

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources

Form C-105
Revised June 10, 2003

District I
1625 N. French, Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-33053

5. Indicate Type Of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
33040

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____

b. Type of Completion:
NEW WELL ☐ WORK OVER ☒ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER Add lateral

2. Name of Operator
Perenco LLC

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

4. Well Location

Unit Letter N : 660 Feet From The South Line and 1980 Feet From The West Line

Section 31 Township 17S Range 24E NMPM Eddy County

10. Date Spudded 12/26/03 11. Date T.D. Reached 5/17/04 12. Date Compl. (Ready to Prod.) 6/1/04 13. Elevations (DF & RKB, RT, GR, etc.) 3861' GR 14. Elev. Casinghead

15. Total Depth 8609' MD 4750' TVD 16. Plug Back T.D. 8609' MD 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By 19. Producing Interval(s), of this completion - Top, Bottom, Name N/A 20. Was Directional Survey Made Yes

21. Type Electric and Other Logs Run
None

22. Was Well Cored
No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	225'	17-1/2"	650 sx Class "C"+additives	5 bbls
9-5/8"	36#	1208'	12-1/4"	1015 sx Class "C"+additive	1 bbl
7"	26#	4977'	8-3/4"	487 sx Class "C"+additives	TOC @ 1300'

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"	4360'	8607'	Slotted		2-3/8"	4211'	4211'

25. TUBING RECORD

26. Perforation record (interval, size, and number)

Slotted liner 4360 - 8607' (62 holes)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4360-8607'	81917 gals 15% HCL
4460'	CIBP
4450'	Whipstock

28. PRODUCTION

Date First Production 6/2/04 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Producing

Date of Test 6/8/04 Hours Tested Attached Choke Size Prod'n For Test Period Oil - Bbl. Gas - MCF Water - Bbl. Gas - Oil Ratio

Flow Tubing Press. 439# Casing Pressure Pkr Calculated 24-Hour Rate Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API -(Corr.)

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

30. List Attachments

C-122, C-122D, back pressure curve, directional survey, C-102

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Lisa Hunt Printed Name Lisa Hunt Title Regulatory Tech Date 7/9/04
E-mail address lhunt@us.perenco.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northeastern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta 1717	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb 3024	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo 3678	T.	T. Wingate	T.
T. Wolfcamp 4821		T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from to
No. 2, from to

No. 3, from to

No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet

No. 2, from to feet

No. 3, from to feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology
			No change since initial completion filed 2/20/04

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-33053	Pool Code 7766e	Pool Name Gopher Abo gas
Property Code 33040	Property Name STATE 1724	Well Number 311
OGRID No. 218885	Operator Name PERENCO LLC	Elevation 3861'

