

**OIL CONSERVATION COMMISSION**

P. O. BOX 871

SANTA FE, NEW MEXICO

May 15, 1961

**Sunray Mid-Continent Oil Company**  
**P. O. Box 128**  
**Hobbs, New Mexico**

**Attention: Mr. C. T. McClanahan**

**Gentlemen:**

Reference is made to your letter of April 28, 1961, wherein you point out that Sunray Mid-Continent's N. M. State "Y" Well No. 2, authorized by the Commission in Order No. R-1892 to be dually completed as a Yates and Queen-Grayburg producer in the Culwin area, had been completed as a single producer in the Yates.

Inasmuch as a single string tubingless producer from the Yates is eligible for approval in this area, your single zone completion is satisfactory.

Approval thereof is hereby granted.

Very truly yours,

**A. L. PORTER, Jr.**  
**Secretary-Director**

**ALP/DSM/ir**

**cc: Mr. M. L. Armstrong**  
**Oil Conservation Commission**  
**Artesia, New Mexico**

**Case File No. 2194**

# SUNRAY MID-CONTINENT OIL COMPANY

P. O. BOX 128  
HOBBS, NEW MEXICO

April 28, 1961

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Attention: Mr. D. S. Nutter

Subject: Sunray Mid-Continent Oil Company  
N. M. State "Y" No. 2 Section 32-  
T18S-R31E, Eddy County, New Mexico

Gentlemen:

In accordance with the suggestion of Mr. D. S. Nutter in telephone conversation with D. E. Berry, Jr. of Sunray Mid-Continent Oil Company on April 20, 1961, we are submitting this letter concerning the completion of subject well.

This well was approved for a tubingless dual completion by Order No. R-1892 dated March 3, 1961. Upon drilling the well to total depth, it was determined that the proposed lower pay (Queen-Grayburg) was non-commercial. It was therefore necessary to use only one string of 2 7/8" OD casing to effect a single completion in the pay of the Culwin-Yates Pool.

The well has now been completed and potentialized. Details of the work are shown on the attached Forms C-103, C-105.

Please advise if any further data or procedure are necessary for approval of this well.

Sincerely,

SUNRAY MID-CONTINENT OIL COMPANY

*C. T. McClanahan*  
C. T. McClanahan  
District Manager

DEB/db

cc: District 2 NMOCC - Artesia w/attachments  
SMC - Midland, Texas w/attachments



D-X SUNRAY OIL COMPANY IS A WHOLLY-OWNED REFINING & MARKETING SUBSIDIARY

## NEW MEXICO OIL CONSERVATION COMMISSION

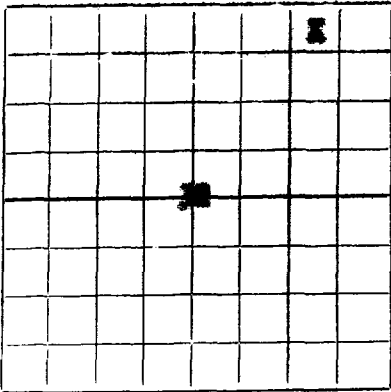
FORM C-103  
(Rev 3-55)

## MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company <b>Sunray Mid-Continent Oil Company</b>				Address <b>P. O. Box 128 Hobbs, New Mexico</b>			
Lease <b>N. M. State "Y"</b>		Well No. <b>2</b>	Unit Letter <b>A</b>	Section <b>22</b>	Township <b>28S</b>	Range <b>31E</b>	
Date Work Reported <b>3/11 - 4/21/61</b>		Pool <b>Calvin Yates</b>			County <b>Lea</b>		
THIS IS A REPORT OF: (Check appropriate block)							
<input type="checkbox"/> Beginning Drilling Operations		<input checked="" type="checkbox"/> Casing Test and Cement Job		<input checked="" type="checkbox"/> Other (Explain): <b>Completion work</b>			
<input type="checkbox"/> Plugging		<input type="checkbox"/> Remedial Work					
Detailed account of work done, nature and quantity of materials used, and results obtained.							
<p>1. Drilled to TD 3743' (8" hole to 3000' and 6 1/2" hole to TD 3743'). Plugged hole back to 3475' w/pea gravel, 3425-75' w/15' oil cut, and 3425-2920' w/pea gravel.</p> <p>2. Ran 2 7/8" buttress thru casing to 2911'. Used centralizers 30' spacing TD up to 2500'. Cemented w/325 oil base cement 25 gal. Temperature survey showed cement @ 1845'. Plug down 5445 P.M. 4/21/61.</p> <p>3. WCE 24 hrs and pressure tested casing to 3000 psi.</p> <p>4. Perforated 2 holes at 2610-30', 2644-84', 2688-93', 2696-98', 2701-03', 2706-09'.</p> <p>5. Fractured zone with 20,000 gal refined oil and 42,000# sand.</p> <p>6. Will start producing production.</p> <p>* Non-commercial show in Queen-Grayburg section. Therefore, we did not run 2 strings of casing as planned.</p>							
Witnessed by <b>C. W. Moberly</b>		Position <b>Drilling Foreman</b>		Company <b>Sunray Mid-Continent Oil Company</b>			
FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY							
ORIGINAL WELL DATA							
D F Elev.		T D		P B T D		Producing Interval	
Completion Date							
Tubing Diameter		Tubing Depth		Oil String Diameter		Oil String Depth	
Perforated Interval(s)							
Open Hole Interval				Producing Formation(s)			
RESULTS OF WORKOVER							
Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD	
Before Workover							
After Workover							
OIL CONSERVATION COMMISSION				I hereby certify that the information given above is true and complete to the best of my knowledge.			
Approved by				Name <b>D. H. Berry, Jr.</b>			
Title				Position <b>Staff Engineer</b>			
Date				Company <b>Sunray Mid-Continent Oil Company</b>			

N.



