

REPRODUCED BY  
**WEST TEXAS ELECTRICAL LOG SERVICE**  
 1305 Commerce Street  
 Dallas 1, Texas

REFERENCE No. 303-A

Form 104.1

**S C H L U M B E R G E R**  
 WELL SURVEYING CORPORATION

Location of Well 2086' fr S/L 1874' fr W/L Sec. 28-21S-37E  Elevation: D.F. <b>3452</b> K.B.: or G.L.:	COMPANY: GULF OIL CORP.  WELL: CARSON #2-A  RUN NO.: I  FIELD: EUNICE AREA  LOCATION: SEC. 28-21S-37E  COUNTY: LEA  STATE: NEW MEXICO  FILING No.:	COUNTY: LEA FIELD OR LOCATION: EUNICE AREA SEC. 28-21S-37E WELL: CARSON #2-A COMPANY: GULF OIL CORP.
---	--	--

RUN	I				
Date	3-24-47				
First Reading	6603				
Last Reading	2797				
Footage Measured	3808				
Csg Shoe Schlum	2797				
Csg Shoe Driller	-				
Max. Depth Reached	6603				
Bottom Driller	6603				
Depth Datum	R.K.B. 9' above Gr.				
Mud Nature	Aggreg bentonite				
" Density	9.4				
" Viscosity	33				
" Resistivity	.76 @ 60°F	@ °F	@ °F	@ °F	@ °F
Maximum Temp. °F	98				
Bit Size	8 3/4"				
Spacings					
AM	6"				
AM					
OA	34" IS				
Observers	Cewart				

REMARKS

---



---



---



---

SELF-POTENTIAL millivolts	DEPTHS	RESISTIVITY -ohms. m <sup>2</sup> m.
-   15   + 		NORMAL
		0 100
		0 1000
		LATERAL
		0 100
		0 1000

3-45

State of New Mexico

TELEPHONE  
505-827-2748



Commissioner of Public Lands

June 5, 1975

PHIL R. LUCERO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

Gulf Oil Company  
P. O. Box 1150  
Midland, Texas 79701

Re: Central Drinkard Unit Agreement  
Amendment  
to expand the Central Drinkard Unit  
vertically to include the entire  
Drinkard formation

ATTENTION: Mr. Robert H. Thomas

Gentlemen:

We are in receipt of your letter of June 3, 1975, together with two copies of the amendment to the Central Drinkard Unit Agreement as well as copy of the approval by the New Mexico Oil Conservation Commission. All ratifications have also been received as requested in our letter of January 9, 1975.

The Commissioner of Public Lands has this date approved the amendment, extending the upper vertical limit of the Central Drinkard unit from 6,440' to 6,300' to include the entire Drinkard formation.

We are retaining both copies of the amendment as well as both copies of all Ratifications and Joinders for our files.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

PRL/RDG/s  
cc:

OCC-Santa Fe, New Mexico ✓

224

# State of New Mexico

TELEPHONE  
505-827-2748



## Commissioner of Public Lands

January 9, 1975

PHIL R. LUCERO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

Gulf Oil Company  
P. O. Drawer 1150  
Midland, Texas 79701

Re: Proposed Amendment to  
Central Drinkard Unit

ATTENTION: Mr. J. L. Pike

Gentlemen:

This will acknowledge receipt of your letter dated December 26, 1974, together with three copies of an amendment to the Central Drinkard Unit Agreement. The amendment is for the purpose of extending the unitized interval from 6,440 feet to 6,330 feet.

The Commissioner of Public Lands has no objection to the amendment, therefore, your proposed amendment has been tentatively approved as of this date by the Commissioner. Final approval will be granted upon receipt of all ratifications by all parties. And provided no other changes are proposed.

Please advise this office when the Oil Conservation Commission approves the amendment.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

PRL/RDG/s

cc: OCC- Santa Fe, New Mexico

February 3, 1972

3240

Gulf Oil Company  
P. O. Box 1150  
Midland, Texas 79701

Re: Request for approval of the Central Drinkard Unit Enlargement by Expansion of the Central Drinkard Unit to the 2,600 acres Unit area originally proposed.

