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Form C-105
Revised 1-1-65

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

OCT 18 1976

5a. Indicate Type of Lease
State ☒ Free ☐
5. State Oil & Gas Lease No.
E-1284-3

1a. TYPE OF WELL	OIL ☐ GAS ☒ ARTESIA, OFFICE ☐ DRY ☐ OTHER ☐
b. TYPE OF COMPLETION	NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

7. Unit Agreement Name
EMPIRE SOUTH DEEP UNIT
8. Form of Lease Name
EMPIRE SOUTH DEEP UNIT GAS COM
9. Well No.
10

2. Name of Operator	AMOCO PRODUCTION COMPANY
3. Address of Operator	P.O. DRAWER A, LEVELLAND, TEXAS 79336
4. Location of Well	O.C.C. ARTESIA, OFFICE

10. Field and Pool, or Without
EMPIRE MORROW-SOUTH

UNIT LETTER	G	LOCATED	1980	FEET FROM THE	NORTH	LINE AND	1980	FEET FROM
THE EAST LINE OF SEC.	1	TWP.	18-S	RGE.	28-E	NMPM		

11. County
EDDY

15. Date Spudded	7-26-76	16. Date T.D. Reached	9-5-76	17. Date Compl. (Ready to Prod.)	10-4-76	18. Elevations (DF, RKB, RT, GR, etc.)	3687.45 RDB	19. Elev. Casinghead	-
20. Total Depth	11,140	21. Plug Back T.D.	-	22. If Multiple Compl., How Many	-	23. Intervals Drilled By	Surf to TD	Cable Tools	-

24. Producing Interval(s), of this completion - Top, Bottom, Name	10,706' - 10,728' MORROW	25. Was Directional Survey Made	NO
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26. Type Electric and Other Logs Run	Dual Laterolog Micro-SFL, Compensated Neutron-Formation Density	27. Was Well Cored	NO
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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"	48 #	405'	17 1/2"	400 SX Class C - Circ 55 SX	
9 5/8"	32.3 & 36 #	2900'	12 1/4"	2200 SX Trinity LW & Class C - Circ 76 SX	
5 1/2"	15.5 & 17 #	11,140'	7 7/8"	2650 SX Trinity LW & Class A	

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

31. Perforation Record (Interval, size and number)	10,706' - 10,728' w/ 2 JSPP	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
		10,706 - 10,728	120 gal 10% Acetic Acid + additives

33. PRODUCTION														
Date First Production	9-22-76	Production Method (Flowing, gas lift, pumping - Size and type pump)	Flowing	Well Status (Prod. or Shut-in)	Shut-In									
Date of Test	10-4-76	Hours Tested	24	Choke Size	25/64	Prod'n. For Test Period	Oil - Bbl.	5	Gas - MCF	792	Water - Bbl.	0	Gas - Oil Ratio	158,400
Flow Tubing Press.	300	Casing Pressure	-	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)						

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	To BE SOLD - WELL Now SI.	Test Witnessed By	
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35. List of Attachments	Logs
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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.

4. NMOCC-ART	1- Di V	1- R SIGNED	Kay W. Cox	TITLE	Administrative Assistant	DATE	10-12-76
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1- Susp
20- Returns

INSTRUCTIONS

This form is to be filled 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 <u>9550'?</u>	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn <u>9720'?</u>	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka <u>10,210'</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Delaware <u>Third Bone Springs</u> <u>7420'</u>	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp <u>7530'</u>	T. <u>MIDDLE MORROW</u> <u>10,626'</u>	T. Chinle _____	T. _____
T. Penn. _____	T. <u>LOWER MORROW</u> <u>10,804'</u>	T. Permian _____	T. _____
T. Cisco (Bough C) <u>8910'?</u>	T. <u>CHESTER</u> <u>11,077'</u>	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	405	405	Surface				
405	875	470	Anhydrite & Salt				
875	1324	449	Anhydrite				
1324	1536	212	Anhydrite & Salt				
1536	1851	315	Anhydrite				
1851	2623	747	Anhydrite & Salt				
2623	2900	272	Anhydrite & Lime				
2900	2944	44	Lime				
2944	3173	229	Lime & Anhydrite				
3173	3300	126	Lime				
3300	3436	137	Lime & Anhydrite				
3436	4255	819	Lime				
4255	4425	170	Lime & Dolomite				
4425	5287	862	Lime				
5287	6320	1033	Lime & Dolomite				
6320	6420	100	Lime				
6420	6961	541	Dolomite & Sandstone				
6961	7472	511	Dolomite & Lime				
7472	8573	1101	Dolomite & Sand				
8573	8715	142	Shale & Lime				
8715	10725	2010	Lime				
10725	11064	339	Lime & Sand				
11064	11140	76	Lime & Sand				

ATTACHMENT TO FORM C-105

AMOCO PROD CO
EMP. S. D. P. UT. #10
G: 1-13-28

RECEIVED

OCT 13 1976

O. C. C.
ARTERIAL OFFICE

9-1-76 DST NO. 1, 10,630 - 10,730 MORROW

15 MIN PREFLOW - VERY WEAK BLOW OF AIR, NO GTS, INITIAL SIP 60 MIN, FLOW PERIOD - TO 90 MIN VERY WEAK BLOW OF AIR, IMMEDIATELY DIED IN 10 MIN, HEAD AND PICK UP IN 15 MIN, GTS IN 16 MIN, FLOW RATE 130 MCFD IN 25 MIN, 165 MCFD IN 60 MIN AND STABILIZING AT 180 MCFD IN 90 MIN. FINAL SIP 3 HRS, INITIAL HYDROSTATIC PRS 4942#, PREFLOW INITIAL BHPF 937# TO FINAL BHPF 924#, INITIAL 60 MIN BHP SI 1582#, FLW PERIOD INITIAL BHPF 937# TO FINAL BHPF 963, FINAL 180 MIN BHP SI 1556#, FINAL HYDROSTATIC PRS 4942#, BH TEMP 160 DEG F, REC 2000 FT WATER BLANKET AND 180 FT DRL, FL, BTM HOLE SAMPLER AT 720 PSI, REC 4.1 CU. FT. GAS, NO W, NO CONDENSATE, AND 560 CC DRL FL 35,000 PPM CHLORIDES.

