

Ø, Popliation, Transcript, [mall Exhibits, Etc.

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NEL EXICO OIL CONSERVATION COMA SION	7358
APPLICATION FOR DUAL COMPLETION	

	_				<u> </u>
Field Nam	ne			County	Date Cat
N.Shuga	art Queen-Grayburg	& Undesigns	ated Yates	Eddy	January 17, 1961
Operator			Lease		Well No.
Sunray	Mid-Continent 01]	. Company	N. M.	State "Y"	• 2
Location	Unit	Section	Te	wnship	Range
of Well	BA	32	2	18s	31E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ____ NO.

2. If answer is yes, identify one such instance: Order No. R-1784 _; Operator, Lease, and Well No.:

3.	The following facts are submitted:	Upper Zone	Lower Zone
	. Name of reservoir	Yates	Queen & Grayburg
	b. Top and Bottom of Pay Section (Perforations)	2600-2700	3200-3700
_	c. Type of production (Oil or Gas)	· Oil	Oil
	 Method of Production (Flowing or Artificial Lift) 	Flow	Artificial Lift

4. The following are attached. (Please mark YES of NO)

File

Yes_ a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cemant, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side doof chokes; and such other information as may be pertinent.

Tes_b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.

Yes c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.

12

*** No d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perfection indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 127 A.) UT

5. List all offset operators to the lease on which this well is located together with their correct mailing address. Westwater Corporation, Midland Savings and Loan Bldg., Midland, Texas

Chambers and Kennedy, 607 Midland National Bank Bldg., Midland, Texas

Iverson and Welch, etal, c/o B. F. Welch, 100 Booker Bldg., Artesia, New Mexico

Keohane and Welch, etal, Box 915, Roswell, New Mexico

Gulf Oil Corporation, Box 2167, Hobbs, New Mexico H. E. Yates, Box 397, Artesia, New Mexico

Neil Salsich, 716 First National Bank Bldg., Midland, Texas

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ____ NO __ . If answer is yes, give date of such notification Notice given by registered mail 1-17-61.

of the Sunray Mid-Continent CERTIFICATE: I, the undersigned, state that I am the District Engineer

. (company), and that I am authorized by said company to make this report; and that this report was prepared Company under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

111 submit log as per Rule 112-A

all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation sion will pold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, eriod, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed. proposed the separate application for approval of the same should be filed simultaneously with this application.

R.E.

Statton

Signature

4 -	NEL .EXICO OIL	CONSERVATION COMP.	ION 2 1 4 Sol
		FE, NEW MEXICO	N & JAN 0 1. 01 18 7-3-58
Field Name	& Undesignated Ist	County Body 1000 cm	Date January NT, 1961
Operator Sunray Mid-Continent Oil	Company Lease N.	I. State "I"	Well No. 5
Location Unit	Section	Township	Range

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ____ NO

2. If answer is yes, identify one such instance: Order No. B-1784 _; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Lower Zone		
a. Name of reservoir	Tates	Quote & Grayinary		
b. Top and Bottom of Pay Section (Perforations)	2600-2700	3800-3700		
c. Type of production (Oil or Gas)	ci 1	al		
d. Method of Production (Flowing or Artificial Lift)	The	Artificial IACt		

4. The following are attached. (Please mark YES or NO)

International states and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.

b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.

c. Vaivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.

d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address. Westwater Corporation, Midland Savings and Lean Midg., Midland, Testas

re and Kannedy, 607 Midland Mattional Bank Hidge, Midland, Texas

Iveron and Welch, stal, s/o B. F. Walch, 200 Booker Hidge, Artenia, Nor Maxies

and Wolch, etal, Box 915, Reavell, Nor Maxico

Galf OLL Gerperation, Des 2167, Hobbs, New Maxies L. L. Label a 397, Ar

716 First Sational Bank Bldg., Midland, Toxas Salaide.

. If answer is yes, give date of such notification listing given by registered and 1 1-17-61.

of the Sanney Mid-Continent CERTIFICATE: I, the undersigned, state that I am the District Engineer OIL Company , (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