ATTENTION: Mr. William V. Kastler

Gentlemen:

The Commissioner of Public Lands has this date approved the Expansion of the Central Drinkard Unit by the commitment of Tract Nos. 10, 20 and 21 which, together, cover all of the W/2 of Section 29, Township 21 South, Range 37 East, Lea County, New Mexico.

Enclosed are Certificates of approval for the ratification and joinder of the three additional tracts. The effective date of this commitment to be as of March 1, 1972.

Please submit the remaining Working and Royalty Interest Owners ratifications as soon as they are available.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
encls.

cc: New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

# Gulf Oil Corporation

LAW DEPARTMENT

Booth Kellough  
DIVISIONAL ATTORNEY  
MIDLAND, TEXAS  
ATTORNEY ROSWELL  
William V. Kastler

August 6, 1965

MAIN OFFICE

1965 AUG 10 PM 12 11

P. O. Box 1938  
Roswell, N. M. 88201

574

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

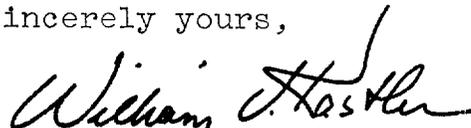
Attention: Mr. J. E. Kapteina

Dear Mr. Kapteina:

I am attaching hereto a copy of amended page 9 to the Central Drinkard Unit Operating Agreement together with a copy of our transmittal letter to all working interest owners which is self-explanatory.

With best personal regards, I am

Sincerely yours,

  
William V. Kastler

WVK:ejj

Enclosure



# Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins  
DISTRICT MANAGER  
M. I. Taylor  
DISTRICT PRODUCTION  
MANAGER  
F. O. Mortlock  
DISTRICT EXPLORATION  
MANAGER  
H. A. Rankin  
DISTRICT SERVICES MANAGER

August 4, 1965

P. O. Drawer 1938  
Roswell, New Mexico 88201

MAILED 10 PH 12 1965

TO ALL WORKING INTEREST OWNERS  
CENTRAL DRINKARD UNIT  
LEA COUNTY, NEW MEXICO

Gentlemen:

This is to advise that approval of 99.6635 per cent of Working Interest Owners has been received to amend Section 10.1.1 of Central Drinkard Unit Operating Agreement describing the pilot project and amended Page 9 to the Unit Operating Agreement is attached for your files.

In addition, we are attaching copies of New Mexico Oil Conservation Commission approval of the revised pilot project.

Also, due to Tracts 10, 20 and 21 not qualifying on effective date of the Unit, the remaining primary under Section 5.1 of the Unit Agreement has been reduced from 647,364 barrels to 546,650 barrels. Therefore, the revised turnover from primary phase participation to secondary phase participation in the split formula will occur when 546,650 barrels of oil have been produced from the unitized formation underlying committed tracts subsequent to January 1, 1964.

Yours very truly,

  
M. I. Taylor

Attachments  
BB:ers



ARTICLE 10

AGREEMENT TO COMPLETE WELLS

10.1 Wells to be Completed and Subsequent Completion Work. In

order that unit operations may be facilitated working interest owners may at any time after the effective date hereof determine that certain wells within the unit area need to be completed in the unitized formation. Upon such determinations being made unit operator shall make appropriate written demands on the working interest owners so affected. For the purposes of this Section a well shall be deemed completed when: (a) If a single completion, said well is, in the standard of good oilfield practice, adequately cased down to the top of or into the unitized formation, or through the unitized formation but plugged back (if applicable) to a depth no less than the base of the unitized formation. (b) If a dual or triple completion, said well is adequately equipped so that the unitized formation is effectively segregated from all other producing formations as required for Oil Conservation Commission approval.

Subsequent to the delivery of the completed wells described above any additional work necessary to be performed on such wells shall be performed by unit operator at the risk, cost and expense of the unit to be paid for and owned by all working interest owners in the same relative shares as are expressed in their respective unit participations for the secondary phase of operations. Such additional work necessary to be performed shall include but not be limited to logging, perforating, stimulating and installing liners and equipment other than that originally furnished which will place such wells in condition to produce unitized substances or accept injection of outside substances.

