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

N,P,F

2 6 JUN 2003

Form 3160-3 (September 2001) RECOARTES

OCO

UNITED STATES

DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

UNITED STATES	į					
DEPARTMENT OF THE IN				5. Lease Serial No. NMLC029389B	*	
BUREAU OF LAND MANAG	JEMENT			6. If Indian, Allottee or To	-iba Mama	
APPLICATION FOR PERMIT TO DE	RILL OR F	REENTER		6. If indian, Attouce or 1	nue rame	
ia. Type of Work: DRILL REENTE	P.			7. If Unit or CA Agreemen	t, Name and No.	
The type of type of the type of type of the type of type of type of the type of type o				26908		
	.			8. Lease Name and Well N		
1b. Type of Well: Oil Well Gas Well Other	<u> </u>	Single Zone 🔲 Multip	pie Zone	Anadarko Federa	a1 #2	
2. Name of Operator				9, API Well No.	- 3285	
Pecos Production Company				30 015		
3a. Address Midland, TX 79701		lo. (include area code)		10. Field and Pool, or Explo	•	
400 W. Illinois, Ste 1070,	(915) 620-8480		N. Shugart'		
4. Location of Well (Report location clearly and in accordance with		11. Sec., T., R., M., or Blk.	and Survey or Area			
At surface 660' FSL & 660' FWL						
At proposed prod. zone 660' FSL & 660' FWL				Sec 4-T18S-R3	31E	
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State	
7 miles ESE from Loco Hills, NM		: <u>.</u>		Eddy Co.	NM	
15. Distance from proposed* 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to nearest						
property or lease line, ft. (Also to nearest drig. unit line, if any) 660° FSL/FWL	480		Stra	wn 160 / 320 Mc	orrow	
18. Distance from proposed location*	19. Propos	ed Depth	20. BLM/E	BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.						
310	<u> </u>	000'		00020		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*			23. Estimated duration		
3709' GL	As S	oon As Approv	red	60 Days		
		nchments				
The following, completed in accordance with the requirements of Onshor	e Oil and Ga	o Order No.1, shall be att	ached to this	form:		
1. Well plat certified by a registered surveyor.		4. Bond to cover th	e operation	s unless covered by an exist	ing bond on file (see	
2. A Drilling Plan,		Item 20 above).	-	•		
3. A Surface Use Plan (if the location is on National Forest System	Lands, the	5. Operator certifica		rmation and/or plans as may	, he remired by the	
SUPO shall be filed with the appropriate Forest Service Office).		authorized office		amanon andor plans as may	oc required by and	
25. Signature	Nam	(Printed/Typed)		Date		
Title Color Markets	1	illiam R. Huc	k	3/	14/03	
THE .						

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVAL FOR 1 YEAR

Conditions of approval, if any, are attached.

Office

Name (Printed/Typed)

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 reverse)

Approved by (Signature)

ACTING

Title

CAPITAN CONTROLLED WATER BASIN

/s/ Joe G. Lara

CARLSBAD FIELD OFFICE

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

VP - Engr. & Operations

/s/ Joe G. Lara

FIELD MANAGER



* DISTRICT 1 P.O. Box 1960, Kabbe, 196 86841-1496

State of New Mexico Bourgy, Minerals and Heterel Resources Populariest

Porm C-102 Revised February 10, 1894 Submit to Appropriate District Office

State Lease - 4 Capies For Lease - 3 Capies

DISTRICT II P.O. Brewer SP. Artesta, SN 86811-0718

DISTRICT III 1006 Rio Bresne Rd., Antac, NM 87610

OIL CONSERVATION DIVISION

P.O. Box 2086

DISTRICT IV P.O. BOX BORR, GANTA FE, N.M. 87004-8088 Santa Fc. New Moxico 87504-2088

D AMENDED REPORT

The state of the s	WELL LUCATION AND	ACREAGE DEDICATION PLAT	E MANUFACTURE AND
API Namber	Pool Code	Cedar Lake Morrow, East	
Froperty Code	Proj ANADARI	Velt Number	
OCRID No. 215758		ntor Name UCTION COMPANY	Elovation 3715'
	Surfa	ce Location	

