N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side

RECEIVED
SEP 17 2004
OCD-ARTESIA

5. Lease Serial No.
NM 93180

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
34020

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
Fed-Com 1625 #261

2. Name of Operator **Perenco LLC**

9. API Well No.
30-015-33435

3a. Address
6 Desta Drive, Suite 6800, Midland, TX, 79705

3b. Phone No. *(include area code)*
432 682 8553

10. Field and Pool, or Exploratory Area
Wildcat, Wolfcamp (gas)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*

SURFACE: SL: 700' FNL and 660' FWL, UL D, Sec 26, T16S R25E
BOTTOM HOLE LOCATION: 700' FNL and 660' FEL, UL A, Sec 26, T16S R25E

11. County or Parish, State
Eddy Co. NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☑ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

7/31/04-8/2/04 - Well recompleted to install a pre-perforated liner. The lateral section was re-entered with a 6-1/8" bit to ensure clear passage for the 4-1/2" pre perforated liner that was then installed. The liner was hung off a packer set at 4741'

08/10/04 - An acid stimulation was conducted . Achieved an average rate of 92 bbl/min @ 3927 psi during Acid stage. Pumped 75,978 gals 15% NEFE HCl Acid. Flushed Acid with 10,569 gals 2% KCl water. (20 bbl overflush to last perf). 4067 psi @ 88 bbl/min during flush.

08/11/04 - RIH with 2-3/8" tubing and packer. Well kicked off through tubing at 3930' MD. Killed well by pumping 25 bbls 2% KCl down tubing. The packer was set and the well flowed 1 to 2 bbls/hr while NU wellhead. Well was flowed to pit for 1 hour. Made 13 swab runs. hitting some gas pockets whilst running in with swab tool. The final fluid level was 2200'. Well SIFN.

08/12/04 - 42 swab runs were made to lower level to 3000'. Well SIFN. Will continue swab/flow/SI cycles.

ACCEPTED FOR RECORD
SEP 15 2004
LES BABYAK
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Stephen Howe Title **Petroleum Engineer**

Signature *Stephen Howe* Date **08/16/2004**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office

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.

(Instructions on page 2)

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

RECEIVED
SEP 20 2004
OCD-ARTESIA

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator				Lease or Unit Name					
PERENCO				FED. COM. 1625					
Type Test: ☑ Initial ☐ Annual ☐ Special						Test Date: 8/26/04		Well No.: 261	
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Ltr - Sec - TWP - Rge	
Csg. Size: 7"	Wt.: 26#	d	Set At: 4850	Perforations: From: 4916 To:				County: EDDY	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 2.441	Set At: 4916	Perforations: From: To:				Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE				Packer Set At: 4916				Formation	
Producing Thru: TBG	Reservoir Temp.°F: 110.8 @ 4916		Mean Annual Temp. °F: 60	Baro. Press.-P_a: 13.2				Connection	
L: 4916	H: 4916	Gg: 0.704	%CO_2: 2.825	%N_2: 1.576	%H_2S: N/A	Prover: N/A	Meter Run: 4.026		Taps: 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						772		PKR		24 HRS
1	4	X 1.000	264	0.5	78	751		"		1 HR
2	4	X 1.000	264	1	77	700		"		1HR
3	4	X .750	264	26	76	768		"		1 HR
4	4	X .750	277	68.9	75	644		"		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	4.753	11.77	277.2	0.9831	1.192	1.033	68
2	4.753	16.65	277.2	0.984	1.192	1.033	96
3	2.661	84.9	2.772	0.985	1.192	1.033	274
4	2.661	141.4	2.90.2	0.9859	1.192	1.052	465
5							

No.	P_r	Temp. °R	T_r	Z
1	0.41	538	1.39	0.937
2	0.41	537	1.39	0.937
3	0.41	536	1.39	0.937
4	0.75	535	1.38	0.904
5				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: 0.704 XXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: * 675 P.S.I.A. P.S.I.A.
Critical Temperature: * 386 R. R

P_o 785.2 P_c2 616.5

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		764.3	584.1	32.5
2		713.3	508.8	107.7
3		782	611.6	5
4		660.1	435.8	180.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 18.996 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 4.346

AOF = Q 79825 $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 0.295

Absolute Open Flow: 295 Mcfd @ 15.025 | Angle of Slope Q: 63.5 | Slope n: 0.499

Remarks: WELL PRODUCED 4.0 BBLS H20---* CORRECTED TO 2.825 CO2 & 1.576 % N2

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	Metering & Testing	BM	BM

Laboratory Services, Inc.
2609 West Marland
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Metering & Testing, Inc.
Attention: Mr. Tom Duncan
2807 West County Road
Hobbs, New Mexico 88240

