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Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

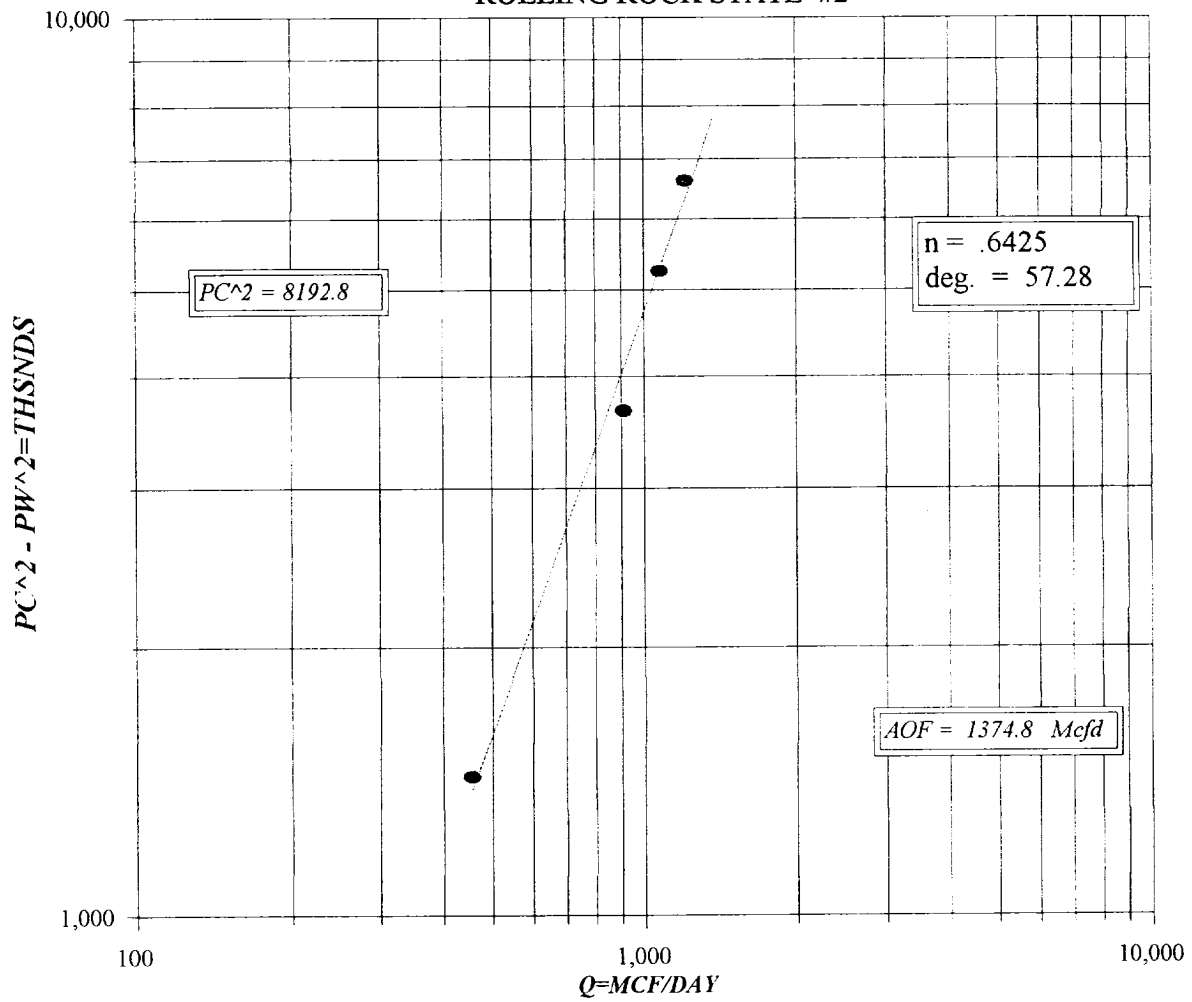
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator NADELL & GUSSMAN PERMAIN				Lease or Unit Name ROLLING ROCK STATE			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9/20/00	Well No. 2
Completion Date		Total Depth		Plug Back TD 10281		Elevation	Unit Ltr - Sec - TWP - Rge 31 23S 25E
Csg. Size	Wt.	d	Set At	Perforations: From: 10387 To: 10393		County EDDY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10281	Perforations: From: To:		Pool Baldridge Canyon Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10281		Formation Morrow	
Producing Thru TUBING		Reservoir Temp. °F 168.8		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10281		H 10281		Gg 0.602	%CO ₂ 0.74	%N ₂ 0.553	%H ₂ S N/A
Prover N/A		Meter Run 3.068		Taps FLG			
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						2765	N/A
1		3.068 X 1.250	518	4	87	2450	
2		3.068 X 1.250	518	16	88	2000	
3		3.068 X 1.250	532	22	89	1590	
4		3.068 X 1.250	547	27	90	1170	
5							
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd
1	7.577	46	531.2	0.975	1.289	1.039	455
2	7.577	92.2	531.2	0.9741	1.289	1.039	911
3	7.577	109.5	545.2	0.9731	1.289	1.039	1075
4	7.577	123	560.2	0.9723	1.289	1.039	1206
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.		
1	0.81	547	1.54	0.926	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2	0.81	548	1.54	0.926	Specific Gravity Separator Gas 0.602 XXXXXX		
3	0.81	549	1.55	0.928	Specific Gravity Flowing Fluid N/A XXXXXX		
4	0.81	550	1.55	0.928	Critical Pressure 674 P.S.I.A. P.S.I.A.		
5					Critical Temperature 354 R. R.		
P _c 2862.3 P _{c2} 8192.8							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.24}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.14$		
1		2599.9	6759.5	1433.3			
2		2129.9	4536.5	3656.3			
3		1719.7	2957.4	5235.4			
4		1259.9	1587.3	6605.5			
5							
Absolute Open Flow 1374.8 Mcfd @ 15.025					Angle of Slope (°): 57.28		Slope n: 0.6425
Remarks: * NO LIQUID MADE DURING TEST. / CALCULATED FROM KNOWN BOTOM HOLE PRESSURES.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MB		Checked By: BM	

