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Form C-105
Revised 1-1-65

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. LG-3219	

1a. TYPE OF WELL		7. Unit Agreement Name	
b. TYPE OF COMPLETION		8. Farm or Lease Name	
OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	Susco State	
NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	9. Well No.	
DEEPEN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	4	
DIFF. RESVR. <input type="checkbox"/>	OTHER <input type="checkbox"/>	10. Field and Pool, or Wildcat	

2. Name of Operator		9. Well No.	
Southern Union Exploration Company		4	
3. Address of Operator		10. Field and Pool, or Wildcat	
Suite 1800, First International Bldg., Dallas, Texas 75270		Flying "M" San Andres	

4. Location of Well		12. County	
UNIT LETTER 0 LOCATED 1780 FEET FROM THE East LINE AND 660 FEET FROM		Lea	
THE South LINE OF SEC. 19 TWP. 9-S RGE. 33-E NMPM			

15. Date Spudded 7-30-78	16. Date T.D. Reached 8-5-78	17. Date Compl. (Ready to Prod.) 8/23/78	18. Elevations (DF, RKB, RT, GR, etc.) 4367.8 G.L.	19. Elev. Casinghead
20. Total Depth 4500'	21. Plug Back T.D. 4445'	22. If Multiple Compl., How Many	23. Intervals Drilled By Rotary Tools <input checked="" type="checkbox"/> Cable Tools	

24. Producing Interval(s), of this completion - Top, Bottom, Name		25. Was Directional Survey Made
San Andres 4330 - 4408		Yes

26. Type Electric and Other Logs Run	27. Was Well Cored
Sidewall Neutron, Forxo-Guard, Micro-Seismogram & Bond	No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	500'	12-1/4	300 sacks	
4-1/2"	9.5	4500'	7-7/8	200 sacks	

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

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
4330 - 4404 (45 holes)		DEPTH INTERVAL	
		AMOUNT AND KIND MATERIAL USED	
		4330 12,000 gal. acid	

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
9/6/78		Pump				Producing	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
9/6-9/7/78	24	-		48	28.8	51	600
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
	20		48	28.8	51	21.0	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
Sold	Melvin Wilkins

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 <u>James D. Ellis</u>	TITLE <u>Chief Pet. Engr</u>	DATE <u>9/8/78</u>

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 <u>2374</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>2485</u>	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>2850</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg <u>3240</u>	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>3595</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	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. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surface	615	615	Ogalala				
615	1626	1011	Triassic				
1626	1795	169	Dewey Lake				
1795	2375	580	Russ Anhydrite				
2374	2485	111	Yates				
2485	2850	365	7-Rivers				
2850	3240	390	Queen				
3240	3595	355	Grayburg				
3595	4166	571	San Andres				
4166	4314	148	P.I. Marker				
4314	4500	186	Slaughter Zone				
4500			Total Depth				

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	GAS		
OPERATOR			
PRORATION OFFICE			

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I. Operator
Southern Union Exploration Company
Address
Suite 1800, First International Bldg., Dallas, Texas 75270
Reason(s) for filing (Check proper box)
New Well ☒ Change In Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change In Ownership ☐ Casinghead Gas ☐ Condensate ☐
Other (Please explain)
If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Susco State	Well No. 4	Pool Name, Including Formation Flying "M" San Andres	Kind of Lease State, Federal or Fee State	Lease No. LG-3219
Location Unit Letter 0 ; 1780 Feet From The East Line and 660 Feet From The South Line of Section 19 Township 9-S Range 33-E , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Mobil Oil Corporation	Address (Give address to which approved copy of this form is to be sent) P.O.Box 900 Dallas, Texas 75221					
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Warren Petroleum Company	Address (Give address to which approved copy of this form is to be sent) P.O.Box 1589 Tulsa, Oklahoma 74102					
If well produces oil or liquids, give location of tanks.	Unit P	Sec. 19	Twp. 9-S	Rge. 33-E	Is gas actually connected? Yes	When 9/6/78

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well X	Gas Well	New Well X	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded 7-30-78	Date Compl. Ready to Prod. 8/23/78		Total Depth 4500'		P.B.T.D. 4445'			
Elevations (DF, RKB, RT, GR, etc.) 4367.8 G.L.	Name of Producing Formation San Andres		Top Oil/Gas Pay 4330'		Tubing Depth 4438'			
Perforations 4330'-4342', 4346'-4350', 4354'-4368', 4378'-4385', 4396' - 4404'					Depth Casing Shoe 4471'			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12-1/4	8-5/8		500'		300			
7-7/8	4-1/2		4500'		200			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks 9/6/78	Date of Test 9/6-9/7/78	Producing Method (Flow, pump, gas lift, etc.) Pump	
Length of Test 24	Tubing Pressure	Casing Pressure 20	Choke Size -
Actual Prod. During Test	Oil-Bbls. 48	Water-Bbls. 51	Gas-MCF 28.8

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

James D. Ellis
(Signature)
Chief Petroleum Engineer
(Title)
September 8, 1978
(Date)

OIL CONSERVATION COMMISSION

APPROVED SEP 12 1978
BY Jerry S. Seltzer
TITLE SUPERVISOR DISTRICT I

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition. Separate Forms C-104 must be filed for each pool in multiple

INCLINATION REPORT

OPERATOR Southern Union Exploration ADDRESS 1st International Bldg., Suite 1800
Dallas Texas 75270
 LEASE NAME Susco State #4 WELL NO. #4 FIELD _____
 LOCATION Section 19, T-9S, R-33E, Lea County

DEPTH	ANGLE INCLINATION DEGREES	DISPLACEMENT	DISPLACEMENT ACCUMULATED
490	1/4	2.1560	2.1560
660	1/4	.7480	2.9040
1150	1/2	4.2630	7.1670
1650	3/4	6.5500	13.7170
1805	1	2.7125	16.4295
2305	1	8.7500	25.1795
2775	1	8.2250	33.4045
3305	1	9.2750	42.6795
3681	1	6.5800	49.2595
4181	1 1/4	10.900	60.1595
4370	1 1/4	4.1202	64.2797
4500	1 1/4	2.8340	67.1137

I hereby certify that the above data as set forth is true and correct to the best of my knowledge and belief.

CACTUS DRILLING COMPANY

John Ayers

TITLE John Ayers, Office Manager

AFFIDAVIT:

Before me, the undersigned authority, appeared John Ayers
 known to me to be the person whose name is subscribed herebelow, who, on making
 deposition, under oath states that he is acting for and in behalf of the operator
 of the well identified above, and that to the best of his knowledge and belief such
 well was not intentionally deviated from the true vertical whatsoever.

John Ayers

AFFIANT'S SIGNATURE

Sworn and subscribed to in my presence on this the 9th day of August, 19 78

MY COMMISSION EXPIRES MARCH 1, 1980

SEAL

Jerry L. Mays
 Notary Public in and for the County
 of Lea, State of New Mexico

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NEW MEXICO OIL CONSERVATION COMMISSION

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. LG 3219	

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.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. Unit Agreement Name	
2. Name of Operator Southern Union Exploration Company		8. Farm or Lease Name Susco State	
3. Address of Operator Suite 1800, First International Bldg., Dallas, Texas 75270		9. Well No. 4	
4. Location of Well UNIT LETTER 0, 1780 FEET FROM THE East LINE AND 660 FEET FROM THE South LINE, SECTION 19, TOWNSHIP 9-S, RANGE 33-E, NMPM.		10. Field and Pool, or Wildcat Flying "M" San Andres	
15. Elevation (Show whether DF, RT, GR, etc.) 4367.8 GR		12. County Lea	

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☐
OTHER Completion Work ☒

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.

- 7/30/78 - 11:00 A.M. Spudded. Set 1800' of 8-5/8" surface pipe (44 joints). Cemented with 800 sacks of Halliburton Lite containing 9# salt, 3# gilsonite and 1/4# flocele; tailed in with 150 sacks of Class "C" cement.
- 8/1/78 - Drilled out plug, using brine water.
- 8/5/78 - T. D. at 4500', drilled completely with brine water.
- 8/6/78 - Ran Sidewall Neutron and Forxo Guard logs (Welex).
- 8/7/78 - Ran production pipe, 4555' of 4-1/2" (105 joints) had D.V. Tool at 3489'. Cemented 1st stage using 1320 sacks of 50/50 posmix, 2% gell, 5% CFR-2, 6% salt. Second stage of 400 sacks of Halliburton lite with 10# salt, 1/4# flocele and 3# gilsonite. Cut off casing released rig.

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

SIGNED Ronald L. Searcy TITLE Drilling & Production Engineer DATE August 16, 1978

APPROVED BY Jerry Sexton TITLE DATE AUG 21 1978

CONDITIONS OF APPROVAL, IF ANY: