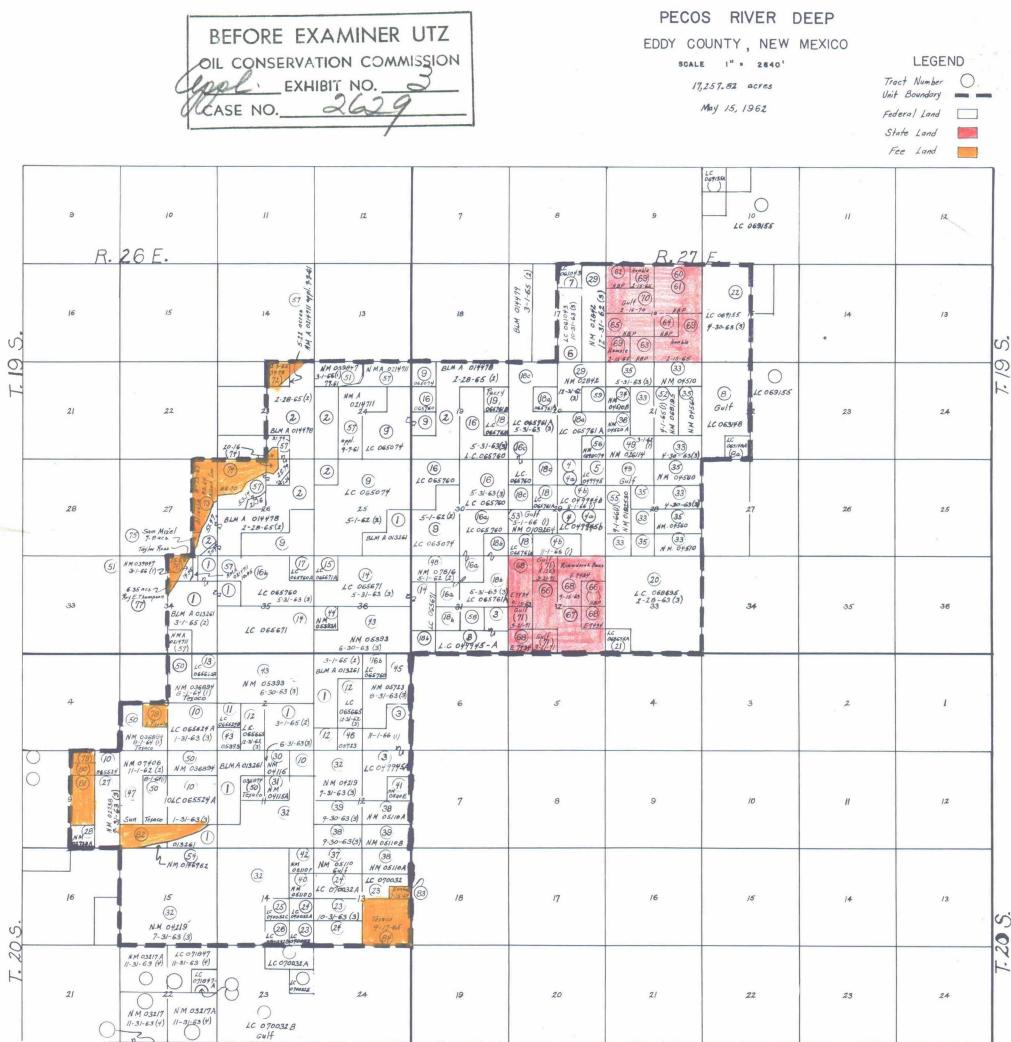


EXHIBIT "A"



INDEX

REPORT	Page
Purpose	1
Summary	1
Location	1
General Information	1
Geology	3
Reservoir Data	4
Calculation of Reserves	5
Economics	5

