

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

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

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
Revised June 10, 2003

WELL API NO.

30-015-33055

5. Indicate Type Of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

33039

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 C : 660 Feet From The North Line and 1980 Feet From The West Line

Section 29

Township 16S

Range 24E

NMPM

Eddy

County

10. Date Spudded

12/04/03

11. Date T.D. Reached

04/03/04

12. Date Compl. (Ready to Prod.)

04/15/04

13. Elevations (DF & RKB, RT, GR, etc.)

3699' GR

14. Elev. Casinghead

15. Total Depth

7305' MD 4345' TVL

16. Plug Back T.D.

7305' MD

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

X

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

4565-7305' MD Abo

20. Was Directional Survey Made

Yes

21. Type Electric and Other Logs Run

N/A

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#	168'	17-1/2"	305 sx Class "C"	Circ to Surf.
9-5/8"	36#	1520'	12-1/4"	1080 sx Class "C"	12 sx to surf.
7"	26#	4562'	8-3/4"	487 sx Class "C"	TOC @ 1660'

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4-1/2"	4390	7140	Slotted	

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	3828'	3828'

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

4390-7140 Slotted liner

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

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

4390-7305 58540 gals 15% NEFE acid

4045' CTBP

4011' Whipstock

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
4/17/04	Flowing	Shut in

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
4/17/04	4 Pt attached						
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)	
745	Pkr		0	473	0	NA	

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

Vented

Test Witnessed By

30. List Attachments

C122, C122-D, C-102, Curves, Analysis, directional survey

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 Robin S. McCarley Printed Name Robin S. McCarley Title Eng. Tech. Date 5/05/04
E-mail address rmccarley@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 182	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta 1238	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb 2791	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo 3462	T.	T. Wingate	T.
T. Wolfcamp 4321		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 4238 to 4380
 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	From	To	Thickness in Feet	Lithology
1520	1600	80	Anhydrite, Dolomite, Shale				
1600	1640	40	Anhydrite, Dolomite, Sand, Sh				
1640	2040	400	Anhydrite, Dolomite, Shale				
2040	2170	130	Anhydrite, Dolo, Sand, Shale				
2170	2370	200	Dolomite, Anhydrite, Shale				
2370	2450	80	Dolomite, Anhydrite, Shale, Silt				
2450	2880	430	Dolomite, Anhydrite, Shale				
2880	3080	200	Dolomite, Anhydrite, Shale				
3080	3530	450	Dolomite, Anhydrite, Shale				
3530	3620	90	Shale, Dolomite				
3620	3730	110	Dolomite, Shale, Anhydrite				
3730	4050	320	Dolomite, Shale				
4050	4080	30	Dolomite, Anhydrite, Shale				
4080	4565	485	Dolomite, Shale				

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, 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 30-015-33055	Pool Code 97333	Pool Name Cottonwood Creek; Abo Gas
Property Code 33039	Property Name STATE 1624	Well Number 291
OGRID No. 218885	Operator Name PERENCO LLC	Elevation 3699'

Surface Location

UL or lot No. C	Section 29	Township 16 S	Range 24 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 1980	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. K	Section 29	Township 16 S	Range 24 E	Lot Idn	Feet from the 1587	North/South line SOUTH	Feet from the 1993	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

				RECEIVED MAY 10 2004 OCD-ARTESIA	
OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Robin S. McCarley</i> Signature Robin S. McCarley Printed Name Eng. Tech. Title 05/05/04 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. September 10, 2003 Date Surveyed Signature & Seal of Professional Surveyor <i>Macon McDonald</i> W.O. Num. 2003-0628 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

