

Magnetoelectric Survey Histories

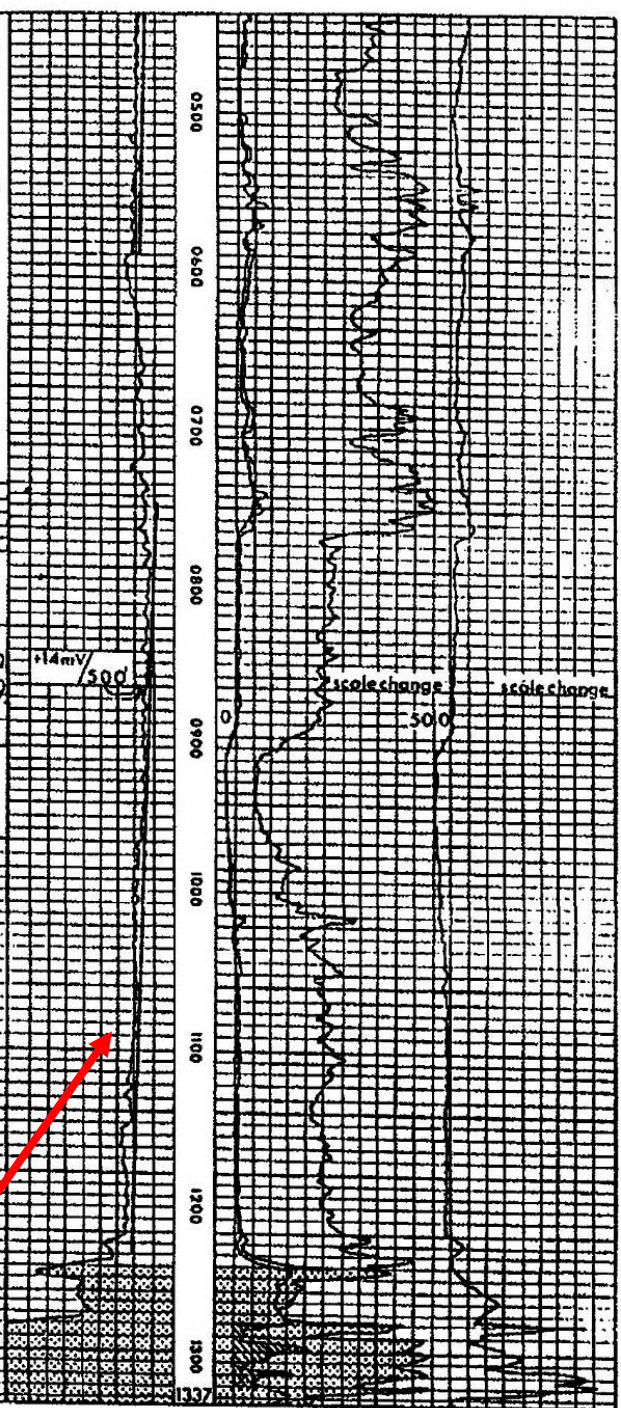
Varied Objectives

Oil and Gas Gradients
Indicated on Self Potential (SP) Baseline

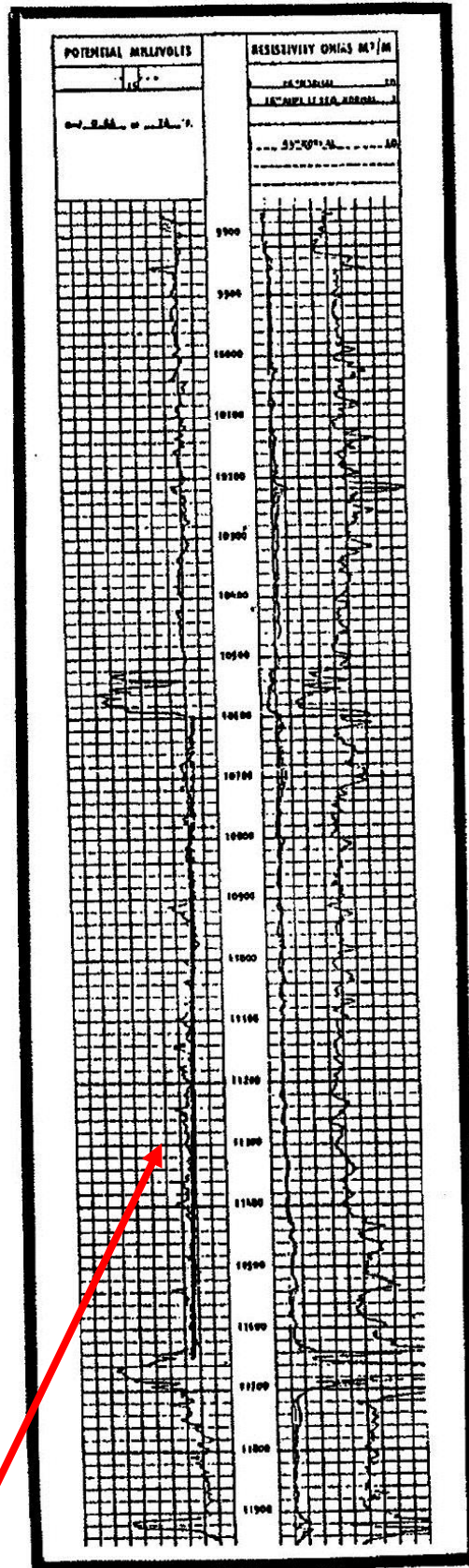
Gradient Drifts on Older Electric Logs

Oil Gradient drifts to right

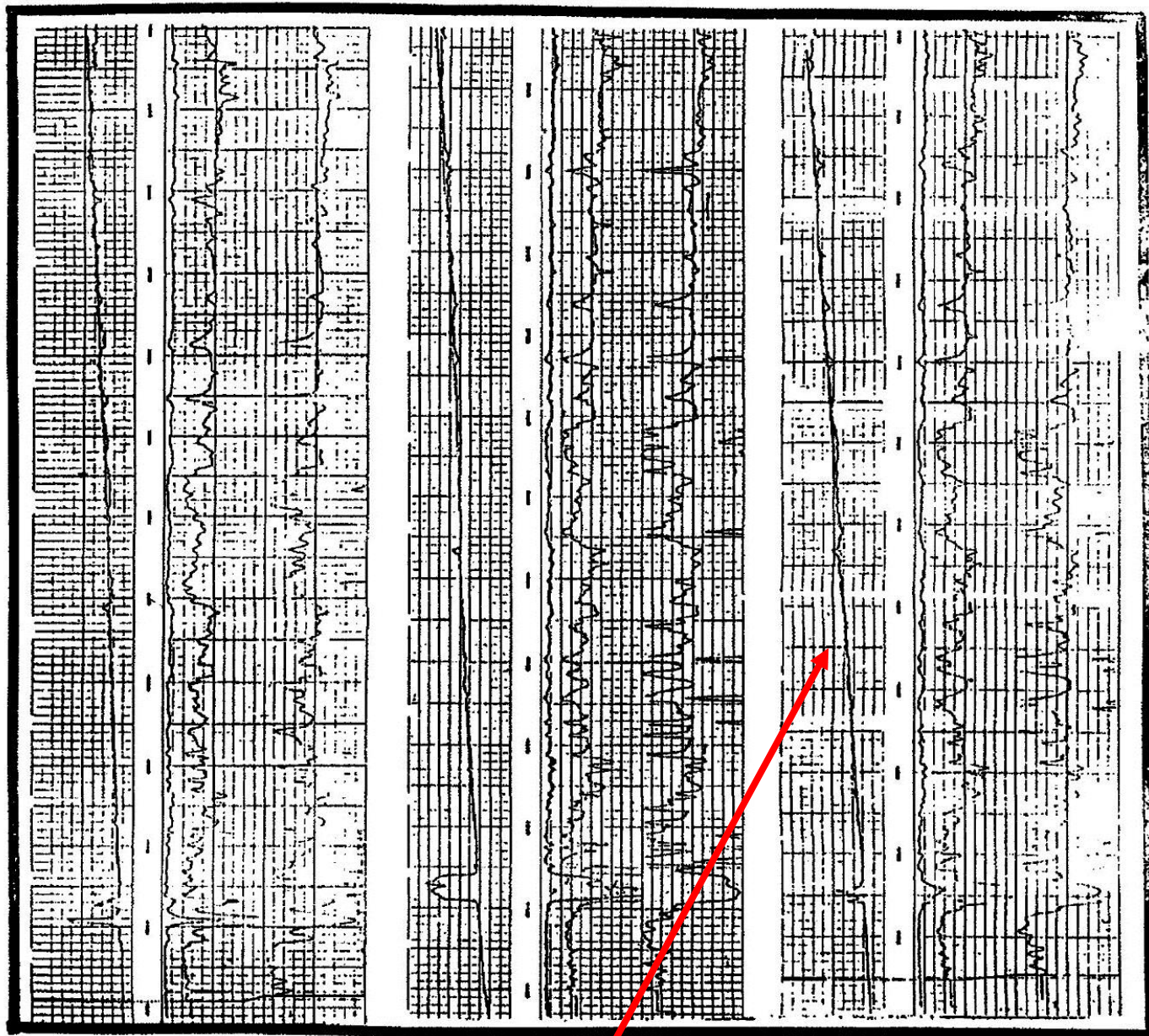
Water Gradient drifts to left



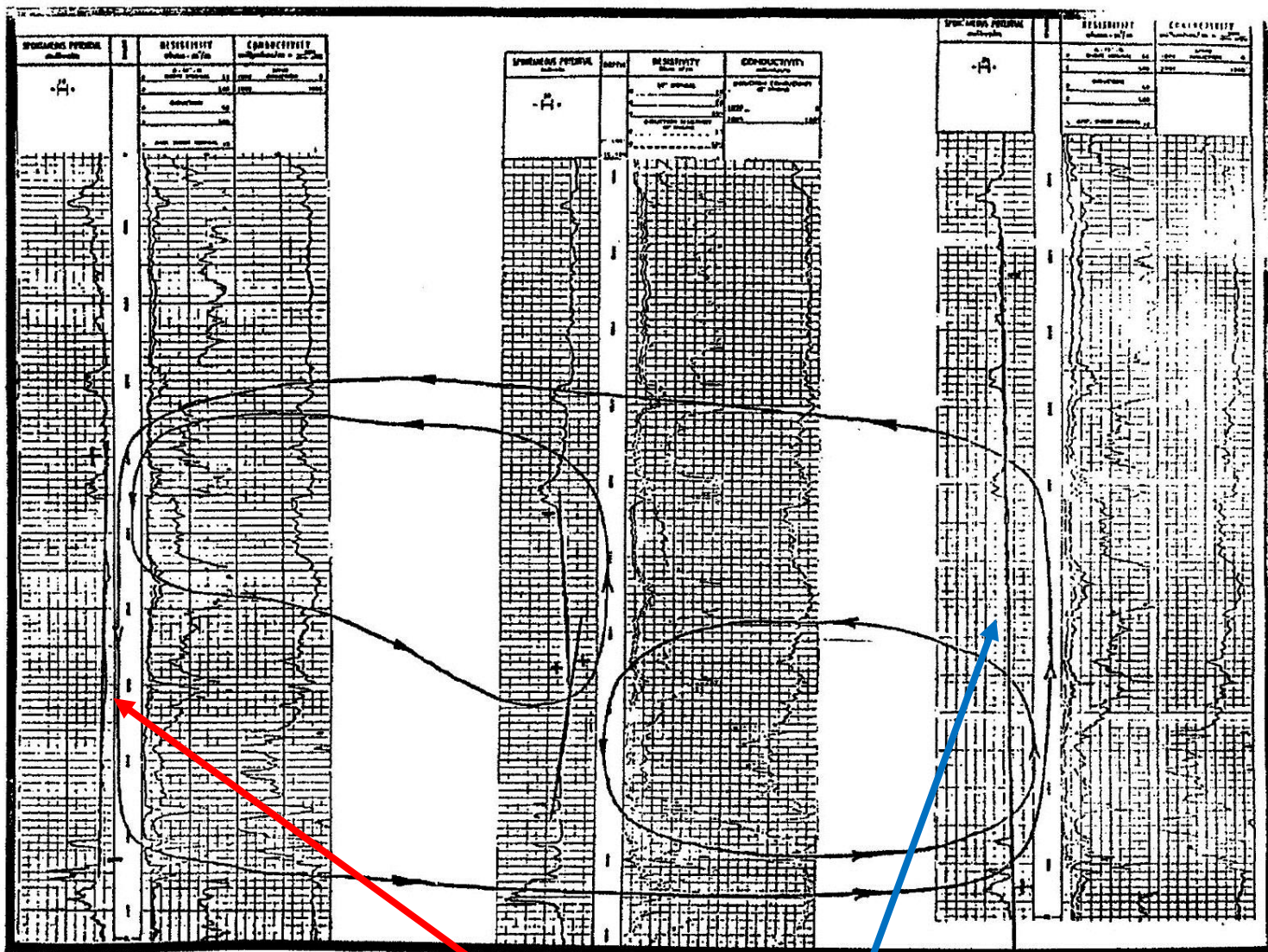
This electric log is from a well in the Larremore field, Caldwell County, Texas. It exhibits a drift to the positive or oil gradient. The well produces oil from the Edwards limestone at 1,250 ft.



This log in St. Mary's Parish, Louisiana, produces oil at 11,630-11,700 ft. and shows an oil gradient up to 10,600 ft.