# TABLES

\_

1.	Well Data and History	7
2.	Multi-point Back Pressure Test	8
3.	Gas Analysis	9
4.	Formation Tops	10
5.	Core Data	11

### FIGURES

1.	Map	13
2.	Well Log Data	14

# PRELIMINARY INVESTIGATION OF YATES DRILLING COMPANY - PECOS RIVER DEEP UNIT #1

1

PURPOSE:	The purpose of this report is to assemble the known data
	on the Yates Drilling Company - Pecos River Deep Unit
well #1, make a pre	liminary analysis of the Morrow gas reservoir, calculate
the probable reserv	ves of oil and gas, and show the expected economics involved
in paying out drill	ing cost.
SUMMARY:	Based on a minimum size track of 320 acres:
Calc	culated total gas reserves 4,428,800 MCF.
Calc	culated total oil reserves 26,572 bbls.
Esti	mated working interest income,
	Gas \$496,025
	0il <u>51,655</u>
	Total W. I. Income \$547,680
Esti	mated total expense <u>310,000</u>
Esti	imated net profit \$237,680 per well.
	The above figures are considered minimum since it is
possible that a lar	ger size track can be drained by each well.
LOCATION:	The location of well #1 is in the SE/4 of the NW/4 of
	Section 28, Township 19 South, Range 27 East, Eddy County,
New Mexico. The we	ell is the first well drilled on the Pecos River Deep Unit.
The outline of this	unit is shown on the map, Figure 1.
GENERAL INFORMATION:	The Yates Drilling Company has been designated as the
	Operator for the Pecos River Deep Unit. Well #1 was
recently drilled to	a depth of 10,741 feet, and reached this depth on March 10,
1963. Two zones we	ere tested - the Morrow gas sands at 10,227 to 10,374 feet,
and the Wolfcamp zo	one which was tested from 8193 to 8216 feet. An attempt was
made to dually comp	olete the well but packer leakage tests indicated gas

\_

RALPH L. GRAY PETROLEUM ENGINEERING leaking from the Morrow Zones, and the Wolfcamp Zone was found to be producing predominantly sulfur water. The Wolfcamp Zone is now shut-in, and only the Morrow Zones are being produced. Table 1 shows a complete summary of well data, and a history of operations conducted on the Morrow Zones.

During the process of drilling, Drill Stem Test #5 was made from 10,198 to 10,255'. Gas came to the surface in 4 minutes and flowed at the rate of 1.1 million cubic feet per day. Shut-in pressures were 4020 psi. initially and 3900 psi. at the end of test. Drill Stem Test #6 was conducted from 10,260 to 10,374'. Gas came to the surface in 13 minutes and flowed at the rate of 3.1 million cubic feet per day.

Some difficulty was experienced in completing the well, as shown in well history, Table 1. It appears that efforts to stimulate the well actually caused some well bore plugging. The well appears to be gradually cleaning up, but has not yet reached the maximum volume that was obtained on drill stem test.

On July 23, a multi-point back pressure test was conducted and the results of testing is shown in Table 2. The well was flowed at a minimum volume of 469 MCF per day on 12/64" choke at which setting the well head flow pressure was 2145 psia. The maximum flow rate was 1,129 MCF per day on 30/64" choke with a well head flow pressure of 326 psia. It is expected that continued producing will allow the well to clean up further, and improved performance should be obtained. Based on an analysis of the back pressure tests, and other data, it is my opinion that this well should be considered commercial. An analysis of gas is shown in Table 3. The gas is 92.04 percent methane, and has a BTU of 1059. Gas gravity is .6094 which is typical of other Morrow gas pools.

At present the well is shut-in, waiting for a gas purchaser. Southern Union Gas Company has expressed an interest in purchasing the gas, and it is my understanding that a price of 15¢/MCF has been mentioned. On tests, this well has produced about 10 barrels of distillate per million cubic feet, and this can be sold at a price of \$2.60 per barrel.

<u>GEOLOGY</u>: Like other Morrow Gas Sand reservoirs, the Pecos River Deep Unit is thought to cover a stratigraphic trap in which

at least the northwestern edge of production will be determined by sand thinning and porosity-permeability pinch out. Figure 1 shows a structural map with contours drawn on top of the upper Morrow pay sand. Control is admittedly meager, but Figure 1 reflects the best interpretation that can be made at this time. Sufficient data to prepare an iso-pach map is not yet available. One control point is available on the Gulf CI well #1 located in Section 25, Township 18 South, Range 27 East, which is approximately  $6\frac{1}{2}$  miles to the northeast. The top of the upper Morrow sand was found at a minus 6577 in the Gulf well, as compared to a minus 6722' in the Pecos River Deep Unit well. Dipmeter survey and seismic information were used also in predicting the structural relationships.