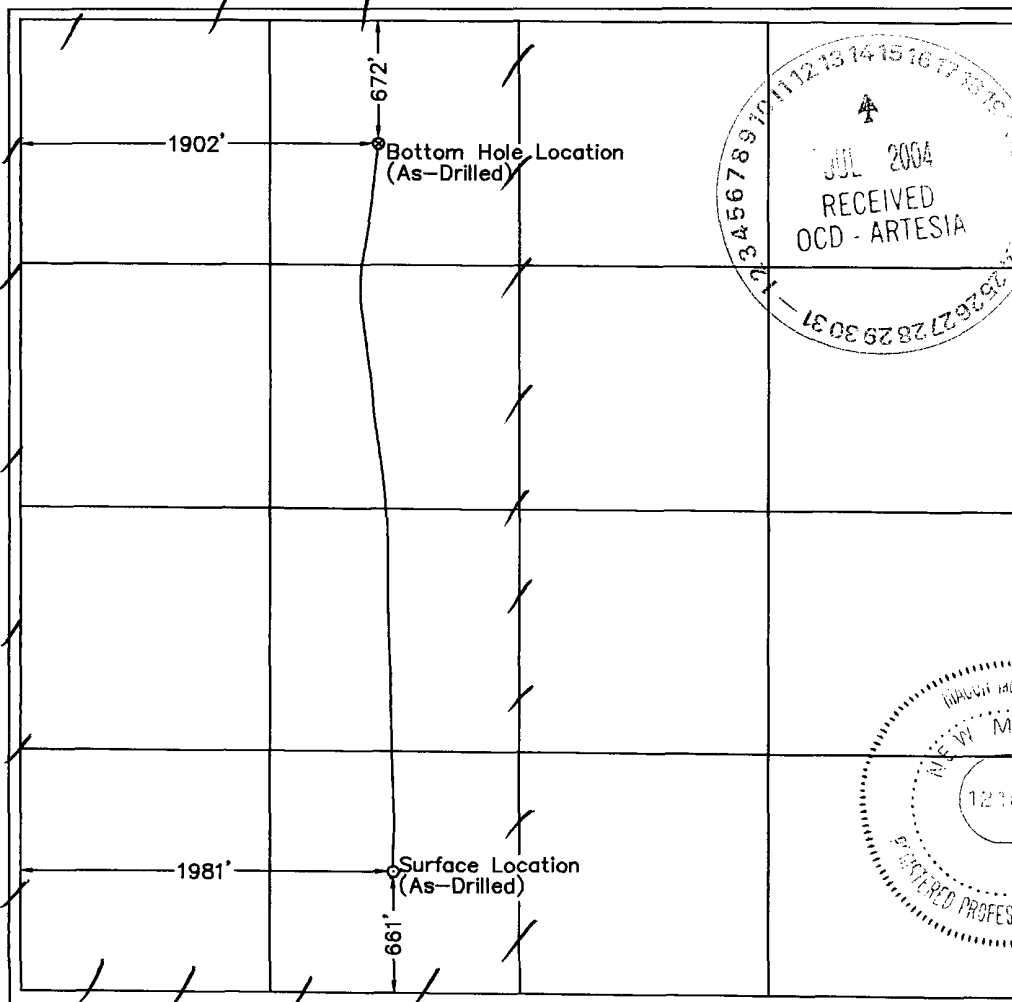
Surface Location

UL or lot No. N	Section 31	Township 17 S	Range 24 E	Lot Idn	Feet from the 661	North/South line SOUTH	Feet from the 1981	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. C	Section 31	Township 17 S	Range 24 E	Lot Idn	Feet from the 672	North/South line NORTH	Feet from the 1902	East/West line WEST	County EDDY
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

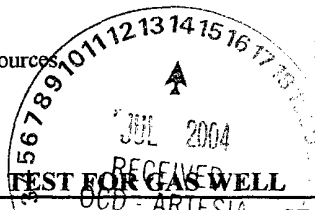
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Lisa Hunt</i> Signature Lisa Hunt Printed Name Regulatory Technician Title 7/9/04 Date
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. February 24, 2004 Date Surveyed Signature & Seal of Professional Surveyor W.O. Num. 2003-0630 Certificate No. MACON McDONALD 12185

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 PERENCO LLC				Lease or Unit Name OCD - ARTESIA STATE 1724			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-8-04		Well No. 311	
Completion Date 6-1-04		Total Depth 8609' MD 4750' TVD		Plug Back TD 8609' MD		Elevation 3861' GR	
Unit Ltr - Sec - TWP - Rge N, 31, 17S, 24E		County EDDY		Pool Cottonwood Creek; Abo gas			
Csg. Size 7"	Wt. 26 #	d 6.276	Set At 4343	Perforations: From: 4343 To: 8609			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 4211	Perforations: From: To:			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 4211		Formation ABO	
Producing Thru TBG		Reservoir Temp. °F 117.4 @ 4343		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
Connection VENTED							
L 8609	H 4343	Gg 0.673	%CO ₂ 3.907	%N ₂ 0.68	%H ₂ S N/A	Prover N/A	Meter Run 4.026
Taps FLG							
FLOW DATA				TUBING DATA			
CASING DATA				Duration of Flow			
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						1200	PKR
1	4 X	1.250	160	29.2	79	1021	"
2	4 X	1.250	160	32.5	80	979	"
3	4 X	1.250	141	24	85	583	"
4	4 X	1.250	141	14.4	91	439	"
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	7.469	71.12	173.2	0.9822	1.219	1.016	646
2	7.469	75.03	173.2	0.9813	1.219	1.016	681
3	7.469	60.83	154.2	0.9768	1.219	1.014	549
4	7.469	47.12	154.2	0.9715	1.219	1.013	422
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRY GAS Mcf bbl.		
1	0.25	539	1.42	0.969	A.P. I. Gravity of Liquid Hydrocarbons DRY Deg.		
2	0.25	540	1.43	0.969	Specific Gravity Separator Gas 0.673 XXXXXXXX		
3	0.23	545	1.44	0.973	Specific Gravity Flowing Fluid XXXXXX N/A		
4	0.23	551	1.46	0.975	Critical Pressure * 681 P.S.I.A. P.S.I.A.		
5					Critical Temperature * 377 R. R.		
P _c 1213.2		P _{c2} 1471.9					
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.167}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.499$		
1		1040.1	1081.7	390.1			
2		818.9	670.5	801.3			
3		604.2	365	1106.9			
4		458.6	210.3	1261.6			
5							
Absolute Open Flow 456 Mcfd @ 15.025				Angle of Slope (°): 63.5		Slope n: 0.499	
Remarks: NO FLUID PRODUCED * CORRECTED TO 3.907 % CO2							
Approved By Division:		Conducted By: Metering & Testing Ser., Inc.		Calculated By: BM		Checked By: BM	

VOL 1 :	646	PSIA 1 :	1034.2	RESV.TEMP	117.4	Pc2-Pw2=	390.1	Pw2 =	1081.7 *
VOL 2 :	681	PSIA 2 :	810.2				801.3		670.5 *
VOL 3 :	549	PSIA 3 :	596.2	SHUT-IN PR=	1213.2		1106.9		365.0 *
VOL 4 :	422	PSIA 4 :	452.2				1261.6		210.3 *
									*
		PCR :	681				n =	0.499	*
		TCR :	377						*