- dl bere for easings Whilining two strings of 2 7/8" OB tabing in or no Will schuit log as per Buls 112-A Signature
- Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

NEL EXICO OIL CONSERVATION COMA SION

SANTA FE, NEW MEXICO

· · · · · · · · · · · · · · · · · · ·	18 1961	
RECE	1 8 1961	7-3-58
• JA	D.C. OF	FILE

APPLICATION FOR DUAL COMPLETION **

Field Name	rt Queen-Greyburg &	Undesignated Iste	County	Da	Jamary 17, 1901
Operator	Mid-Continent Oil C	cupany Lease	N. State "Y"	Ve M	211 No. 2
Location of Well	Unit De le	Section 32	Township 188	Ra	inge JUE

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES <u>X</u> NO

2. If answer is yes, identify one such instance: Order No. **B-1784**; Operator, Lease, and Well No.:

3.	The following facts are submitted:	Upper Züne	Lower Zone
	. Name of reservoir	Tatos	Queen & Gregturg
	b. Top and Bottom of Pay Section (Perforations)	2600-2709	3800-3700
	. Type of production (Oil or Gas)	C(1)	641
	I. Method of Production (Flowing or Artificial Lift)	nor	Artificial laft

4. The following are attached. (Please mark YES of NO)

a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.

b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.

c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*

d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address. Westwelter Supportion, Midland Savings and Loon Midge, Midland, Texas

Shadoos and Rennedy, 607 Midland National Sank Kidge, Midland, Texas

Iverses and Walshy stale ofo 3. 7. Walshe 200 Booiner Bligge Artenia, New Mexico

Rochane and Welch, stal, Dax 915, Rossell, Nor Mexico

Galf Gil Guperation, Des 2167, Nobbe, New NewSoo R. Z. Yeben, New 207, Artesia, New Matter Reil Salaish, 716 First Rational Bank Ridge, Midland, Se

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ______ NO _____. If answer is yes, give date of such notification and the proglamment and a such as a such

CERTIFICATE: 1, the undersigned, state that I am the **District Ingineer** of the **District Ingineer** of the **District Ingineer** of the **District Ingineer**

under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

ane Will schult log as per Rale 113-4

Signature

Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed. NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the

producing zones, then separate application for approval of the same should be filed simultaneously with this application.



- posses: 1. Centralizers will be used on 30t anading from TD up to 1001 above Queen-Grayburg pay.
 - 2. Turbulizers will be used on each joint of both strings from bottom of Yates casing to 100' above Yates pay.
 - 3. Will dement down long string with sufficient dement to bring dement up to short string and then coment down Mates dasing with sufficient dement to bring dement 600' above Mates zone.

and the second



2. Turbulizers will be used on each joint of both strings from bottom of Yates casing

3. Will cement down long string with softicient const to bring cement up to short string and then agaent down Mates casing with sufficient cecents to bring gement

61y) above Yates zone.



works: 1. Centralizers will be used on 30% spacing from ID in to 100% above Queen-Grayburg 2. Turbulizers will be used on each joint of both strings from bottom of Yates casing

3. Till coment down long string with sifticient cerent to bring cement up to short spring and then coment down Mates basing with sufficient cement to bring pement.

600' above Yates zone.







DOCKET: EXAMINER HEARING - THURSDAY, FEBRUARY 23, 1961

OIL CONSERVATION COMMISSION - 9 A.M., CONFERENCE ROOM - STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Elvis A. Utz, Examiner, or Oliver E. Payne, attorney, as alternate examiner:

CASE 2193:

Application of Newmont Oil Company for two unorthodox oil well locations and for one unorthodox location for an injection well. Applicant, in the above-styled cause, seeks approval for two unorthodox oil well locations, and for one unorthodox water injection well location in the Loco Hills Waterflood Project, Eddy County, New Mexico. The proposed locations for the producing wells and injection well are respectively as follows:

Yates A No. 14 Well, 1980 feet from the North line and 1310 feet from the East line of Section 6, Township 18 South, Range 30 East.

Brigham No. 5 Well, 1320 feet from the South line and 990 feet from the East line of Section 31, Township 17 South, Range 30 East.

Brigham No. 4 Well, 1320 feet from the South line and 5 feet from the East line of Section 31, Township 17 South, Range 30 East.

CASE 2187:

Application of Continental Oil Company for a 400-acre nonstandard gas proration unit. Applicant, in the above-styled cause, seeks the establishment of a 400-acre non-standard gas proration unit in the Eumont Gas Pool comprising the W/2W/2 of Section 26, the E/2 E/2 of Section 27, and the E/2SE/4 of Section 22, all in Township 20 South, Range 37 East, Lea County, New Mexico. Said unit is to be dedicated to the SEMU Eumont Well No. 65, located 2363 feet from the South line and 0 feet from the West line of said Section 26.

CASE 2188:

Application of Continental Oil Company for an exception to Rule 26 (a) of Order No. R-1670. Applicant, in the abovestyled cause, seeks an exception to Rule 26 (a) of Order No. R-1670 for the reclassification to a Tubb gas well of its State 10 Well No. 3-D, located 990 feet from the North line and 840 feet from the West line of Section 10, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico

6-61

-2-Docket No. 6-61

CASE 2189:

Application of Continental Oil Company for two non-standard gas proration units. Applicant, in the above-styled cause, seeks the establishment of two non-standard gas proration units in the Eumont Gas Pool, Lea County, New Mexico, the first being a 480-acre unit consisting of the S/2 and NE/4 of Section 24 to be dedicated to the SEMU Eumont Well No. 67 located 1980 feet from the South and West lines of said Section 24 and the second being a 280-acre unit consisting of the NW/4 of said Section 24 and the S/2 and NW/4 SW/4 of Section 13 to be dedicated to the SEMU Eumont Well No. 69, located 1980 feet from the North and West lines of Section 24, all in Township 20 South, Range 37 East.

CASE 2190: Application of Continental Oil Company for a 560-acre nonstandard gas proration unit. Applicant, in the above-styled cause, seeks the establishment of a 560-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the W/2 of Section 14, the E/2 E/2 of Section 15 and the E/2 NE/4 of Section 22, Township 20 South, Range 37 East, Lea County, New Mexico. Said unit is to be dedicated to the SEMU Eumont Well No. 66, located 1980 feet from the South line and 660 feet from the West line of said Section 14.

CASE 2191: Application of Continental Oil Company for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to install an automatic custody transfer system to handle the Empire-Abo Pool production from all wells presently completed or hereafter drilled on its State S-30 lease comprising in pertinent part the NW/4 and NW/4 SW/4 of Section 30, Township 17 South, Range 29 East, Eddy County, New Mexico.

CASE 2192: Application of Amerada Petroleum Corporation for permission to commingle the production from two separate leases. Applicant, in the above-styled cause, seeks permission to commingle the Blinebry Oil Pool production from all wells presently completed or hereafter drilled on its State "D" lease, consisting of the NW/4 and its State "H" lease, consisting of the W/2 SE/4, both in Section 1, Township 20 South, Range 36 East, Lea County, New Mexico.

CASE 2194:

Application of Sunray Mid-Continent Oil Company for an oiloil dual completion utilizing two strings of casing. -3-Docket No. 6-61

<u>CASE 2194</u> :	(Cont.)	
	Applicant, in the above-styled cause, seeks an ord	,
	izing the dual completion of its State "Y" Well No	2, located
-	in Unit A, Section 32, Township 18 South, Range 31	East, Eddy/
e e	County, New Mexico, in such a manner as to permit	the pro-
	duction of oil from the Culwin-Yates Pool and the	production
	of oil from the North Shugart Queen-Grayburg Pool	through
	parallel strings of 2 7/8-inch casing cemented in	a common /
	well bore.	- 1
		· · · · · · · · · · · · · · · · · · ·
CASE 2195:		· -
1	transfer system. Applicant, in the above-styled c	•
	permission to install an automatic custody transfe	•
	to handle the production from an undesignated Abo	-
	all wells presently completed or hereafter drilled	
	Lea-State "LB" Lease comprising the NW/4, N/2 SW/4 SW/4 of Section 20, Township 17 South, Range 36 Ea	•
-	SW/4 OF Section 20, rownship it South, Range So Ca	st, Lea

CASE 2196: Application of Gulf Oil Corporation for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle, without separate metering, the production from the Drinkard and Langlie-Mattix Pools from all wells presently completed or hereafter drilled on the Ollie I. Boyd Lease, comprising the S/2 SW/4, NE/4 SW/4 and SW/4 SE/4 of Section 23, Township 22 South, Range 37 East, Lea County, New Mexico.