NADEL & GUSSMAN PERMAIN
ROLLING ROCK STATE #2



WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (Pc or Pw)
FROM KNOWN BOTTOM HOLE PRESSURE (Pf or Ps)

FORM C-122F

COMPANY: NADEL & GUSSMAN
UNIT: L
LEASE: ROLLING ROWELL NO. : 2
SECTION: 10281
H: 10281
CO2 :
GH: 6189.2
TWN: 10281
L/H: 1
N2 :
PCR: 674
DATE: 9/20/00
RANGE: G/GMIX: 0.6020
H2S: 354
TCR: 354

LINE		1	2	3	4	5	6	7	8
1	Tw(W.H. R)	534	534	534	534	534	534	534	534
2	Ts(B.H. R)	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
3	T=(Tw+Ts/2)	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4
4	Z (EST.)	0.909	0.835	0.828	0.825	0.826	0.830	0.843	0.852
5	TZ	532	489	485	483	484	486	494	499
6	GH/TZ	11.633	12.665	12.765	12.814	12.801	12.736	12.537	12.408
7	eS(TABLE XIV)	1.547	1.608	1.614	1.617	1.616	1.612	1.600	1.592
8	Pf or Ps	3296.7	3296.7	2708.4	2708.4	2183.5	2183.5	1589.9	1589.9
9	Pf2 or Ps2	10868.2	10868.2	7335.4	7335.4	4767.7	4767.7	2527.8	2527.8
10	Pc2=Pf/eS or Pw2=Ps2/eS	7025.9	6759.3	4545.0	4536.6	2950.1	2957.3	1579.7	1587.3
11	Pc or Pw	2651	2600	2132	2130	1718	1720	1257	1260
12	P=(Pw+Ps/2) or (Pc+Pf/2)	2974	2948	2420	2419	1951	1952	1423	1425
13	Pr=(P/Pcr)	4.41	4.37	3.59	3.59	2.89	2.90	2.11	2.11
14	Tr(T/Tcr)	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
15	Z (TABLE XI)	0.835	0.834	0.825	0.825	0.830	0.830	0.852	0.852

