

Released to Imaging: 2/8/2023 10:23:08 AM

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

Received by OCD: 2/8/2023 10:22:00 AM

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

RECEIVED

APR 26 1978

LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PROBATION OFFICE	

Operator Southland Royalty Company	
Address 1100 Wall Towers West, Midland, TX 79701	
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 State "19" Comm.	Well No. 1	Pool Name, including Formation South Miller non Undesignated (Morrow)	Kind of Lease State, Federal or Fee State	Lease No. L-6654
Location				
Unit Letter F ; 1980 Feet From The north Line and 2043 Feet From The west				
Line of Section 19 Township T-19-S Range R-28-E , NMFM, Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent)				
The Permian Corporation	P.O. Box 1183, Houston, TX 77001				
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)				
Natural Gas Pipeline Co. of America	P.O. Box 283, Houston, TX 77001				
If well produces oil or liquids, give location of tanks.	Unit A	Sec. 19	Twp. 19	Rge. 28	Is gas actually connected? no When yes 8-28-78

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

V. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		☒	☒					
Date Spudded 12-18-77	Date Compl. Ready to Prod. 1-22-78		Total Depth 11,100		P.B.T.D. 10,950			
Elevations (DF, RAB, RT, GR, etc.) 3508' GR	Name of Producing Formation Morrow		Top Oil/Gas Pay 10,863		Tubing Depth 10,655			
Perforations 10,863-10,892'					Depth Casing Shoe 11,100			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
17 1/2	13 3/8"		412'		425			
11	8 5/8"		2,482'		600			
7 7/8	4 1/2"		11,100'		1,250			
	2 3/8"		10,655'		-			

VI. 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 oil: able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

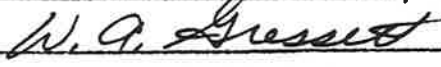
Actual Prod. Test-MCF/D 612	Length of Test 24	Bbls. Condensate/MCF None	Gravity of Condensate NA
Testing Method (pilot, back pr.) Back PR	Tubing Pressure (Shut-in) 3,250	Casing Pressure (Shut-in) 0	Choke Size 3/4

1. 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.

	1 - File
District Engineer	1 - Copy of File
April 24, 1978	1 - Pay of File
(Date)	

OIL CONSERVATION COMMISSION

APPROVED SEP - 1 1978	19
BY 	
TITLE SUPERVISOR, DISTRICT II	

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 conditions.
Separate forms C-104 must be filed for each pool in multi-completed wells.

Released to Imaging: 2/8/2023 10:23:08 AM

MEXICO OIL CONSERVATION COMPANY
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Received by OGD: 2/8/2023 10:22:00 AM
Form C-122
Revised 9-15

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-31-78						
Company Southland Royalty Company					Connection Undesignated						
Pool Undesignated (Morrow)					Formation Morrow		Unit				
Completion Date 2-10-78		Total Depth 11,100'		Plug Back TD 10,950'		Elevation 3508'		Farm or Lease Name State "19" Comm.			
Csg. Size 4.5000	Wt. 11.60#	d	Set At 11,100'	Perforations: From 10,863' To 10,892'		Well No. 1					
Tbg. Size 2.3750	Wt. 4.70#	d	Set At 10,655'	Perforations: From - To -		Unit Sec. Twp. Rge. F 19, 19-S, 28-E					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 10,655'		County Eddy				
Producing Thru Tubing		Reservoir Temp. °F 168 @ 10,878'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.20 psia		State New Mexico			
L 10,878	H 10,878	Gg 0.626	% CO ₂ 0	% N ₂ 0	% H ₂ S 0	Prover 0	Meter Run 2.1	Taps Flange			
FLOW DATA					TUBING DATA		CASING DATA		Duration		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							3250	60			172.0
1.	2.07	x	0.750	464	27.8	81	2910	69	0	0	1.0
2.	2.07	x	0.750	510	76.4	79	2315	71	0	0	1.0
3.	2.07	x	1.250	450	14.6	67	1870	70	0	0	1.0
4.	2.07	x	1.250	480	20.6	63	1680	68	0	0	1.0
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	2.71	115.18	477.2	0.9808	1.2639	1.0403	402				
2	2.71	199.93	523.2	0.9826	1.2639	1.0448	703				
3	8.12	82.24	463.2	0.9937	1.2639	1.0432	875				
4	8.12	100.80	493.2	0.9971	1.2639	1.0470	1080				
5											
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ 0 _____ Mcf/bbl.						
					A.P.I. Gravity of Liquid Hydrocarbons _____ 0 _____ Deg.						
1.	0.71	541	1.47	0.924	Specific Gravity Separator Gas _____ 0.626 _____		XXXXXXXXXX				
2.	0.78	539	1.47	0.916	Specific Gravity Flowing Fluid _____ XXXXX _____		0.626				
3.	0.69	527	1.44	0.919	Critical Pressure _____ 671 _____ P.S.I.A.		671 P.S.I.A.				
4.	0.73	523	1.43	0.912	Critical Temperature _____ 367 _____ R		367 R				
5.											
$P_c = 3263.2 P_c^2 = 10,648$											
NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3703$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2766$						
1		2913	8487	2162	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1379$						
2		2319	5376	5272							
3		1880	3536	7112							
4		1696	2877	7771							
5											
Absolute Open Flow _____ 1379 _____ Mcfd @ 15.025					Angle of Slope Θ _____			Slope, n _____ .792			
Remarks: _____											
Approved By Commission:			Conducted By: F. Justiss			Calculated By: Don Craig			Checked By: Don Craig		