This group of three logs from Montana (Bell Creek field area) exhibit strong drifts in the SP curve shale-base-line toward the negative or water gradient. The sands at 4,400 ft. to 4,500 ft. are all water-bearing and nonproductive of hydrocarbons.

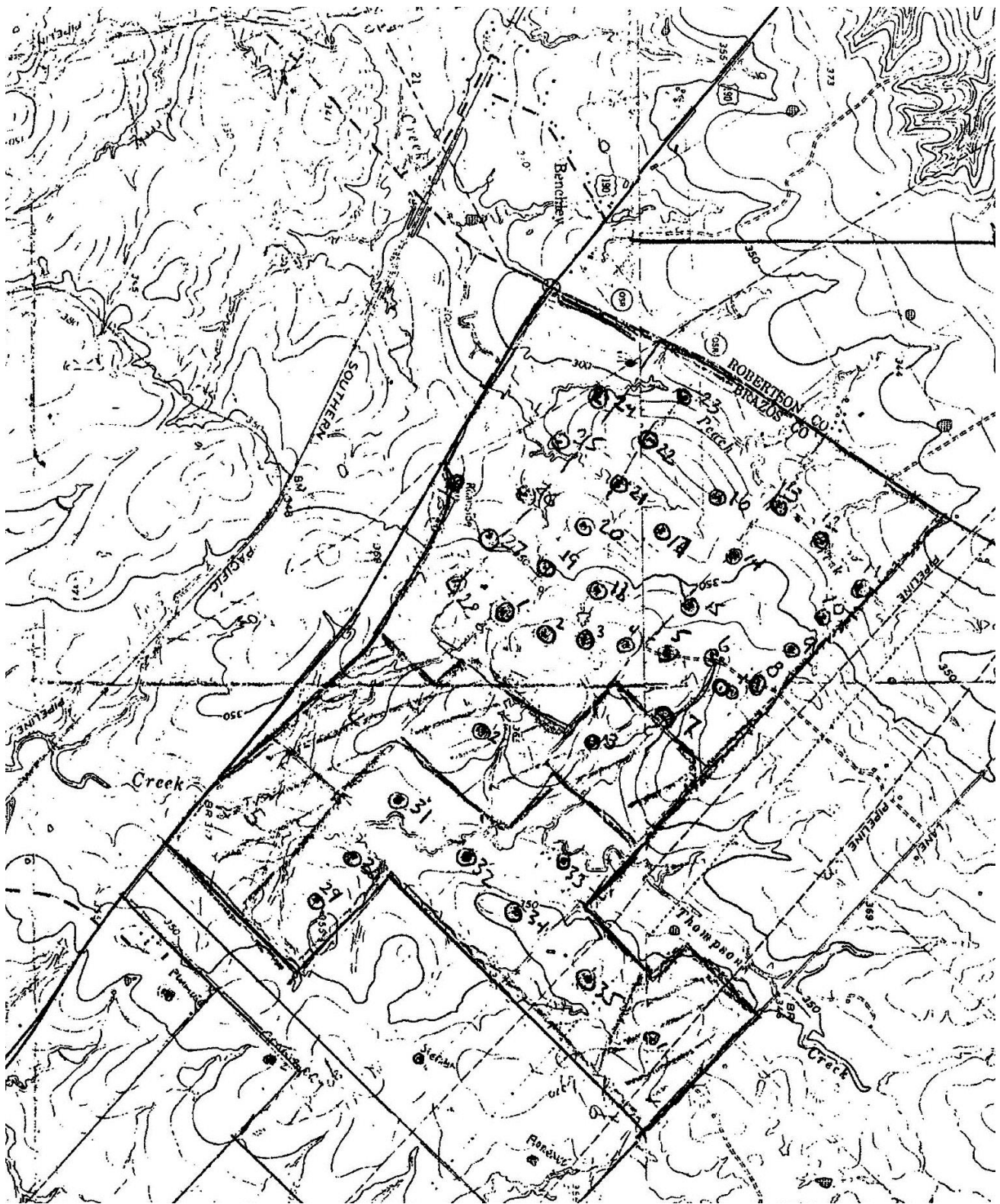


This group of three logs is from the Denver Julesburg basin in the vicinity of the Latigo field, Arapahoe County, Colorado. The well to the left is producing from the J sand and shows a well defined **oil gradient**. The well to the right is water-bearing in the J sand and shows a well defined **water gradient**. The center well exhibits a gradient which has been interpreted as a major and minor fuel cell distribution, but could possibly be the product of rectification.