The Pecos River Deep Unit well is thought to be producing from at least three sands. These sands are medium to coarse grained, subangular, to conglomeratic interbedded with dark gray to black shale. The Morrow sands usually exhibit very heterogeneous qualities in porosity and permeability, but usually have extensive fracturing present which permits a high degree of communication within the reservoir. Formation tops are shown in Table 4.

Figure 2 shows log data through the Morrow interval. Data shown includes drill stem test information, self potential, gamma ray, sample lithology, sonic, microlog and cored intervals. Perforations are also shown. Two cores were taken. Core #1 was from 10,255 to 10,264 (9.5'), and Core #2 was from 10,357' to 10,374' (17'). Core analyses are shown in Table 5. After analyzing all of the well data, it is concluded that

the gas pay is limited to three sands as follows:

10,241-247 ( 6') 10,251-261 (10') 10,360-364 ( 4') Total - - 20'

The interval from 10,241-247 was not cored but indications of pay were shown on the microlog and the caliper log showed the characteristic reduction in hole size due to build up of mud cake on the sand. The sonic log shows an average porosity of 8.5 percent through this interval.

In the interval 10,251-261, the lower part was cored but it is estimated that the first foot of core was 4 feet into the zone. Core analysis showed an average porosity of 8.5 percent. The sonic log indicated an average porosity of 13 percent, so we have used a figure of 10 percent for this interval which is a compromise figure. The microlog showed rather uncertain pay qualities through this interval but possible pay is indicated. The core analysis is definite proof of this interval being productive.

In the interval 10,360-364, the core analysis shows a productive zone having an average porosity of 9.2 percent as compared to a sonic porosity of 10 percent. We have used a value of 9.6 percent in calculations. This interval also shows up good on microlog and shows a mud cake build up on caliper.

There is not yet sufficient information to outline the productive area within the pool, but it will be assumed that well #1 will be productive over at least 320 acres, and will effectively drain this area. It is possible that one well can drain more than 320 acres, possibly as much as 640 acres, so a 320 acre track seems like a reasonable minimum area to consider.

RESERVOIR DATA: The initial reservoir pressure for the interval tested in

drill stem test #1 was shown to be 4,020 psi. This will be assumed as the reservoir initial pressure. A higher pressure was found in drill stem test #2, but since this zone was thin, compared to the total reservoir thickness, the lower value will be used. The original reservoir temperature was measured at  $162^{\circ}$  F. Gas characteristics are shown in Table 3. The total net pay thickness is indicated to be 20 feet, having an average porosity of 9.4 percent. The formation water saturation is estimated at 25 percent. It is estimated that the abandonment pressure will be 515 psia. in the reservoir. Super-compressibility ("Z") factors have been calculated to be .88 at origin and .97 at abandonment.

5

CALCULATION OF RESERVES:

OF RESERVES: Using the various data shown above, the recoverable gas reserves have been calculated as follows, assuming that at least 320 acres are productive and recoverable by well #1:

•

Q, original gas in place

= 43,560 x .094 x .75 x  $\frac{4035}{15}$  x  $\frac{520}{622}$  x  $\frac{1}{.88}$ 

= 783,000 cu.ft./ac.ft.

Qa, gas left in reservoir at abandonment

= 43,560 x .094 x .75 x  $\frac{515}{15}$  x  $\frac{520}{622}$  x  $\frac{1}{.97}$ 

= 91,000 cu.ft./ac.ft.

Recoverable gas = 783,000 - 91,000 = 692,000 cu.ft./ac.ft.

Amount of gas recoverable from well #1

 $= 692 \times 320 \times 20 = 4,428,800$  MCF.

It is estimated that 6 barrels of distillate per million cubic feet of gas will be recovered.

Distillate reserves =  $6 \times 4,428 = 26,572$  barrels.

ECONOMICS:

It is estimated that an average well completed in the

Morrow sand should cost approximately \$250,000 including

lease equipment. Assuming that the gas will be produced over a period of twenty years, the lifetime operating expense is estimated at \$60,000 (\$250 per month). Total expense is estimated at \$310,000 per well for future development.

