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

30-015-31091

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: KUKUI OPERATING CO.			Lease or Unit Name: GOODNIGHT 35 FED		
Type Test: ☑ Initial ☐ Annual ☐ Special			Test Date: 8/12/00	Well No.: 1	
Completion Date	Total Depth: 11571	Plug Back TD: 11516	Elevation	Unit Ltr - Sec - TWP - Rge: N, 35 23-S 29-E	
Csg. Size: 4 1/2 / Wt.: 13.5 / d: 3.92 / Set At: 11571		Perforations: From: 11439 To: 11464		County: EDDY	
Tbg. Size: 2 7/8 / Wt.: 8.7 / d: 2.259 / Set At: 10,325		Perforations: From: To:		Pool - Wildcat-Wolfcamp: 96086	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE		Packer Set At: 10312		Formation: WOLFCAMP Gas	
Producing Thru: TUBING	Reservoir Temp.°F: 177.2	Mean Annual Temp. °F: 60	Baro. Press.-P_a: 13.2	Connection: SALES	

L	H	Gg	$\%CO_2$	$\%N_2$	$\%H_2S$	Prover	Meter Run	Taps
10325	10325	0.655	0.167	2.12	N/A	N/A	4.026	FLG

	FLOW DATA				TUBING DATA		CASING DATA		
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					7100	N/A	PKR	N/A	
1	4.026 X 1.750	610	3	73	6610				1 HR
2	4.026 X 1.750	600	5	75	6375				1 HR
3	4.026 X 1.750	620	22	73	6120				1 HR
4	4.026 X 1.750	685	27	74	6015				1 HR
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	14.93	43.2	633.2	0.9877	1.236	1.049	825
2	14.93	55.3	613.2	0.9859	1.236	1.048	1054
3	14.93	118	633.2	0.9877	1.236	1.049	2256
4	14.93	137.3	698.2	0.9868	1.236	1.048	2620
5							

No.	P_r	Temp. °R	T_r	Z
1	0.79	533	1.44	0.908
2	0.79	535	1.45	0.911
3	0.79	533	1.44	0.909
4	0.79	534	1.45	0.911
5				

Gas Liquid Hydrocarbon Ratio	28.146	Mcf bbl.	
A.P. I. Gravity of Liquid Hydrocarbons	58.5	Deg.	
Specific Gravity Separator Gas	0.655	XXXXXXX	
Specific Gravity Flowing Fluid	XXXXX		
Critical Pressure	671	P.S.I.A.	P.S.I.A.
Critical Temperature	368	R.	R

P_c 7113.2 P_c^2 50597.6

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		6624.1	43878.1	6719.5
2		6389.6	40827.2	9770.4
3		6139.8	37696.8	12900.8
4		6037.1	36446.9	14150.7
5				

(1) $\dfrac{P_c^2}{P_c^2 - P_w^2} =$ 3.57 (2) $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 3.57

AOF = Q $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 9.368

Absolute Open Flow 9.368 Mcfd @ 15.025 Angle of Slope (): 45 Slope n: 1

Remarks: *WELL MADE 10 BBLS OF 58.8 API GRAVITY CONDENSATE DURING TEST.

Approved By Division:	Conducted By: PRO WELL TESTING	Calculated By: MB	Checked By: BM

Form 3160-4
(AUGUST 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30,2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM - 103604

1a. Type of Well ☐ OilWell ☒ Gas Well ☐ Dry Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: KUKUI Operating Company

8. Lease Name and Well No. Goodnight 35 Federal # 1

3. Address: 601 Vestavia Pkwy., St. 240, Vestavia, Alabama 35216

3a. Phone No. (include area code): (205) 823 - 2977

9. API Well No. 30 - 015 - 31096

10. Field and Pool, or Exploratory ~~Wildcat~~ - Wolfcamp Gas (Laguna Grande)

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At Surface: 2,180' FWL & 660' FSL Sec. 35 - T23S - R29E
At top prod. interval reported below
At total depth

11. Sec., T., R., M., on Block and Survey or Area: Sec. 35 - 23S - 29E

12. County or Parish: Eddy 13. State: New Mexico

14. Date Spudded: 4 / 28 / 2000
15. Date T.D. Reached: 6 / 9 / 2000
16. Date Completed: ☐ D & A ☒ Ready to Prod. 8 / 10 / 2000
17. Elevations (DF, RKB, RT, GL)*: 3,100' GL

18. Total Depth: MD 11,593' DPM TVD
19. Plug Back TD: MD 11,516' WLM TVD
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
IL & NGRL (Delaware)
SD - NL (Wolfcamp)
DLL - MSFL - GR & CNL - LDT - GR (Bone Spring)
CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☐ No ☒ Yes (Submit report)
Directional Survey? ☒ No ☐ Yes (Submit Copy)

23. Casing and Liner Record (Report all strings in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Tool Depth	No. of Sks. & Type of Cement	Slurry (Bbls.)	Cement Top*	Amount Pulled
17 1/2"	13 3/8" J-55	54.50	surface	581'		470 sks. Class C	147	surface	
12 1/4"	9 5/8" K - 55	36.0	surface	3,150'		1,000 sks. Class C	354	surface	
8 3/4"	7" P - 110	26.0	surface	10,609'	7,197'	1,015 sks. Class H	242	5,350' (CBL)	
6 1/8"	4 1/2" P - 110	13.5	10,512'	11,571'		150 sks. Class H	25	10,512'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (M
2 7/8"	10,325'	Model M @ 10,312'						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	Wolfcamp	11,414' (CBL)	11,464' (CBL)	11,439' - 11,464' 2 spf	.28"	50	Schlumberger - 8 / 10 / 2000
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10,512' - 10,609' +	Squeeze liner top with 50 sks. Class H (9 bbls.) Note: Volume included in section 23.

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28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBLS.	Gas MCF	Water BBLS.	Oil Gravity Corr. API	Gas Gravity	Production Method
8/11/2000	8 / 12 / 2000	4	→	10	281	0.4	58.5	0.665	Flowing

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBLS.	Gas MCF	Water BBLS.	Gas / Oil Ratio	Well Status
variable ~ 10/64	6,300 7,100	3,700	→	60	1,686	2.4	28.15	Flowing to sales

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBLS.	Gas MCF	Water BBLS.	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBLS.	Gas MCF	Water BBLS.	Gas / Oil Ratio	Well Status
			→					

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBLS.	Gas MCF	Water BBLS.	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBLS.	Gas MCF	Water BBLS.	Gas / Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBLS.	Gas MCF	Water BBLS.	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBLS.	Gas MCF	Water BBLS.	Gas / Oil Ratio	Well Status
			→					

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

31. Formation (Log) Markers

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests. including depth interval tested, cushion used, time tool opened, flowing and shut-in pressures and recoveries.

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Delaware	5,714' 6,390'	5,900' 6,790'	Oil, Gas, and Water	Lamar Delaware Bone Spring	3,190' 3,250' 6,918'
Bone Spring	7,960' 8,970'	8,280' 9,074'	Oil, Gas, and Water	Wolfcamp	10,498'
Wolfcamp	11,414'	11,464'	Oil, Gas, and Water		

32. Additional remarks (include plugging procedure):

Like reports, logs, and attachments sent to NMOCD District 2 office.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd) 2. Geologic Report 3. DST Report 4. Directional Survey

5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other deviation survey, wellbore schematic

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)

Name (please print) Larry K. Strider Title District Operations Manager

Signature Larry K. Strider Date 8/16/2000

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.