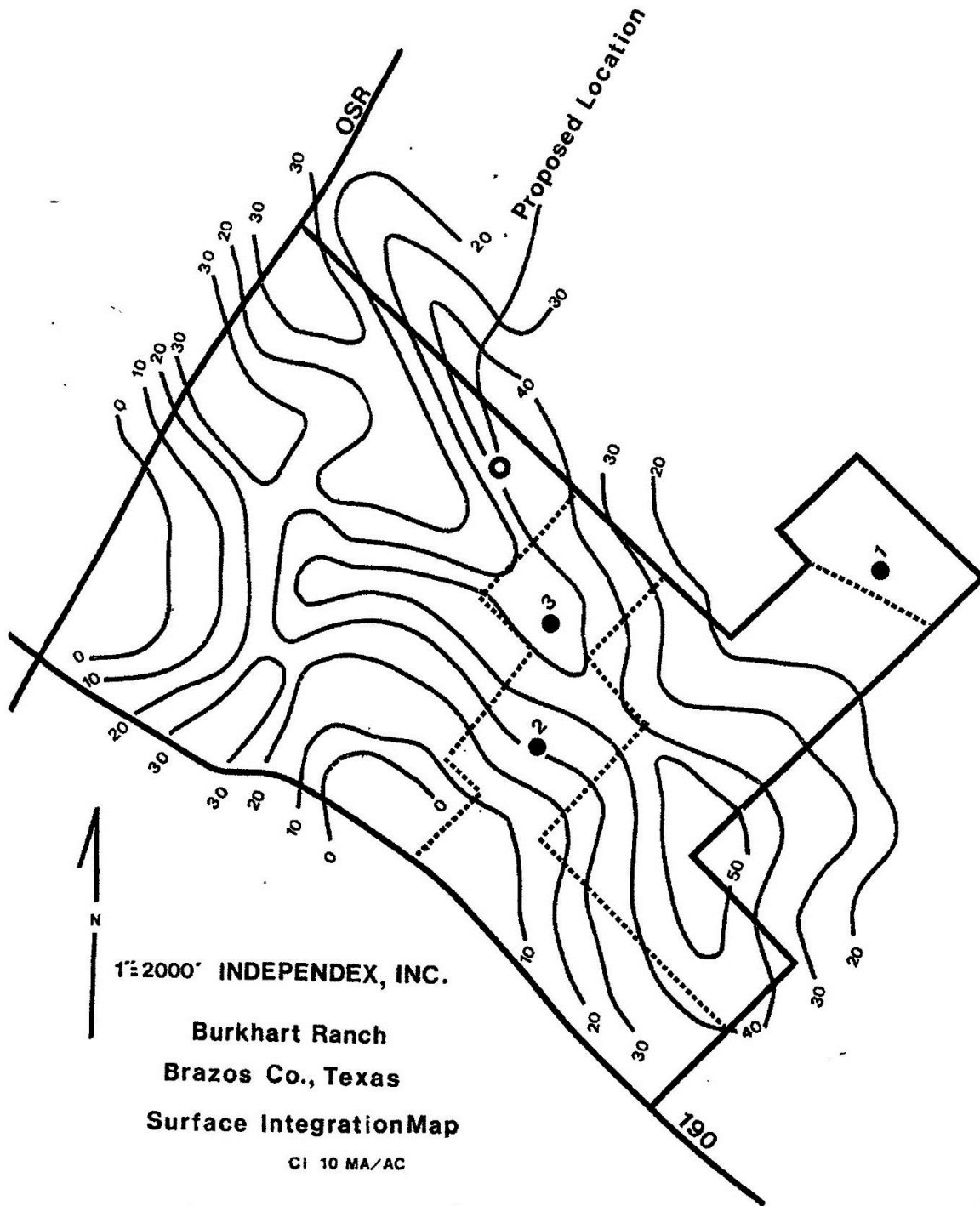
Magnetoelectric (ME) Histories

Varied Depositional Objectives

Fractured Reservoir



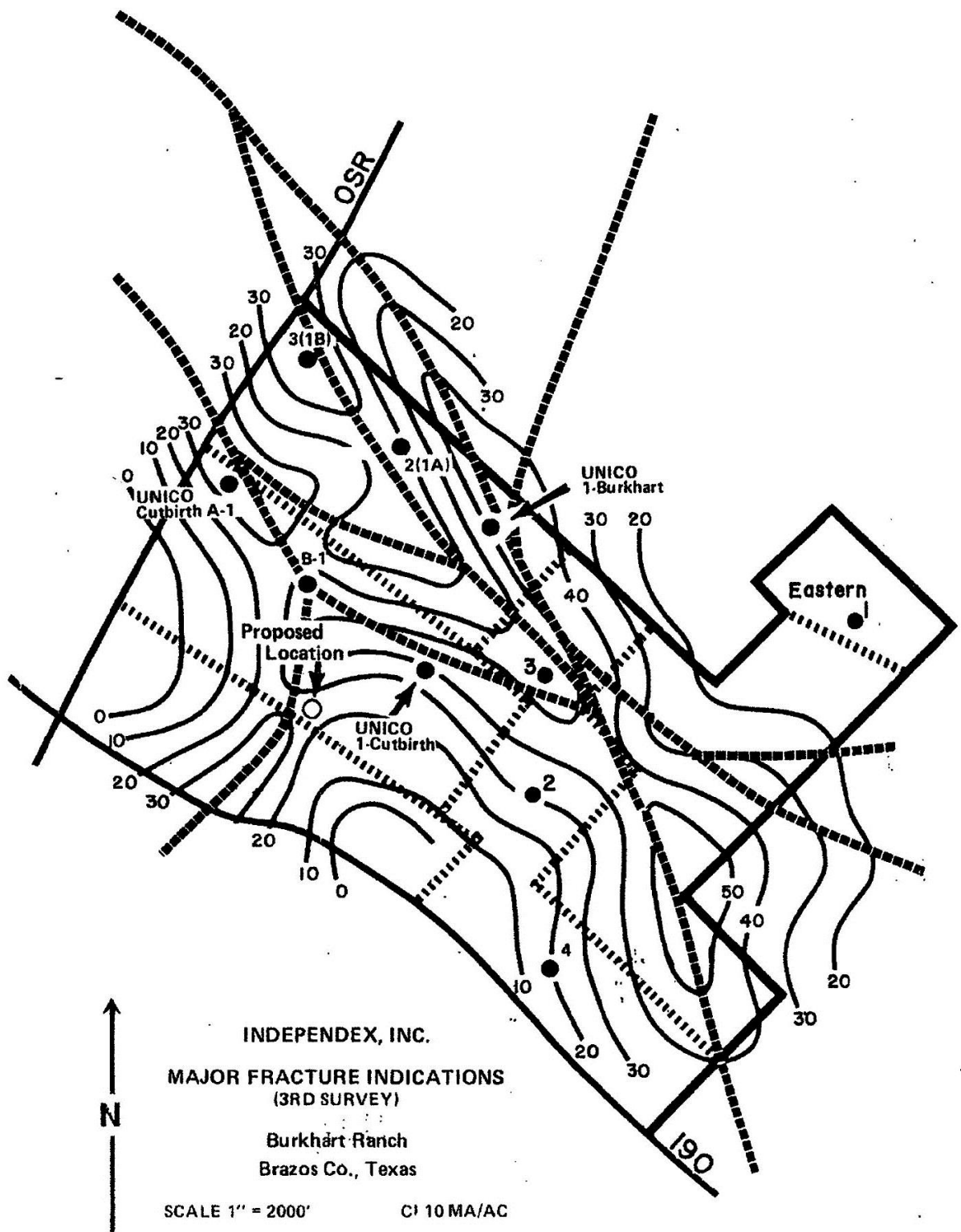
Ground Magnetic Station Layout
Brazos Co., Texas