10.1.1 Pilot Project Area. The pilot project area shall consist of six (6) injection wells situated respectively on the following described legal subdivisions:

T. 21 S., R. 37 E.

Section 28: SW/4 NW/4, NE/4 SW/4, SW/4 SW/4, SW/4 SE/4

Section 29: NE/4 SE/4

Section 33: NE/4 NW/4

and twelve (12) producing wells situated:

T. 21 S., R. 37 E.

Section 28: NW/4 NW/4, SE/4 NW/4, NW/4 SE/4,  
NW/4 SW/4, SE/4 SW/4, SE/4 SE/4

Section 29: SE/4 NE/4, NW/4 SE/4, SE/4 SE/4

Section 33: NW/4 NW/4, NW/4 NE/4, SE/4 NW/4

# Gulf Oil Corporation

LAW DEPARTMENT

Booth Kellough  
DIVISIONAL ATTORNEY  
MIDLAND, TEXAS

ATTORNEY, ROSWELL

William V. Kastler

June 24, 1965

P. O. Box 1938  
Roswell, N. M. 88201

Secretary - Director  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

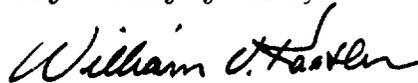
Re: Central Drinkard Unit  
Lea County, New Mexico

Gentlemen:

I am enclosing for your information two copies of a list of new designations of all wells in the participating area of the Central Drinkard Unit.

For your information the Unit will become effective on July 1, 1965 as to all lands which were committed, namely, all tracts but nos. 10, 20 and 21 which collectively comprise the entire W/2 of Section 32-21S-37E. The conformed copies of the Unit and Unit Operating Agreements and all exhibits thereto will be furnished to you in due course as soon as the Certificate of Effectiveness has been returned from the County Clerk of Lea County, New Mexico.

Very truly yours,



William V. Kastler

WVK:ejl

Enclosures



CENTRAL DRINKARD UNIT  
DRINKARD POOL  
LEA COUNTY, NEW MEXICO

305 JUN 25 1965

43 Wells Taken-Over By Unit Operator, Gulf Oil Corporation, On Effective Date: July 1, 1965

<u>FORMER OPERATOR</u>	<u>LEASE</u>	<u>OLD WELL NO.</u>	<u>LOCATION</u>	<u>NEW DESIGNATION</u>	<u>WELL NO.</u>
Amerada	J. G. Hare	1	M, 33-21S-37E	Central Drinkard Unit 33	130
Amerada	J. G. Hare	1A	N, 33-21S-37E	Central Drinkard Unit 33	140
Amerada	J. G. Hare	2	L, 33-21S-37E	Central Drinkard Unit 33	120
Amerada	J. G. Hare	3	K, 33-21S-37E	Central Drinkard Unit 33	110
Amerada	J. Pruitt	1	I, 31-21S-37E	Central Drinkard Unit 31	90
Amerada	State D "B"	2	E, 32-21S-37E	Central Drinkard Unit 32	50
Amerada	State D "B"	1	F, 32-21S-37E	Central Drinkard Unit 32	60
