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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)		5a. Indicate Type of Lease State ☐ Fee ☒ 5. State Oil & Gas Lease No.
1. OIL WELL ☒ GAS WELL ☐ OTHER- 2. Name of Operator CONOCO INC. 3. Address of Operator P. O. Box 460, Hobbs, N.M. 88240 4. Location of Well UNIT LETTER <u>A</u>, <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM THE <u>East</u> LINE, SECTION <u>23</u> TOWNSHIP <u>20 N</u> RANGE <u>12 W</u> N.M.P.M.	7. Unit Agreement Name 8. Farm or Lease Name <u>NMALCO 23</u> 9. Well No. <u>1</u> 10. Field and Pool, or Wildcat <u>Entrada</u>	
15. Elevation (Show whether DF, RT, GR, etc.)	12. County <u>McKinley</u>	

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☒
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☐	OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

The subject well was P & A'd as follows:

West Water Canyon - set retainer at 3695', squeezed perfs 3742'-3824' w/ 50sx cmt, spot 5sx on retainer. Dakota - set retainer at 3287', squeezed perfs 3222'-3370' and 3394'-3416' w/ 35sx cement, spot 5sx on retainer. Set retainer 2283', squeezed perfs 2324'-2352' and 2362'-2372' w/ 50sx cmt, spot 5sx on retainer. Set plug from 2283'-2100' w/ 22sx cmt, set plug 1480'-1180' w/ 33sx cmt, set plug 550'-350' w/ 22sx cmt, set plug 90'-surface w/ 10sx cmt. Well P & A'd 1/20/82.

Well Completion Report & Log to follow.

NMOCDAztec will be notified when location is ready for inspection.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>Wm A. Bentley</u>	TITLE <u>Administrative Supervisor</u>	DATE <u>1/22/82</u>
Original Signed by CHARLES GHOLSON	DEPUTY OIL & GAS INSPECTOR, DIST. #3	DATE <u>APR 29 1982</u>
APPROVED BY _____	TITLE _____	DATE _____

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

Form C-105
Revised 11-1-82

1a. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ DRY ☒ OTHER _____		5a. Indicate Type of Lease State ☐ Fee ☒	
b. TYPE OF COMPLETION NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ FLUG BACK ☐ DIFF. RESVR. ☐ OTHER _____		7. Unit Agreement Name	
2. Name of Operator CONOCO INC.		8. Farm or Lease Name NMALCO 23	
3. Address of Operator P. O. Box 460, Hobbs, N.M. 88240		9. Well No. 1	
4. Location of Well UNIT LETTER A LOCATED 660 FEET FROM THE North LINE AND 660 FEET FROM THE East LINE OF SEC. 23 TWP. 20N RGE. 12W N.M.P.M.		10. Field and Pool, or Wildcat Entrada	
15. Date Spudded 11/26/81		12. County McKinley	
16. Date T.D. Reached 12-4-81		13. Elevations (DF, RKB, RF, GR, etc.) 6321' GR	
17. Date Compl. (Ready to Prod.) —		19. Elev. Casinghead —	
20. Total Depth 4730'		21. Plug Back T.D. 3830'	
22. If Multiple Compl., How Many —		23. Intervals Drilled By Rotary Tools	
24. Producing Interval(s), of this completion — Top, Bottom, Name Dry hole - Well P&A'd		25. Was Directional Survey Made Yes	
26. Type Electric and Other Logs Run FDC - CNL, CBL, Sidewall core		27. Was Well Cored Yes - sidewall	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE
9 5/8"	36#	443'	12 1/4"
5 1/2"	17#	3850'	8 3/4"
		225sx	
		1610 sx in 2 stages	
		Dr Tool @ 2091'	
		AMOUNT PULLED	
		86615	
		66615	
29. LINER RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT
—		NONE	—
30. TUBING RECORD			
SIZE	DEPTH SET	PACKER SET	
—		NONE	
31. Perforation Record (Interval, size and number) NONE		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
		NONE	
33. PRODUCTION			
Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump) Well P&A'd		Well Status (Prod. or Shut-in)
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period
			Oil — Bbl. Gas — MCF
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil — Bbl. Gas — MCF
			Water — Bbl. Gas — MCF
34. Disposition of Gas (Sold, used for fuel, vented, etc.)		35. List of Attachments	
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 WMA Butterfield		TITLE Administrative Supervisor	DATE 1-21-83

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JAN 25 1983
OIL CON. DIV.
DIST. 3

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 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 1105.