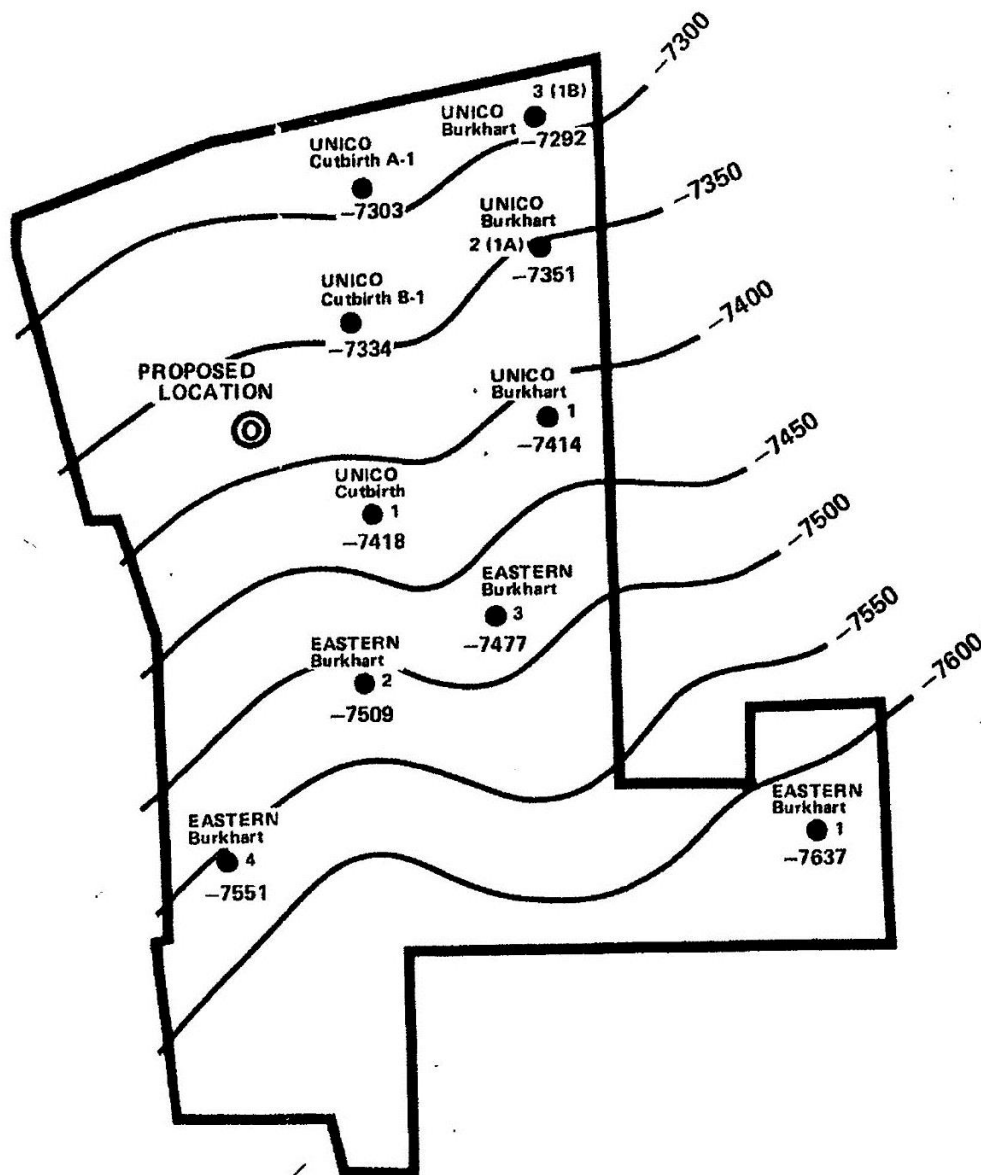


1"=2000' INDEPENDX, INC.

Burkhart Ranch
Brazos Co., Texas
Surface Integration Map

CI 10 MA/AC





SCALE 1" = 2000'

UNICO OIL & GAS, INC.

Burkhart Ranch
Brazos Co., Texas

STRUCTURE TOP (FALSE) BUDA

KURTEN (BUDA) FIELD
BUDA / GEORGETOWN FORMATIONS

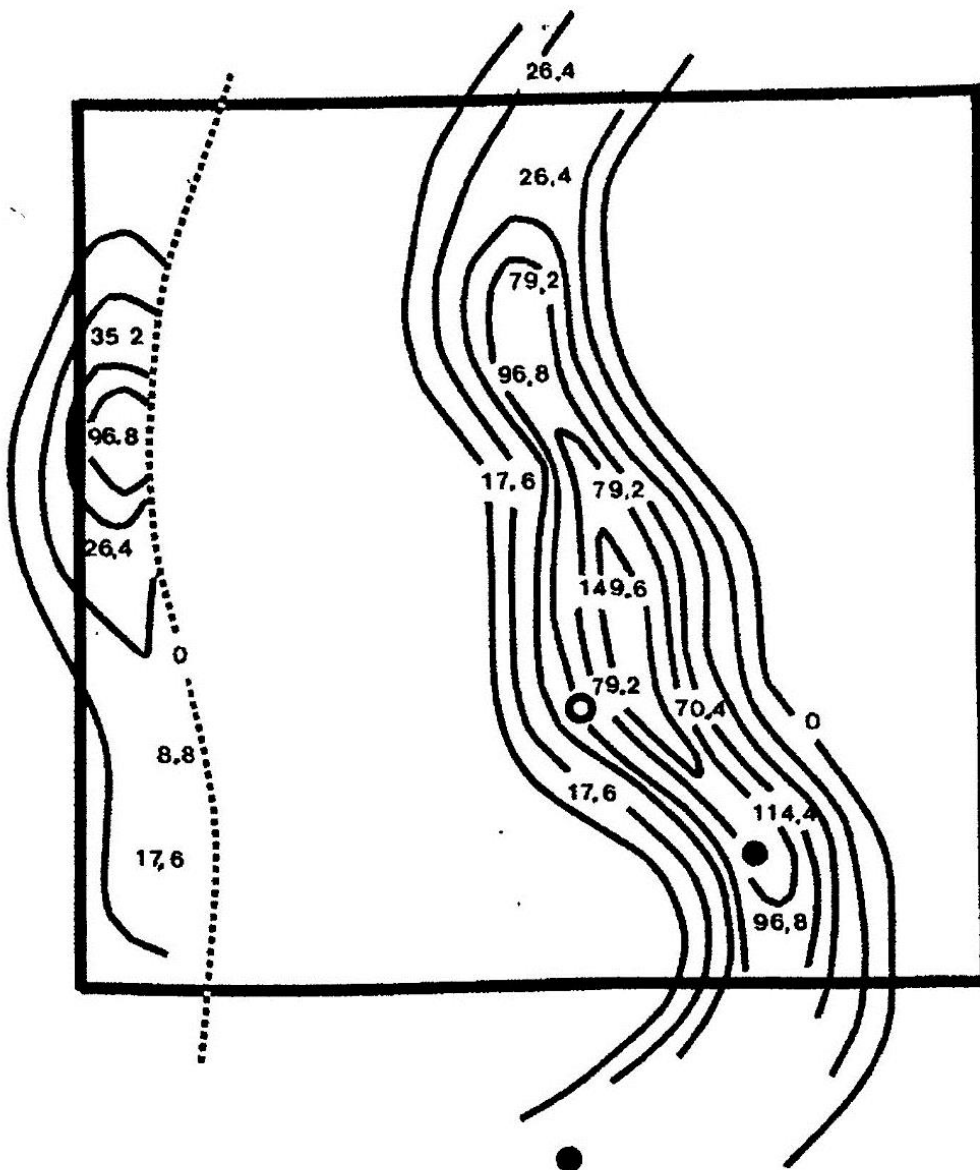
UNICO OIL & GAS, INC.
BURKHART RANCH PROJECT
BUDA/GEORGETOWN FORMATION
KURTEN (BUDA) FIELD
BRAZOS CO., TEXAS

AMTEX PETROLEUM, INC.
BARRELS OIL PER MONTH
RAILROAD COMMISSION OF TEXAS PRODUCTION DATA
PROJECT TOTAL PRODUCTION: 305198

CUM. PROD 96341 30667 45157 24224 41941 42825 24043

MONTH	BURKHART 1	BURKHART A1	BURKHART B1	CUTBIRTH 1	CUTBIRTH A1	CUTBIRTH B1	CUTBIRTH C1
OCT87	3805						
NOV	5603			773			
DEC	5724			2083			
JAN88	6329	585		1988			
FEB	5643	3501		1168			
MAR	6436	4034		1251			
APR	5625	2226	244	1067			
MAY	8051	1705	3794	717			
JUN	5447	1924	5933	259	3120		
JUL	4589	933	3567	659	3705	72	
AUG	4166	742	2673	1055	3622	3893	
SEP	2695	661	2644	646	2474	3928	
OCT	1183	561	1799	1953	2103	3494	
NOV	2456	518	1470	1757	1740	2578	5280
DEC	1607	448	1261	1285	1534	2279	2980
JAN89	1358	417	1094	841	1303	1990	825
FEB	1322	344	1012	748	966	1594	1723
MAR	1246	327	942	513	32	1707	1779
APR	1042	1238	880	364	1369	1620	1118
MAY	1085	1276	772	306	1255	1418	836
JUN	907	1073	724	196	1002	1355	655
JUL	904	762	622	209	857	1360	578
AUG	854	651	585	215	403	1247	583
SEP	754	553	609	233	884	1100	485
OCT	446	562	570	122	979	557	120
NOV	338	200	62	131	286	335	289
DEC	0	0	320	254	772	67	0
JAN90	34	0	833	49	707	0	578
FEB	0	0	244	0	453	0	231
MAR	0	0	0	40	144	0	0
APR	228	0	0	0	1023	402	153
MAY	1638	0	0	315	654	846	531
JUN	1331	788	0	244	626	933	527
JUL	649	678	562	376	669	795	182
AUG	662	307	1559	97	488	519	186
SEP	509	251	1345	73	383	471	217
OCT	185	182	1121	73	542	301	91
NOV	498	402	469	118	106	260	65
DEC	209	164	124	121	593	38	15
JAN91	28	232	210	106	527	21	10
FEB	13	252	791	89	92	64	65
MAR	82	178	957	17	713	24	339
APR	383	228	330	145	213	244	853
MAY	1650	215	688	46	482	346	187
JUN	261	177	573	0	341	16	87
JUL	451	238	473	74	399	337	18
AUG	438	251	386	231	429	380	317
SEP	536	45	416	148	375	714	66
OCT	646	175	357	98	627	741	0