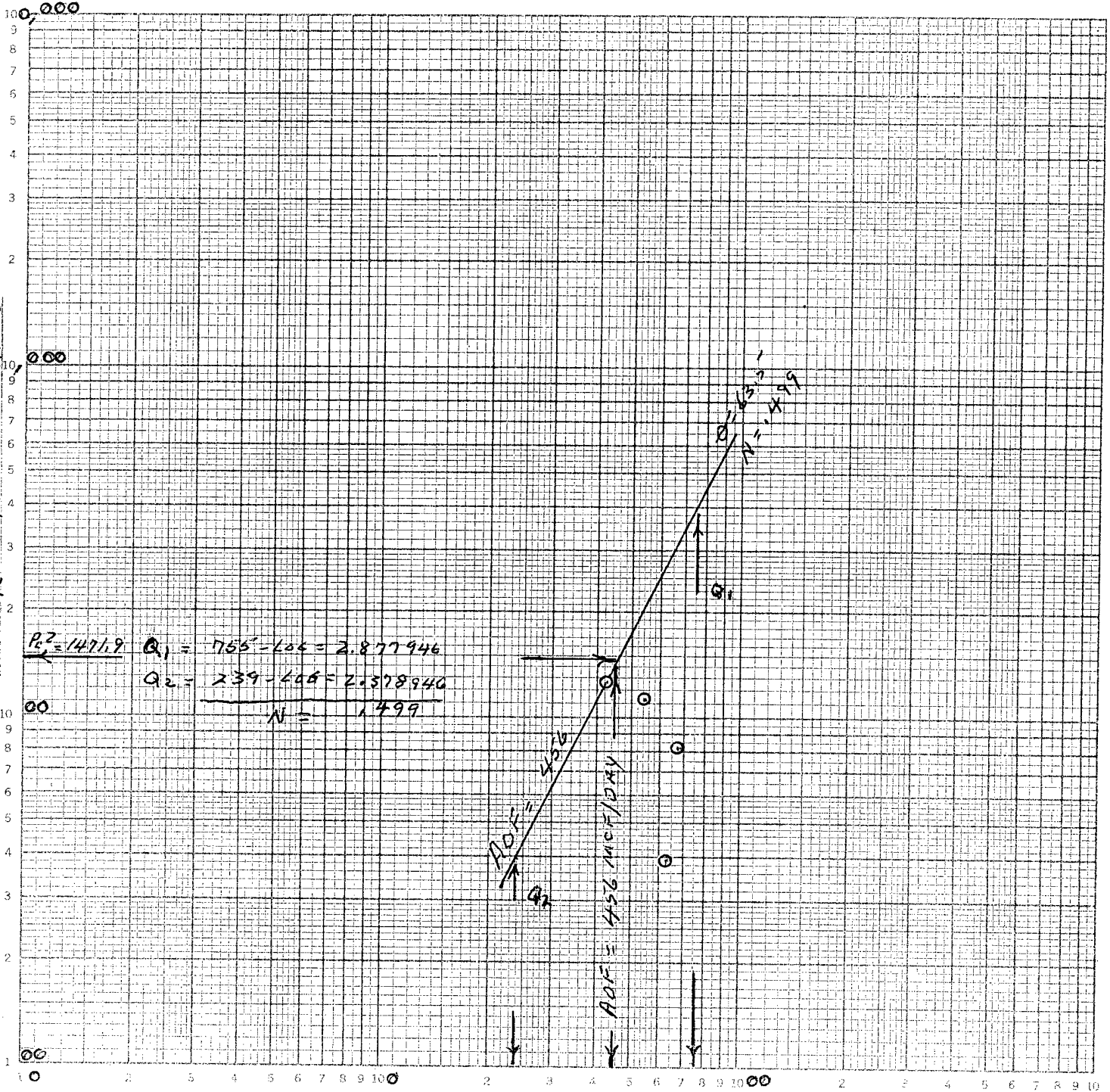
FORM C122-D

PERENCO LLC

STATE 1724 WELL NO. 311

$P_c^2 = P_w^2 \text{ THOUSANDS}$

LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



Q - MCF/DAY

PERENCO, INC.
STATE TRACT '1724' #311 - EDDY COUNTY, NEW MEXICO - MDR-4106
CLOSURE

Measured Depth	Inc. °	Azimuth	True Vertical Depth	N -S Ft	E - W Ft	Vertical Section	Distance Ft.	Direction °	Dogleg Severity Deg/100	Grid 'X'	Grid 'Y'
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	450065.60	649911.10
100.00	0.23	83.70	100.00	0.02	0.20	0.02	0.20	83.70	0.23	450065.80	649911.12
200.00	0.20	86.60	200.00	0.05	0.57	0.05	0.58	84.60	0.03	450066.17	649911.15
300.00	0.27	73.80	300.00	0.13	0.97	0.13	0.98	82.40	0.09	450066.57	649911.23
400.00	0.33	53.10	400.00	0.37	1.43	0.37	1.48	75.50	0.12	450067.03	649911.47
500.00	0.25	106.10	500.00	0.48	1.87	0.48	1.93	75.60	0.27	450067.47	649911.58
600.00	0.79	181.10	599.99	-0.27	2.07	-0.27	2.08	97.40	0.76	450067.67	649910.83
700.00	0.82	184.30	699.98	-1.67	2.00	-1.67	2.61	129.90	0.05	450067.60	649909.43
800.00	0.94	196.20	799.97	-3.17	1.72	-3.17	3.61	151.60	0.22	450067.32	649907.93
900.00	0.94	197.80	899.96	-4.74	1.24	-4.74	4.90	165.40	0.03	450066.84	649906.36
1000.00	0.88	203.30	999.94	-6.23	0.68	-6.23	6.27	173.70	0.11	450066.28	649904.87
1100.00	1.00	208.10	1099.93	-7.70	-0.03	-7.70	7.70	180.20	0.14	450065.57	649903.40
1200.00	0.97	205.70	1199.92	-9.24	-0.81	-9.24	9.27	185.00	0.05	450064.79	649901.86
1300.00	0.81	201.50	1299.90	-10.66	-1.44	-10.66	10.75	187.70	0.17	450064.16	649900.44
1400.00	0.84	203.20	1399.89	-11.99	-1.98	-11.99	12.15	189.40	0.04	450063.62	649899.11
1500.00	0.77	202.20	1499.88	-13.28	-2.53	-13.28	13.52	190.80	0.07	450063.07	649897.82
1600.00	0.79	205.30	1599.87	-14.53	-3.07	-14.53	14.85	191.90	0.05	450062.53	649896.57
1700.00	0.86	207.10	1699.86	-15.82	-3.71	-15.82	16.25	193.20	0.07	450061.89	649895.28
1800.00	0.77	203.10	1799.85	-17.11	-4.31	-17.11	17.64	194.20	0.11	450061.29	649893.99
1900.00	0.79	208.30	1899.84	-18.33	-4.91	-18.33	18.98	195.00	0.07	450060.69	649892.77
2000.00	0.73	207.50	1999.84	-19.50	-5.53	-19.50	20.27	195.80	0.06	450060.07	649891.60