Sent 4-13-7

UNIT :
LEASE : STATE 19 COMM
WELL : 1
S/T/R : 19-19-28
COUNTY: EDDY
STATE : NEW MEXICO

TEST: 4 POINT
: INITIAL
TEST DATE: 3/31/78

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

COMPANY: SOUTHLAND ROYALTY	CONNECTION: UNDESIGNATED
FIELD: UNDESIGNATED (MORROW)	RESERVOIR: MORROW
COMPLETED 2-10-78 TD = 11100.	PBD = 10950. ELEV = 3508.
CSG SIZE = 4.5000 WT = 11.60	SET AT 11100. PERF: 10863. / 10892.
TBG SIZE = 2.3750 WT = 4.70	SET AT 10655. PERF: 0. - 0.
TYPE COMPLETION: SINGLE	PACKER SET AT: 10655.
PRODUCING THROUGH: TBG	BARO. PRESS = 13.20 PSIA
RESERVOIR TEMP., F = 168. @ 10878. FT.	MEAN GROUND TEMP., F = 60.

L	H	G	% CO2	% N2	% H2S	PROVER	M-RUN	TAPS
10878.	10878.	0.626	0.	0.	0.	0.	2.1	FLANGE

NO.	LINE SIZE	ORI. SIZE	FLOW PSIG	HW IN.	FLOW TEMP	TBG. PSIG	TBG. TEMP	CSG. PSIG	CSG. TEMP	FLOW HRS.
SI						3250.	60.			172.0
1	2.07 X 0.750		464.	27.8	81.	2910.	69.	0.	0.	1.0
2	2.07 X 0.750		510.	76.4	79.	2315.	71.	0.	0.	1.0
3	2.07 X 1.250		450.	14.6	67.	1870.	70.	0.	0.	1.0
4	2.07 X 1.250		480.	20.6	63.	1680.	68.	0.	0.	1.0

NO.	COEFFICIENT (24 - HOUR)	SOFT. (HWPM)	PRESS. PM	T-FACTR F (T)	G-FACTR F (G)	SC-FACTR F (PV)	FLOW MCFD
1	2.71	115.18	477.2	0.9808	1.2639	1.0403	402.
2	2.71	199.93	523.2	0.9826	1.2639	1.0448	703.
3	8.12	82.24	463.2	0.9937	1.2639	1.0432	875.
4	8.12	100.80	493.2	0.9971	1.2639	1.0470	1080.

NO.	P (R)	TEMP. R	T (R)	Z		
1	0.71	541.	1.47	0.924	GAS LIQ RATIO, MCF/BBL	0.
2	0.78	539.	1.47	0.916	API G OF HYDROCARBONS	0.
3	0.69	527.	1.44	0.919	SP G SEPARATOR GAS	0.626 XXXXX
4	0.73	523.	1.43	0.912	SP G FLOWING FLUID	XXXXX 0.626
5					CRITICAL PRES., PSIA	671. 671.
					CRITICAL TEMP., R	367. 367.

NO.	PW	PW+PW	PC+PC-PW+PW		
1	2913.	8487.	2162.	PC =	3263.2
2	2319.	5376.	5272.	PC+PC =	10648.
3	1880.	3536.	7112.	PC+PC / (PC+PC-PW+PW) =	1.3703
4	1696.	2877.	7771.	(PC+PC / (PC+PC-PW+PW)) * N =	1.2766
5				ADP (MCF/DAY) =	1379.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 184057

CONDITIONS

Operator: V-F PETROLEUM INC P.O. Box 1889 Midland, TX 79702	OGRID: 24010
	Action Number: 184057
	Action Type: [IM-SD] Well File Support Doc (ENG) (IM-AWF)

CONDITIONS

Created By	Condition	Condition Date
jwrinkle	None	2/8/2023