Channel Sand Reservoir



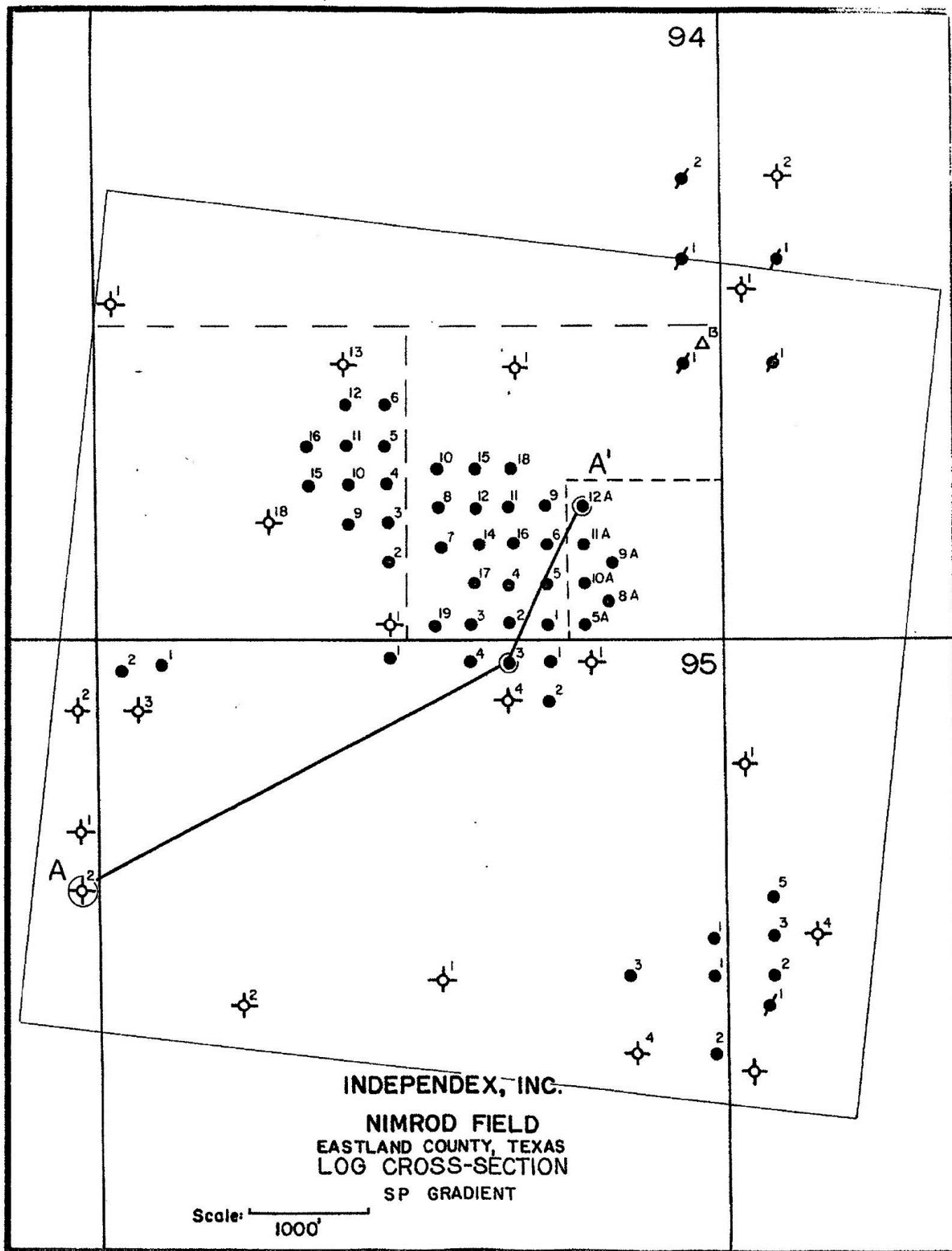
1"=600'

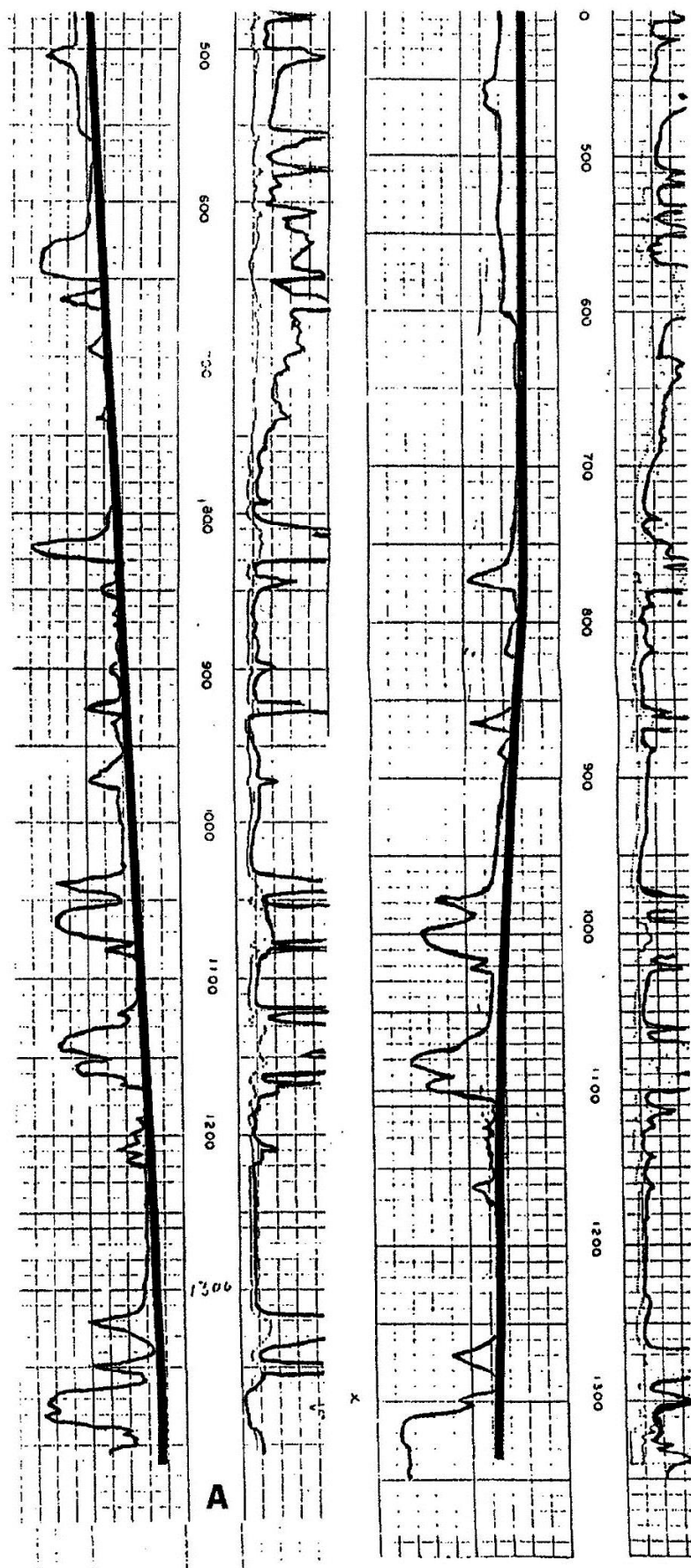
Burke Project
SW 1/4 31 T18N R9E
Creek Co., OK
Surface Integration

CI: 25 ma/ac

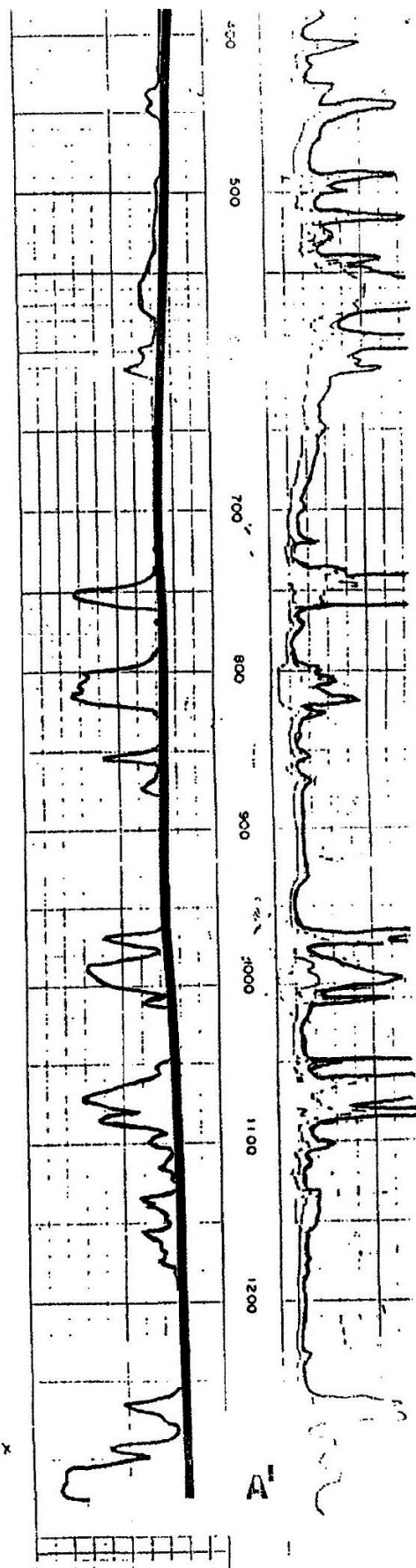
Producing Field
Nimrod Field
Eastland Co., Texas