UL or lot No. Section Township Range Let Ide Feel from the North/South Has Feet from the East/West line County М 4 18-S 31-E 660' SOUTH 660' **WEST EDDY** Rottom Hole Location If Different From Surface UL or lat No. Bection Township Bunce lat Ma Fast from the North/South Mas Feet from the Esst/West Mas County Dedicated Acres Joint or Infill Consultation Code 320

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

	OR A NON-STANDA	RD UNIT HAS B	EEN APPROVED BY	THE DIVISION
32.0	ос. и з	LOT S	LOT 1	OPERATOR CERTIFICATION I hereby swritty the the information contained herets to true and complete to the best of my baseledge and batter.
10.01 AC	40.04 AC	40.04 AC	1001 AC	William R. Huck
	1777	· .		Printed Name VP - Engr. & Operations Title 3/14/03 Date
			<u> </u>	SURVEYOR CERTIFICATION I hereby certify that the well location shows on this plat was plotted from field noise of actual surveys made by one or under my approximum, and that the same to true and
	-		 	MARCH 13, 2003 Date Buryand Minhihitan A.W.B Signagaro & Bland O. Chill Profit Minhim I. Surrey O. Chill Profit Minhim I. Surrey O. Chill Profit Minha I. Surrey
3712.8' 3710.7' 3710.7' 3707.6'	7]	1300 Resident 3/14/03
77777777	Vinne		<u> </u>	Certain A. No. ROMAND SETSON 3230

DISTRICT I P.O. Box 1980, Kabbe, IM 80841-1890

State of New Mexico

Energy, Minerals and Heteral Bosonress Department.

Form C-102 Rovined Peterary 19, 1994
Submit to Appropriate District Office

DISTRICT II P.O. Brewer DD. Arteria, No. 88811-6710

OIL CONSERVATION DIVISION

Sinto Loace - 4 Capina Foo Loace - 3 Capina

DISTRICT III 1000 Rio Bresne Rd., Astec, NM 87410

P.O. Box 2088 Santa Fc. New Moxico 87504-2088

DISTRICT IV P.O. BOX BORG, GANTA FE, N.M. 67604-SORG WELL LOCATION AND ACREAGE DEDICATION PLAT

D AMENDED REPORT

API Nambar	Pool Code	Pool Code Pool Name			
		Shugart, Strawn, North			
Property Code	ANADAR	Vall Number			
OCRID No. 21578	PECOS PROD	PECOS PRODUCTION COMPANY			

Surface Location

M	4	18-S	Range 31-E	Lat 14n	Fact from the 660'	North/South Man SOUTH	Feet from the 660'	East/West Mas WEST	County EDDY	
			Wh - 4.4			·		<u> </u>		ŀ

Rottom Hole Location If Different From Surface

Dedicated Acres Joint at Infill Consultation Code Order No.	UL or lat No.	Bection	Township	Bange	Let Ida	Fast from the	North/South Has	Foot from the	East/West line	County
	Dodicated Acres	Joint a	Inful Co	nealthatton (ode Or	dar No.		<u> </u>	L,,,,	L
160	160									

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

	ON A NON-STAND	ARD UNIT HAS BEE	N APPROVED BY T	HE DIVISION
LDT 4	i.or 3	FD1 S	LOT i	OPERATOR CERTIFICATION
				I hereby portify the the information contained herein to brue and complete to the
		.	ne.	best of my bransledge and ballof.
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	- 40.01 AC - -			Superuro
·	[William R. Huck
i	i	· . 1		VP - Engr. & Operations
	i	. !		3/14/03
	1	!		Date
1				SURVEYOR CERTIFICATION
16	À Ac.	Ī		I heraby certify that the well location shows
)	1		on this plat was plated from field noise of actual enruge made by me or under my
	, 1	î f		superstoom, and that the same to true and served to the best of my being.
	7	ļ		
	1	1		MARCH 13, 2003 Date Burgare Within AW.B Bignature Blast O.C. III.
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5713.3	,	1		130 (boackom \$14/03
3710.74	1	i		03.12.0319
3707.6'	1	1		Certante No. RONALD STOSON 3230
<u> </u>	4111111			Managaran

BLOWOUT PREVENTOR ARRANGEMENT

11" SHAFFER TYPE LWS, 5000 psi WP
11" CAMERON SPHERICAL, 5000 psi WP
120 GALLON, 5 STATION KOOMEY ACCUMULATOR
5000 psi WP CHOKE MANIFOLD

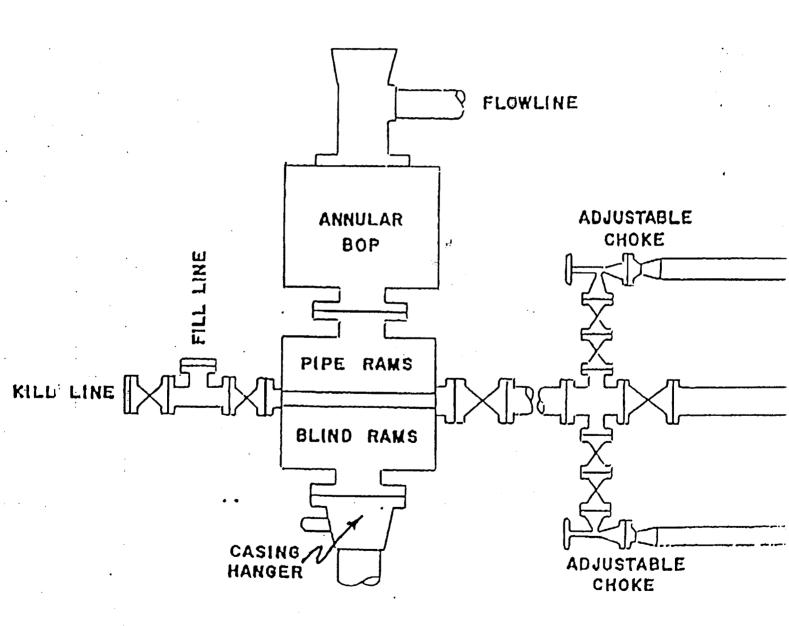


Exhibit #1
Pecos Production Company
Anadarko Federal #2
660' FSL & 660' FWL
Sec. 4, T-18-S, R-31-E
Eddy Co., NM

DRILLING PROGRAM

Attachment to Form 3160-3 Pecos Production Company Anadarko Federal No. 2 660' FSL & 660' FWL Section 4, T18S, R31E Eddy County, New Mexico

1. Geologic Name of Surface Formation

Quaternary Alluvium

2. Estimated Tops of Important Geological Formations

Top of Salt Section	830'
Base of Salt Section	2050'
Yates	2050'
Queen	3175'
San Andres	4125'
Bone Spring	5880'
Wolfcamp	9150'
Strawn	10,500'
Atoka	11,010'
Morrow Clastics	11,625'
Lower Morrow	11,850'
Upper Mississippian Lime	11,950'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

Water: None Anticipated

Oil: 3175', 7800', 8050', 10,500' Gas: 11,010'; 11,625'; 11,850'

No other formations are expected to yield oil, gas or fresh water in measurable volumes. Any surface fresh water sands will be protected by setting 13-3/8" casing at 400' and circulating cement back to surface. The Salt will be isolated with a 8-5/8" intermediate casing string set into the San Andres @ approximately 4500' and cement circulated to surface. The Strawn and Morrow will be isolated with 5-1/2" casing to total depth (12000'±) and cemented with cement back into the 8-5/8" intermediate casing.

4. Casing Program

	<u>Hole Size</u>	<u>Interval</u>	Casing	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	
	_	650'	<u>OD</u>				
WITNES	S 17-1/2"	0' - -400'-	13-3/8"	48#	H-40	ST&C	WITNESS
	12-1/4"	0' - 4500'	8-5/8"	32#	J-55	ST&C	
	7-7/8"	0' - 12000'	5-1/2"	17#	K-55 & N-80	LT&C	

Anadarko Federal No. 2 Drilling Plan Page 2

Cementing Program

400' 13-3/8" Surface Casing: Cement to surface 200 sxs Class C containing 4% Gel,

2% Calcium Chloride, 0.25 pps Cello-flake followed by

150 sxs 25:75 Poz C containing 2% Calcium Chloride.