County, New Mexico.

<u>CASE 2197</u>: Application of Tennessee Gas and Oil Company for the promulgation of temporary special rules and regulations governing the Totah-Gallup Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order promulgating temporary special rules and regulations governing the Totah-Gallup Pool, San Juan County, New Mexico, including a provision for 80-acre proration units.

CASE 2198: Application of H. S. Moss for permission to commingle the production from three separate pools and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to commingle the production from the Southwest Gladiola-Wolfcamp Pool, the Southwest Gladiola-Devonian Pool and an undesignated Pennsylvanian Pool from all wells presently completed or hereafter drilled on its D. P. Peck Lease comprising the W/2 of Section 26, Township 12 South Range 37 East, Lea County, New Mexico.

-4-Docket No. 6-61

CASE 2198: (Cont.)

Applicant further seeks permission to install an automatic custody transfer system to handle said commingled production.





Case 2194 Leand. 2-23-61 8-24-61 1. Sunt Sun Ray's request for a slim Hole dual consisting of 2 sting 278 auch caring. Il Auch will be completed in the ! Culion - yates - upper zone N.Shukert - Quen Kinghing. Lowe zone 3. Centratizen di turbolizera skall be used the each producing formation and to a point at least 200 ft. door each formation 4. Thetwo strings shall be cemented from the batton of the Krayburg to a point 600 ft. above the yates. 5. Stacual for Qued order athenine Thesthere.

DRAFT

OEP/esr March 1, 1961

> BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 2194 Order No. R- 1872

APPLICATION OF SUNRAY MID-CONTINENT OIL COMPANY FOR AN OIL-OIL DUAL COMPLETION UTILIZING TWO STRINGS OF CASING, CULNIN-YATES POOL AND NORTH SHUGART QUEEN-GRAYBURG POOL, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 23, 1961, at Santa Fe, New Mexico, before <u>Elvis A. Utz</u> Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this day of March , 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz , and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Sunray Mid-Continent Oil Company, is the owner and operator of the State "Y" Well No. 2, located in Unit A, Section 32, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico.

(3) That the applicant proposes to dually complete the above-described State "Y" Well No. 2 in such a manner as to permit the production of oil from the Culwin-Yates Pool and the production of oil from the North Shugart Queen-Grayburg Pool through parallel strings of 2 7/8-inch tubing cemented in a common well bore.

(4) That casing centralizers or turbolizers should be installed at thirty-foot intervals throughout the producing formations and to a point at least one hundred feet above each producing formation.

-2-CASE No. 2194

(5) That the two casing strings should be two-stage *Comented* so as to bring the cement from the base of the Grayburg formation to a point six hundred feet above the Yates formation.

(6) That the mechanics of the proposed dual completion are feasible and in accord with sound conservation practices.

IT IS THEREFORE ORDERED:

That the applicant, Sunray Mid-Continent Oil Company, be and the same is hereby authorized to dually complete its State "Y" Well No. 2, located in Unit A, Section 32, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico, in such a manner as to permit the production of oil from the Culwin-Yates Pool and the production of oil from the North Shugart Queen-Grayburg Pool through parallel strings of 2 7/8-inch tubing cemented in a common well bore.

<u>PROVIDED HOWEVER</u>, That casing centralizers or turbolizers shall be installed at thirty-foot intervals throughout the producing formations and to a point at least one hundred feet above each producing formation.

PROVIDED FURTHER, That the two casing strings shall be **the stage** cemented so as to bring the cement from the base of the Grayburg formation to a point six hundred feet above the Yates formation.

PROVIDED FURTHER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That the applicant shall take communication tests upon completion and annually thereafter, or as otherwise prescribed by the Secretary-Director.