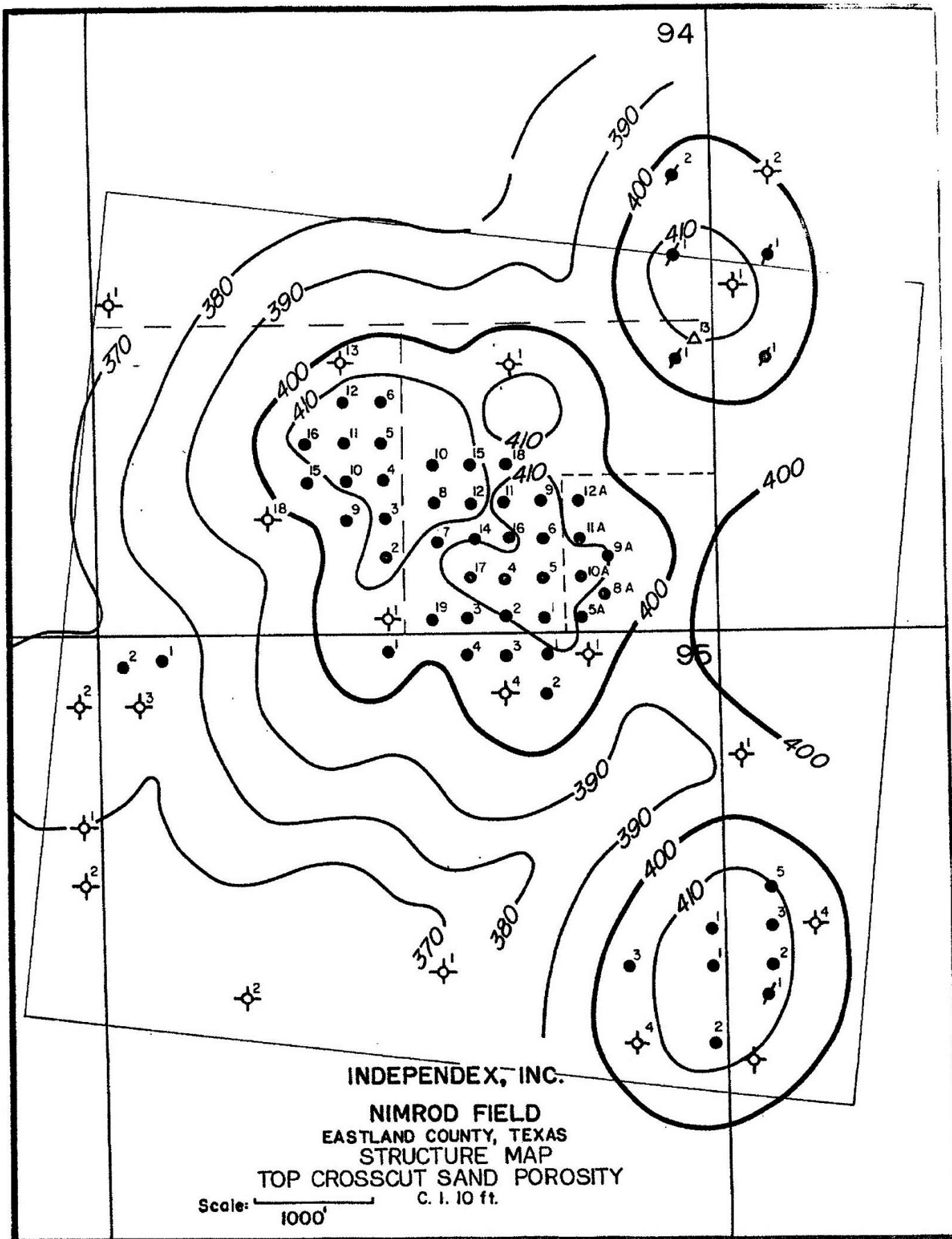
Crosscut Sand

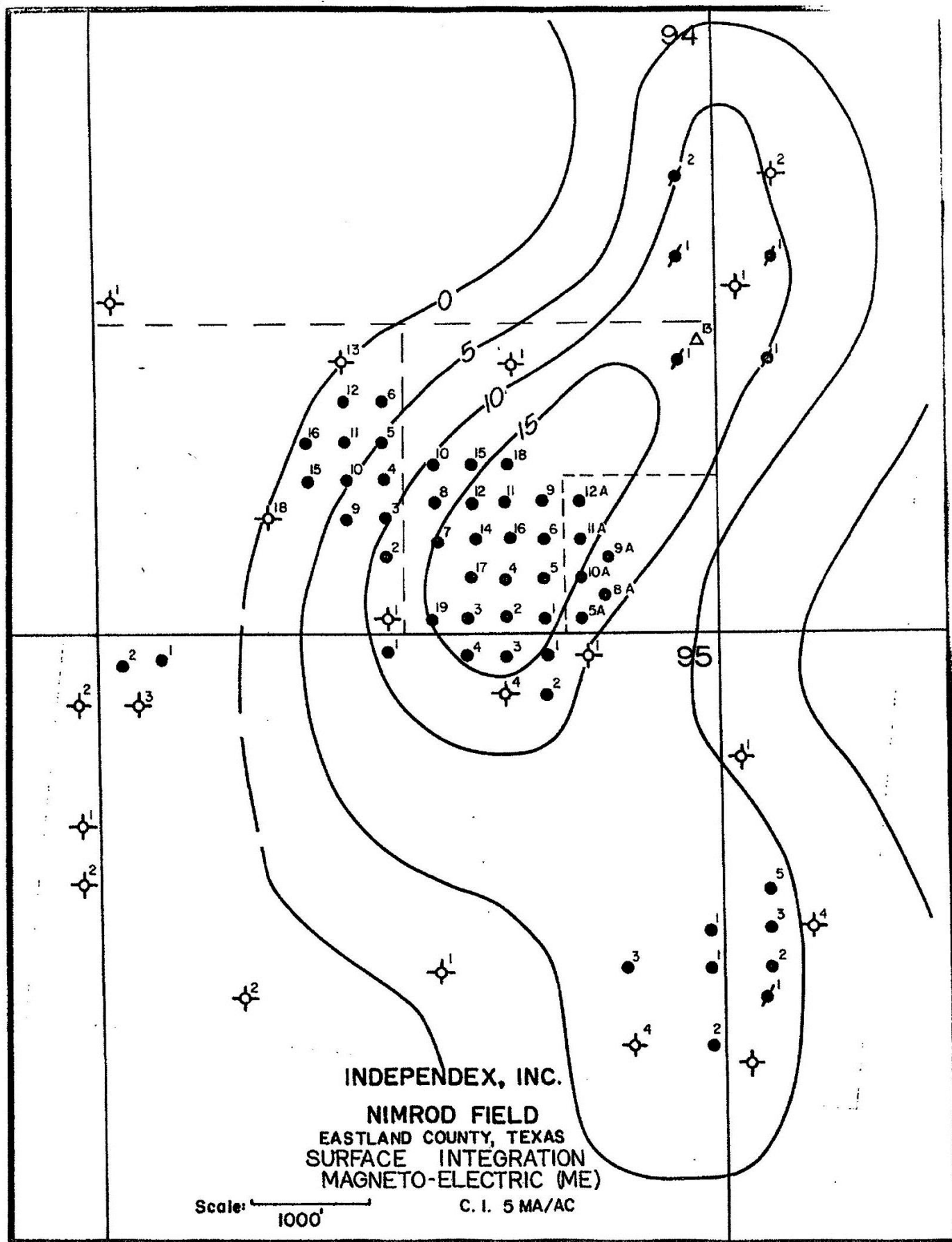


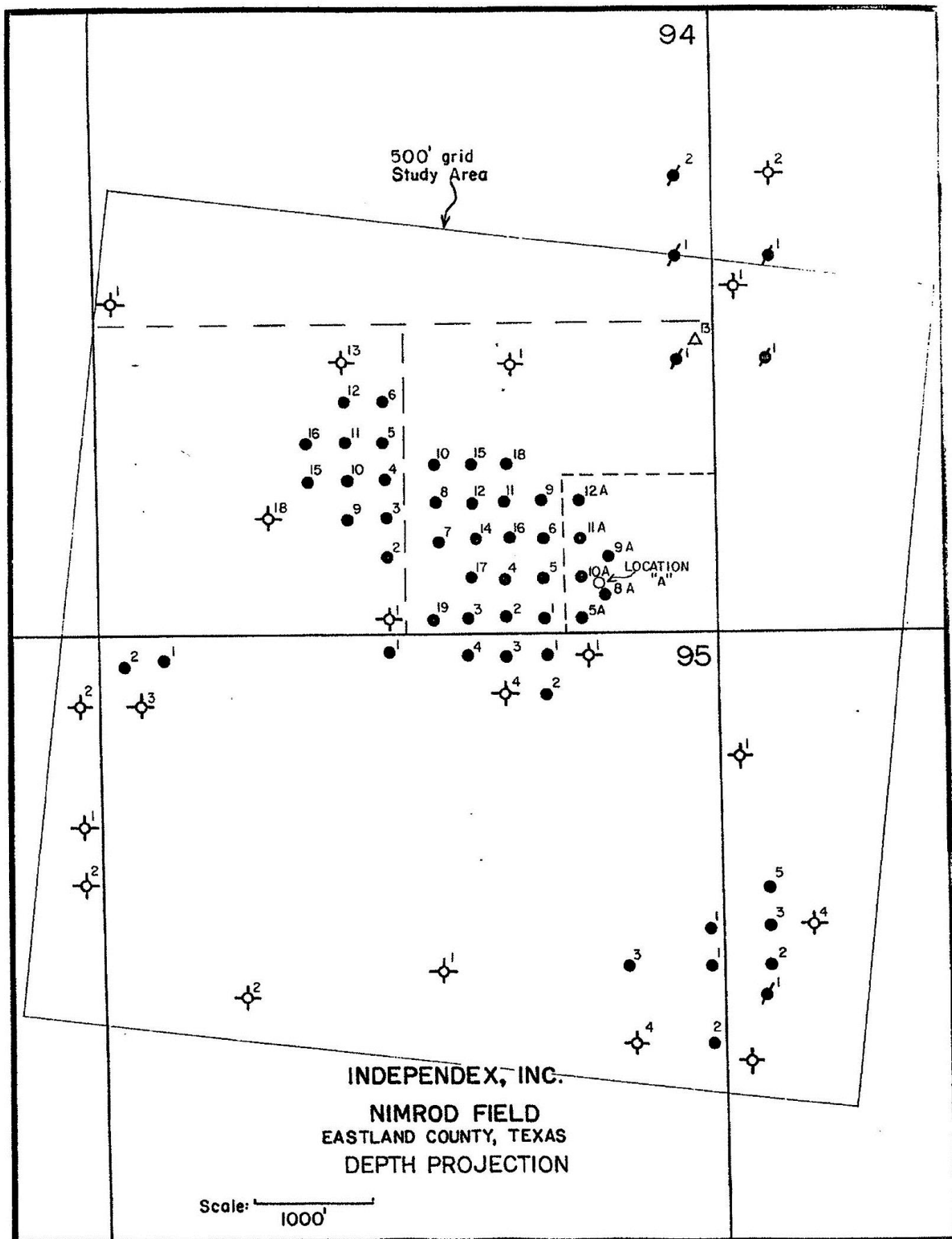


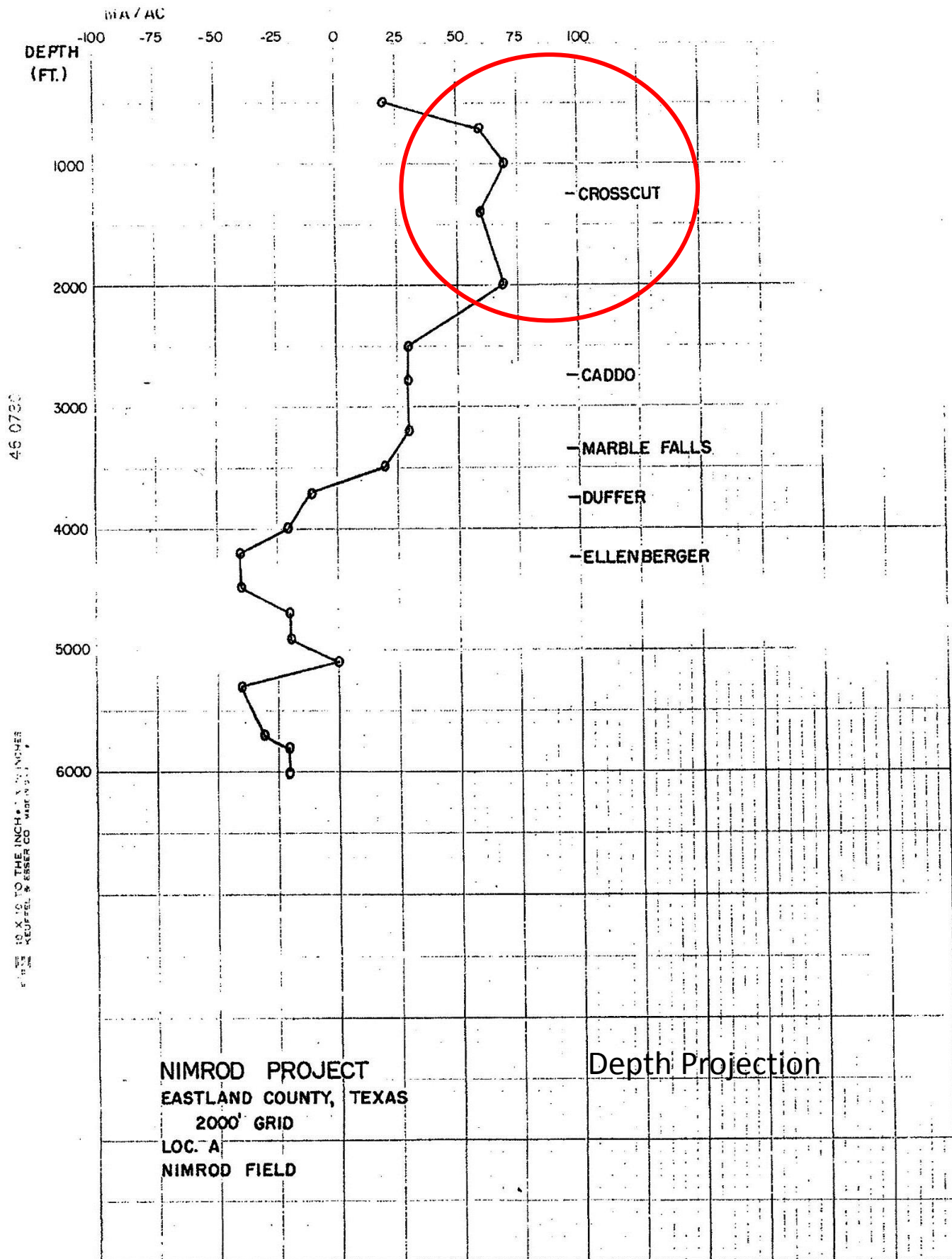
NIMROD FIELD CROSS SECTION

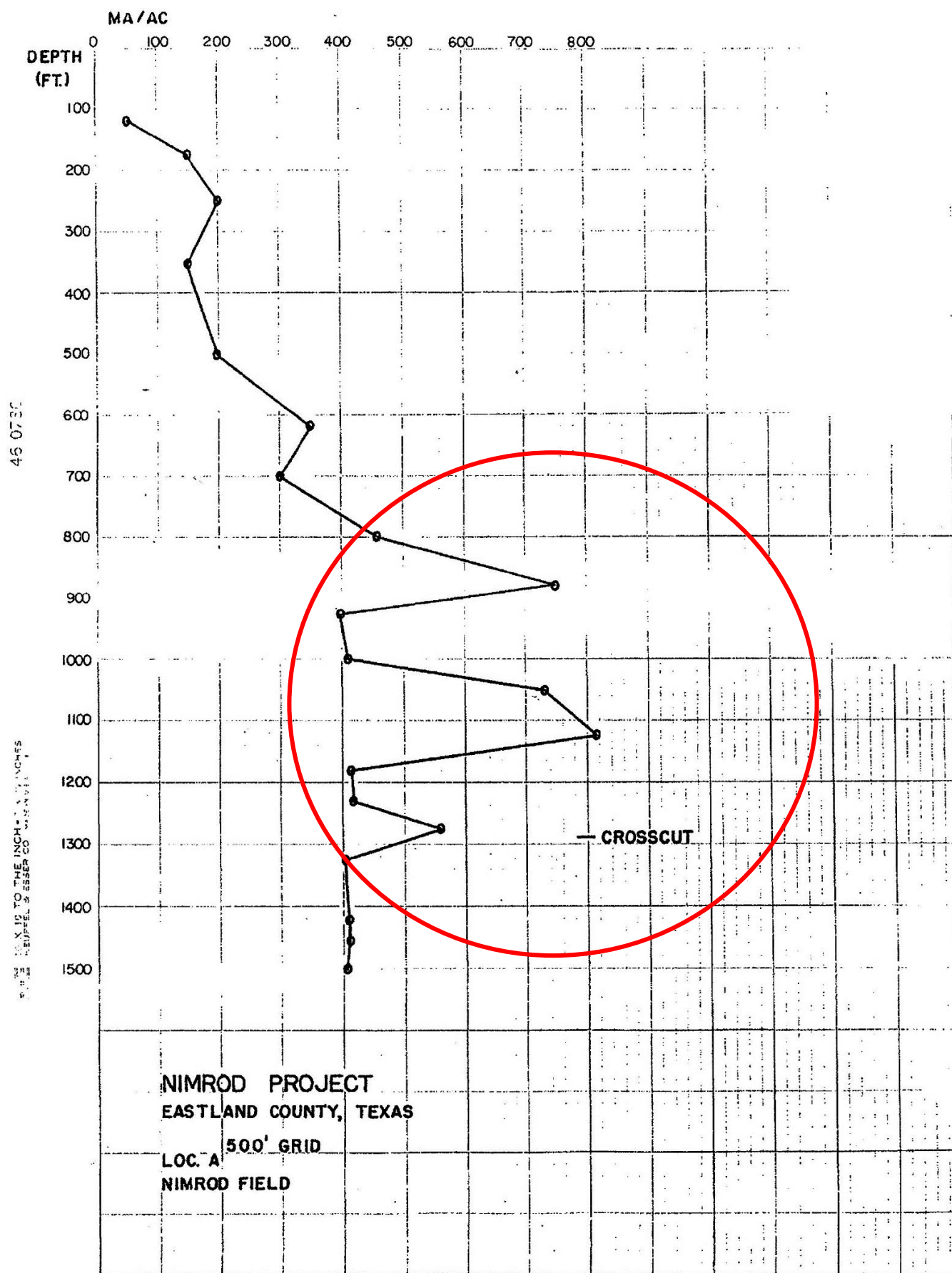










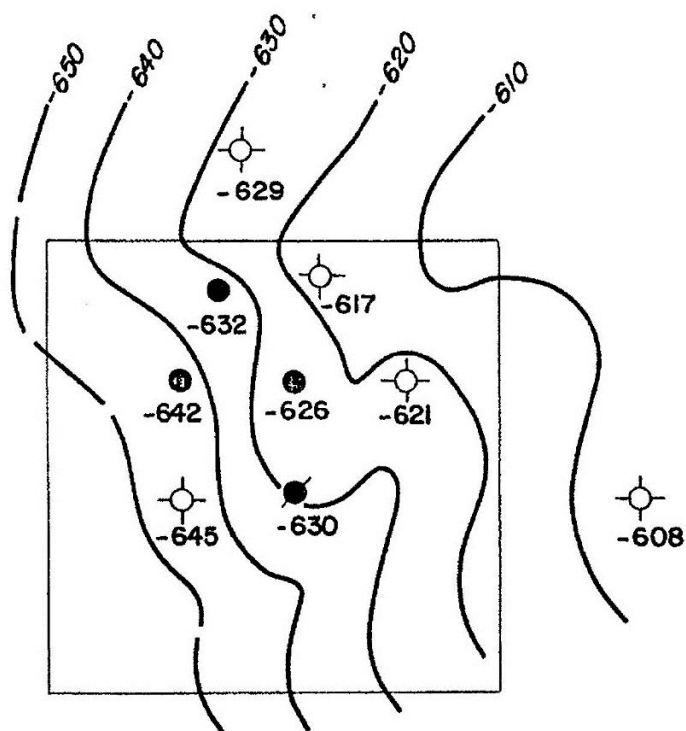


Abandoned Field
Griffiths Field
Clay Co., Kansas

Mississippi Chat

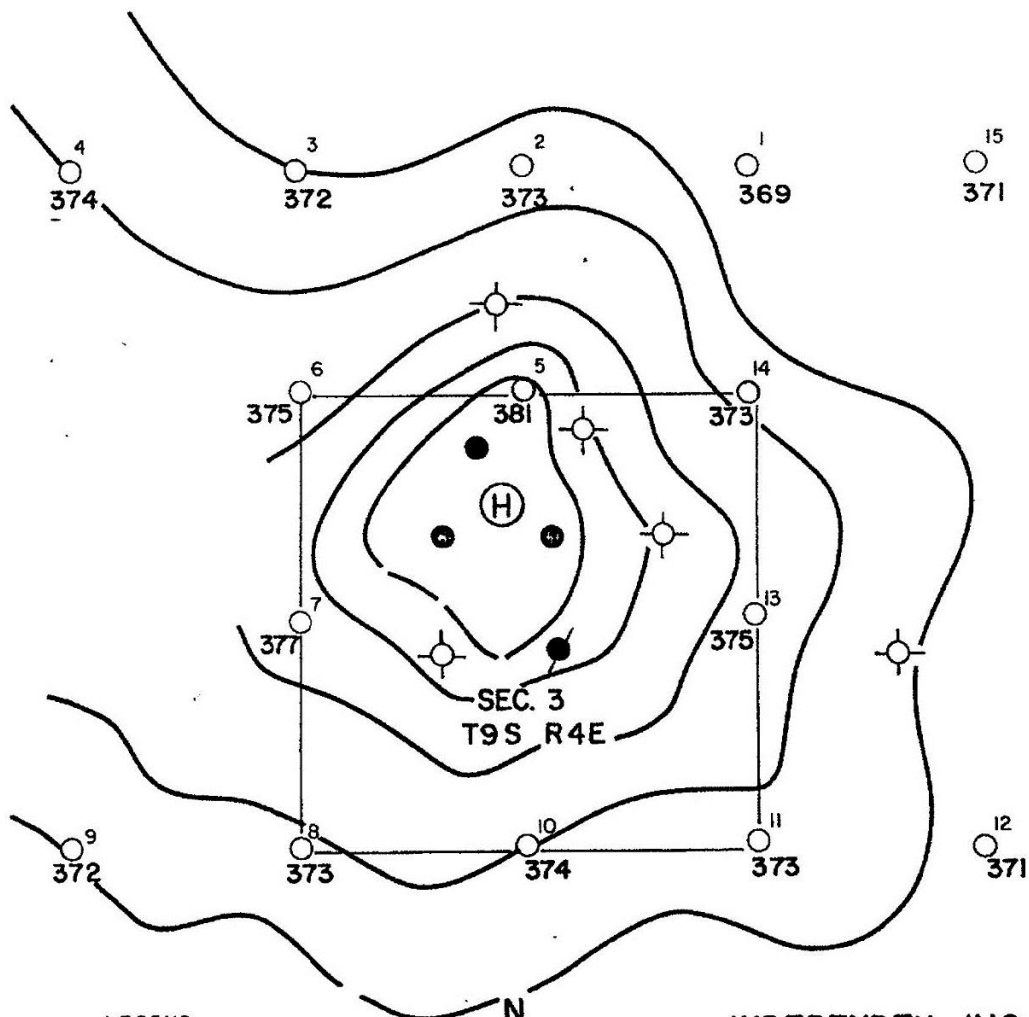
Griffiths Field
