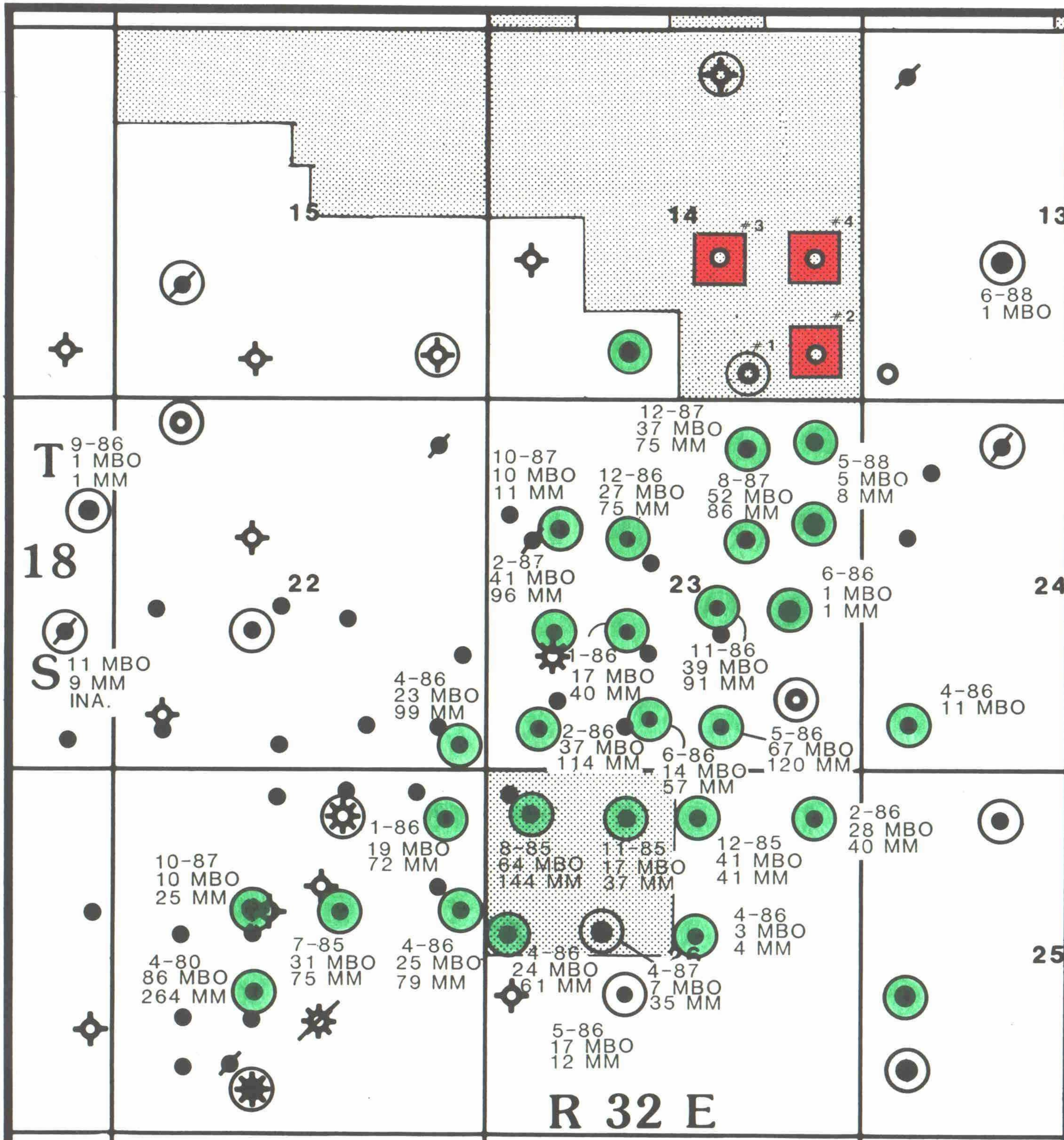

BEFORE EXAMINER STOGNER
OIL CONSERVATION DIVISION
Santa Fe EXHIBIT NO. 4
CASE NO. 9563, 9564 + 9565

LEGEND

SFEOP,LP ACREAGE

SANTA FE ENERGY OPERATING PARTNERS, LP.
PERMIAN BASIN DISTRICT
MIDLAND, TEXAS

LEA SOUTH AREA
SHINNERY (SPRINKLE) PROSPECT
LEA COUNTY, NEW MEXICO

PRODUCTION MAP
CUM TO 7-1-88

Scale: 1":2000' Date: 12-13-88
Geol.: J.Thoma & C.Anderson C.I.:

File: 2-K-12

SANTA FE ENERGY COMPANY
GENERALIZED WELL COST ESTIMATE

NAME: Shinnery 14 Federal No. 2
LOC: 330' FSL & 660' FEL, Section 14-18S-32E Lea County, New Mexico
DESC: Drill and complete a 10,200' Bone Springs Well

ACCOUNT	DESCRIPTION OF COSTS		DRY HOLE	PRODUCER
501-000	TANGIBLE WELL COSTS			
-41	CONDUCTOR CSG	20" @ 40'	3,000	3,000
-41	SURFACE CSG	13-3/8" @ 400'	8,515	8,515
-41	PROTECTION CSG	8-5/8" @ 2850'	32,205	32,205
-41	DRILLING LINER			
-41	PROD CSG	5-1/2" @ 10,200'		98,635
-41	PROD LINER			
-42	TUBING	2-7/8" N-80 @ 10,000'		51,000
-43	WELLHEAD		1,000	12,000
-44	PMPG UNIT			30,000
-45	PRIME MOVER			2,200
-50	OTHER DWN HOLE EQUIP			
-50	RODS			20,800
-50	SUBSURFACE PMPS			1,250
-55	CSG EQUIP		3,090	5,260
-55	ELECTRICAL			10,000
-55	MISC. TANGIBLES			
-55	ROD EQUIP			1,250
-55	TUBING EQUIP			1,300