AREA 640 ACRES  
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

**Sanroy Mid-Continent Oil Company** **N. M. State "T"**  
(Company or Operator) (Lease)

Well No. **2**, in **NE** 1/4 of **NE** 1/4, of Sec. **32**, T. **18N**, R. **11E**, NMPM.  
**Calvin Yates** Pool, **May** County.

Well is **330** feet from **north** line and **770** feet from **east** line of Section **32**. If State Land the Oil and Gas Lease No. is **2-10001**.

Drilling Commenced **March 24**, 19**61**. Drilling was Completed **April 21**, 19**61**.

Name of Drilling Contractor **Castro Drilling Company**  
Address **P. O. Box 788 San Angelo, Texas**

Elevation above sea level at Top of Tubing Head **3603**. The information given is to be kept confidential until **can release**, 19.

OIL SANDS OR ZONES

No. 1, from **2610** to **2709** 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 <b>650</b> to <b>650</b> feet.	<b>ball test 1 gal wtr/hr</b>
No. 2, from <b>745</b> to <b>750</b> feet.	<b>" " 1/4 " " "</b>
No. 3, from <b>825</b> to <b>835</b> feet.	<b>hole full water</b>
No. 4, from <b>3650</b> to <b>3743</b> feet.	<b>ball test 1 to 2 gal sw/hr</b>

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
<b>8 5/8</b>	<b>24.5</b>	<b>New</b>	<b>871</b>	<b>Reamer WDW</b>	<b>0</b>	<b>None</b>	<b>Surf Csg</b>
<b>8 7/8</b>	<b>6.44</b>	<b>New</b>	<b>2911</b>	<b>Reamer Outside</b>	<b>0</b>	<b>Sec. 2610-2709</b>	<b>Prod. Csg.</b>

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
<b>10" &amp; 8"</b>	<b>8 5/8</b>	<b>871</b>	<b>871</b>	<b>Pump &amp; Plug</b>	<b>Cable tool hole</b>	
	<b>8 7/8</b>	<b>2911</b>	<b>2911</b>	<b>Pump &amp; Plug</b>	<b>Cable tool hole</b>	

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

**Free w/20,000 gal refined oil & 14,000# sand @ 112 12.7 bpm @ 6000 to 4750 psi using 3 Allison down 8 7/8" CD casing in 4 stages using rubber balls, broke formation down initially w/acid @ 2300#.**

Result of Production Stimulation **POTENTIAL for 368 BOPD, no water, on 22/61, choke @ 150# TP**

Depth Cleaned Out **2881 inside 7 7/8" csg**

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to 3743 TD feet, and from 0 feet to 0 feet.  
Cable tools were used from 0 feet to 3743 TD feet, and from 0 feet to 0 feet.

PRODUCTION

Put to Producing April 27, 1961, 19.  
OIL WELL: The production during the first 24 hours was 368 barrels of liquid of which 100 % was oil; 0 % was emulsion; 0 % water; and 0 % was sediment. A.P.I. Gravity 26.3° API  
GAS WELL: The production during the first 24 hours was M.C.F. plus barrels of liquid Hydrocarbon. Shut in Pressure lbs.  
Length of Time Shut in

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy.	Bedded 605'		T. Devonian		T. Ojo Alamo
T. Salt.			T. Silurian		T. Kirtland-Fruitland
B. Salt.			T. Montoya		T. Farmington
T. Yates.	2293'		T. Simpson		T. Pictured Cliffs
T. 7 Rivers.	2588'		T. McKee		T. Menefee
T. Queen.	3275'		T. Ellenburger		T. Point Lookout
T. Grayburg.	3728'		T. Gr. Wash.		T. Mancos
T. San Andres.			T. Granite		T. Dakota
T. Glorieta.			T. Permian	3526'	T. Morrison
T. Drinkard.			T.		T. Penn.
T. Tubbs.			T.		T.
T. Abo.			T.		T.
T. Penn.			T.		T.
T. Miss.			T.		T.

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	605	605	Bedded				
605	800	195	Anhy				
800	1965	1165	Salt and anhy				
1965	2610	645	Anhy and shale				
2610	2895	285	Dolo and sand				
2895	3295	400	Lime and dolo				
3295	3743	448	Lime & sty lime				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Company or Operator **Berry Mid-Continent Oil Co.** Address **P. O. Box 128 Hobbs, New Mexico**  
Name **D. E. Berry, Jr. D.E. Berry Jr** Position or Title **Staff Engineer**  
Date **4/28/61**

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