2100.00	0.66	205.60	2099.83	-20.59	-6.07	-20.59	21.46	196.40	0.07	450059.53	649890.51
2200.00	0.68	199.20	2199.82	-21.67	-6.51	-21.67	22.63	196.70	0.08	450059.09	649889.43
2300.00	0.64	201.40	2299.82	-22.75	-6.91	-22.75	23.77	196.90	0.05	450058.69	649888.35
2400.00	0.61	204.20	2399.81	-23.75	-7.34	-23.75	24.86	197.20	0.04	450058.26	649887.35
2500.00	0.64	204.50	2499.80	-24.75	-7.78	-24.75	25.94	197.50	0.03	450057.82	649886.35
2600.00	0.54	203.10	2599.80	-25.69	-8.20	-25.69	26.97	197.70	0.10	450057.40	649885.41
2700.00	0.63	212.60	2699.79	-26.58	-8.68	-26.58	27.97	198.10	0.13	450056.92	649884.52
2800.00	0.56	204.60	2799.79	-27.49	-9.18	-27.49	28.99	198.50	0.11	450056.42	649883.61
2900.00	0.60	205.90	2899.78	-28.41	-9.62	-28.41	29.99	198.70	0.04	450055.98	649882.69
3000.00	0.56	207.80	2999.78	-29.31	-10.07	-29.31	30.99	199.00	0.04	450055.53	649881.79
3100.00	0.54	208.10	3099.77	-30.16	-10.52	-30.16	31.94	199.20	0.02	450055.08	649880.94
3200.00	0.49	207.30	3199.77	-30.95	-10.94	-30.95	32.83	199.50	0.05	450054.66	649880.15
3300.00	0.51	214.50	3299.76	-31.70	-11.39	-31.70	33.68	199.80	0.07	450054.21	649879.40
3400.00	0.50	210.30	3399.76	-32.44	-11.86	-32.44	34.54	200.10	0.04	450053.74	649878.66
3500.00	0.48	213.30	3499.76	-33.17	-12.31	-33.17	35.38	200.40	0.03	450053.29	649877.93
3600.00	0.48	205.40	3599.75	-33.90	-12.72	-33.90	36.21	200.60	0.07	450052.88	649877.20
3700.00	0.42	173.90	3699.75	-34.64	-12.86	-34.64	36.95	200.40	0.25	450052.74	649876.46
3800.00	0.37	168.90	3799.75	-35.32	-12.76	-35.32	37.56	199.90	0.06	450052.84	649875.78
3900.00	0.34	157.70	3899.75	-35.91	-12.59	-35.91	38.06	199.30	0.08	450053.01	649875.19
4000.00	0.28	130.60	3999.74	-36.35	-12.29	-36.35	38.37	198.70	0.16	450053.31	649874.75
4100.00	0.24	117.00	4099.74	-36.60	-11.91	-36.60	38.49	198.00	0.07	450053.69	649874.50
4200.00	0.52	104.60	4199.74	-36.81	-11.29	-36.81	38.50	197.00	0.29	450054.31	649874.29
4300.00	0.65	90.60	4299.74	-36.93	-10.28	-36.93	38.34	195.60	0.19	450055.32	649874.17
4400.00	0.57	94.70	4399.73	-36.98	-9.22	-36.98	38.11	194.00	0.09	450056.38	649874.12
4450.00	0.64	86.90	4449.73	-36.98	-8.69	-36.98	37.99	193.20	0.22	450056.91	649874.12