RECEIVED

MAY 10 2004

Form C-122
Revised October, 1999

~~OCB-ARTESIA~~

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

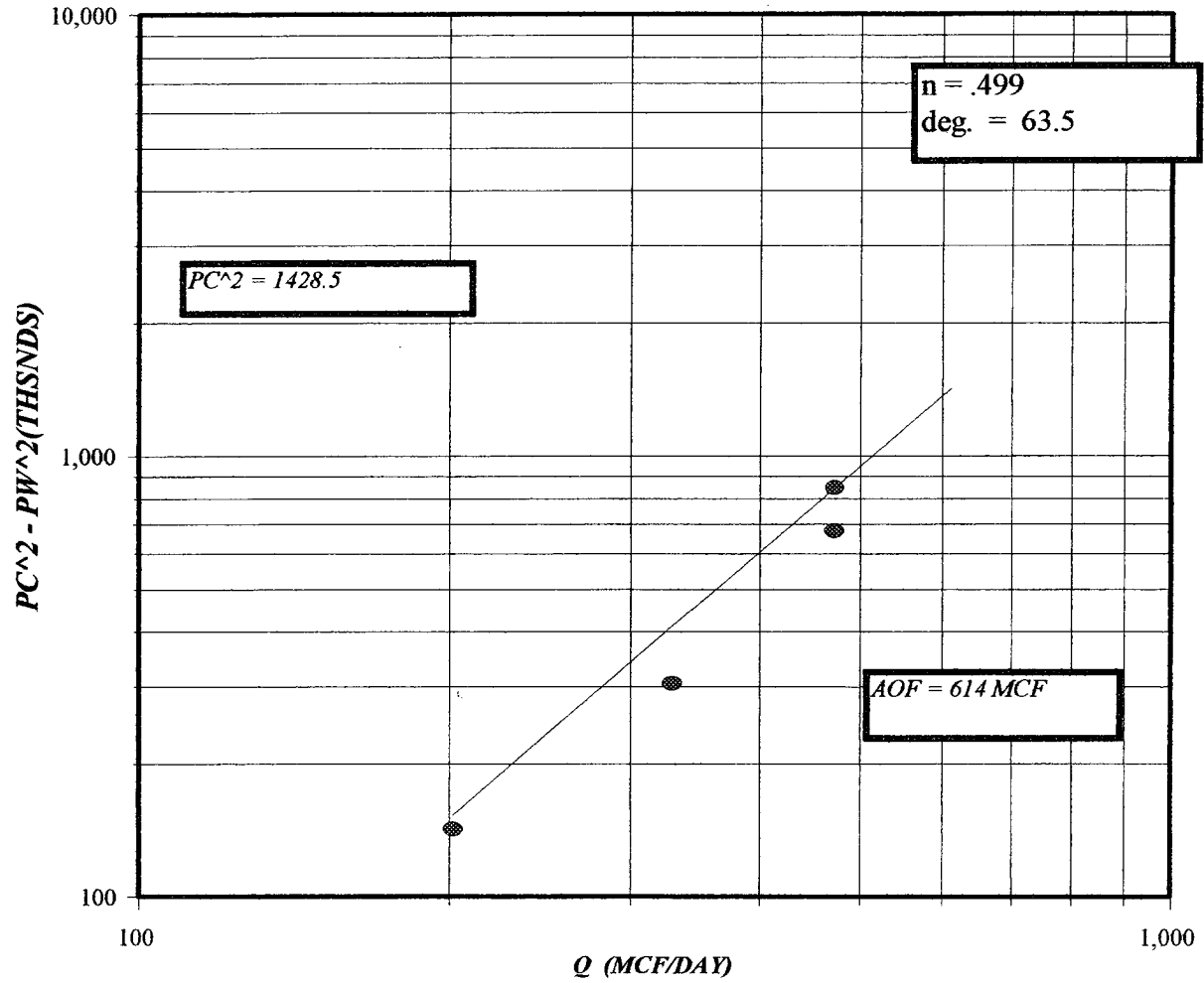
Operator PERENCO LLC					Lease or Unit Name STATE 1624				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-17-04		Well No. 291		
Completion Date 04/14/04		Total Depth 7305' MD 4348' TVD		Plug Back TD 7305' MD 4348' TVD		Elevation 3699'		Unit Ltr - Sec - TWP - Rge C, 29, T16S, R24E	
Csg. Size 7"	Wt. 26 #	d 6.276	Set At 4305	Perforations: From: 4565 To: 7305		County EDDY			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3813	Perforations: From: To:		Pool Cottonwood Creek; Abo Gas			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 3813		Formation Abo			
Producing Thru TBG		Reservoir Temp. °F 119.5 @ 4565		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection Shut-in Waiting on PL	
L 11870	H 4565	Gg 0.679	%CO ₂ 3.564	%N ₂ 1.368	%H ₂ S N/A	Prover N/A	Meter Run 4.026	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	Press p.s.i.g.	Temp. °F
SI						1182		PKR	
1	4	X 1.000	53	19.4	91	1120		"	
2	4	X 1.000	160	19.4	90	1045		"	
3	4	X 1.000	332	19.4	91	850		"	
4	4	X 1.000	332	19.4	90	745		"	
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		35.84	66.3	0.9715	1.214	1.007	202	
2	4.753		57.97	173.2	0.9723	1.214	1.014	330	
3	4.753		81.83	345.2	0.9715	1.214	1.03	472	
4	4.753		81.83	345.2	0.9723	1.214	1.03	473	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRY GAS Mcf bbl.				
1	0.09	551	1.47	0.986	A.P. I. Gravity of Liquid Hydrocarbons DRY Deg.				
2	0.25	550	1.47	0.972	Specific Gravity Separator Gas 0.679 XXXXXXXX				
3	0.5	551	1.47	0.943	Specific Gravity Flowing Fluid XXXXXX				
4	0.5	550	1.47	0.943	Critical Pressure * 680 P.S.I.A. P.S.I.A.				
5					Critical Temperature * 374 R. R.				
P _c 1195.2 P _w 1428.5									
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.689}{\quad} \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.299}{\quad}$				
1		1133.8	1285.5	143					
2		1059.9	1123.5	305					
3		867.7	753	675.6					
4		763.5	582.9	845.6					
5									
Absolute Open Flow 614					Mcf/d @ 15.025		Angle of Slope (°): 63.5		Slope n: 0.499
Remarks: NO FLUID PRODUCED * = CORRECTED TO 3.563 % CO2 & 1.638 % N2									
Approved By Division:			Conducted By: Metering & Testing Ser., Inc.		Calculated By: BM			Checked By: BM	