PW 1 : 2599.9 PW 2 : 2129.9 PW 3 : 1719.7 PW 4 : 1259.9

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (Pc or Pw)
FROM KNOWN BOTTOM HOLE PRESSURE (Pf or Ps)

FORM C-122F

COMPANY: NADEL & GUSSMAN
UNIT: L
LEASE: ROLLING ROWELL NO. : 2
SECTION : 10281
TWN: 10281
L/H : 1
G/GMIX : 0.6020
CO2 :
N2 :
H2S :
CH : 6189.2
PCR : 674
TCR : 354
DATE : 9/20/00
RANGE :

LINE		1	2	3	4	5	6	7	8
1	TW(W.H. R)	534	534	534	534	534	534	534	534
2	Ts(B.H. R)	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
3	T=(Tw+Ts/2)	585.4	585.4	585.4	585.4	585.4	585.4	585.4	585.4
4	Z (EST.)	0.926	0.846	ERR	ERR	ERR	ERR	ERR	ERR
5	TZ	542	495	ERR	ERR	ERR	ERR	ERR	ERR
6	GH/TZ	11.423	12.503	ERR	ERR	ERR	ERR	ERR	ERR
7	eS(TABLE XIV)	1.535	1.598	ERR	ERR	ERR	ERR	ERR	ERR
8	Pf or Ps	3618.5	3618.5	0	0	0	0	0	0
9	Pf2 or Ps2	13093.5	13093.5	0.0	0.0	0.0	0.0	0.0	0.0
10	Pc2=Pf/eS or Pw2=Ps2/eS	8531.3	8192.9	ERR	ERR	ERR	ERR	ERR	ERR
11	Pc or Pw	2921	2862	ERR	ERR	ERR	ERR	ERR	ERR
12	P=(Pw+Ps/2)or(Pc+Pf/2)	3270	3240	ERR	ERR	ERR	ERR	ERR	ERR
13	Pr=(P/Pcr)	4.85	4.81	ERR	ERR	ERR	ERR	ERR	ERR
14	Tr(T/Tcr)	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
15	Z (TABLE XI)	0.846	0.844	ERR	ERR	ERR	ERR	ERR	ERR

PC PW 1 : 2862.3 PW 2 : ERR PW 3 : ERR PW 4 : ERR

Laboratory Services, Inc.
 4016 Fiesta Drive
 Hobbs, New Mexico 88240

Telephone: (505) 397-3713

 FOR: Pro Well Testing & Wireline
 P. O. Box 791
 Hobbs, New Mexico 88241

 SAMPLE:
 IDENTIFICATION: Rolling Rock State #2
 COMPANY: Nadel & Gussman Permian
 LEASE:
 PLANT:

 SAMPLE DATA: DATE SAMPLED: 9/20/00 2:00 pm
 ANALYSIS DATE: 9/21/00
 PRESSURE - PSIG 547
 SAMPLE TEMP. °F 84
 ATMOS. TEMP. °F

 GAS (XX) LIQUID ()
 SAMPLED BY: Ray Gallagher
 ANALYSIS BY: Vickie Walker

REMARKS: Sample taken @ the meter run.

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.553	
Carbon Dioxide (CO2)	0.740	
Methane (C1)	93.698	
Ethane (C2)	3.510	0.937
Propane (C3)	0.896	0.246
I-Butane (IC4)	0.147	0.048
N-Butane (NC4)	0.202	0.064
I-Pentane (IC5)	0.082	0.030
N-Pentane (NC5)	0.052	0.022
Hexane Plus (C6+)	0.208	0.090
	100.000	1.437

 BTU/CU.FT. - DRY 1057
 AT 14.650 DRY 1054
 AT 14.650 WET 1035
 AT 14.73 DRY 1059
 AT 14.73 WET 1041

MOLECULAR WT. 17.4439

 SPECIFIC GRAVITY -
 CALCULATED 0.602
 MEASURED