Gulf	Eunice King	4	E, 28-21S-37E	Central Drinkard Unit 28	50
Gulf	Eunice King	5	F, 28-21S-37E	Central Drinkard Unit 28	60
Gulf	Eunice King	9	G, 28-21S-37E	Central Drinkard Unit 28	70
Gulf	Eunice King	22	C, 28-21S-37E	Central Drinkard Unit 28	30
Gulf	Carson "A"	2	K, 28-21S-37E	Central Drinkard Unit 28	110
Gulf	Carson "A"	4	O, 28-21S-37E	Central Drinkard Unit 28	150
Gulf	Carson "A"	6	J, 28-21S-37E	Central Drinkard Unit 28	100
Gulf	Carson "C"	2	A, 33-21S-37E	Central Drinkard Unit 33	10
Gulf	Carson "C"	4	I, 28-21S-37E	Central Drinkard Unit 28	90
Gulf	Carson "C"	3	P, 28-21S-37E	Central Drinkard Unit 28	160
Gulf	McCormack	7	I, 32-21S-37E	Central Drinkard Unit 32	90
Gulf	McCormack	9	P, 32-21S-37E	Central Drinkard Unit 32	160
Gulf	McCormack	10	H, 32-21S-37E	Central Drinkard Unit 32	80
Gulf	McCormack	13	A, 32-21S-37E	Central Drinkard Unit 32	10
Gulf	McCormack	14	G, 32-21S-37E	Central Drinkard Unit 32	70
Gulf	McCormack	16	O, 32-21S-37E	Central Drinkard Unit 32	150
Gulf	Mattern "B"	7	A, 31-21S-37E	Central Drinkard Unit 31	10
Gulf	Mattern "B"	9	H, 31-21S-37E	Central Drinkard Unit 31	80
Marathon	W. H. Turner	1	I, 29-21S-37E	Central Drinkard Unit 29	90
Marathon	W. H. Turner	2	J, 29-21S-37E	Central Drinkard Unit 29	100
Pan American	W. H. Turner	2	O, 29-21S-37E	Central Drinkard Unit 29	150
Pan American	W. H. Turner	1	P, 29-21S-37E	Central Drinkard Unit 29	160
Mobil	E. Carson	1	L, 28-21S-37E	Central Drinkard Unit 28	120
Mobil	E. Carson	2	D, 33-21S-37E	Central Drinkard Unit 33	40
Mobil	E. Carson	3	M, 28-21S-37E	Central Drinkard Unit 28	130
Mobil	E. Carson	6	E, 33-21S-37E	Central Drinkard Unit 33	50
Mobil	E. Carson	7	C, 33-21S-37E	Central Drinkard Unit 33	30
Mobil	E. Carson	12	N, 28-21S-37E	Central Drinkard Unit 28	140
Mobil	H. Corrigan	2	P, 33-21S-37E	Central Drinkard Unit 33	160
Mobil	H. Corrigan	6	O, 33-21S-37E	Central Drinkard Unit 33	150
Skelly	State "K"	3	C, 32-21S-37E	Central Drinkard Unit 32	30
Skelly	State "K"	4	D, 32-21S-37E	Central Drinkard Unit 32	40
Sunray DX	Hardy	1	H, 29-21S-37E	Central Drinkard Unit 29	80
Sunray DX	Hardy	2	G, 29-21S-37E	Central Drinkard Unit 29	70
Sunray DX	Linam	1	A, 29-21S-37E	Central Drinkard Unit 29	10
Sunray DX	Linam	2	B, 29-21S-37E	Central Drinkard Unit 29	20