FORM C122-D *||

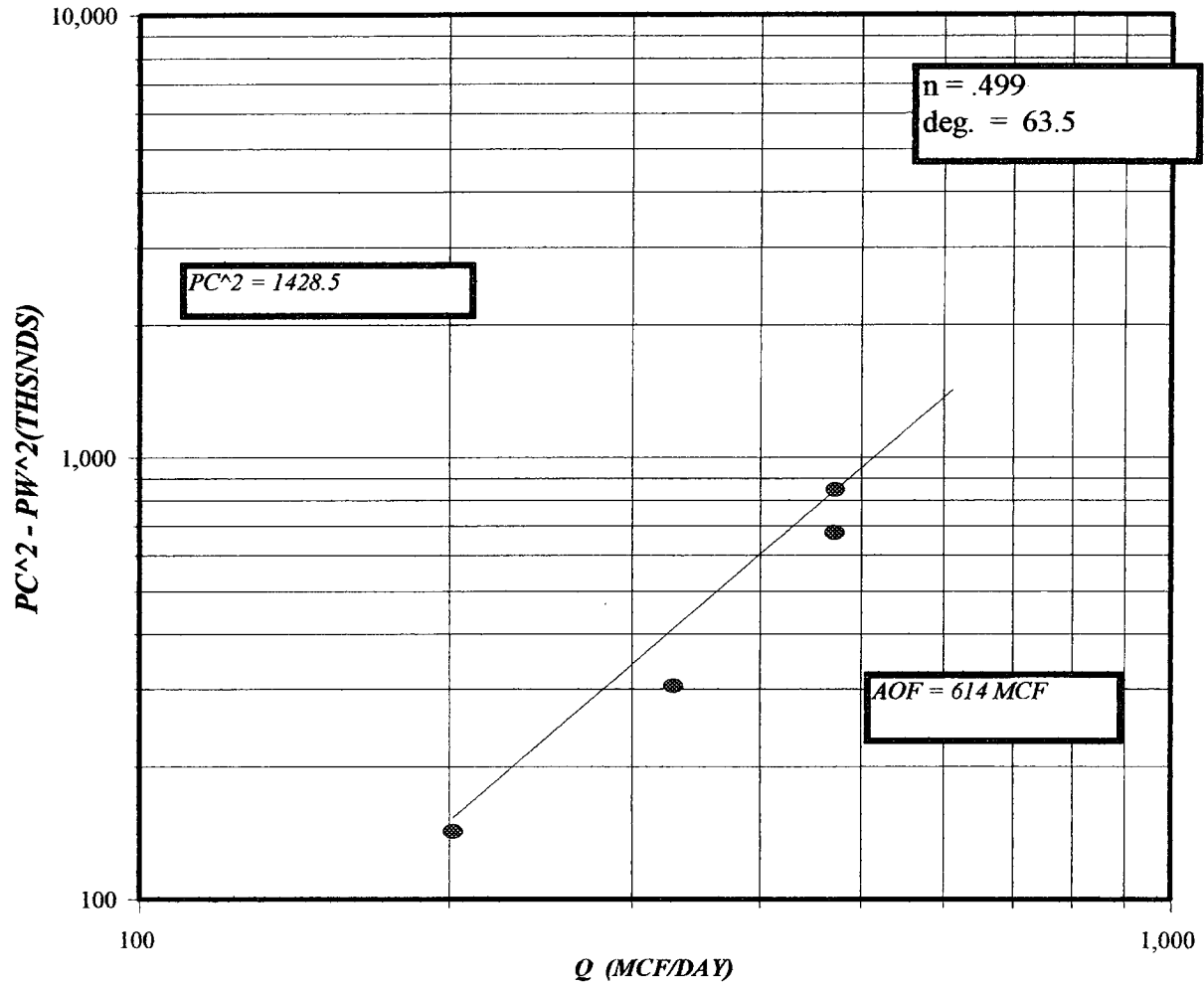
Equivalent Diameter Program
Author: Bob Murray
Date: December 26, 1990

L1 =	3813 ft.	L5 =	0 ft.	Lt =	4565 ft.
D1 =	1.995 in.	D5 =	1 in.	C =	0.10797
L2 =	752 ft.	L6 =	0 ft.		
D2 =	6.276 in.	D6 =	1 in.	Deff =	2.063 in.
L3 =	0 ft.	L7 =	0 ft.	Fr =	0.01628
D3 =	1 in.	D7 =	1 in.		
L4 =	0 ft.	L8 =	0 ft.		
D4 =	1 in.	D8 =	1 in.		

PERENCO LLC
STATE 1624 # 291



PERENCO LLC
STATE 1624 # 291





Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

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

SAMPLE:
IDENTIFICATION: State 1624 #291
COMPANY: Perenco LLC
LEASE:
PLANT:

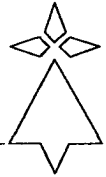
SAMPLE DATA: DATE SAMPLED: 4/15/04 2:00 pm
ANALYSIS DATE: 4/16/04
PRESSURE - PSIG 240
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Floyd Davis
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	1.368	
Carbon Dioxide (CO2)	3.564	
Methane (C1)	84.750	
Ethane (C2)	6.110	1.630
Propane (C3)	2.364	0.650
I-Butane (IC4)	0.369	0.120
N-Butane (NC4)	0.658	0.207
I-Pentane (IC5)	0.200	0.073
N-Pentane (NC5)	0.193	0.070
Hexane Plus (C6+)	0.424	0.184
	100.000	2.934
BTU/CU.FT. - DRY	1093	MOLECULAR WT. 19.6980
AT 14.650 DRY	1090	
AT 14.650 WET	1071	
AT 14.73 DRY	1095	
AT 14.73 WET	1077	
SPECIFIC GRAVITY -		
CALCULATED	0.679	
MEASURED		



May 11, 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 1624 Well No. 291
Unit C, Sec. 29, T16S, R24E
Eddy County, New Mexico

RECEIVED

MAY 13 2004

OCD-ARTESIA

Dear Mr. Arrant,

In reference to your letter dated May 10, 2004 concerning the bottom hole location for the above well, I am enclosing a certified plat of section 29. This shows the section to be oversized by 4.09 acres, making the bottom hole location legal. The final directional survey used in calculating the distances on the C-102 were mailed to the Artesia office on May 5, 2004.