	TOTAL TANGIBLE COSTS		47,810	277,415
541-000	LEASE FACILITY COSTS			
-50	FLOW LINES			1,000
-50	LABOR			22,500
-50	OTHER PROD EQUIP			10,100
-50	TANK FACILITIES			17,700
	TOTAL LEASE FACILITY COSTS		0	51,300
511-000	INTANGIBLE WELL COSTS			
-21	LOCATION		11,000	11,000
-22	FENCING		1,000	1,000
-26	WTR & FUEL FOR RIG			
-31	CONTRACTOR MOVING EXP		20,000	20,000
-32	CONT FOOTAGE OR TURNKEY			
-32	CONTRACTOR DAY WORK	30 @ $4000/d	120,000	120,000
-33	DRLG FLUID & ADDITIVES		11,000	11,000
-34	BITS & REAMERS		19,700	19,700
-36	CORING & CORE ANALYSES		15,000	15,000
-37	CEMENT		9,300	20,100
-39	INSPECTION & TSTG OF TANG		5,000	5,000
-41	DIRECTIONAL DRLG SURVEYS			
-42	DRILLING EQUIP RENTAL		13,630	13,630
-43	OPEN HOLE LOGGING		11,500	11,500
-44	DRILL STEM TSTG		5,000	5,000
-45	MUD LOGGING		8,400	8,400
-51	TRANSPORTATION		5,000	9,000
-52	COMPLETION UNIT	18 @ $1200/d		21,600
-53	COMPLETION TOOL RENTAL			3,900
-54	CASED HOLE LOGS & PERFING			8,000
-55	STIMULATION			60,000
-56	RIG SITE SUPERVISION		10,500	15,900
-72	ADMINISTRATIVE OVERHEAD		3,520	7,040
-99	FSHG TOOLS & EXPENSES			
-99	TESTING: BHP,GOR,4 PT.POT			4,000
	ABANDONMENT COST			
	OTHER INTANGIBLES			
0	CONTINGENCY (10%)		26,955	39,077
	TOTAL INTANGIBLES		296,505	429,847
	TOTAL COSTS		344,315	758,562

BEFORE EXAMINER STOGNER
OIL CONSERVATION DIVISION
Santa Fe EXHIBIT NO. 3
CASE NO. 9563, 9564 + 9565

Estimated By: Michael R. Burton by [illegible] Date: 11-16-88

SFEC Approved By: Thomas E. [illegible] for [illegible] Date: 11-16-88

Non Operator Approval By: ____________ Date: ____________

Ex 3

SANTA FE ENERGY COMPANY
GENERALIZED WELL COST ESTIMATE

NAME: Shinnery 14 Federal No. 3
LOC: 1980' FSL & 1980' FEL, Section 14-18S-32E Lea County, New Mexico
DESC: Drill and complete a 10,200' Bone Springs Well

ACCOUNT	DESCRIPTION OF COSTS		DRY HOLE	PRODUCER
501-000	TANGIBLE WELL COSTS			
-41	CONDUCTOR CSG	20" @ 40'	3,000	3,000
-41	SURFACE CSG	13-3/8" @ 400'	8,515	8,515
-41	PROTECTION CSG	8-5/8" @ 2850'	32,205	32,205
-41	DRILLING LINER			
-41	PROD CSG	5-1/2" @ 10,200'		98,635
-41	PROD LINER			
-42	TUBING	2-7/8" N-80 @ 10,000'		51,000
-43	WELLHEAD		1,000	12,000
-44	PMPG UNIT			30,000
-45	PRIME MOVER			2,200
-50	OTHER DWN HOLE EQUIP			
-50	RODS			20,800
-50	SUBSURFACE PMPS			1,250
-55	CSG EQUIP		3,090	5,260
-55	ELECTRICAL			10,000
-55	MISC. TANGIBLES			
-55	ROD EQUIP			1,250
-55	TUBING EQUIP			1,300
	TOTAL TANGIBLE COSTS		47,810	277,415
541-000	LEASE FACILITY COSTS			
-50	FLOW LINES			1,000
-50	LABOR			22,500
-50	OTHER PROD EQUIP			10,100
-50	TANK FACILITIES			17,700
	TOTAL LEASE FACILITY COSTS		0	51,300
511-000	INTANGIBLE WELL COSTS			
-21	LOCATION		11,000	11,000
-22	FENCING		1,000	1,000
-26	WTR & FUEL FOR RIG			
-31	CONTRACTOR MOVING EXP		20,000	20,000
-32	CONT FOOTAGE OR TURNKEY			
-32	CONTRACTOR DAY WORK	30 @ $4000/d	120,000	120,000
-33	DRLG FLUID & ADDITIVES		11,000	11,000
-34	BITS & REAMERS		19,700	19,700
-36	CORING & CORE ANALYSES		15,000	15,000
-37	CEMENT		9,300	20,100
-39	INSPECTION & TSTG OF TANG		5,000	5,000
-41	DIRECTIONAL DRLG SURVEYS			
-42	DRILLING EQUIP RENTAL		13,630	13,630
-43	OPEN HOLE LOGGING		11,500	11,500
-44	DRILL STEM TSTG		5,000	5,000
-45	MUD LOGGING		8,400	8,400
-51	TRANSPORTATION		5,000	9,000
-52	COMPLETION UNIT	18 @ $1200/d		21,600
-53	COMPLETION TOOL RENTAL			3,900
-54	CASED HOLE LOGS & PERFING			8,000
-55	STIMULATION			60,000
-56	RIG SITE SUPERVISION		10,500	15,900
-72	ADMINISTRATIVE OVERHEAD		3,520	7,040
-99	FSHG TOOLS & EXPENSES			
-99	TESTING: BHP,COR,4 PT.POT			4,000
	ABANDONMENT COST			
	OTHER INTANGIBLES			
0	CONTINGENCY (10%)		26,955	39,077
	TOTAL INTANGIBLES		296,505	429,847
	TOTAL COSTS		344,315	758,562