IT IS FURTHER ORDERED:

That jurisidction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or the protection of correlative rights. Upon failure of the applicant to comply -3-CASE No. 2194

with any requirement of this order, the Commission may terminate the authority herein granted and require the applicant or its successors and assigns to limit its activities to regular singlezone production in the interest of conservation.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated. GOVERNOR EDWIN L. MECHEM CHAIRMAN

State of New Mexico O il Conservation Commission

LAND COMMISSIONER E. S. JOHNNY WALKER MEMBER P. 4. 842 471

STATE GEOLOGIST A. L. PORTER, JR, SECRETARY - DIRECTOR

March 7, 1961

Mr. Chas. White Gilbert, White & Gilbert Box 707 Santa Fe, New Mexico

Case No. 2194 Order No. <u>R-1892</u> Applicant: Sumrey Mid-Continent

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Re:

Very truly yours, A. L. PORTER, Jr.

Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC Artesia OCC Aztec OCC

OTHER

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL COMPRESSION COMMISSION OF NEW MEXICO FOR THE FURPOSE OF COMPIDERING:

> CASE No. 2194 Order No. R-1892

APPLICATION OF SUMMAY MID-CONTINUET OIL COMPANY FOR AN OIL-OIL DUAL COMPLETICE UTILIZIES TWO STRINGS OF CASING, COLMIN-WATNO FOOL AND NORTH SEDGART OFFICE-GRAYNERS FOOL, EDOY COURTY, NEW MERICO.

ORSER OF THE CONDUSSION

IT THE COMPLEXATORS

This cause came on for hearing at 9 o'clock a.m. on Yebruary 23, 1961, at Samta Fe, New Mexico, before Elvis A. Uts, examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Bules and Regulations.

NOW, on this <u>3rd</u> day of March, 1961, the Counission, a quorum being present, having considered the application, the evidence addreed, and the recommendations of the Runniner, Hivis A. Uts, and being fully advised in the premises,

TIME:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Sunray Mid-Continent Oil Company, is the owner and operator of the State "Y" Well No. 2, located in Unit A, Section 32, Township 18 South, Hange 31 Hast, MAPM, Hody County, New Mexico.

(3) That the applicant proposes to dually complete the above-described State "Y" Well No. 2 in such a manney as to permit the production of oil from the Culvin-Yates Pool and the production of oil from the North Shugart Queen-Grayburg Pool through parallel strings of 2 7/8-insh tubing comented in a common well hore.

(4) That casing contraliners or turboliners should be installed at thirty-foot intervals throughout the producing formations and to a point at least one hundred feet above each producing formation. -2-CASE No. 2194 Order No. R-1892

(5) That the two casing strings should be commanded so as to bring the commant from the base of the Grayburg formation to a point six hundred feet above the Yates formation.

(6) That the mechanics of the proposed dual completion are feasible and in accord with sound conservation practices.

IT IS THEREFORE ORDERED:

That the applicant, Suaray Mid-Continent Gil Company, be and the same is hereby authorized to dually complete its State "Y" Well No. 2, located in Unit A, Section 32, Tourship 18 South, Range 31 East, MEM, Eddy County, New Newloo, in such a manner as to permit the production of oil from the Calwin-Tates Pool and the production of oil from the North Shugart-Queen-Grayburg Pool through permited strings of 2 7/8-inch tubing command in a Counce well hore.

<u>PROVIDED HOVEVER</u>, That casing centralizers or turbolizers shall be installed at thirty-foot intervals throughout the producing formations and to a point at least one hundred feet above each producing formation.

PROVIDED PURCHER, That the two casing strings shall be command so as to bring the commant from the base of the Grayburg formation to a point six hundred feat above the Yatas formation.

PROVIDED FURTHER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That the applicant shall take communication tosts upon completion and annually thereafter, or as otherwise prescribed by the Secretary-Director.

IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of vaste and/or the protection of correlative rights. Upon failure of the applicant to comply with any requirement of this order, the Commission may terminate the authority herein granted and require the applicant or its successors and assigns to limit its activities to regular singlezone production in the interest of conservation. -3-CASE No. 2194 Order No. R-1892

DOWN at Santa Fe, New Maxico, on the day and year hereinabove designated.