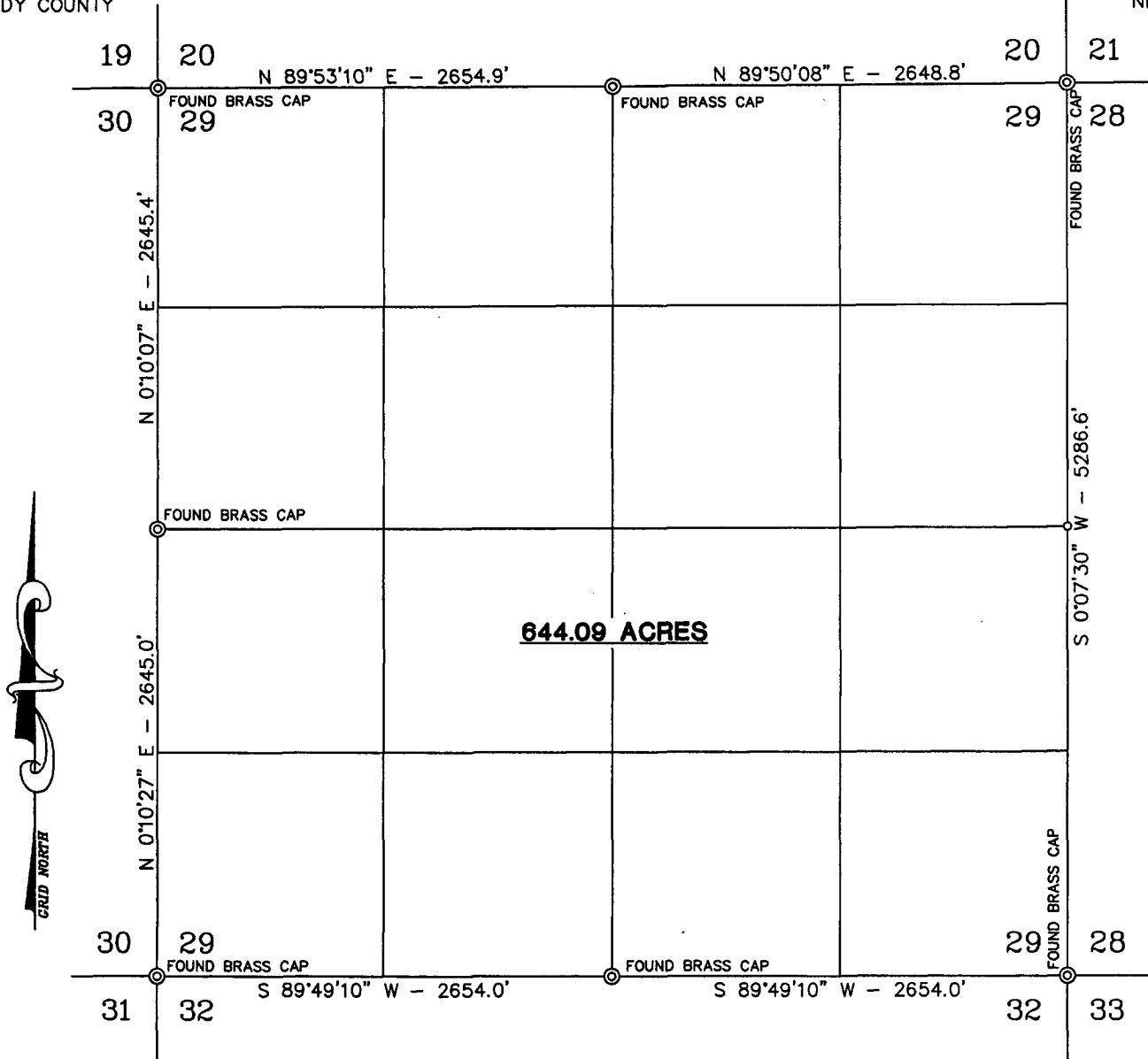
In addition to the above, a mudlog was sent to you May 10, 2004 to comply with Rule 1105.A.

If you need additional information please call me at (432) 688-0946 or email at rmccarley@us.perenco.com.

Respectfully,

Robin S. McCarley
Engineering Technician

-SECTION 29, TOWNSHIP 16 SOUTH, RANGE 24 EAST, N.M.P.M.
 EDDY COUNTY NEW MEXICO



NOTE:

- 1) Bearings shown hereon are Lambert Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.

LEGEND

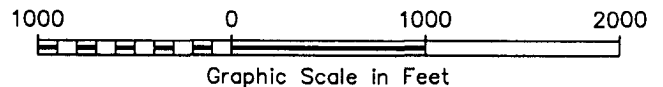
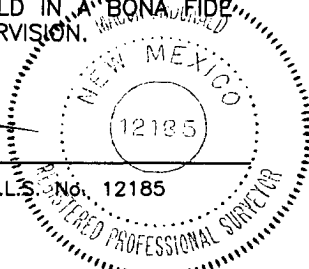
- ⊙ - Denotes Found USGLO Brass Cap
- - Denotes Calculated Corner this Survey

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION.

Macon McDonald

MACON McDONALD

N.M. P.L.S. No. 12185



PERENCO LLC

SURVEY MAP

Section 29
 T-16-S, R-24-E
 N.M.P.M.
 Eddy County, Texas

**WEST
 COMPANY**
 of Midland, Inc.

110 W. LOUISIANA, STE. 110
 MIDLAND TEXAS, 79701
 (432) 687-0865 - (432) 687-0868 FAX