It is expected that a price of 15¢/MCF will be received for gas. After deducting 6.69 percent for taxes, the net gas price will be 14¢/MCF. The price for distillate is expected to net \$2.43 per barrel after deducting 17¢ per barrel (6.69%) for taxes.

At this time, the exact participating area for well #1 is not known, so the exact working interest cannot be accurately determined. However it is believed that an average of .80 of 100 percent is a reasonable figure to use for the working interest. Based on this, the working interest reserves amount to:

> Gas - 3,543,040 MCF Oil - 21,257 barrels.

INCOME:

Expected income from gas - - \$496,025 Expected income from oil - - 51,655 Total W. I. Income - - - - \$547,680

EXPENSE: Cost of completed well - - - - \$250,000 Lifetime operating expense - - <u>60,000</u> Total Expense- - - - - - - \$310,000 Net profit from operation = \$237,680.

Respectfully submitted,

REGISTERED PETROLEUM ENGINEER No. 1168

RLG:1w

### WELL DATA & HISTORY

YATES DRILLING COMPANY - PECOS RIVER DEEP UNIT #1

Location: 1980' f. N & W Lines, Section 28-19S-27E.

Completed Drilling: March 10, 1963.

Elevation: 3518 K.B.

Producing Zone: Morrow (Penn) Gas Pays.

Pay Intervals: 10,241-247, 10,251-261 and 10,360-364.

Perforations: 10,227-237 10,241-246 10,251-261 10,326-339 10,348-363 10,365-374

 $4\frac{1}{2}$ " O.D. Casing at 10,511' with 950 sacks.

Total Depth: 10,741'., PBTD - 10,424.

Absolute Open Flow: 1,150 MCFPD + 10 bbls. dist./MMCF.

### HISTORY

March 25 - Perforated 10,333.75; 10,334.25; 10,360.7; 10,361.2; 10,361.7. Treated upper and lower sets with 500 gals. acid each.
March 26 - Tested 1.6 MMCFPD plus some diatillate.
March 28 - Fraced lower set with 10,000 gallons gelled oil (screened
out after 5,000 gallons + 2600# sand). Fraced lower
perforations with 672 gallons oil (3,000 gallons with
1/8# sand/gal screened out).
April 4 - Flowed 949,260 MCFPD, TP-200, CP-450.
April 10 - Reperforated 10,227-237; 10,241.5-246; 10,251-261;
10,326-339; 10,348-363; 10,365-374 with 72 holes.
April 12 - Acidized with 3000 gallons, packer at 10.310'.
April 16 - Acidized with 1,000 gallons.
April 20 - Flowed 1,258 MCFPD, TP-300, 3/8" choke.
April 22 - Flowed 1,404 MCFPD, TP-350.
April 29 - Treated with 1000 gallons fluid containing 100 gallons
emulsion breaker in 900 gallons 3% acid in brine.
May 1 - Treated with 10,000 gallons emulsion breaker in 5% acid
brine.
May 2-8 - Flow well to clean up. TP 50 to 75#.
July 23 - Conduct multi-point back pressure test.

### MULTI-POINT BACK PRESSURE TEST

# YATES DRILLING COMPANY - PECOS RIVER DEEP UNIT #1

Test Date: July 23, 1963

Test made by: Coleman Petroleum Engineering Co. Section Tested: 12,227-12,374 72 hour Wellhead Shut-in Pressure - 2883 Absolute Open Flow - 1,150 MCFPD.

# FLOW DATA

CHOKE SIZE	DURATION OF FLOW	RATE OF FLOW	WELL HEAD FLOW PRESSURE
12/64"	3 hrs.	469 MCFPD	2145 PSIA.
17/64''	21 hrs.	753	1430
25/64''	4 hrs.	979	941
30/64''	3 hrs.	1,129	326

Reservoir Temperature - - - - - 162° F.

Original Reservoir Pressure - - - 4,020 PSIG.

# ANALYSIS OF MORROW GAS

YATES DRILLING COMPANY - PECOS RIVER DEEP UNIT #1

Helium	.00
Carbon Dioxide	.20
Nitrogen	1.03
Methane	92.04
Ethane	4.71
Propane .	1.39
Iso Butane	.15
Normal Butane	.20
Pentane	.20
Hexane, plus	.08
	100.00

Calculated	Specific Gravity	.6094
Calculated	BTU	1059

# FORMATION TOPS (ELECTRIC LOG)

# YATES DRILLING COMPANY - PECOS RIVER DEEP UNIT #1

.

	DEPTH	SEA-DATUM
Queen	965	+ 2553
San Andres	1,873	+ 1645
Bone Spring Ls.	2,635	+ 883
lst B. S. Sand	5,516	- 1998
2nd B. S. Sand	6,005	- 2487
3rd B. S. Sand	7,463	- 3945
Wolfcamp	7,920	- 4402
WolfCamp-Penn Reef	8,320	- 4802
Morrow Sand	10,098	- 6580
Barnett Shale	10,379	- 6861
Pseudo-Mississippian	10,490	- 6972
Mississippian	10,701	- 7183

Table 4.

.

0 W 3-3 A

Darrell W. Swith Ca. PHONE OX 4-2511-MIDLAND, TEXAS PHONE EX 3-6173-HOBBS, N. MEX.

# FULL DIAMETER CORE STUDY

	1		
Formation Morrow	Section 28-19S-27E	Lab No. 676-H	
	-Location 1980' FNL & 1980 FWL, Section 28-19S-27E	March 31, 1963	SATURATION
Undesignated	Location 1	Date	PERFECTIVE
Field	L		THE AND A
Operator Yates Drilling Company	Well No. 1 Pecos River Deep Unit	374	_
Yates Dril	1 Pecos R1	Depths 10,255-10,374	
Operator	Well No.	Depths	

-	neprus								
BAMPLE	REPRESENTATIVE		PERMEABILITY, MD.	ITY, MD.	EFFECTIVE	SATURATION X OF PORE SPACE	TION SPACE	DESCRIPTION	
ŪZ.	OF FEET		HORIZONTAL		*	RESIDUAL	WATER		
				MATRIX					
			;	PERM.		5			
			Core No		202-10, 264				
			Kecover	ed tu, z	Kecovered IU, 200-IU, 240, 0		_		
٦ 	10255-56	1.0	67.7	0.04	11.7	0	36.8	Vfg gray Ss slty shy top 4" sh	
2	10256-57	1.0	0.46	E	6,6	0	31.8	gray Ss slty shy	
e	10257-58	1.0	0.49	1	7.7	0	36.4	gray Ss slty	
4	10258-59	1.0	Broken	0.10	9.1	0	20.9	gray Ss slty	, -
2	10259-60	1.0	6.7	ł	8.6	0	26.7	gray Ss slty	
و	10260-61	1.0	20.	0.02	7.0	0	24.3	ly Ss	
~	10261-62	1.0	1.3	ı	5.4	0	35.2	Vfg-fg Ss slty shy Sh ptgs	
8	10262-63	1.0	0.58	0.36	5.4	0	46.3	Vfg-fg Ss slty shy Sh ptgs	
20.	10263-64	1.0	ł	0.11	1	t	1	botton	lyzed
	10264-64.5	0.5	e	•	t	1	J	Sh black sandy Not Analyzed	
	10264.5-10357	92.5	I		ł	1	1	Drilled	2020
			;	- - -					
			Core No. Recovered	z 10 d 10	, 357-10, 374	(1/ Ft.) .5 (16.5 F	•		
6	10357-58	1.0	5.1	1	6.0	0	61.7	Vfg gray Ss slty shy bottom 4" båack	eld sh
10	10358-59	1.0	0.20	I	6.1	0	36.1	gray Ss slty	
11	10359-60	1.0	<1000.	0.26	2.6	0	25.4	gray Ss slty	<u></u>
12	10360-61	1.0	17.	3.5	9.4	0	28.5	gray Ss slty	
13	10361-62	1.0	14.	8.5	<b>6°</b> 6	0	23.1	ay Ss slty PF	
14	10362-63	1.0	6.6	0.71	10.5	0	25.2	gray Ss alty PPP	
15	10363-64	1.0	0.26	ı	7.1	0 0	54.9	gray Ss slty PPP bottom	Sck SI
16	10364-65	1.0	0.67	t	4.1	5	40.8	VI-cg gray 58 slty shy top 6" black	us
<del></del>								Table 5.	ii

.

	Beile D'Aufremont Atlantic 2-13-67	Relph Nix R. T. R alph Nix, et al	A.D. (G.E.Conley) Solsbery (12.1-72) 12.15 69 (12.1-72)	1 39.50 4 M.Feathen Stone	5. P Skelly    Idam Skelly    styl  _1 -63(3)	tor (3)	O TD 2314O
	Palph Nit, C.F. Mock Ralph etal C.C.Hightower Nix, Etal R.T.Schenck Ohi Pan Amer. Atlantic	ooii Schenck R.T. Schenck R.T. Schenck	Hamilten Ret.	U.S. (2) Douglass U.S.	479 061217 U.S. P. V.P.	Westin Dev Humble Westin Dev.	International A B.Brad.
	1 1111 nois R.T. Schenck R.T.	T. Schenck, ePal R. T. Schenck	70 2306 93 Ac. 11 R.L. 41	121,55 MC MILLIAI 014479 3960 21 Marths Featherstone			5. 1. 65(3) / Appl. 069155 Honde
	16 E10082	ggett 3-11-67	House 13	10.1.64(3) E.W. Douglass R.L 39.66 3 IBC.W.	0338755 061043	K 2 06 70 28 Westin, Dev.	- 15 - Stevens Westn
	J.F. Thompson 1 Con - B.E. Pulsifer Thom PonAm. PanAm. R.W. Folging Bell Percent	mpson Finer, R L. Ronkin A Ream F. M. Lee F. M. Lee Pam Amer, Helbing, et Helbing, et Helb	0161403			E-974 Humble Local	
	37 56 1 Stote 37 56 1 SCO Eanning C.	M. Kiddoo, Est. Albert Lee Albert Leer	ttop Est. All U.S.	U.S	U.SU.S.	E-8818 B-690 Stote	West'n Dev.
	+ Foir 19 - 2 - 64 3 - - Sonta Fe + TD 2431 - TD 2431 - For	14:64 ber is Chester Storr Albert doo Susc Albert Lee Albert Lee U.S.	033847 U.S. GF	4 · I · 64(3) 3 · I · 65(2) 065074 014479	7 · 1 · 61(2) 1 · 1 · 65(3) 065761 1 02842	6/1.61(2) 04560 5.1.65(3 04510	es Sherman Ressier
	(N.M. Barnhill) (1) · 20·69 - 2 (Atlantic etal)	a Anne m ≤ 3tJohn c_Ationtic 	V P 10161403 Sheldon1	74 065760 1 065	6 025	21068195 1 14	Fulton Johnson
	wm t	A.P. IBell Pet Dat 10"	79, 014478	065076	V.P. T	d- Gulf 3-1-671 Fair Oil	Yates B.J.Bradshaw
	eraletal Richard Flayd Trs. Spontrs. Short is el	Bujga Albert Lee (S) 101614037	JpE. A. Aonson U.S.	39.38 Vilos Sheldon	Sheldert R.W. 18 rate	Gulf Yetstelle Yate	063148 5.0088079
	KEDEL 11. 6. TO : W. Floyd, Est, etal R.W. Fair, etal Rehal	Annie Bentley	MC MILLIAN	065760		si Votes D 2 6114 F I Sheldon Di 560 Sheldon La Neve Troison Bourtes A La Neve Troison ers A Marce A La Foir Oil	Gulf Gartis Dradshaw 5-1-72 Fed (A ppl.) 5-24021 P 2006 D/A1-22-52 O
	4 70 28 27	Lee -26 014478	25	3930 5		Gulf 04551 1951 (3) 9-1-71 For Oil Estelle Vite	27-69
	Kinding / Ohio Oil	inafield	V.P. Sheld	4 · 1 · 64(3) 065014 39.26 4	TATES DRLG. C	Poir Oil Yotes Fair Oil	
	Sullivan L.T.Lewis L.T.Lewis	5ky 2000 0.0.		U.S. (2)	Richs Gulf Rich & Base	1	0.3., 1
	L.Heydrick E.Heydrick	VP ( 0.5, 065760	7-1-61 (2)	4-1-64(3)14-1-64(3), 065160	P-15-63 20.63 Store Filing	3. 1.65(3)	6.1-61(2) Kincold
	6.6.7.10 2006 Keir) Bill	5.29 (00-2) U.S. Eventson Johnson 35		2065711 2065711 2065711 2065711 2065711 2065711 2065711 2065711 2065711 2065711 2065711 2065711 2065711 2065711 2065710 207570 20	Totals 1 48 4 1 1 48 4 1 4 1	33	Greenwady &Assoc2. P5 TD 3016 Hall-Fed. 34 D/A7-18-61
	Swiger + (E.C.	Wilson, 7-1-61 (2)		7-1-61(2) 03019801 065781 36 93 1 35.0[ 4 34 4 5 7 8 1 36 93 1 R.Foir   Yates Bres.	Rich. 41 Gulf 1, E916 Jones	Delbasing otes	
Less     List     List <thlist< th="">     List     List     <thl< td=""><td>J. 8. Moutray Jean L.T. Hugh Moutray Everest Lewis L.T. Lewis US 40.26 433.58 338.34 2158.32 138.27 438.62 3133.36</td><td></td><td>U.S.</td><td>1-1-6(2)     U.S.     049945       065161     Dowers     1       3678     11/41.43     1036335(19137.78.8)</td><td>2. 6955 1K-1253 Featherstone" Fathers 1 225 of Toin25 38,73 81 39 02 71 37 23 6 37,79 5</td><td>068695 10 2241 U.S.</td><td>40.74 4 40.64 3 40.52 2 40.42 1 40.</td></thl<></thlist<>	J. 8. Moutray Jean L.T. Hugh Moutray Everest Lewis L.T. Lewis US 40.26 433.58 338.34 2158.32 138.27 438.62 3133.36		U.S.	1-1-6(2)     U.S.     049945       065161     Dowers     1       3678     11/41.43     1036335(19137.78.8)	2. 6955 1K-1253 Featherstone" Fathers 1 225 of Toin25 38,73 81 39 02 71 37 23 6 37,79 5	068695 10 2241 U.S.	40.74 4 40.64 3 40.52 2 40.42 1 40.
Normal     State     State <t< td=""><td><math display="block"> + \frac{1}{2} + \frac</math></td><td>11-1-65(3) <u>065665</u> Texaco 1 (2) ·1 <u>1</u></td><td>V P Sheldon 2-1-612 3-1-65(3) 205760 0(326) 222 22 2-1 1 V 1 L.V. Waggoner</td><td>Horvey Yotes 1285</td><td>Wi-State Harvey Vates TD850 063561 37.18 9 37.48 10 3644 11 36.94 12</td><td>Niller-Fed. 1 102184 1 Trigg &amp; Yates 1 1 9.1.71 1 Jno. Trigg</td><td>L LTD 2410</td></t<>	$ + \frac{1}{2} + \frac$	11-1-65(3) <u>065665</u> Texaco 1 (2) ·1 <u>1</u>	V P Sheldon 2-1-612 3-1-65(3) 205760 0(326) 222 22 2-1 1 V 1 L.V. Waggoner	Horvey Yotes 1285	Wi-State Harvey Vates TD850 063561 37.18 9 37.48 10 3644 11 36.94 12	Niller-Fed. 1 102184 1 Trigg & Yates 1 1 9.1.71 1 Jno. Trigg	L LTD 2410
High Marting     High Marting<	Everest Lewiseto to 1	036894	15helden 9-1-63(3) 1-1-65(3) 065665 -				02295
Image: Control	8 - 1 - 44 (1) - 44 (1) - 7 - 2 8 - 1 - 44 (1) - 64 (1)	(3) - 1065665 V P. 1 V P. 1 013261	V.Sheison, L.V. V-1-65(3) Waggoner HBP	(H. tures, 10 1.5	A ALLA AILLA A	[	
Start     Start <th< td=""><td>J.B. Moutroy Est, etcl. U.S.</td><td>861(2) 05393</td><td>057230 5.</td><td>39.04 / Wright &amp; Lillie Yates Yates</td><td>• 4 Yotes</td><td></td><td></td></th<>	J.B. Moutroy Est, etcl. U.S.	861(2) 05393	057230 5.	39.04 / Wright & Lillie Yates Yates	• 4 Yotes		
Marcing   Disk   Control	4 9 66 4. 88765 565 (3) 10 165 (3) 10 164 (3) 4 9 66 4. 88765 524 10 1316 164 (3) 107406 10 10 10 10 10 10 10 10 10 10 10 10 10	036894 V. Fair, et al V. Fair, et al	8-1-61 (2) 04219 04219 Peccs  Wills	39.18 2 Harvey Vates 4 3		HBP	3 · 1 · 64 (3) 5 · 1 · 65 (3) 02295 063494 (1)
Neuroparticity     St. 44.9     U.S.     Particity     Partity     P	R Lowe (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	Sheldon (Borbara Anderson)		"Page E. Yates" 7 TO 746 39.34 3 Maico 7-15-54	Malca Dooley	9 Jno. Trico 1 3.1-64 (3)	
Berbara Anderson Barbara Anderson HBP odalle Borbara Anderson HBP odalle Borbara Anderson HBP odalle Colf Statu (Statu (Statu (Statu)) Colf Statu (Statu) Colf Statu (Statu) Colf Statu (Statu) Colf Statu (Statu) Colf Statu (Statu) Colf Statu (Statu) Colf Statu (Statu) Colf Statu (Statu) Colf Statu) Colf Statu) Colf Statu) Colf Statu) Colf Statu) Statu (Statu) Malco Statu) Ritherdson (LBass (Statu) Statu (Statu) Statu (Statu) Statu (Statu) Malco Statu) Ritherdson (LBass (Statu) Statu (Statu) Statu (Statu) Statu (Statu) Statu (Statu) Malco Statu) Ritherdson (LBass (Statu) Statu (Statu) <	Neutray Bros. R.Lowel JSt Covert et al	04219 (m) M	Estelle Yotes N.H. Wills 9:30 63(3) 9:30 63(3)	33.48 4	U.S. Kansas Cily Min.	MuseyJr.	062934   Bedingfield
J.E.Howell (3) Observed basis Observed basi	Vales Bros. Vales Bros.	Barbara Anderson 9-30-63(3	Gulf Votes	39.58 /	Malco	0.5. 1 (2)	
Image: Series and Series an	J.E. Howell (S) 322221 HBP	04219 Knox,etgl Hatchett Star, 5.5 TD 706	05110 9:30:63(3)05110 Gulf	958 Mc.co	TURE CONTOURS	0N TOP OF	065859
State		Hatchatt 4 Guif - M. Yafee	Gulf TD 1008	38.85 3 18	THER MORROW	PUPE 8-20-67	15 AP?
s von se. Vise von	(Jack McCaw) 3-1-71 1043367	SP. 10032	<u>070032</u> S-17-65 M. Yates II, et al (1 - 1 - 63(3) S-17-65 Bestwell Gyp. Co. Yotes	59.68 Kansas City Min. Roy.etal		Naylor, etal Seale	9.30
b & AC. (tan) 03385 M. Her. Marctill Gulf, V2 Greer, 011847 Andez Association Gulf, V2 Greer, 011847 Andez Gulf, V2 Greer, 011847 Corper Data Corper Dis Uti-63(3) (ti-63(3) (ti-63(3	Yor es. WitspirePhillips Barper 1 9	ulf.1/2 M.Yates III, eta 1/2 + 4 + 64 (3)	31 10 330 9	Investors Royalty Co. 39.77 / So Schio	Superior 11-4-70	Phillips Mid-Cont. 9-1-63(3) 191-63(3)	U.S.   Superior L.   12 - 20 - 70 Had
Carper 221 - spert Phillips Guilf V2 Guilt V2 G	12-1-63(3) 12-1-63(3)	2-1-63 (3) 0338757 10 ser 10 or per 10 o	FeatFerstene K 651 To 387 L 35 03 Carper Orla	39.88 2T	Phillips	05936 05936	Sunray Mid-Cont. 2:15-65
Wilshied with the former of the set of the s	Carper Alerrer Wilshing	arpere hillios	20 69	10.02 J 19 + 06/222	20 05936	2	22
	HBP 6.9.63	2(1-63(3) )3217 Shugart	1	TD 18:3			Figure 1

