u>3</u>	<u>4746</u>	<u>2 1/2</u>	<u>5729</u>		
<u>2</u>	<u>3134</u>	<u>3</u>	<u>4840</u>	<u>2 1/2</u>	<u>5856</u>		
<u>2 1/4</u>	<u>3291</u>	<u>3 1/2</u>	<u>4920</u>	<u>2 1/4</u>	<u>5990</u>		
<u>2</u>	<u>3448</u>	<u>3 1/2</u>	<u>4935</u>	<u>1 3/4</u>	<u>6340</u>		

Drilling Contractor MORANCO

By Jerry Gilbert
Jerry Gilbert, Drilling Engineer

Subscribed and sworn to before me this 29th day of August 19 77

My Commission expires:

April 1, 1978

Naime L. L. L. L.
Notary Public
Lea County, New Mexico

DRILL STEM TESTS

Northern Natural Gas Company
Moutray Com. No. 1
2180' FEL, 1880' FSL of Sec 6,
T-16S, R-26E
Eddy County, New Mexico

DST No. 1 - 7030-55' (Wolfcamp)

TO 15", SI 60", TO 60", SI 180". Strong blow initially w/16 psi in 15".
GTS immed on second flow @ max rate of 40 MCFPD. Recovered- 1/2 bbl wtr.
cut oil & 3 bbls DF. Sampler- 1.032 CF gas & 1150 cc condensate @ 150 psig.
Pressures- HH 3310-3319, IFP 79-119, ISI 3045, FF 79-132, FSI 2806.

DST No. 2 - 9470-9625' (Morrow)

TO 15", SI 60", TO 60" SI 180". Strong blow initially w/12 psi in 15".
GTS after 6" of FF @ max rate of 132,600 CFPD. Recovered - 235' DF.
Sampler - 0.3 CFG @ 125 psig. Pressures - HH 4675 - 4675, IF 131-175,
ISI 4017, FF 175-175, FSI 3996.

DST No. 3 - 9470-9850' (Morrow)

TO 90", SI 80", TO 240", SI 360". Good blow initially incr to strong in
3" w/GTS in 45" TSTM. GTS during second flow @ max rate of 163 MCFPD.
Recovered - 7 bbls GCDF. Sampler - 13.67 CFG & 100 cc DF @ 550 psi.
Pressures - HH 4602-4602, IF 88-88, ISI- 3958, FF 155-729, FSI 3870.