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NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE
 Form C-103
 Supersedes Old
 C-103 and C-103
 Effective 1-1-65

DEC 24 6 57 AM '69

5a. Indicate Type of Lease

State ☐ Fee ☒

5. State Oil & Gas Lease No.

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 ☐ GAS WELL ☒ OTHER ☐	7. Unit Agreement Name
2. Name of Operator W. K. Byrom	8. Farm or Lease Name J. W. Cooper G
3. Address of Operator Box 147 - Hobbs, New Mexico 88240	9. Well No. 3
4. Location of Well UNIT LETTER <u>E</u> , <u>1650</u> FEET FROM THE <u>North</u> LINE AND <u>330</u> FEET FROM THE <u>West</u> LINE, SECTION <u>3</u> TOWNSHIP <u>20S</u> RANGE <u>37E</u> NMPM.	10. Field and Pool, or Wildcat Undesignated
15. Elevation (Show whether DF, RT, GR, etc.) RT 3570	12. County Lea

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 Recompletion ☐

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.

9-30-69: Moved unit on location and ran cast iron bridge plug at 4200 and 4202.

Perf. from 4177-4185-4190 and 4198 at one shot interval. Acidized well with 500 gallons reg. NE acid. Formation broke at 3000# and treated at 2400# and 3 bbls./ min. Started swab. Show of oil and gas. Well kicked off and started flowing gas and water.

Ran production packer, set at 4138.26, and 135 joints of 2-3/8" tbg. Well shut in waiting on connection.

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

SIGNED W. K. Byrom TITLE Geologist DATE 12-24-69

APPROVED BY [Signature] TITLE SURV DATE 12-24-69

CONDITIONS OF APPROVAL, IF ANY:

NE MEXICO OIL CONSERVATION COMMS: V
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-30-69	
Company J. W. COOPER		Connection -	
Field FORT WORTH		Formation SAN ANDRES	
Completion Date 10-8-69		Total Depth 6800'	Plug Back TD 4202'
		Elevation 3570' KB	Farm or Lease Name J. W. COOPER G
Log Size 1 1/2"	Wt. 11.60	d 4.000	Set At 6800'
Perforations: From 4177' To 4198'		Well No. 3	
Log Size 2 3/4"	Wt. 1.70	d 1.995	Set At 4138'
Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. E 3 20 37	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE			Packer Set At 4138'
Producing Thru 10-8-69			County LEA
Reservoir Temp. °F 106° 4100'		State NEW MEXICO	
Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 11.60	H -	G _g 0.630	% CO ₂ 2.57
		% N ₂ 0.62	% H ₂ S 0.00
		Prover Y	Meter Run -
		Taps -	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g. DW	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1213				72.0
1.	1 1/2"	1761	1"	42	-	61	446	63	-	-	1.0
2.	1 1/2"	1761	1"	31	-	61	570	64	-	-	1.0
3.	1 1/2"	1761	1"	12	-	62	652	64	-	-	1.0
4.	1 1/2"	1761	1"	3	-	62	726	65	-	-	1.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	17.66	-	55.2	0.9990	1.260	-	1187.5
2	17.66	-	44.2	0.9990	1.260	-	950.8
3	17.66	-	25.2	0.9981	1.260	-	511.6
4	17.66	-	16.2	0.9981	1.260	-	348.2
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	1761	521	1.44	-	DRY GAS	-
2	1761	521	1.44	-	A.P.I. Gravity of Liquid Hydrocarbons	-
3	1761	521	1.44	-	Specific Gravity Separator Gas	0.630
4	1761	521	1.44	-	Specific Gravity Flowing Fluid	XXXXX
5	1761	521	1.44	-	Critical Pressure	677
					Critical Temperature	362

NO.	P _w	P _r	P _w ²	P _r ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.075$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.654$
1	1600	2101.5	25600	44163.0	18563.0		
2	1141	21302.3	129181.0	45378.0	32460.0		
3	1201	21664.6	144240.0	46824.0	32400.0		
4	1350	21828.4	182250.0	47744.0	29494.0		
5							

Flow Rate (Mcfd)	1960	Mcf @ 15.025	Angle of Slope °	65° 22'	Slope, n	0.017
Remarks: A.P.I. G. (-618) 4198' USED FOR PRESSURE CALCULATIONS						

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
<i>[Signature]</i>	COLEMAN, R.T., INC. CO.	JOE A. COLEMAN	JOE A. COLEMAN