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" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee <u>surface</u>	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout <u>1178</u>	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos <u>1318</u>	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup <u>2323</u>	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn <u>3176</u>	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota <u>3200</u>	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison <u>3472</u>	T. _____
T. Tubb _____	T. Granite _____	T. Todilto <u>4508</u>	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada <u>4517</u>	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ 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 Gallup (2324-2372 Perfs) to Flowed 100% wtr at 25 bbls/m Rest. 1.89 @ 70° F

No. 2, from Dakota (3322-2416 Perfs) to Flowed 100% wtr @ 20 bbls/m Rest. 9.4 @ 62° F

No. 3, from Westwater Canyon (3742-3824) to Flowed 100% wtr @ 50 bbls/m Rest. 9.8 @ 62° F

No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surface	1178	1178 +	Menefee: Interbedded sands and shales w/ some coals.	3200	3472		Dakota: Sand with some shale.
1178	1318		Point Lookout: Sand with some silt and shale. trace of coal.	3472	4508		Morrison: Sand and shale
1318	2323		Mancos: Shale and siltstone with some sand.	4508	4517		Todilto: Limestone.
2323	2525		Gallup: Sand with minor siltstone and shale	4517	4684		Entrada: Sand.
2525	3109		Mancos: Shale	4684	4731 TO		Carmel: shale.
3109	3176		Greenhorn: shale and limestone				
3176	3200		Graneros: shale				

CORE ANALYSIS RESULTS

Company CONOCO, INC. Formation See Below File RP-3-3167
 Well Nmalco 23-1 Core Type Sidewall Date Report 12-7-81
 Field Chaco Slope Drilling Fluid Gel Chem Analysts GG-DS
 County McKinley State N.M. Elev. 6321 GL Location NE, NE Sec. 23-20N-12W

Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLomite - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRA GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VUGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			

SIDEWALL ANALYSIS

POINT LOOKOUT FORMATION

1	1187	13.6	0.0	67.6	SD-LT GRY, f grn
2	1197	19.1	0.0	60.7	SD-LT GRY, f grn
3	1206	13.7	0.0	64.2	SD-GRY, f grn
4	1237	15.2	0.0	65.8	SD-GRY, f grn

HOSPAAH FORMATION

	2180	*	*	*	SHALE - NO ANALYSIS
5	2197	11.9	0.0	71.4	SD-WHT, vf grn, shl lam
6	2200	9.0	0.0	51.1	SD-GRY, vf grn, shl lam
7	2204	17.5	0.0	72.6	SD-GRY, vf grn, shl lam
8	2206	5.8	0.0	27.6	SD-GRY, vf grn, shl lam
9	2216	14.4	0.0	36.1	SD-GRY, vf grn, shl lam
	2220	*	*	*	Mud
10	2226	19.5	0.0	61.0	SD-GRY, vf grn, shl lam
	2230	*	*	*	Mud
11	2234	16.4	0.0	73.8	SD-GRY, vf grn, shl lam
12	2297	20.5	3.4	73.2	SD-GRY, vf grn, shl lam
13	2301	12.5	0.0	68.8	SD-GRY, vf grn, shly
14	2304	8.9	0.0	32.6	SD-GRY, vf grn, shl lam
15	2306	16.7	0.0	65.3	SD-GRY, vf grn, sl/shl lam
16	2311.9	12.8	0.0	28.1	SD-WHT, f grn
17	2312	11.3	8.8	54.9	SD-GRY, vf grn, shl lam
18	2318	10.2	0.0	27.2	SD-WHT, f grn