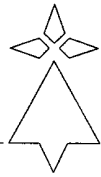
PERENCO, INC.
STATE TRACT '1724' #311 - EDDY COUNTY, NEW MEXICO - MDR-4106
CLOSURE

Measured Depth	Inc. °	Azimuth	True Vertical Depth	N - S Ft	E - W Ft	Vertical Section	Distance Ft.	Direction °	Dogleg Severity Deg/100	Grid 'X'	Grid 'Y'
TIE-IN TO SCIENTIFIC GYRO SURVEYS											
4450.00	0.60	86.90	4449.70	-37.00	-8.70	-37.00	38.01	193.20	0.00	450056.90	649874.10
4483.00	9.00	9.60	4482.56	-34.44	-8.10	-34.44	35.38	193.20	26.93	450057.50	649876.66
4515.00	15.80	7.50	4513.80	-27.65	-7.11	-27.65	28.54	194.40	21.29	450058.49	649883.45
4547.00	23.40	5.80	4543.92	-16.99	-5.90	-16.99	17.98	199.10	23.81	450059.70	649894.11
4580.00	31.90	3.70	4573.13	-1.74	-4.67	-1.74	4.98	249.60	25.92	450060.93	649909.36
4612.00	39.90	1.20	4599.03	16.99	-3.91	16.99	17.43	347.00	25.41	450061.69	649928.09
4644.00	44.20	359.50	4622.79	38.42	-3.79	38.42	38.60	354.40	13.90	450061.81	649949.52
4675.00	46.50	0.50	4644.57	60.47	-3.79	60.47	60.59	356.40	7.77	450061.81	649971.57
4708.00	48.40	0.20	4666.88	84.78	-3.64	84.78	84.85	357.50	5.80	450061.96	649995.88
4739.00	54.70	1.60	4686.15	109.04	-3.24	109.04	109.09	358.30	20.63	450062.36	650020.14
4771.00	59.80	1.90	4703.46	135.93	-2.42	135.93	135.95	359.00	15.96	450063.18	650047.03
4803.00	64.90	1.60	4718.30	164.25	-1.56	164.25	164.26	359.50	15.96	450064.04	650075.35
4835.00	71.80	1.60	4730.10	193.97	-0.73	193.97	193.97	359.80	21.56	450064.87	650105.07
4866.00	79.70	1.20	4737.73	223.98	0.00	223.98	223.98	0.00	25.51	450065.60	650135.08
4897.00	87.30	0.20	4741.23	254.75	0.38	254.75	254.75	0.10	24.72	450065.98	650165.85
4928.00	89.90	359.50	4741.99	285.74	0.30	285.74	285.74	0.10	8.69	450065.90	650196.84
4960.00	89.90	358.40	4742.05	317.74	-0.29	317.74	317.74	359.90	3.44	450065.31	650228.84
4992.00	90.10	359.10	4742.05	349.73	-0.99	349.73	349.73	359.80	2.28	450064.61	650260.83
5023.00	89.60	358.00	4742.13	380.72	-1.77	380.72	380.72	359.70	3.90	450063.83	650291.82
5055.00	88.30	358.00	4742.71	412.69	-2.89	412.69	412.70	359.60	4.06	450062.71	650323.79
5086.00	87.80	357.40	4743.77	443.65	-4.13	443.65	443.67	359.50	2.52	450061.47	650354.75
5119.00	87.60	357.00	4745.09	476.58	-5.74	476.58	476.62	359.30	1.35	450059.86	650387.68
5150.00	87.80	357.80	4746.34	507.53	-7.15	507.53	507.58	359.20	2.66	450058.45	650418.63
5181.00	87.80	357.40	4747.53	538.48	-8.44	538.48	538.54	359.10	1.29	450057.16	650449.58
5213.00	88.00	356.60	4748.70	570.41	-10.12	570.41	570.50	359.00	2.58	450055.48	650481.51
5245.00	87.60	357.00	4749.93	602.34	-11.90	602.34	602.45	358.90	1.77	450053.70	650513.44
5277.00	88.00	358.40	4751.16	634.29	-13.19	634.29	634.42	358.80	4.55	450052.41	650545.39
5309.00	89.20	359.10	4751.94	666.27	-13.88	666.27	666.41	358.80	4.34	450051.72	650577.37
5341.00	88.90	358.00	4752.47	698.25	-14.69	698.25	698.41	358.80	3.56	450050.91	650609.35
5373.00	88.50	358.40	4753.20	730.23	-15.70	730.23	730.40	358.80	1.77	450049.90	650641.33
5404.00	88.20	358.00	4754.09	761.20	-16.67	761.20	761.38	358.70	1.61	450048.93	650672.30
5436.00	87.60	358.00	4755.26	793.16	-17.79	793.16	793.36	358.70	1.88	450047.81	650704.26
5468.00	88.00	357.70	4756.49	825.11	-18.99	825.11	825.33	358.70	1.56	450046.61	650736.21
5500.00	87.10	357.40	4757.86	857.05	-20.35	857.05	857.30	358.60	2.96	450045.25	650768.15
5532.00	87.60	357.70	4759.34	888.99	-21.72	888.99	889.26	358.60	1.82	450043.88	650800.09
5563.00	89.70	358.70	4760.07	919.97	-22.69	919.97	920.25	358.60	7.50	450042.91	650831.07
5595.00	90.60	358.40	4759.98	951.95	-23.50	951.95	952.24	358.60	2.96	450042.10	650863.05
5627.00	90.30	358.40	4759.73	983.94	-24.40	983.94	984.24	358.60	0.94	450041.20	650895.04
5659.00	90.40	358.80	4759.54	1015.93	-25.18	1015.93	1016.24	358.60	1.29	450040.42	650927.03
5691.00	91.70	359.10	4758.95	1047.92	-25.76	1047.92	1048.24	358.60	4.17	450039.84	650959.02
5723.00	91.50	359.10	4758.06	1079.90	-26.27	1079.90	1080.22	358.60	0.62	450039.33	650991.00
5755.00	90.80	358.40	4757.41	1111.89	-26.97	1111.89	1112.22	358.60	3.09	450038.63	651022.99
5787.00	90.40	358.40	4757.08	1143.87	-27.86	1143.87	1144.21	358.60	1.25	450037.74	651054.97
5816.00	89.90	357.70	4757.00	1172.86	-28.85	1172.86	1173.21	358.60	2.97	450036.75	651083.96
5847.00	89.70	357.40	4757.11	1203.83	-30.17	1203.83	1204.21	358.60	1.16	450035.43	651114.93
5879.00	88.70	357.00	4757.56	1235.79	-31.73	1235.79	1236.19	358.50	3.37	450033.87	651146.89
5910.00	88.30	356.30	4758.37	1266.72	-33.54	1266.72	1267.17	358.50	2.60	450032.06	651177.82
5941.00	90.80	357.40	4758.61	1297.67	-35.25	1297.67	1298.15	358.40	8.81	450030.35	651208.77

5973.00	91.70	358.80	4757.92	1329.65	-36.31	1329.65	1330.14	358.40	5.20	450029.29	651240.75
6005.00	90.10	357.40	4757.41	1361.62	-37.37	1361.62	1362.14	358.40	6.64	450028.23	651272.72
6037.00	88.20	356.60	4757.89	1393.57	-39.04	1393.57	1394.12	358.40	6.44	450026.56	651304.67
6069.00	88.30	357.40	4758.86	1425.51	-40.72	1425.51	1426.10	358.40	2.52	450024.88	651336.61
6101.00	88.70	358.80	4759.70	1457.48	-41.78	1457.48	1458.08	358.40	4.55	450023.82	651368.58
6133.00	88.90	359.50	4760.37	1489.47	-42.25	1489.47	1490.07	358.40	2.27	450023.35	651400.57
6165.00	89.70	359.50	4760.76	1521.47	-42.53	1521.47	1522.06	358.40	2.50	450023.07	651432.57
6197.00	89.90	359.50	4760.87	1553.47	-42.81	1553.47	1554.06	358.40	0.62	450022.79	651464.57
6229.00	88.20	358.80	4761.41	1585.46	-43.29	1585.46	1586.05	358.40	5.75	450022.31	651496.56
6261.00	87.60	358.00	4762.58	1617.43	-44.18	1617.43	1618.03	358.40	3.12	450021.42	651528.53
6293.00	88.20	358.40	4763.75	1649.39	-45.18	1649.39	1650.01	358.40	2.25	450020.42	651560.49
6325.00	90.80	359.80	4764.03	1681.38	-45.69	1681.38	1682.00	358.40	9.23	450019.91	651592.48
6357.00	91.80	359.50	4763.30	1713.37	-45.88	1713.37	1713.98	358.50	3.26	450019.72	651624.47
6389.00	92.20	358.80	4762.19	1745.35	-46.36	1745.35	1745.96	358.50	2.52	450019.24	651656.45
6420.00	92.20	359.10	4761.00	1776.32	-46.92	1776.32	1776.94	358.50	0.97	450018.68	651687.42
6452.00	91.50	358.40	4759.96	1808.29	-47.62	1808.29	1808.92	358.50	3.09	450017.98	651719.39
6484.00	91.80	358.00	4759.04	1840.26	-48.63	1840.26	1840.91	358.50	1.56	450016.97	651751.36
6515.00	90.80	357.00	4758.34	1871.23	-49.98	1871.23	1871.89	358.50	4.56	450015.62	651782.33
6548.00	89.20	356.30	4758.34	1904.17	-51.91	1904.17	1904.88	358.40	5.29	450013.69	651815.27
6579.00	88.70	355.20	4758.91	1935.08	-54.20	1935.08	1935.84	358.40	3.90	450011.40	651846.18
6611.00	90.10	355.90	4759.24	1966.98	-56.69	1966.98	1967.79	358.30	4.89	450008.91	651878.08
6643.00	91.50	356.30	4758.80	1998.90	-58.86	1998.90	1999.77	358.30	4.55	450006.74	651910.00
6675.00	89.70	355.20	4758.46	2030.81	-61.23	2030.81	2031.73	358.30	6.59	450004.37	651941.91
6706.00	90.60	354.50	4758.38	2061.68	-64.02	2061.68	2062.68	358.20	3.68	450001.58	651972.78
6738.00	90.10	353.80	4758.18	2093.52	-67.28	2093.52	2094.60	358.20	2.69	449998.32	652004.62
6770.00	89.00	352.10	4758.44	2125.27	-71.20	2125.27	2126.46	358.10	6.33	449994.40	652036.37
6802.00	90.80	352.40	4758.49	2156.98	-75.52	2156.98	2158.30	358.00	5.70	449990.08	652068.08
6834.00	90.10	352.10	4758.24	2188.68	-79.83	2188.68	2190.14	357.90	2.38	449985.77	652099.78
6866.00	90.30	351.40	4758.13	2220.35	-84.43	2220.35	2221.96	357.80	2.28	449981.17	652131.45
6897.00	89.90	350.70	4758.07	2250.97	-89.25	2250.97	2252.74	357.70	2.60	449976.35	652162.07
6928.00	90.60	351.40	4757.94	2281.60	-94.07	2281.60	2283.53	357.60	3.19	449971.53	652192.70
6960.00	91.10	351.00	4757.46	2313.22	-98.97	2313.22	2315.33	357.60	2.00	449966.63	652224.32
6992.00	90.30	350.30	4757.07	2344.79	-104.16	2344.79	2347.10	357.50	3.32	449961.44	652255.89
7023.00	90.10	350.70	4756.96	2375.36	-109.28	2375.36	2377.88	357.40	1.44	449956.32	652286.46
7056.00	91.00	350.70	4756.65	2407.93	-114.61	2407.93	2410.65	357.30	2.73	449950.99	652319.03
7088.00	90.40	350.70	4756.26	2439.50	-119.78	2439.50	2442.44	357.20	1.87	449945.82	652350.60
7120.00	90.10	351.70	4756.12	2471.13	-124.68	2471.13	2474.27	357.10	3.26	449940.92	652382.23
7152.00	90.10	353.50	4756.06	2502.86	-128.80	2502.86	2506.17	357.10	5.62	449936.80	652413.96
7184.00	89.60	355.90	4756.15	2534.72	-131.76	2534.72	2538.14	357.00	7.66	449933.84	652445.82
7216.00	90.10	355.90	4756.23	2566.64	-134.04	2566.64	2570.14	357.00	1.56	449931.56	652477.74
7248.00	90.30	355.60	4756.12	2598.55	-136.42	2598.55	2602.13	357.00	1.13	449929.18	652509.65
7279.00	90.10	354.50	4756.01	2629.43	-139.09	2629.43	2633.11	357.00	3.61	449926.51	652540.53
7312.00	88.50	352.80	4756.41	2662.23	-142.74	2662.23	2666.05	356.90	7.07	449922.86	652573.33
7343.00	88.30	352.80	4757.28	2692.97	-146.62	2692.97	2696.96	356.90	0.65	449918.98	652604.07
7374.00	88.70	352.80	4758.09	2723.71	-150.51	2723.71	2727.87	356.80	1.29	449915.09	652634.81
7405.00	91.10	353.50	4758.14	2754.49	-154.21	2754.49	2758.80	356.80	8.06	449911.39	652665.59
7436.00	91.70	353.10	4757.39	2785.27	-157.82	2785.27	2789.74	356.80	2.33	449907.78	652696.37
7469.00	91.50	352.40	4756.46	2817.99	-161.98	2817.99	2822.64	356.70	2.21	449903.62	652729.09
7501.00	90.30	352.10	4755.96	2849.70	-166.30	2849.70	2854.54	356.70	3.87	449899.30	652760.80
7533.00	91.10	352.10	4755.57	2881.39	-170.70	2881.39	2886.44	356.60	2.50	449894.90	652792.49
7565.00	91.30	351.70	4754.90	2913.06	-175.20	2913.06	2918.33	356.60	1.40	449890.40	652824.16
7596.00	89.90	351.00	4754.58	2943.71	-179.87	2943.71	2949.20	356.50	5.05	449885.73	652854.81
7628.00	90.10	350.70	4754.58	2975.30	-184.95	2975.30	2981.04	356.40	1.13	449880.65	652886.40
7660.00	90.30	350.70	4754.46	3006.88	-190.13	3006.88	3012.88	356.40	0.62	449875.47	652917.98
7693.00	89.60	351.70	4754.49	3039.49	-195.17	3039.49	3045.75	356.30	3.70	449870.43	652950.59

7725.00	89.40	353.50	4754.77	3071.22	-199.30	3071.22	3077.68	356.30	5.66	449866.30	652982.32
7756.00	89.90	356.30	4754.96	3102.09	-202.05	3102.09	3108.67	356.30	9.17	449863.55	653013.19
7788.00	90.60	357.40	4754.82	3134.05	-203.81	3134.05	3140.67	356.30	4.07	449861.79	653045.15
7820.00	90.60	359.50	4754.49	3166.03	-204.67	3166.03	3172.64	356.30	6.56	449860.93	653077.13
7851.00	90.10	0.50	4754.30	3197.03	-204.67	3197.03	3203.57	356.30	3.61	449860.93	653108.13
7883.00	89.20	3.00	4754.49	3229.01	-203.70	3229.01	3235.43	356.40	8.30	449861.90	653140.11
7915.00	89.40	4.70	4754.88	3260.94	-201.55	3260.94	3267.16	356.50	5.35	449864.05	653172.04
7946.00	90.10	7.20	4755.02	3291.77	-198.34	3291.77	3297.73	356.60	8.37	449867.26	653202.87
7979.00	90.60	8.90	4754.82	3324.44	-193.72	3324.44	3330.08	356.70	5.37	449871.88	653235.54
8011.00	91.10	9.60	4754.34	3356.02	-188.57	3356.02	3361.31	356.80	2.69	449877.03	653267.12
8042.00	91.50	8.90	4753.64	3386.61	-183.59	3386.61	3391.58	356.90	2.60	449882.01	653297.71
8074.00	91.70	9.30	4752.75	3418.19	-178.53	3418.19	3422.85	357.00	1.40	449887.07	653329.29
8106.00	90.40	9.30	4752.16	3449.77	-173.36	3449.77	3454.12	357.10	4.06	449892.24	653360.87
8138.00	90.10	8.90	4752.02	3481.36	-168.30	3481.36	3485.43	357.20	1.56	449897.30	653392.46
8170.00	90.40	8.90	4751.88	3512.98	-163.35	3512.98	3516.77	357.30	0.94	449902.25	653424.08
8201.00	90.80	7.50	4751.56	3543.66	-158.93	3543.66	3547.22	357.40	4.70	449906.67	653454.76
8233.00	90.80	7.50	4751.11	3575.38	-154.75	3575.38	3578.73	357.50	0.00	449910.85	653486.48
8264.00	90.40	6.80	4750.79	3606.14	-150.89	3606.14	3609.29	357.60	2.60	449914.71	653517.24
8296.00	88.70	5.80	4751.04	3637.94	-147.38	3637.94	3640.93	357.70	6.16	449918.22	653549.04
8329.00	88.90	5.40	4751.73	3670.78	-144.16	3670.78	3673.61	357.80	1.35	449921.44	653581.88
8361.00	89.90	5.80	4752.06	3702.62	-141.04	3702.62	3705.31	357.80	3.37	449924.56	653613.72
8393.00	90.10	5.40	4752.06	3734.47	-137.92	3734.47	3737.01	357.90	1.40	449927.68	653645.57
8424.00	90.10	5.80	4752.01	3765.32	-134.89	3765.32	3767.74	357.90	1.29	449930.71	653676.42
8456.00	90.40	5.40	4751.87	3797.17	-131.77	3797.17	3799.45	358.00	1.56	449933.83	653708.27
8488.00	90.30	6.50	4751.67	3828.99	-128.45	3828.99	3831.15	358.10	3.45	449937.15	653740.09
8520.00	91.30	6.50	4751.23	3860.78	-124.83	3860.78	3862.80	358.10	3.12	449940.77	653771.88
8552.00	90.60	6.80	4750.70	3892.56	-121.13	3892.56	3894.45	358.20	2.38	449944.47	653803.66
TD											
8609.00	90.60	6.80	4750.10	3949.16	-114.38	3949.16	3950.82	358.30	0.00	449951.22	653860.26

P E R E N C O



July 9, 2004

Mr. Bryan Arrant
New Mexico Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
1301 W. Grand Ave.
Artesia, New Mexico 88210

RE: State 1724 Well No. 311
Unit N, Sec. 31, T17S, R24E
Eddy County, New Mexico



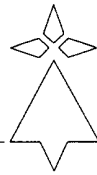
Dear Mr. Arrant,

No electric logs were run on the horizontal section of the above referenced well. Conventional electric logging wireline equipment cannot be used on the horizontal section. It is cost prohibitive to get specialized equipment to log the horizontal section. Mudlogs provide the geologic information that we require to evaluate the horizontal section of our well.

Respectfully,

Lisa Hunt
Regulatory Technician

P E R E N C O



July 21, 2004

Mr. Bryan Arrant
New Mexico Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
1301 W. Grand Ave.
Artesia, New Mexico 88210

RE: State 1724 Well No. 311
Unit N, Sec. 31, T17S, R24E
Eddy County, New Mexico

Dear Mr. Arrant,

As per our conversation, the mudlogs on the above referenced well are being sent to you.
Please keep the logs confidential for the 90 days.

If you need any other information please call me at 432 688-0951.

Respectfully,

Lisa Hunt
Regulatory Technician

RECEIVED

JUL 28 2004

OGD-ARTESIA