SAMPLE:
IDENTIFICATION: Fed. Com 1625 #261
COMPANY: Perenco
LEASE:
PLANT:

SAMPLE DATA:
DATE SAMPLED: 8/26/04 1:00PM
ANALYSIS DATE: 8/27/04
PRESSURE – PSIG 250
SAMPLE TEMP. °F 90
ATMOS. TEMP. °F 90

GAS (XX) LIQUID ( )
SAMPLED BY: Al Lewis
ANALYSIS BY: Rolland Perry

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
Hydrogen Sulfide	(H2S)	0.000	
Nitrogen	(N2)	1.576	
Carbon Dioxide	(CO2)	2.825	
Methane	(C1)	82.281	
Ethane	(C2)	7.249	1.934
Propane	(C3)	3.267	0.898
I-Butane	(IC4)	0.521	0.170
N-Butane	(NC4)	1.038	0.327
I-Pentane	(IC5)	0.293	0.107
N-Pentane	(NC5)	0.288	0.104
Hexane Plus	(C6+)	0.662	0.287
		100.000	3.827

BTU/CU.FT. – DRY	1147
AT 14.650 DRY	1144
AT 14.650 WET	1124
AT 14.73 DRY	1150
AT 14.73 WET	1130

MOLECULAR WT. 20.4407

SPECIFIC GRAVITY –	
CALCULATED	0.704
MEASURED	

0 COMPANY : PERENCO LEASE : FED. COM. 1625 WELL NO. : 261

UNIT : SECTION : TOWNSHIP :

L : 5000 * H : 4916 L/H : 1 G/GMIX : 0.704

%CO2 : 2.825 %N2 : 1.576 H2S : DATE :8-26-04

d : 1.995 Fr :0.018231 GH : 3460.9 RANGE :

VOL 1 : 68 PSIA 1 : 764.2 RESV.TEMP 110.8

VOL 2 : 96 PSIA 2 : 713.2

VOL 3 : 274 PSIA 3 : 781.2 SHUT-IN PR= 785.2

VOL 4 : 465 PSIA 4 : 657.2

PCR : 675

TCR : 386

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	`1ST	`2ND	`1ST	``2ND	`1ST	`2ND	`1ST	`2ND
1 QM	0.068	0.068	0.096	0.096	0.274	0.274	0.465	0.465
2 TW	534	534	534	534	534	534	534	534
3 Ts	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8
4 T	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4
PR (est)	1.13		1.06		1.16		0.97	
5 Z(est)	0.849	0.840	0.857	0.848	0.846	0.837	0.866	0.858
6 TZ	468.7	463.7	473.3	468.6	467.2	462.1	478.3	473.8
7 GH/TZ	7.384	7.463	7.313	7.386	7.407	7.490	7.236	7.304
8 eS	1.319	1.323	1.316	1.319	1.320	1.324	1.312	1.315
9 1-e-S	0.242	0.244	0.240	0.242	0.243	0.245	0.238	0.240
10 Pt	764.2	764.2	713.2	713.2	781.2	781.2	657.2	657.2
11 Pt2 /1000	584.0	584.0	508.7	508.7	610.3	610.3	431.9	431.9
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.0182311
13 Fc=FrTZ	8.545	8.455	8.628	8.543	8.518	8.425	8.720	8.639
14 FcQm	0.58	0.57	0.83	0.82	2.33	2.31	4.05	4.02
15 L/H(FcQm)	0.3	0.3	0.7	0.7	5.5	5.4	16.7	16.4
16 Fw	0.083061	0.082061	0.167360	0.165496	1.343717	1.327007	3.973751	3.9320678
17 Pw2	584.1	584.1	508.8	508.8	611.6	611.6	435.9	435.8
18 Ps2	770.4	772.7	669.4	671.2	807.4	809.9	571.8	573.2
19 Ps	877.7	879.0	818.1	819.3	898.6	900.0	756.2	757.1
20 P	821.0	821.6	765.7	766.2	839.9	840.6	706.7	707.1
21 Pr	1.22	1.22	1.13	1.14	1.24	1.25	1.05	1.05
22 Tr	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
23 Z	0.840	0.839	0.848	0.848	0.837	0.836	0.858	0.858

Pc = 785.2 Pc2 = 616.5

Pt2 = 584.0 Pw = 764.3

508.7 713.3

610.3 782.0

431.9 660.2

Pc2-Pw2= 32.5 Pw2 = 584.1

107.7 508.8

4.9 611.6

180.7 435.8

n = 0.499

Pc2/(Pc2-Pw2) = 18.997

5.724

124.841

3.412

[Pc2/Pc2-Pw2]n = 4.346

2.388

11.119

1.845

AOF= Q 0.295

0.229

3.047

0.858

FORM C122-D

PERENCO

FED. COM 1625 #261