> STATE OF NEW MEXICO CIL COMPERVATION CONDISSION

REWIN L. / NEGHEN, COLLEMNA

WALKER, Muniber Parter , L.



est/

A. L. PORTER, JE., Manhoe & Socrotary

OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

May 15, 1961

Sunray Mid-Continent Oil Company P. O. Dex 128 Mobbe, New Mexico

Attention: Mr. C. T. McClanahan

Sentlemon:

Deference is made to your letter of April 28, 1961, wherein you paint out that Sunray Mid-Continent's H. M. State "Y" Well He. 2, anthorized by the Coumission in Order He. B-1892 to be dually completed as a Yates and Queen-Graybury producer in the Culuin area, had been completed as a single producer in the Tates.

Incoment as a single string tubingless producer from the Yates is eligible for approval in this area, your single some completion is sutisfactory.

Approval thereof is hereby granted.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/DEM/ix

461

Nr. H. L. Arnstrong Gil Conservation Commission Artesia, New Mexico

Case File No. 2194

SUNBAY MUD-CONTINENT OUL COMPANY

P. O. BOX 128 HOBBS, NEW MEXICO

April 28, 1961

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

Attention: Mr. D. S. Nutter

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

Gentlemen:

In accordance with the suggestion of Mr. D. S. Nutter intelephone 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 Cubwin-Yates Pool.

The well has now been completed and potentialed. 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,

SUMRAY MID-CONTINENT OIL COMPANY

C. T. McClana District Manager

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



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

		NEW MEXI	CO OIL CO	SERVA	TION CO	DMMISSIC	м	FORM C	
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initially would a 2000/.

Result of Production Stimulation.

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If drill-stem or other special	tests or deviation surveys were man	de, submit report on separa	te sheet and attach hereit
	TOOLS USE		a an

Rotary tools were used from.......feet to......feet to.....feet to......feet to.....feet to....feet to.....feet to.....feet to.....feet to....feet to.....feet to....feet to.....feet to....feet to...feet to....feet to...feet to....feet to...feet to...feet to...feet to...

PRODUCTION

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OIL WELL:	The production during the first 24 hours was barrels of liquid of which
	was oil: % was emulsion: % water: and % water. A.P.I.
	was oil;% was emulsion;% water; and% was sediment. A.P.I. Gravity%
GAS WELL:	The production during the first 24 hours was

liquid Hydrocarbon. Shut in Pressure.....lbs. Length of Time Shut in ...

Put to Producing. April 27, 1961

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

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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 n be determined from available records. L/m /K)

Company o	or Operator	hanny	Hid-Con	Lant	<u>an</u> (
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Position or Title				

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	BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico February 23, 1961	
	EXAMINER HEARING	
IN THE	MATTER OF:	-)
a s i t C t a	pplication of Sunray Mid-Continent Oil Company for nd oil-oil dual completion utilizing two strings of asing. Applicant, in the above-styled cause, eeks an order authorizing the dual completion of ts' State"Y" Well No. 2, located in Unit A, Sec- ion 32, Township OS South, Range 31 East, Eddy ounty, New Mexico, in such a manner as to permit he production of oil from the Culwin-Yates Pool nd the production of oil from the North Shugart ueen-Grayburg Pool through parallel strings of 7/8-inch casing cemented in a common well bore.	
	• • • • • • • • • • • • • • • • • • •	.
BEFORE	: Elvis A. Utz, Examiner	
	TRANSCRIPT OF HEARING	
	(Marked Applicar Exhibits No's. for identificat	1 & 2
	MR. UTZ: Case 2194.	
	MR. PAYNE: Case 2194: Application of Sunray	Mid-
Contin	ent Oil Company for an oil-oil dual completion uti	ilizing tw
string	s of casing.	
	MR. WHITE: L. C. White of Gilbert White & Gil	lbert,
Santa	Fe, New Mexico. We will have one witness and repr	resenting
the Ap	plicant will be Bill Loar of the New Mexico Bar As	sociation
	MR. UTZ: Any other appearances in this case?	If not,
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(Witness sworn.) D. E. BERRY, JR., called as a witness, having been previously duly sworn, testified as follows: DIRECT EXAMINATION Will you state your name and occupation? BY MR. LOAR: D. E. Berry, Jr., Staff Engineer employed by Sunray Q. Mid-Continent Oil Company at the Hobbs District Office. Are you a graduate of an accredited engineer's school? Q Yes sir. A What school is that? Q University of Tulsa, 1952. Since that time, except for a tour of duty in the Navy, A have you been performing engineering duties for the Sunray Mid-Continent Oil Company to the present time? During the last year and a half, have you been in the That is correct. А Ŋ. Hobbs office doing petroleum duties? ALBUQUERQUE, NEW MEXICO MR. LOAR: Are his qualifications acceptable? Yes sir. А (By Mr. Loar) Are you familiar in this case of the tub-MR. UTZ: Yes. ingless dual oil in the North Shugart Queen-Grayburg Pool and the Culwin-Vates Pool, Eddy Courty, New Mexico?