CENTRAL DRINKARD UNIT  
DRINKARD POOL  
LEA COUNTY, NEW MEXICO

43 Wells Taken-Over By Unit Operator, Gulf Oil Corporation, On Effective Date: July 1, 1965

<u>FORMER OPERATOR</u>	<u>LEASE</u>	<u>OLD WELL NO.</u>	<u>LOCATION</u>	<u>NEW DESIGNATION</u>	<u>WELL NO.</u>
Amerada	J. G. Hare	1	M, 33-21S-37E	Central Drinkard Unit 33	130
Amerada	J. G. Hare	1A	N, 33-21S-37E	Central Drinkard Unit 33	140
Amerada	J. G. Hare	2	L, 33-21S-37E	Central Drinkard Unit 33	120
Amerada	J. G. Hare	3	K, 33-21S-37E	Central Drinkard Unit 33	110
Amerada	J. Pruitt	1	I, 31-21S-37E	Central Drinkard Unit 31	90
Amerada	State D "B"	2	E, 32-21S-37E	Central Drinkard Unit 32	50
Amerada	State D "B"	1	F, 32-21S-37E	Central Drinkard Unit 32	60
Gulf	Eunice King	4	E, 28-21S-37E	Central Drinkard Unit 28	50
Gulf	Eunice King	5	F, 28-21S-37E	Central Drinkard Unit 28	60
Gulf	Eunice King	9	G, 28-21S-37E	Central Drinkard Unit 28	70
Gulf	Eunice King	22	C, 28-21S-37E	Central Drinkard Unit 28	30
Gulf	Carson "A"	2	K, 28-21S-37E	Central Drinkard Unit 28	110
Gulf	Carson "A"	4	O, 28-21S-37E	Central Drinkard Unit 28	150
Gulf	Carson "A"	6	J, 28-21S-37E	Central Drinkard Unit 28	100
Gulf	Carson "C"	2	A, 33-21S-37E	Central Drinkard Unit 33	10
Gulf	Carson "C"	4	I, 28-21S-37E	Central Drinkard Unit 28	90
Gulf	Carson "C"	3	P, 28-21S-37E	Central Drinkard Unit 28	160
Gulf	McCormack	7	I, 32-21S-37E	Central Drinkard Unit 32	90
Gulf	McCormack	9	P, 32-21S-37E	Central Drinkard Unit 32	160
Gulf	McCormack	10	H, 32-21S-37E	Central Drinkard Unit 32	80
Gulf	McCormack	13	A, 32-21S-37E	Central Drinkard Unit 32	10
Gulf	McCormack	14	G, 32-21S-37E	Central Drinkard Unit 32	70
Gulf	McCormack	16	O, 32-21S-37E	Central Drinkard Unit 32	150
Gulf	Mattern "B"	7	A, 31-21S-37E	Central Drinkard Unit 31	10
Gulf	Mattern "B"	9	H, 31-21S-37E	Central Drinkard Unit 31	80
Marathon	W. H. Turner	1	I, 29-21S-37E	Central Drinkard Unit 29	90
Marathon	W. H. Turner	2	J, 29-21S-37E	Central Drinkard Unit 29	100
Pan American	W. H. Turner	2	O, 29-21S-37E	Central Drinkard Unit 29	150
Pan American	W. H. Turner	1	P, 29-21S-37E	Central Drinkard Unit 29	160
Mobil	E. Carson	1	L, 28-21S-37E	Central Drinkard Unit 28	120
Mobil	E. Carson	2	D, 33-21S-37E	Central Drinkard Unit 33	40
Mobil	E. Carson	3	M, 28-21S-37E	Central Drinkard Unit 28	130
Mobil	E. Carson	6	E, 33-21S-37E	Central Drinkard Unit 33	50
Mobil	E. Carson	7	C, 33-21S-37E	Central Drinkard Unit 33	30
Mobil	E. Carson	12	N, 28-21S-37E	Central Drinkard Unit 28	140
Mobil	H. Corrigan	2	P, 33-21S-37E	Central Drinkard Unit 33	160
Mobil	H. Corrigan	6	O, 33-21S-37E	Central Drinkard Unit 33	150
Skelly	State "K"	3	C, 32-21S-37E	Central Drinkard Unit 32	30
Skelly	State "K"	4	D, 32-21S-37E	Central Drinkard Unit 32	40
Sunray DX	Hardy	1	H, 29-21S-37E	Central Drinkard Unit 29	80
Sunray DX	Hardy	2	G, 29-21S-37E	Central Drinkard Unit 29	70
Sunray DX	Linam	1	A, 29-21S-37E	Central Drinkard Unit 29	10
Sunray DX	Linam	2	B, 29-21S-37E	Central Drinkard Unit 29	20

# Gulf Oil Corporation

LAW DEPARTMENT

Booth Kellough  
DIVISIONAL ATTORNEY  
MIDLAND, TEXAS  
ATTORNEY, ROSWELL  
William V. Kastler

July 16, 1965

MAIN OFFICE  
JUL 19 1965

P. O. Box 1938  
Roswell, N. M. 88201

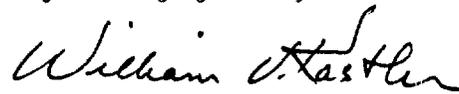
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

Re: Central Drinkard Unit  
Lea County, New Mexico

Gentlemen:

I am enclosing herewith one copy of the Central Drinkard Unit Agreement, the Unit Operating Agreement and Certificate of Effectiveness in connection with the above styled waterflood unit.

Very truly yours,



William V. Kastler

WVK:ejj

Enclosures



June 18, 1965

Gulf Oil Corporation  
P. O. Box 1938  
Roswell, New Mexico

Re: Central Drinkard Unit  
Lea County, New Mexico

Gentlemen:

The Commissioner of Public Lands approved on June 18, 1965, the Central Drinkard Unit, Lea County, New Mexico. The unit will become effective at 7:00 A.M. on the first day of the calendar month following the date of approval of the Commissioner. At such time, we may expect to receive from the Unit Operator a statement of effectiveness.

We are handing Mr. William V. Kastler six originally signed copies of Certificate of Approval of this Unit Agreement, along with Official Receipt No. H-16145 in the amount of Thirty (\$30.00) Dollars, which covers the filing fee.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mr.) Ted Bilberry, Director  
Oil and Gas Department

GBH/MMR/d  
Enclosures

cc: New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico