n& Hudson ( 1.61 / 1.61 00750 (000000)	Pan Amer. opt. Southern Opt. Robt.N.Enfreid) Int. Lea Enfreid 5-1-67 Jos5664 (5-1-67) 0-5-75 Dos5664 (5-1-67)	(Pauline & Bunnell) 6-1. GT 03:09-1 Pan American TD:35-7 7 a Sivilet	Hondo Drig stall Phillips Union Oil Mothert Air Trico Incase 15 1:60 Pan Amer.	Pan Amer. 4-1-67 019225	Grig. & Expl. Co 9 1 60 2 39 15	Drig. & Expl. 4. 17.66 E 10002
20	Pan Amer. (Cherry & K.al.) (Geo. Contey)	1. Sivier 3055'42 22 559) 5 Janou 23 559) 5 Janou 8 assin / Moto	1.1.3648 2 8 60	24	Richardson & Bass 19 E. 3703 1 T. 500 5713 D/A 1-12-59	State 1 20 Orlo 6 E 3 I 6
Us.	4-1-27 3600 026316 came (A.S.	DE THE STAR	Emperor etal 43 3663 157	US	Breinard Fed.	0759 U S
c con L So in r") (W.H.Black)	Geo Conley A 10 1 56 C 16 116	Empening Stat	Dalport Sarbara Norma 3753 Rubanstein Pan Amer 1	Pan Amen. 4-1-67 (Walter Morrison) 01925	Pan American ? 4-1-67 033026 14035 Drig.&Expl.Co.	irig & E 68802 (71-59 6-1-6
E.3958 H-E Y 2966 L0.3339 29	28	Pauline A Bunneil 4.1.67 330441 C 27	4. 67 036143 otezze 26	US Min OSTRAS Mark. Smith	5480.F A-11-19-58 78-483 78-433710 056376	25
(Sinclar) E.3593 Hangon See R 1200 U S T D S SO	Dalport Oil A 0 1450 0 1455 US min. Mark priite	Pan Amer. E.3589 Ja-1-67 (J.C. T0.3525 0-9126	Pauline A. Bunnell G. 1. GT Pan Amer. G. 1. GT State Pan Amer. G. 1. GT Pan Amer. G. 1. GT State Pan Am	Pan American 4.1.67 033022 Mark Smith	Anti Anti Anti US.	Chas.Cl Bankhead GilGI U.S G68051
1 1573 7 3243 1806 0 1 1069 1054	Virginio Lee Sounders Ralph Lowe U.S. 6.1.37 Cto169	Pen American option (Caswell Silver) 7-1-GT	Pan American (B. R. Garman) Gil et 130991 4130	16 1184 U.S. Umetho U.C.(22	Mis.N.H. Welch Dat.1.1 40	Texaco Inc 1 12 21 64 1
Edw E. Kinney 'B" 103259 42 412:31:55 "Machalia"	W.H.Bjack East & U.S.Min. Nark Smith Stare 33	030967 34	Hussons Rudson Texas) "Saunders" 1 30. - 350A 23-55	Continental E818 105 4	7:40,48 7:41,10 - 31	32
M34	Shir Ly V. Reiph Lowe Thompson G.1.67 B-1-44 04713 026169	Marx Smith.(S	Continental EENearburg 80 0:149	Sinc air 6010 (pt ) d. 8. P. U.S. Smelting State Er 5184	Walter L. Morrison Walter L. Morrison 9-1-67 032985 4-43:22 U.S.Min	
State  HBP	US	- JS	Mark Smith etal Jr.) US 2 12 10 10 10 50 11 21 42 1-39 28	4. 34 36 1 39 60 2 377 1 39 40	U.S. W.H.Dunn	Stat
ardson & Bass 6-1-61(2) нари	S.V. Thompson 8-1-64 (2) Richardson & Bass 5-10-61	4 40 (John H Trigg)	E 3519 DF Continental (3)88 5-19-64 18/4 1 L E 8/87	Pan American 10.450 8-1-70 'n G. Pennose 91	S-43 th Pao Amer	Pare Oil Edwin B.C. HEP HEP Deseon 06:
5	Pauline 4 V Triag 5-1,Gir Statis	3 I So Calif. Petr.	2 1	(3684' Mahaffey Fed ARC UNIT Ris. to 4000' only Sinclair (Oper.)	8-1-70 6 +0 52 Pan Amer. 8-1-70	Hudson
Ls.	State Un Scharbeier	McGarth & Smith) 6-11 69 E 3555 00 064685 TD3435 Jul 2010 D/a 2:26.57 JS	Ralph Lowe State E 5186	Union Tex, efal	L 40 35 O S. P S Min FN Crahen Sur	HB1 US
chardson & Bass 6-1-61 (2) HBPU	Sinclair 6015 8 -1 - 63 (3)	And Prich. So. Calif. Patr. 6-1-63(3) 9-1-70(2) 05147	Sinclair" 899 8 - 1 - 70 (2) Subj. to Prod. Pmf.	Pan American 8-1-70 Pauline V. Trigg	Continental 1-31-62(3)	Hudson
<sup>3)</sup> 8	Subj. to 5 % ORR 9 Tot. 1,000 Net Ac. in Lse.	Antierson IAnderson Prichard	320 AC	AndPrich. And Prich. 5	3 4000 7	8 1,0 (Te
LAKE	640 Ac.#14 U.S. E.A.Kanson	Prichard J/ 6-1-63(3) 8:Ph lips / Sinc #4003 H.B.P. Sinclair #907 #008 7-1-71 (2)639 sinc. U.S. 80 Ac. 3410 (1	Phillips 1/2 Prich. # 4004 663(3)	6-1-63(3) Phillips 05147 CHBP 3228 M Cl (Jeffers) 01 0.5. 3557	ear word	3909 "S
5,8935 Sinclair 6015 (pł.) 1 8-1 - 63 (8)	Sincigous Atlantic : •2 •40 Ac. 8-17:64	(W.H.Black & Honde Drig) • 1 Sinclair # 4008	el 2001 So. Cal. Pet. S/R	So. Cal. Pet. 1/2 2 • Culbertson 5, Irwin 1/2 4 ø Irwin 1/2	Cifies Service, etal HBP	Cifies Servic HBP
FWI to 3425' rvice - FWI below	Sinclair 886 I Cifies Service 3 1 I BP 80 Ac. 6 BO Ac.	Tenn, Gas Trans. Co. V2 Anderson Prichard V2 HBP 15	Mahaffey-Fed. 2 W.H.Black 3 Forest P/R S/R 4 So. Cal. Pet.S/R	3536 °C"	0 •1 1814-LY	"8"
U.S./ 240 Ac.	Cities Service Sinclair 6019 (pt.) BP 2 Sinclair 6019 (pt.) HBP 80 Ac. HBP 100 Net Ac.	W.H. Black-EWLL to 4000 Sinc. 5% of 7/8 O.R.R. to 40000' - EWLL below.	Sinclair 6006 3465 62 40 Ac. (Br. 40 Ac. (Spartan) 50 Sinclair 6007 1 Sinclair 1000000 Sinclair 6007 1 Sinclair 10000000	Sinclair 888 Billia M.	TEAS	cit. Ser., etal HBP
19(pt.) Cities Service State Finclair <sup>#</sup> 6015(pt.)	Cities Service in Lse. HBP State 160 AC. Sinclair 6014 Phillips 1/2	-33	80 Ac. U.S. 80 Ac. 07407 Sinc <sup>19</sup> 21 (Bay Pet.) 10 (C.C. Bay)	5-1-68(2)   Trigg 60,Ac. U.S. 4-1-61 (Henderson) ig3950	U.S. A <sup>2</sup>	ø <sup>2</sup> U.5 3633
15:B355 + 8-1-63(3) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5-1-62(2)   Anderson- Prichard V2 HBP	And Prich. 6-1-63 (3) Ora Hall, Jr. 11-1-63 (3)	40 Ac. 3433 Tennessee Gas Trans.	Texaco Zz:1:69 Tenn. Gas Trans.	Cifies Service efal B" HB? "A"	Cities Serv HB "A"
8-1-63(3) 	And Pr. Phillipsi Anderson Prichard	Phillips HBP (Shell) 41 3470	"C.S. Loomis" 23 3433 10 A" 23 A" 3414 02 02	- 24 3730 Ø2	3 48 cm 1 19	
H.B.P.U. U.S.	HBP G-1-G3(3) U.S.	U. 3.	ardson "B. Dennin" U. S.	5730 P F.C.Minkler 7-17-69 U.S. (RC.Teas) øl	3.14. 81 4 40 11 Leonard Oil 1 4 1-62 USS. 07304 1	U.S
4. 1. 61	070285 TuruMise	West. Dev. Co. 9-1-70	E 3450		Langa T.D.3150 Million St. 1941	•1 E.G. Colton Wills-Fed.
29	010285 Unculture 00052 5 noure 1 - 1 28 - 3811 - 28 - 3811 - 28 - 3811	27	T.0.324 Wm A.Hudsor 26 D/A21649		Continental 4-1-02(3) 3-1-60 5-1-60	Texaco- 29
	Western Dilfields Invrance CHarris	Atlantic	Hudson		Cioon H 5/ 5/0 - KH 5/3 - KH 13 - KH	Seaboard Incu 5 1-60 01130 M.E.Willd 4-1-62(3) 2
U.S.	013334 7:1-64 013334 US Sulf. 0pt 2 3 60	11-64 State 17. R. Caviness 8 - 1 - 70 (2)	El Cinco Helbing	5.055 5.05509 7.0.3509 0[A c. 7.5] 0[A c. 7.5]	U.S. 01100	3368 U S
CO Richardson & Bass 117 65 E 9052	D. B. Perry 3 - 1 - 63 (9) 2650 - A	D.B.Perry Basin 3-1-63(3) 5-1-63(3)	01 01 3430 3440 E.M. Allison 01.Y 3429	Continental II. 16.64	Superior (CaswellSilver) 2 40.3 12-3567(2) 089256	E-3144 DF Western Dev
32	33	3-1-69(8) [3-1-68( 34 L065161- 045161-A	2/1	Gas Co.	1 43 3 <sub>2</sub>   -31	10.3780 044-1-057
Stafe	u.s. R3	3E us	Exhibit No.	State	· 400-" U.S.	State
E.H.Muse,Jr.   D.B. 10-1-G1(2)   4:1-G1	R3 2E Skelly (2) OBSIGI-A	W.L.Morrise		T.D.3508 Richardson Ewell & Bass 10 10-1-62 (3) 32	92 1239.44 439.6415 39.6412 19 N. Muse, Jr I. Gi #761	5411 38 54 9 33 4
5 46-57 k in toli   Ric   E   068921		0202296	1 1010 40 10 10 10 10 10	as ta sa mar a sa mar	+a te te	19 1.
	0732 Richardson 5, Ba JI-1-61(2) 00 • 13.40 0 • 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	10 9 40 00 12 40 00 12 40 00 12 40 bertson; win)	396'	CLAIR OIL & GA MIDLAND, TEXAS	S CO.
Lucy Muse IRichar 2.1. G(2) 3	13 nozi	rd- Brysn Bass Sell Richardson & 12-1-G1(2)	Bass 9-1-67(2) 006684	+ 3496'	PART OF COUNTY, NEW	MEXICO
	.: G((2) 3607 073 U.S.	BILLIJA JETAL DIADA	955.2 Ap (Culbertson 6) U.S. Irwin)	18-3	MBM_ CHECKED BY JWH_ D	
Lucy R Muse		ardson tj Bass 2 -1 - 63(3)	Anderson E) Kirwi	J. (Getty) 1 M SCALE: 1'	= 4000' REVISED	

SINCLAIR OIL & CAS COMPANY TEAS (PENNSYLVANIAN, CAS) POOL LEA COUNTY, NEW MEXICO

Gas and Condensate Reserve and Economic Data

I. Basic reservoir data: 1. BHP = 6,361 psig (Bomb pressure) ·:: Abandonment pressure = 2,000 psig (Ascured)
BHT = 168°F = 629°R (Measured at time of BHP measurement) 15 8122 4. Average Porosity = 13% (Sonic log calculation) 5. Average water saturation = 27% (Electric log calculation) 6. Net pay thickness = 36 feet (Log interpretation) Gas gravity = 0.68 (Measured during Multi-Point Back Pressure Test) 7. Condensate Gravity = 53° API Gus-Liquid Ratio = 30,167 cu. ft./Bol: (Measured during Multi-Point Test) 8. 9. Standard conditions = 15.025 psis and 60°F Gas compressibility, initial condition = 1.1 (Calculated) 10. 11. 12. Gas compressibility, at abandonment = 0.84 (Calculated) II. Reserve Data: Reservoir volume of 1 SCF = 0.00313 cu. ft. (Initial conditions) 1. 2. Reservoir volume of 1 SCF = 0.00752 cu. ft. (At abandonment) 3. Reservoir volume = 4,150 cu. ft./A-ft. 4. Initial Gas in Place = 1,325 MSCF/A-ft. 5. Gas in place at abandonment = 551 MSCF/A-ft. 6. Gas shrinkage factor = 0.976 (Calculated) 7. Recovarable Gas = (1,325-551) (0.976) = 755 MCF/A-ft. 8. Gas in place containing condensate = (1,325) (0.976) = 1,293 MCF/A-ft. 9. Condensate in Place = 1,293,000/30,167 = 43 Bbl./A-ft. 10. Recoverable Condensate =  $(\frac{1}{3})$  (0.20) = 8.6 Bb1/A-ft. Reserve for 160 Acre Spacing: 11. a. Gas = (160) (36) (755) = 4,348,800 MSCF b. Condensate = (160) (36) (8.6) = 49,536 Bbls. 12. Reserve for 640 Acre Spacing: a. Gas = (640) (36) (755) = 17,395,200 MSCF b. Condensate = (640) (36) (8.6) = 198,144 Bbls. III. Economics of 160 Acre and 640 Acre Spacing: 1. Gross sale price of condensate = \$2.53 per barrel 2. Gross sale price of gas = \$0.16 per MCF 160 A 640 A 3. Gross of gas and condensate \$836,000 \$3,344,000 4. Charges against well: \$388,000-\$388,000-Development Cost \$139,200 \$34,800 Operating Cost Direct Taxes \$94,200 \$376,000 \$104,500 \$418,000 x4 Royalty \$1,322,000 \$571,500 Total Costs \$264,500 Undeferred Net Profit \$2,022,000 29 96 Life of Well, Years (-\$50,000) \$90,000 Deferred Net Profit (8%)

Cahibit No.

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE