

SOUTH SHOE BAR UPPER PENNSYLVANIAN POOL

COMPOSITE PRODUCTION PERFORMANCE

MEPUS

Midland Division

Field Lease Operator Location Current Date

SOUTH SHOE BAR S SHOE BAR PENN MEPUS LEA

County State

NH

04-07-89

OIL, WATER, GOR & WELL CT VS TIME

10000
9
8
7
6
5
4

1000
900
800
700
600
500
400
300
200
100

(BBL/DAY)
(BBL/DAY)

1000
9
8
7
6
5
4
3
2
1

(CF/BBL)

100
9
8
7
6
5
4
3
2
1

WELL COUNT
OIL PRODUCTION
WATER PRODUCTION

COMPLETE AMOCO ST 1
COMPLETE LOVINGTON DEEP ST 2
COMPLETE LOVINGTON DEEP ST 3
COMPLETE KRITI ST 31 + 1

(TIME)

19_87	19_88	19_89	19_90	19_91	19_92	19_93	19_94	19_95	19_96	19_97	19_98	19_99	19_00	19_01	19_02	19_03	19_04	19_05	19_06
Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar	Mar
Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun	Jun
Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept	Sept
Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec	Dec

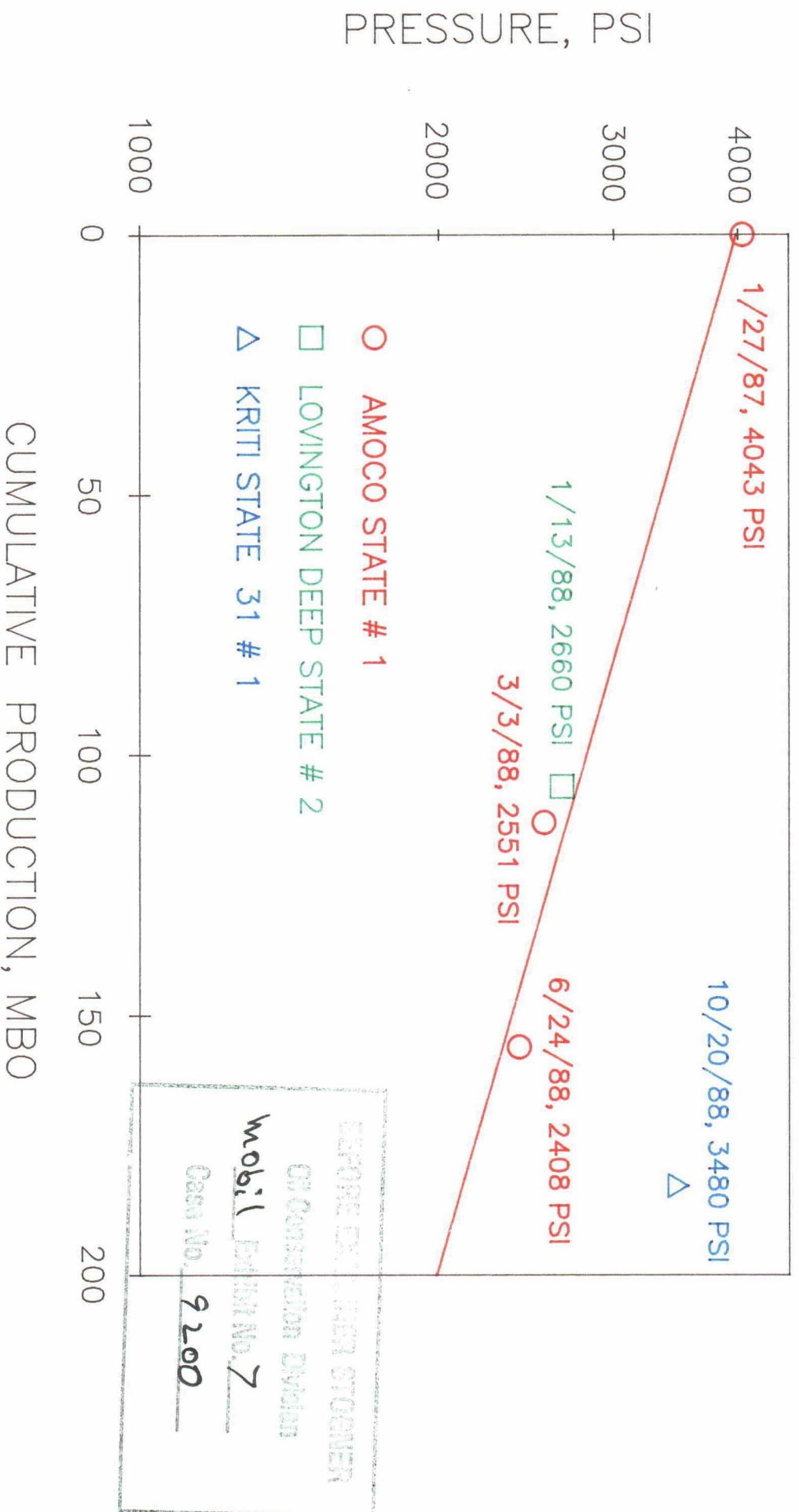
NO. 6
Case No. 9202

GOR

SOUTH SHOE BAR/UPPER PENNSYLVANIAN

MONTHLY PRODUCTION DATA							*-----*	
Year	Month	OIL (bbls)	GAS (mcf)	WATER (bbls)	GOR (cf/bbl)	WTR CUT (pct)	Num of Wells	
87	Jan	4,027	0	0	0	0	1	
87	Feb	9,082	11,812	0	1,301	0	1	
87	Mar	10,076	14,688	0	1,458	0	1	
87	Apr	10,899	14,928	0	1,370	0	1	
87	May	9,220	15,380	0	1,668	0	1	
87	Jun	7,536	11,716	0	1,555	0	1	
87	Jul	5,541	9,368	0	1,691	0	1	
87	Aug	7,239	11,925	0	1,647	0	1	
87	Sep	6,123	9,801	0	1,601	0	1	
87	Oct	6,144	9,646	0	1,570	0	1	
87	Nov	6,983	10,753	0	1,540	0	2	
87	Dec	13,781	20,887	0	1,516	0	2	
TOTAL		96,651	140,904	0	1,458	0	2	
88	Jan	9,380	12,938	0	1,379	0	2	
88	Feb	6,888	8,084	264	1,174	4	2	
88	Mar	10,959	14,772	311	1,348	3	2	
88	Apr	12,484	16,847	66	1,349	1	3	
88	May	12,671	21,962	1,062	1,733	8	3	
88	Jun	6,990	13,161	966	1,883	12	3	
88	Jul	7,222	14,226	738	1,970	9	3	
88	Aug	6,519	12,795	570	1,963	8	3	
88	Sep	5,957	13,879	1,174	2,330	16	3	
88	Oct	7,120	10,431	696	1,465	9	3	
88	Nov	8,857	17,138	1,305	1,935	13	4	
88	Dec	7,938	16,620	1,669	2,094	17	4	
TOTAL		102,985	172,853	8,821	1,678	8	4	
89	Jan	6,521	11,566	1,446	1,774	18	4	
89	Feb	5,659	9,085	1,455	1,605	20	4	
TOTAL		12,180	20,651	2,901	1,695	19	4	
CUMULATIVE		211,816	334,408	11,722				

SOUTH SHOE BAR / UPPER PENNSYLVANIAN RESERVOIR PRESSURE VS. CUMULATIVE PRODUCTION



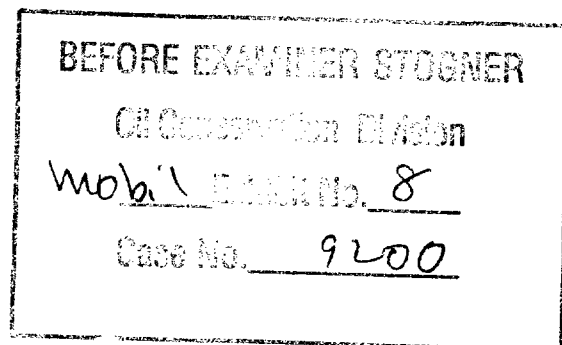
SOUTH SHOE BAR UPPER PENNSYLVANIAN POOL
LEA COUNTY, NEW MEXICO

RESERVOIR PARAMETERS

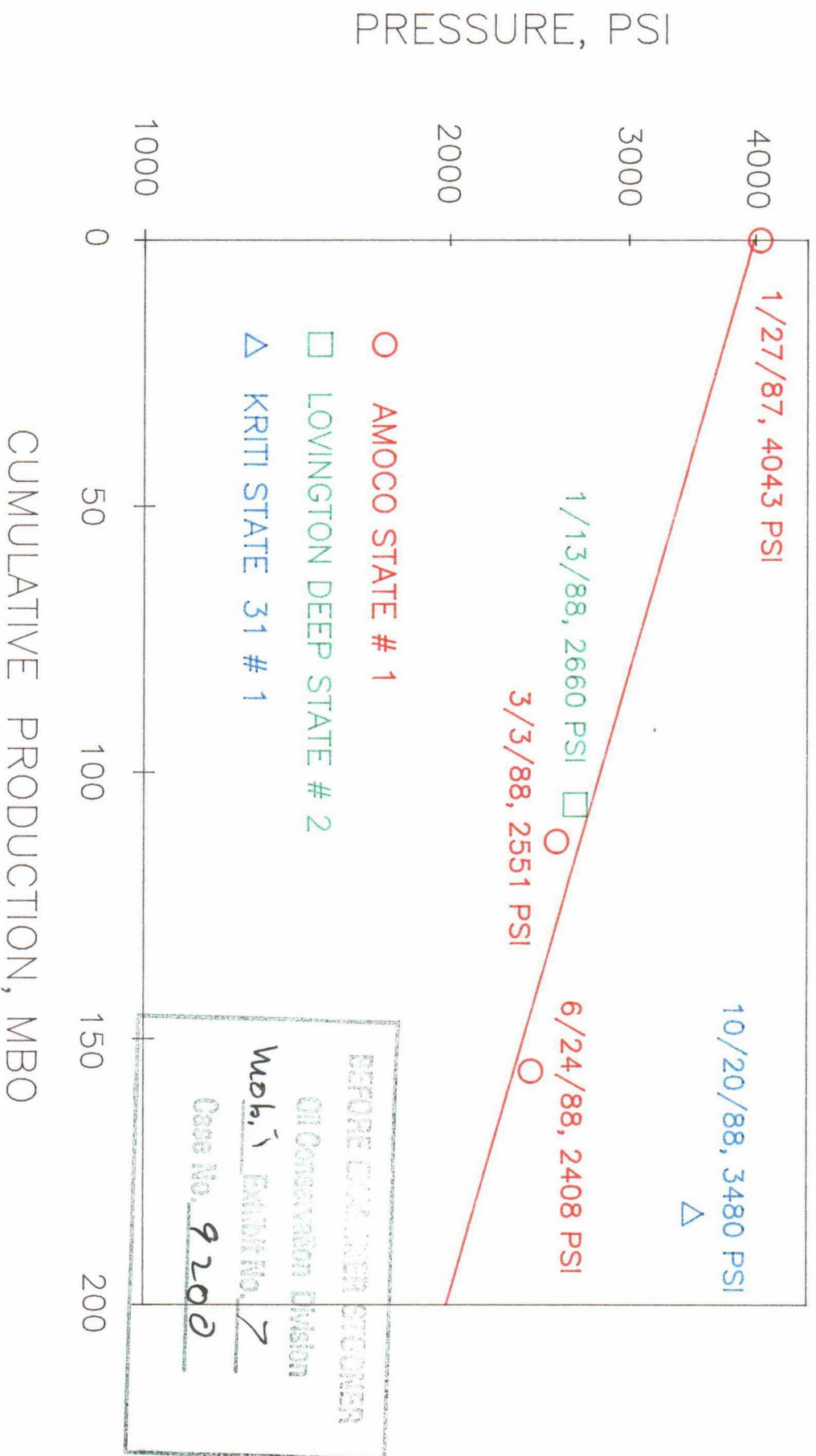
Average Depth, Feet	10,750
Lithology	Limestone
Reservoir Drive Mechanism	Solution Gas Drive
Average Net Pay, Feet	37
Average Porosity, Percent	7
Initial Water Saturation, Percent	35
Permeability to Oil, md	2.1
Original Reservoir Pressure, psi	4,043
Bubble Point Pressure, psi	3,234
Current Reservoir Pressure, psi	2,408
Reservoir Temperature, Deg F.	171
Oil Gravity, Deg API	43
Oil Viscosity, cp	0.269
Original Oil Formation Factor	1.827 <i>2.15 for</i>
Solution GOR at Bubble Point Pressure, CF/Bbl	1,360

RECOVERY ESTIMATES

Original Oil in Place, STB/Acre	7,176
Average Ultimate Recovery/Well, Bbls (From Decline Curve Analysis)	115,000
Volumetric Drainage per Well, Acres (Assuming Average Primary Recovery Factor of 18% for Solution Gas Drive Reservoirs)	89



SOUTH SHOE BAR / UPPER PENNSYLVANIAN RESERVOIR PRESSURE VS. CUMULATIVE PRODUCTION



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Bubble Point Pressure, psi	3,234
Current Reservoir Pressure, psi	2,408
Reservoir Temperature, Deg F.	171
Oil Gravity, Deg API	43
Oil Viscosity, cp	0.269
Original Oil Formation Factor	1.82
Solution GOR at Bubble Point Pressure, CF/Bbl	1,360

RECOVERY ESTIMATES

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