4500' 8-5/8" Intermediate Casing: Cement to surface:

> Lead Slurry: 1400 sxs 50:50:10 Poz C containing 10% bentonite, 6.0

> > pps salt, 0.2% Antifoam, 0.25 pps Cello-flake.

Tail Slurry: 220 sxs Class C containing 0.25 pps Cello-flake. 1%

CaCl.

12000' 5-1/2" Production Casing with DVT @ 9000'

First Stage

Lead Slurry: 50:50:10 Poz H containing 10% bentonite, 0.5% FLAC,

0.25 pps Cello-Flake, 5 pps Gilsonite.

Tail Slurry: 15:61:11 Poz H containing 5% Salt, 0.5% FL-52, 0.5%

FL-25.

Second Stage DVT into 8-5/8" Intermediate Casing

Lead Slurry: 50:50:10 Poz H containing 10% bentonite, 0.1% FLAC,

0.25 pps Cello-flake – or equivalent.

Tail Slurry: 50:50:2 Poz H containing 2% bentonite, 5% (bwow) salt,

0.25 pps Cello-flake – or equivalent.

5. Minimum Specifications for Pressure Control

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (5M system) double ram type (5000# WP) preventor. This unit will be hydraulically operated. The BOP will be installed on the 8-5/8" intermediate casing and utilized continuously until total depth is reached. As per BLM Drilling Operatings Order #2, prior to drilling out of the 8-5/8" casing shoe, the BOP will be pressure tested.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These function test will be documented on the daily driller's log. Other accessory BOP equipment will include a kelly cock, floor safety valve, choke lines and choke manifold having a 5000# WP rating.

6. Types and Characteristics of Proposed Mud System

This well will be drilled to total depth with fresh water, brine and Duo Vis/Polypac cut brine mud systems. Depths are as follows:

<u>Depth</u>	<u>Type</u>	Weight (ppg)	Viscosity	Water Loss
0' - 400'	Spud Mud	8.3 - 9.2	28 - 36	No control
400' - 4500'	Brine	10.0 - 10.3	29	No control
4500' - 8900'	Fresh Water	8.3 - 8.6	28	No control
8900' - 10400'	Cut Brine	9.5 - 9.8	29	No control
10400' - TD	Duo Vis/Poly Pa	ac 9.8 - 10.0	35 - 38	5 - 6 cc
	-	Will add 3 to 5% K	CL @ mudun	

7. Auxiliary Well Control and Monitoring Equipment

- A. A kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

8. Logging, Testing and Coring Program

- A. Possible of drill stem test of Strawn.
- B. The open hole electrical logging program will be:

1. DLL/MSFL/GR (TD-4500')
Note: GR will be pulled to Ground Level

2. DEN/NEU/CAL (TD to 4500')
Note: Neutron log will be pulled to Ground Level

- C. No coring program is planned.
- D. No additional testing will be initiated subsequent to setting the 5-1/2" production casing.

9. Abnormal Pressures, Temperatures and Potential Hazards

No abnormal pressures or temperatures are expected. The anticipated bottom hole temperature at total depth is 180 degrees and maximum bottom pressure is 5000 psia. Lost circulation within the surface and intermediate intervals have been encountered in adjacent wells. Small quantities of hydrogen sulfide gas are associated with the Queen, Grayburg and San Andres formations in this area. A hydrogen sulfide plan is attached.

Anadarko Federal No.2 Drilling Plan Page 4

10. Anticipated Starting Date and Duration of Operations

Archeological Survey Consultants has been requested to perform and submit a cultural resources examination to the BLM office in Carlsbad, New Mexico.

Road and location preparation will not be undertaken until approval has been received from the BLM. The anticipated spud date for this well is as soon as permitted. The drilling operation should require approximately 35 days. If the well is deemed productive, completion operations will require, at minimum, an additional 30 days for completion and testing.

Anadarko Federal No. 2 Surface Use and Operating Plan Page 4

13. Lessee's and Operator's Representative

The Pecos Production Company representative responsible for ensuring compliance of the surface use plan is:

William R. Huck VP – Engr. and Operations

Pecos Production Company 400 W. Illinois, Suite 1070 Midland, TX 79701

(915) 620-8480

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road, that I am familiar with the conditions that presently exsit; that the statements made in this plan are, to the best if my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Pecos Production Company and its contractors under which it is approved.

 Attachment to Exhibit #1
Attachment to Form 3160-3
Pecos Production Company
Anadarko Federal No. 2
660' FSL & 660' FWL
Section 4, T18S, R31E
Eddy County, New Mexico

- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventor and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 7. Will maintain a kelly cock attached to the kelly.
- 8. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 9. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

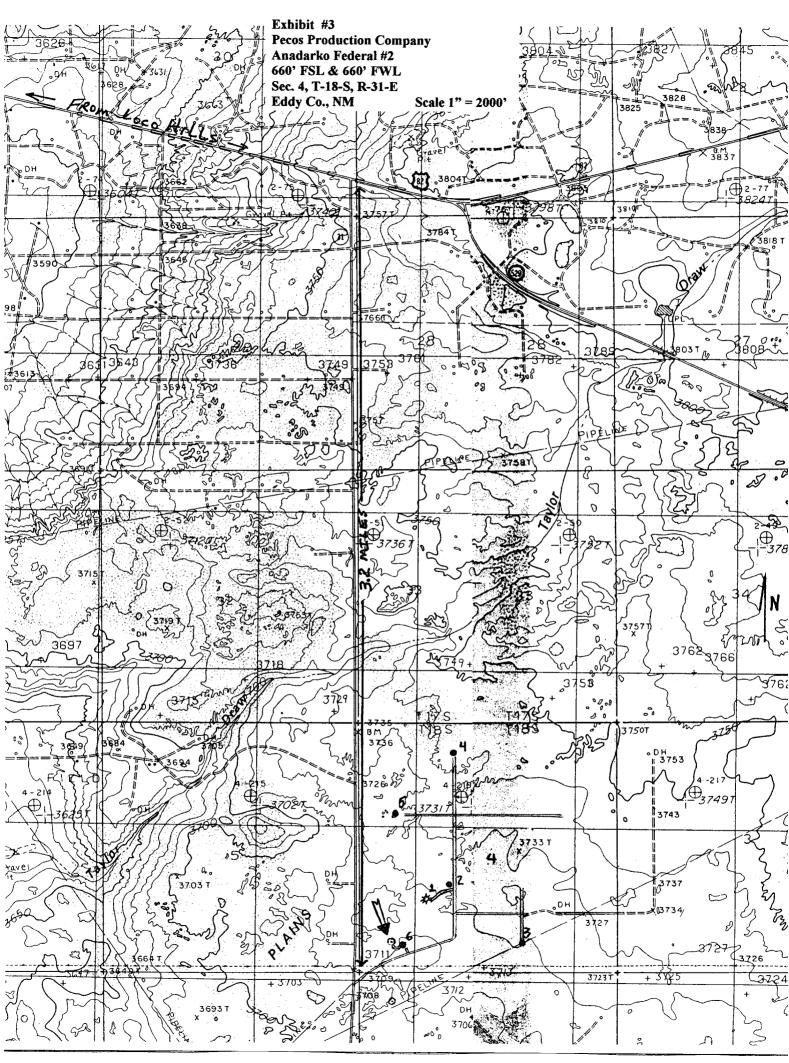


Exhibit #4 Coasta Mant **Pecos Production Company** Anadarko Federal #2 OIXTURNER 660' FSL & 660' FWL 103718 TD3756 -119 Sec. 4, T-18-S, R-31-E U.S. Scale 1" = 2000' Eddy Co., NM (H.E. Yates Kramarack) (Jexaco) Inegrburg Devon SFS H.Yoles (87.11) 82.6 Cedyr St. Texaco, 31Mil 029420 6 1 2008 (Moralo.inc) Dow-Fed. Aroka Disc. 100857 Ashmun, etal 2.2 Mil. 070003 LH-1832 1020 99 V F Pet Fed. Fed. Danali Fed. Tp 9683 West'n Oil Federal -14 OXY ox^k TO 8440 D/A 5 31 60 A.E. Ydtes (Texaça) -41 Power Deep-st. 32 Morr Disc. 21.8 Mil 21.8 Mil 21.8 Mil 1.8 Mil (DD) 1B-3627 Yotes 5/2 HBC H.E. Yates GRAYBURG Sunray M'C Foster Pet 2 Santa fe En Mesquite 34 Fed 1012 200 HBP Hanson Gulf-St V-3018 EASTLARD TD 4516 17595 H.E.Yates (OPER.) Mesquite 34-Fea. Morr Disc Allica st of Cedar 40 04 4 40.04 10 05 4 10 CB 5 (12) 1 Brothers 1 WOLD Prod. H.E. Yates Morioh 1 (Pennzoll) Res. 1/2 Mesquite 11.1-2011 OA 240.04 H.E. Yates (Apco) 5110 04 BC Dev LP 5 40.11 Anadarko H.E. Yates, etal (H.E. Yajes) Hudson & Delmar HBP DA FA Con HAP (Fed.) Str. Disc.) 89882 99879 Eastland/
ARCO-Fed Com. M. Cockburn Cockburn Fed M. K. Fed. M. Rneids Fed. M. Fed. M. Rneids Fed. M. Cockburn Cockburn Fed. M. Fed. M. Rneids Fed. M. Cockburn Cockburn Cockburn Fed. M. Fed. M. Rneids Fed. M. Cockburn Cockbu . Wilmar-Atapaz Fed" H.E. Yates 2 Anadarko Wilmer Fed. Brothers Prod. 2 Yates P113 / (Moriah Res. 1/2) Hudson P85 & Delmar F 241 11 . 1. 2011 Anadarko 89882 89879 Anadarko Esd. H.E.Yates 1 H.E.Yotes (Atapaz) "Hondo Fed." P248 U.S. Maghum Fed.Com Anadarko Pzis U.S. H.E.Yates Mesquite Fed. Mesquite Fed U.S. Gruy Pet. KHMR Andarko KaiserPER 1 Open 3 Balsh-Fed Francis
20098 (100) - Hoskins Piro OXY 33437 (H.E. Ricks Brothers Prod. (Pennzoil) (ma) • (Moriah Res. 1/2) Hudson E, Delmor Mewisourne Fren Fed Com (Pennzail) 1 89880 (0293 88) ● 5·A 958 B9881 Ricks Expl. lojangles- I NMR Oper. Tr. Brothers to

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Brothers Prod Tompand Pentral 11 P393 Hondol TIA (Atapaz) Members He Johnson-Fed. H.J. Ledbetter 9 Pennzoili Totas 2 13 Winner Singlers A. E. E. R. Edwards Francis 89880 Marathon Stetco Fed TD 9049 grathon on son-fa Arco-Fed." Vintage Orla. Wilman 4 64 3 664 Wilman 3 70 070133 2 8 Ginsberg Ginsberg 1.8 Wi Erwin Amoco Erwin Shugart Vintage Drig. 1 Texam (Me Tex) (Hudson L Nadel E F39 8-2178 | Gussman 2 MMdici Westwir V-2481 Brothers Prod. Shugart WALEER 27 Hudson (WO) Mew-bournes C42819 Burlings 02939 Pends CO No. Ship Brothers Hudson E. **"8"** Vintage Burlington Prod Moriah Res. 1/2 Shughar" 89879 Wi (1) E 802 Mog St 070134 11 - 1 - 2011 029308 - ME/4 Fed Johnson" LG - 1101 Mere Cockhiura Shugart Burlington exdm Kenwood Hudson F. Delmar Brothers Aodetal 3 - 1 - 95 Ledbetten - 80 HAP 11 - 1 - 2011 83601 TD 3 530 1600 00 Grun 89879 29388 Brothers E 882 (Canadian Kenwood)