DEARNLEY-MEIER REPORTING SERVICE, Inc.

CH 3-6691

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PAGE

PAGE 3

Γ	A Yes sir. O Would you please refer to what has been made as Exhibit
	t out what that reflects?
E	turbon 1 is a plat showing the interior
E CH 3-6691	A Exhibit Number 1 10 or 1 proposed well, and shows the surrounding wells and our New Mexico State "Y" No. 1 which is now being drilled. Also the Sunray Mid-
Inc.	and an the cross-wedged area.
/ICE,	Q And a thick line is Sunray's where there is an
SERV	pointing to it? A Yes.
ING	Q Has Well No. 1 received approval from the Oli Conservation
C-MEIER REPORTING SERVICE, Inc.	Commission in Order R-1875? A Yes sir.
RE.	Q Dated sometime this month?
IEIEI	A Yes. Q What is the location of Well No. 2?
EY-N	 What is the locan A It is 330 feet from the North line and 990 feet from A It is 330 feet from the North line and 990 feet from A It is 330 feet from the North line and 990 feet from A It is 330 feet from the North line and 990 feet from A It is 330 feet from the North line and 990 feet from A It is 330 feet from the North line and 990 feet from A It is 330 feet from the North line and 990 feet from A It is 330 feet from the North line and 990 feet from A It is 330 feet from the North line and 990 feet from A It is 330 feet from the North line and 990 feet from
DEARNLEY	the East line of Section 32, Township 25 County, New Mexico.
DE	All right, sir, have you prepared a schemeste
	proposed application of this well? A Yes sir.
	A Yes sir. O That has been made Exhibit 2; would you proceed through
	that?

بور.

a proposed Tubingless Dual Completion. It is proposed to run two parallel strings of casings and cement the strings of the casing in common well bore. We will run set approximately 900 feet of eight and five-eights casing and cement this casing with a 180 sacks of cement; an eight-inch hole will be drilled to a depth of 3,000 feet at which point the hole size will be reduced to six inches of the six inch.

PAGE J1

Now, this production-will occur approximately 300 feet below the Culwin-Yates?

A Yes sir.

3-669

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SERVICE.

REPORTING

DEARNLEY-MEIER

ମ୍ବା Would you go ahead

A The six inch hole will be carried on to a depth of 3,800 feet, and the reason for reducing the size of the hole is to reduce the amount of cement which must be penetrated during the procedure for aiding operations on the lower zone. The lower zone will be in the North Shugart Queen-Grayburg Pool of approximately 3,200 to 3,700 feet, and the upper completion after the Culwin-Yates proble at an approximate 2,600 to 2,700 feet. The casing which we plan to use is two and seven-eighths OD buttress thread casing. Each string of casing will be set to the respective pay zones of about 70 feet. The ID of this casing is 2.441 inches and the OD is 3.50 inches on the collars which will leave a toat1 clearance of one inch. The casing equipment will consist of a Phillip baffle plate -- or collar, excuse me -- to install one ioint about 30 feet -- the guide shoe. The guide shoe and Fhillip battle plate will be installed at each string of casing.

We will install Centralizers on 30 foot spacing from the bottom of the long strings to approximately 100 feet above the top of the lower pay. We will install Turbulizers on each joint of each string of the casing from the level at the setting point of the short string of the casing up to a point approximately 100 feet above the top of the upper pay. The cementing procedure will be to pump cement down the long string of casing, first with sufficient cement to bring the cement up to the bottom of the short string of the casing.

Then we will immediately pump cement down the short string of the casing to bring the cement on the point approximately 600 feet above the top of the upper pay. We will use latched-in type cementing plugs for this operation, and we will use separate pumps to pump the plug down to insure that we have approximately 40 feet of clean casing below the lowest anticipated performation for each pay. We will perforate the lower zone using a conventional tubing perforator, and we will perforate the short string of the casing into the upper pay using the orientation tool to prevent perforation of the upper string of the casing.

We plan to treat both zones by fracturing, using refined oil from sand. If an artificial lift of either or both of these zones is needed, we plan on running a retrievable type shoe on the pump with conventional sucker rods. If we run into a gas interferance problem in the operation of the pump, we will use hollow sucker rods.



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DEARNLEY-MEIER REPORTING SERVICE, Inc.

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3-6691 3 Inc. SERVICE. DEARNLEY-MEIER REPORTING MEXICO

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PAGE 6 Will this type of completion save the operators a sub- \cap stantial sum of money? A Yes sir. \cap Would the completion in these two zones be of doubtful examination if more familiar methods were used? Yes sir, they would be doubtful. А In your opinion, would the authorization of this type of 0 completion prevent waste? Α Yes. Q Mere Exhibits 1 and 2 prepared by you or under your supervision? Yes, they were. А MR. LOAR: I would like at this time to offer Exhibits 1 and 2. MR. UTZ: Without objections, Exhibits 1 and 2 will be entered_into_the_record. CROSS EXAMINATION BY MR. UTZ: Q Mr. Berry, your turbulizers are going to be on the short string? А No sir, on the bottom strings. Up to a point of a 100 feet above the Culwin-Yates per-Q foration? А Yes sir.

But you will have Centralizers on your long strings from

PAGE 7

the boltom of your short strings through the pay zone of the North Shugart Queen-Grayburg?

A No sir, we plan on running the Centralizers from the bottom of the long string to 100 feet above the top of the lower bay.

O I cee, so there will be a space from 100 feet above the North Shugart on the bottom of the short string. Will that have any Centralizers or Turbulizers?

A Yes sir.

Q That will be around 400?

A Yes sir.

MR. UTZ: Any other questions?

CROSS EXAMINATION

BY MR. PAYNE:

Q Mr. Berry, do you feel that this completion method will insure that there is no commingling between the two production horizons?

A Yes sir, I do.

Q Do you also feel that it will protect all fresh water and other gas- and oil-bearing strata?

A Yes sir, the casing depth -- the eight and five-eighths that casing that we propose is below all known fresh water zones, and the Yates formations, both, fall within a hydrocarbon producing zone.

----- Dees your completion method differ initially from Order



DEARNLEY-MEIER REPORTING SERVICE,

NEW MEXICO

ALBUQUERQUE,

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No. 12-1071.9 No sir, it's essentially the same. Λ MR. UTZ: Any other questions? RE-DIRECT EXAMINATION Would you say that this well would have more cement and BY MR. LOAR: more protection to all zonings than the standard completions that are usually made in this area. A Yes sir, most of the completions use less casing and less cement under more conventional types of completion. MR. UTZ: Any other questions? The witness may be ex-(Witness excused.) MR. UTZ: Any other statements in this case? The case cused. will be taken under advisement. STATE OF NEW MEXICO -} ទទ COUNTY OF BERNALILLO) I, LA VERNE E. JAMES, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, MEXICO is a true and correct record to the best of my knowledge, skill and ALBUQUERQUE, NEW IN WITNESS WHEREOF I have affixed my hand and notarial ability. day of March, 1961; seal this / 7" ml My Commission expires: Court Reporter January 6, 1965.

Inc. DEARNLEY-MEIER REPORTING SERVICE,

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CH 3-6691