Estimated By: Michael R. Benton for J.M.J. Date: 11-16-88

SFEC Approved By: Thomas L. Gentry for H.J.B. Date: 11-16-88

Non Operator Approval By: ______ Date: ______

Ex 3

17-Nov-88

SANTA FE ENERGY COMPANY
GENERALIZED WELL COST ESTIMATE

NAME: Shinnery 14 Federal No. 4
LOC: 1980' FSL & 660' FEL, Section 14-18S-32E Lea County, New Mexico
DESC: Drill and complete a 10,200' Bone Springs Well

ACCOUNT	DESCRIPTION OF COSTS		DRY HOLE	PRODUCER
501-000	TANGIBLE WELL COSTS			
-41	CONDUCTOR CSG	20" @ 40'	3,000	3,000
-41	SURFACE CSG	13-3/8" @ 400'	8,515	8,515
-41	PROTECTION CSG	8-5/8" @ 2850'	32,205	32,205
-41	DRILLING LINER			
-41	PROD CSG	5-1/2" @ 10,200'		98,635
-41	PROD LINER			
-42	TUBING	2-7/8" N-80 @ 10,000'		51,000
-43	WELLHEAD		1,000	12,000
-44	PMPG UNIT			30,000
-45	PRIME MOVER			2,200
-50	OTHER DWN HOLE EQUIP			
-50	RODS			20,800
-50	SUBSURFACE PMPS			1,250
-55	CSG EQUIP		3,090	5,260
-55	ELECTRICAL			10,000
-55	MISC. TANGIBLES			
-55	ROD EQUIP			1,250
-55	TUBING EQUIP			1,300
	TOTAL TANGIBLE COSTS		47,810	277,415
541-000	LEASE FACILITY COSTS			
-50	FLOW LINES			1,000
-50	LABOR			22,500
-50	OTHER PROD EQUIP			10,100
-50	TANK FACILITIES			17,700
	TOTAL LEASE FACILITY COSTS		0	51,300
511-000	INTANGIBLE WELL COSTS			
-21	LOCATION		11,000	11,000
-22	FENCING		1,000	1,000
-26	WTR & FUEL FOR RIG			
-31	CONTRACTOR MOVING EXP		20,000	20,000
-32	CONT FOOTAGE OR TURNKEY			
-32	CONTRACTOR DAY WORK	30 @ $4000/d	120,000	120,000
-33	DRLG FLUID & ADDITIVES		11,000	11,000
-34	BITS & REAMERS		19,700	19,700
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-37	CEMENT		9,300	20,100
-39	INSPECTION & TSTG OF TANG		5,000	5,000
-41	DIRECTIONAL DRLG SURVEYS			
-42	DRILLING EQUIP RENTAL		13,630	13,630
-43	OPEN HOLE LOGGING		11,500	11,500
-44	DRILL STEM TSTG		5,000	5,000
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-51	TRANSPORTATION		5,000	9,000
-52	COMPLETION UNIT	18 @ $1200/d		21,600
-53	COMPLETION TOOL RENTAL			3,900
-54	CASED HOLE LOGS & PERFING			8,000
-55	STIMULATION			60,000
-56	RIG SITE SUPERVISION		10,500	15,900
-72	ADMINISTRATIVE OVERHEAD		3,520	7,040
-99	FSHC TOOLS & EXPENSES			
-99	TESTING: BHP,GOR,4 PT.POT			4,000
	ABANDONMENT COST			
	OTHER INTANGIBLES			
0	CONTINGENCY (10%)		26,955	39,077
	TOTAL INTANGIBLES		296,505	429,847
	TOTAL COSTS		344,315	758,562

Ex 3

Estimated By: Michael R. Burton Date: 11/17/88

SFEC Approved By: ______________________ Date: __________

Non Operator Approval By: ______________________ Date: __________

BEFORE EXAMINER STOGNER

OIL CONSERVATION DIVISION

Santa Fe EXHIBIT NO. 3

CASE NO. 9563, 9564 + 9565