

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 20005. Lease Serial No.
NM 915071a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.,
Other6. If Indian, Allottee or Tribe Name
N/A7. Unit or CA Agreement Name and No.
N/A2. Name of Operator
Cabal Energy Corporation8. Lease Name and Well No.
Wild Hog 11 Federal # 13. Address
415 W. Wall, Ste 1700 - Midland, TX 797013a. Phone No. (include area code)
(432) 682-04409. API Well No.
30-015-31943

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 990' FSL & 1980' FWL

At top prod. interval reported below Same as surface

At total depth Same as surface

10. Field and Pool, or Exploratory
Indesignated-White City-Wol11. Sec., T., R., M., on Block and
Survey or Area Sec 11-T25S-R2E12. County or Parish
Eddy13. State
NM14. Date Spudded
8/24/0315. Date T.D. Reached
10/1/0316. Date Completed
☐ D & A ☒ Ready to Prod.17. Elevations (DF, RKB, RT, GL)*
3496' KB18. Total Depth: MD11670'
TVD19. Plug Back T.D.: MD9879'
TVD20. Depth Bridge Plug Set: MD 9914'
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
LD/CN/GR/NGR/CCL/BLS/LL/MCFL/FMI22. 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 set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Skts. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8K/P	61	0	270	N/A	490 C/H	184	SFC	N/A
12-1/4	9-5/8 P	47	0	1460	N/A	875 C	396	SFC	N/A
8-3/4	7" P	29	0	8549	N/A	1300 H	746	SFC	N/A
6-1/8	4-1/2 P	13.5	8233	11654	N/A	570 H	242	8233	N/A

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8	9320'	9317'	--	--	--	--	--	--

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Wolfcamp	9480	9497	11274-297	4-1/2	92	CIBP @ 11,000 36' CMT
B)			10433-503	4-1/2	89	CIBP @ 10,300 36' CMT
C)			10092-120	4-1/2	85	CIBP @ 9914 35' CMT
D)			9480-497	4-1/2	17	Open Producing

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

Depth Interval	Amount and Type of Material
11274-297	2500 GAL 7-1/2% BC, Frac w/45720# 20/40 Ceramic Prop
10433-503	4000 GAL 20% Gelled HCI
10092-120	3000 GAL 15% HCI (Twice)
9214-480	2000 GAL 20% Gelled HCI

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
5/10/04	5/10/04	4	→	0	88	0	48.3	.614	TESTING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
9/64	1175	0	→	2	361	8	180,500	Flowing to pipeline	Flowing to pipeline

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on reverse side)

LES BABYAK
PETROLEUM ENGINEER

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

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

SOLD SINCE 5/13/04 FLARED PRIOR TO 5/13/04

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Delaware Sand	1586	1632	Dirty Sands	Base Anhydrite/Top Delaware	1483
Delaware Sand	1672	1800	Dirty Sands	Top Cherry Canyon	2308
Delaware Sand	1879	1962	Dirty Sands	Bone Springs Carbonate	5262
Lower Brushy Canyon	4800	4900	Oil & Gas Filled Sand	Base Springs Carbonate	7475
Upper Bone Springs	5065	5130	Gassy Sand	Hot Wolfcamp Shale	8050
Wolfcamp Carbonates	9214	9498	Low porosity Gas Productive Carbonate	Strawn	10164
Lower Middle Morrow	11274	11298	Gassy Tight Sand	Atoka	10515
				Morrow Lime	10736
				Morrow Clastic	10908
				Base Middle Morrow Shale	11124
				Lower Morrow Shale	11298
				Base Lower Morrow Shale	11408

32. Additional remarks (include plugging procedure):

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:

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) Randell K. Ford

Title President

Signature

Randell K Ford

Date July 6, 2004

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.

Deviation surveys taken on the CABAL ENERGY
Eddy County New Mexico

Wildhog 11 Fed #1

Depth	Deviation
133	0.75
270	1.00
401	1.00
655	0.75
964	1.00
1460	1.00
1768	0.75
2254	1.00
2754	0.50
3254	1.00
3747	1.00
4218	0.75
4718	0.75
5215	1.25
5701	3.75
5857	2.00
6015	1.00
6331	1.25
6672	2.00
6802	2.50
6929	2.50
7055	2.50
7181	2.25
7339	1.50
7529	0.75
7844	0.75
8127	0.75
8504	0.75
9040	0.75
9540	1.00
10481	0.75
11060	1.00



Before me, the undersigned authority, on this day personally appeared Henry McElroy, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is the drilling contractor of the well identified in this instrument and that such well was not intentionally deviated from the vertical whatsoever.

SWORN AND SUBSCRIBED TO before me this 6th of October 2003



Deviation surveys taken on the CABAL ENERGY
Eddy County New Mexico

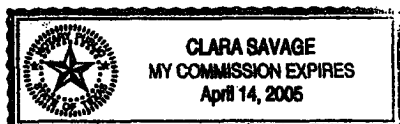
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SWORN AND SUBSCRIBED TO before me this 6th of October 2003



[Signature]
Clara Savage

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 WELLS

Operator CABAL ENERGY				Lease or Unit Name WILD HOG "11" FED			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5/10/2004		Well No. 1	
Completion Date		Total Depth		Plug Back TD 9900		Elevation	
Csg. Size 4 1/2		Wt. 11.6		d 4		Set At 9900	
Tbg. Size 2 3/8		Wt. 4.7		d 1.995		Set At 9097	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 9097		Formation WOLFCAMP	
Producing Thru TUBING		Reservoir Temp. 150		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
L 9097		H 9097		Gg 0.614		%CO ₂ 0.254	
				%N ₂ 0.616		%H ₂ S	
				Prover		Meter Run 4.026	
						Taps FLG	

FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp.	Press p.s.i.g.	Temp.	
SI						3848		
1		4.026 X 1.000	481	6	73	3394		
2		4.026 X 1.000	481	10.4	75	2986		
3		4.026 X 1.000	472	16.2	74	2650		
4		4.026 X 1.000	472	24.2	76	2293		
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							226
2	TOTAL	FLOW	METER				447
3							650
4							781
5							

No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Mcf bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons	N/A	Deg.
2					Specific Gravity Separator Gas	0.614	XXXXXXX
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid	XXXXXX	
4					Critical Pressure	674	P.S.I.A.
5					Critical Temperature	358	R.

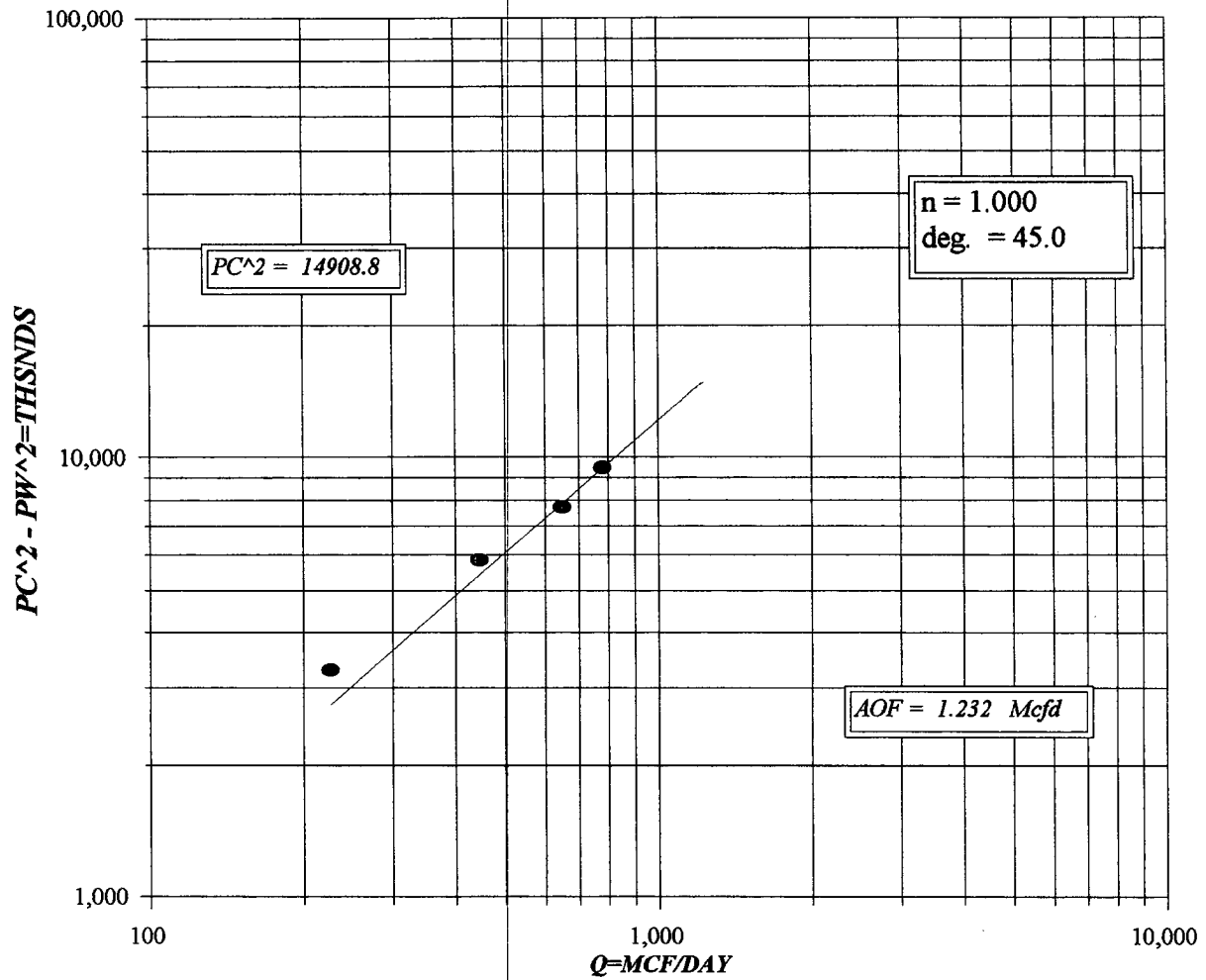
P _c P _w ²			
No.	P _t ²	P _w	P _w ²
1		3409.8	11626.5
2		3009.2	9055.4
3		2684.3	7205.6
4		2336.6	5459.7
5			