9-3-76 DST NO. 2, 10,818 - 10,851 MORROW

15 MIN PRE FLOW - NO BLOW INCREASING TO VERY WEAK BLOW OF AIR IN 5 MIN TO FAIR BLOW IN 15 MIN, NO GTS, INVITAL SIP, 60 MIN, FLOW PERIOD - TO 60 MIN, FAIR BLOW OF AIR INCREASING TO STRONG BLOW IN 20 MIN X SLIGHT INCREASE THROUGHOUT REST OF TEST, NO GTS IN 60 MIN PERIOD, FINAL SIP 2 HRS, INITIAL HYDROSTATIC PRS 5031, PRE FLOW INITIAL BHPF 913 TO FINAL BHPF 900, INITIAL 60 MIN BHPSI 3498, FLOW PERIOD INITIAL BHPF 887 TO FINAL BHPF 862, FINAL 120 MIN BHPSI 3422, FINAL HYDROSTATIC PRS 5031, BHT 162 DEG F, REC 2000 FT WATER BLANKET AND 120 FT DRL FL VERY SLIGHTLY GAS CMT X CHLORIDES 45,000 PPM VS. MUD PIT CHLORIDES 45,000 PPM X WATER BLANKET CHLORIDES 350 PPM. BOTTOM HOLE SAMPLER AT 700 PSI - REC 4.7 CU FT. GAS, NO W, NO CONDENSATE, NO DRL FL.

9-10-76 DST NO. 3, 7979 - 8076 STRADDLE PKR TST WOLFCAMP

5 MIN PREFLOW. STRONG BLOW OF AIR, NO GTS, INITIAL SIP 60 MIN. FLW PERIOD - TO 43 MIN, STRONG BLOW OF AIR DIED IN 25 MIN, NO GTS, FINAL SI PRES 240 MIN. INITIAL HYDROSTATIC PRES 3839 PSI. PREFLOW INITIAL BHPF 434 PSI TO FINAL BHPF 1469 PSI. INITIAL 60 MIN BHPSI 2941 PSI, FLOW PERIOD INITIAL BHPF 1469 PSI TO FINAL BHPF 2916 PSI. FINAL 240 MIN BHPSI 2941 PSI STABILIZED, FINAL HYDROSTATIC PRES 3839 PSI. BHT 126 F. REC 190 FT OF DRL FL, 39,000 PPM CHLORIDE, 190 FT OF DRL MUD, 49,000 PPM CHLORIDES, 6255 FT W, 12,000 PPM CHLORIDES, NS O OR G. BH SAMPLER AT 0 PSI REC NO G, NO CONDENSATE, 2480 CC SW X CHLORIDES 11,500 PPM VS. PIT CHLORIDE 40,000 PPM.

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Supersedes Old
C-102 and C-103
Effective 1-1-65

SUNDARY NOTICES AND REPORTS ON WELLS RECEIVED

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	OCT 13 1976
2. Name of Operator AMOCO PRODUCTION COMPANY	D. G. C. ARTEBIA, OFFICE
3. Address of Operator P.O. DRAWER A, LEVELLAND, TEXAS 79336	
4. Location of Well UNIT LETTER <u>G</u> <u>1980</u> FEET FROM THE <u>NORTH</u> LINE AND <u>1980</u> FEET FROM THE <u>EAST</u> LINE, SECTION <u>1</u> TOWNSHIP <u>18-S</u> RANGE <u>28-E</u> N.M.P.M.	
15. Elevation (Show whether DF, RT, GR, etc.) <u>3687.45 RDB</u>	

5a. Indicate Type of Lease State ☒ Fee ☐
5. State Oil & Gas Lease No. <u>E-1284-3</u>
7. Unit Agreement Name <u>EMPIRE SOUTH DEEP UNIT</u>
8. Name of Leaseholder <u>EMPIRE SOUTH DEEP UNIT</u> <u>GAS COM</u>
9. Well No. <u>10</u>
10. Field and Pool, or Subunit <u>UNDESIGNATED - MORROW</u>
12. County <u>EDDY</u>

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

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.

OC Service Unit 9-17-76. WOC 96 hours. Test 5 1/2" casing w/ 3000# 30 min, OK.
Spot 120 gal 10% Acetic Acid + 10 gal L42 per thousand gal. + 2 gal F75 per
thousand gal + 4 gal A186 per thousand gal. Run Gamma Ray Corr. Log 11090'-
10100'. Perf Morrow 10706' - 10728 w/ 2 JS PF. Run tubing dry w/ Schlumberger
Pact Tool. Packer set at 10581', Recover tubing plug and drop sinker bar.
Gas to surface 19 minutes. Evaluated.
Potential Test - 24 hrs., Flw 792 mcf x 5 BO x 0 BW on 25/64" CH. TPF 300#.

Comp - 10/4/76
TD - 11,140'

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

SIGNED <u>Ray W. Cox</u>	TITLE <u>Administrative Assistant</u>	DATE <u>10/12/76</u>
APPROVED BY <u>W. A. Gressett</u>	TITLE <u>SUPERVISOR, DISTRICT II</u>	DATE <u>OCT 18 1976</u>
CONDITIONS OF APPROVAL, IF ANY: 1-RC 20-Partners		