

N. M. O. C. C. COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(See instructions on reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other RECEIVED		5. LEASE DESIGNATION AND SERIAL NO. NM-16622-A	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other APR 27 1976		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Northern Natural Gas Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 401 Wall Towers West, Midland, Texas 79701		8. FARM OR LEASE NAME McGruder Hill Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980' FNL & 660' FEL of Sec. 13 At top prod. interval reported below At total depth 1980' FNL & 660' FEL of Sec. 13.		9. WELL NO. 1	
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Wildcat	
DATE ISSUED		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 13, T-22-S, R-25-E	
15. DATE SPUDDED 3-16-76		12. COUNTY OR PARISH Eddy	
16. DATE T.D. REACHED 4-18-76		13. STATE N. Mex.	
17. DATE COMPL. (Ready to prod.) P+H 4-20-76		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3800' RKB	
19. ELEV. CASINGHEAD 3778'		20. TOTAL DEPTH, MD & TVD 11,650'/11,650'	
21. PLUG, BACK T.D., MD & TVD -		22. IF MULTIPLE COMPL., HOW MANY* -	
23. INTERVALS DRILLED BY 0-11,650'		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None - P&A	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Neutron-Formation Density & Dual Laterolog	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
29. LINER RECORD		30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
33.* PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
35. LIST OF ATTACHMENTS		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED <i>John Donald</i>		TITLE Dir. of Engineering	
DATE 4/27/76		DATE 4/27/76	

* (See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

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 or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary report is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 33.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 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. Items 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, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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.

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

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DUAL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION TEST, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
DST #1 Atoka	10,300	10,510	Open 90" rec 180' DM in drill pipe & 2300 cc DM in sample chamber, 1' ISIP 224#, FP 173-186#, 2' FSIP 224 GTS 57" @ TSTM	Delaware Sand	2720'	+ 1080'
DST #2 Morrow	10,990	11,080	Open 83" rec 945' DM in drill pipe & 1500 cc fluid(127,000 ppm CI) & 0.71 cu ft G @ 225 psi in sample chamber, 95" ISIP 5594#, FP 184-447#, 180" FSIP 5581# GTS 55" @ TSTM	Brushy Canyon	3628'	+ 172'
DST #3 Morrow	11,080	11,250	Open 82" rec 473' DM in drill pipe & 0.12 cu ft G in sample chamber @ 6 psi, 90" ISIP 3534#, FP 232-232#, 180" FSIP 3868#	Bone Spring	5000'	- 1200'
DST #4 Morrow	11,240	11,385	Open 75" rec 90' DM in drill pipe & 2440 cc G @ 350 psi in sample, 90" ISIP 678#, FP 160-162#, 180" FSIP 1820#	Wolfcamp	8203'	- 4403'
DST #5 Morrow	11,380	11,600	Open 60" rec 465' DM in drill pipe & 2300 cc DM in sampler, 90" ISIP 712#, FP 396-409#, 180" FSIP 658#	Clisco	9500'	- 5700'
				Canyon	9944'	- 6144'
				Strawn	10210'	- 6410'
				Atoka	10300'	- 6500'
				Middle Atoka	10660'	- 6860'
				Morrow	11048'	- 7248'