$(1) \quad \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.578}{\quad}$		$(2) \quad \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.578}{\quad}$	
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{79825}{\quad}$		1.232	

Absolute Open Flow	1.232	Mcf/d @ 15.025	Angle of Slope (°)	45	Slope n:	1
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Remarks: * WELL MADE NO LIQUID DURING TEST.			
Approved By Division:	Conducted By: PRO WELL TESTING	Calculated By: MERV BUECKER	Checked By: BM

CABAL ENERGY
WILD HOG "11" FED #11



COMPANY : CABAL ENERGY		LEASE : WILD HOG 11 FED		WELL NO. : 1		Pc = 3861.2		Pc2 = 14908.8	
UNIT : L : 9097 H : 9097		SECTION : 11		TOWNSHIP : 25S		P12 = 11609.0		Pw = 3409.8	
%CO2 : 0.254		%N2 : 0.616		1 G/GMIX		8995.2		3009.2	
d : 1.995		Fr : 0.018183		H2S : 8197.0		DATE : 5/10/04		2684.3	
						RANGE : 25E		2336.6	
								5318.6	
VOL 1 : 226		PSIA 1 : 3407.2		RESV.TEMP : 150.0		Pc2-Pw2 = 3282.3		Pw2 = 11626.5	
VOL 2 : 447		PSIA 2 : 2999.2				5853.4		9055.4	
VOL 3 : 650		PSIA 3 : 2663.2		SHUT-IN PRESS = 3861.2		7703.2		7205.6	
VOL 4 : 781		PSIA 4 : 2306.2				9449.1		5459.7	
		PCR : 3861				n = 1.000			
		TCR : 14909				Pc2/(Pc2-Pw2) = 4.542			
LINE		RATE 1		RATE 2		RATE 3		RATE 4	
		1ST		2ND		1ST		2ND	
1 QM		0.226		0.226		0.447		0.447	
2 TW		534		534		534		534	
3 Ts		610.0		610.0		610.0		610.0	
4 T		572.0		572.0		572.0		572.0	
PR (est)		0.88		0.78		0.69		0.60	
5 Z(est)		6.013		6.153		5.294		5.441	
6 TZ		3439.5		3519.3		3028.2		3112.1	
7 GH/TZ		2.383		2.329		2.707		2.634	
8 eS		1.093		1.091		1.107		1.104	
9 I-e-S		0.085		0.084		0.097		0.094	
10 Pt		3407.2		3407.2		2999.2		2999.2	
11 Pt2 /1000		11609.0		11609.0		8995.2		8995.2	
12 Fr		0.018183		0.018183		0.018183		0.018183	
13 Fc=FrTZ		62.541		63.992		55.061		56.586	
14 FcQm		14.13		14.46		24.61		25.29	
15 L/H(FcQm)2		199.8		209.2		605.8		639.8	
16 Fw		17.079353		17.493059		58.472926		60.17381	
17 Pw2		11626.1		11626.5		9053.7		9055.4	
18 Ps		12712.9		12687.7		10021.0		9995.5	
19 Ps		3565.5		3562.0		3165.6		3161.6	
20 P		3486.4		3484.6		3082.4		3080.4	
21 Pr		0.90		0.90		0.80		0.71	
22 Tr		0.04		0.04		0.04		0.04	
23 Z		6.153		6.150		5.441		5.437	
						4.859		4.855	
						4.238		4.234	
								141.137388	
								5459.7	
								6197.8	
								2489.5	
								2397.9	
								0.62	
								0.62	
								0.04	
								0.04	
								4.234	
								FORM C122-D	



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: Wild Hog 11 Fed. #1
COMPANY: Cabal Energy
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 5/10/04
ANALYSIS DATE: 5/11/04
PRESSURE - PSIG 478
SAMPLE TEMP. °F 68
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: B. P.-J.S.
ANALYSIS BY: Vickie Biggs

REMARKS: Wolfcamp formation
Sample taken @ the meter run.

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.616	
Carbon Dioxide (CO2)	0.254	
Methane (C1)	91.322	
Ethane (C2)	5.682	1.516
Propane (C3)	1.237	0.340
I-Butane (IC4)	0.245	0.080
N-Butane (NC4)	0.259	0.081
I-Pentane (IC5)	0.098	0.036
N-Pentane (NC5)	0.064	0.023
Hexane Plus (C6+)	0.223	0.097
	100.000	2.173
BTU/CU.FT. - DRY	1088	MOLECULAR WT. 17.8025
AT 14.650 DRY	1084	
AT 14.650 WET	1065	
AT 14.73 DRY	1090	
AT 14.73 WET	1071	
SPECIFIC GRAVITY - CALCULATED	0.614	
MEASURED		