GALLUP FORMATION

19	2325.7	6.5	0.0	27.7	SD-WHT, f grn
20	2325.9	10.8	0.0	38.9	SD-WHT, f grn
21	2328	17.4	21.8	53.4	SD-LT BRN, f grn, flsnt
22	2346	19.3	0.0	62.7	SD-WHT, f grn
23	2349.9	10.0	0.0	34.0	SD-WHT, f grn
	2364	*	*	*	SD-GRY, m grn
	2368	*	*	*	SD-GRY, m grn
24	2406	17.3	0.0	89.6	SD-GRY, f grn
25	2408	17.4	0.0	85.1	SD-BRN, f grn
26	2410	19.0	0.0	84.7	SD-BRN, f grn
	2412	*	*	*	SD-BRN, f grn
	2414	*	*	*	SD-LT BRN, f grn

* Sample unsuitable for analysis

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations

CORE ANALYSIS RESULTS

Company CONOCO, INC. Formation See Below File RP-3-3167
 Well Nmalco 23-1 Core Type Sidewall Date Report 12-7-81
 Field Chaco Slope Drilling Fluid Gel Chem Analysts GG-DS
 County McKinley State N.M. Elev. 6321 GL Location NE, NE Sec. 23-20N-12W

Lithological Abbreviations

SAND-SD SHALE-SH LIME-LM	DOLOMITE-DOL CHERT-CH GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOS	SANDY-SBY SHALY-SHY LMY-LMY	FINE-FN MEDIUM-MED COARSE-CSE	CRYSTALLINE-XLN GRAIN-GRN GRANULAR-GRNL	BROWN-BRN GRAY-CY VUGGY-VGY	FRACTURED-FRAC LAMINATION-LAM STYLOLITIC-STY	SLIGHTLY-SL/ VERY-V/ WITH-W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PERCENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
27 28	2416		*	*	*	SD-LT BRN, f grn
	2424		*	*	*	SD-LT BRN, f grn
	2456		16.0	0.0	80.0	SD-GRY, f grn
	2476		21.2	0.0	76.9	SD-GRY, f grn, sl/shl
	2496		*	*	*	Mud
GRANEROS FORMATION						
29	3204		*	*	*	SD-GRY, vf grn, mud
	3206		18.1	0.0	90.1	SD-GRY, vf grn
	3210		*	*	*	SD-GRY, vf grn, mud
	3264		*	*	*	SD-GRY, vf grn, mud
	3276		*	*	*	SD-WHT/GRY, vf grn, mud
DAKOTA FORMATION						
30	3307.8		18.5	0.0	66.5	SD-WHT, m grn
31	3310		16.3	0.0	59.5	SD-WHT, m grn
32	3224.1		20.4	0.0	57.8	SD-BRN, m grn
	3327		*	*	*	SD-WHT, m grn
33	3359		15.1	0.0	77.5	SD-WHT, f grn
34	3360		14.4	0.0	86.1	SD-GRY, f grn
	3374		*	*	*	SD-WHT, m grn
35	3377		7.6	0.0	44.7	SD-WHT, f grn, sl/shl lam
	3396.2		*	*	*	SD-WHT, m grn,
ENTRADA FORMATION						
36	4528		5.5	0.0	40.0	SD-LT GRY, f grn
37	4538		14.6	0.0	58.2	SD-LT GRY, f grn, sl/shl lam
	4539.9		*	*	*	SD-GRY, f grn
38	4546		13.0	0.0	58.5	SD-BRN, f-m grn
39	4607		22.2	0.0	70.7	SD-BRN, f-m grn

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JAN 28 1982

CHACO SLOPE

* Sample unsuitable for analysis.

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