Section 3, T9S R4E
Clay County, Kansas

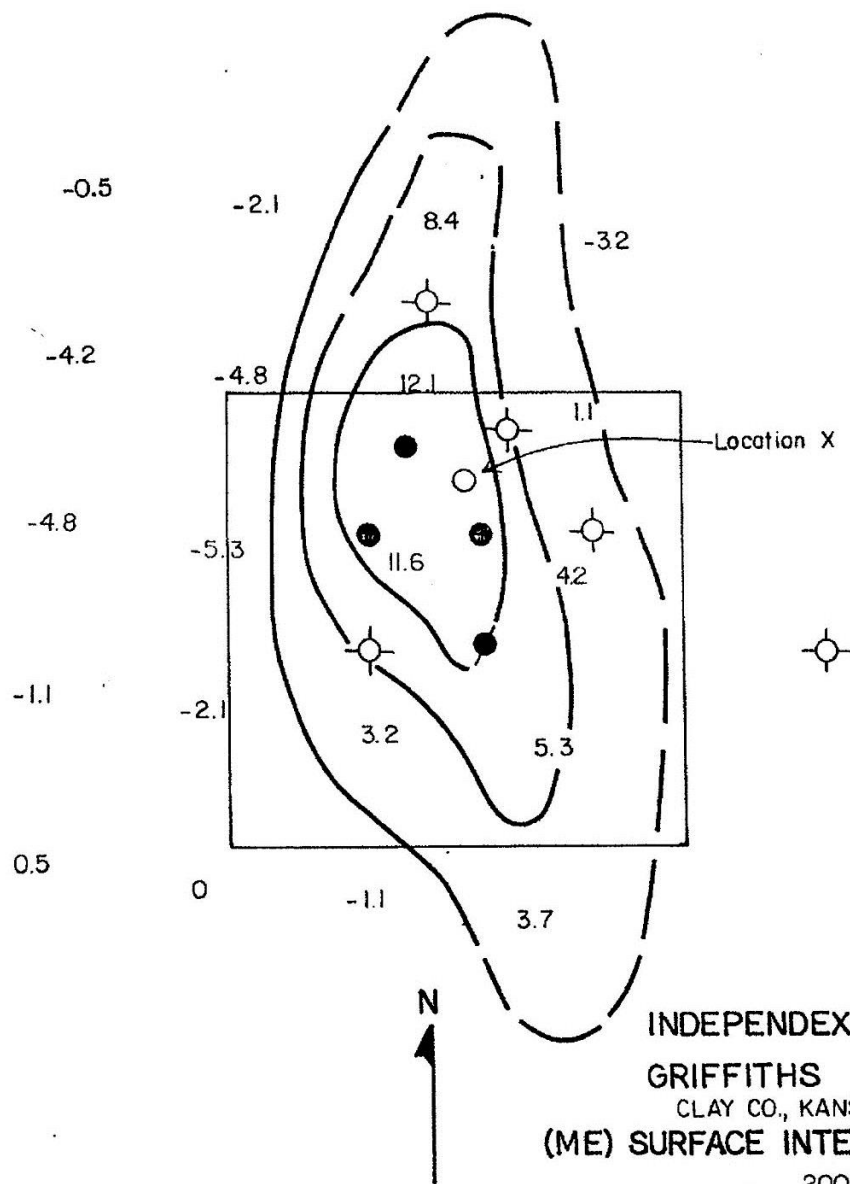
Discovery Date	May 30, 1957
Operator	Pure Oil Company
Well	#1 F.L. Griffiths
Location	C NE NW Sec. 3-9S-4E
Producing Formation	Mississippian (Burlington-Keokuk)
	Chert
Initial Production	Pump 86.5 bbls oil/day 26 bbls water/day
Initial Reservoir Pressure	685 psi (DST)
Method of Discovery	Subsurface Geology
Nature of Trap	Stratigraphic Entrapment
Reservoir Thickness	22-29 ft.
Average Depth	1,920 ft.
Productive Zone Thickness	4 ft. plus fractures
Porosity (Log)	18% to 35% where porous and permeable
Water Saturation	Variable
Water Datum	-644 ft. (related to permeability more than structure)
Productive Area	Approximately 200 acres
Drive Mechanism	Inadequate water drive
Oil Character	27 degrees API @ 60 degrees F
Gas	Too Small To Measure
Completion Technique	Perforations
Treatment	Acidfrac; 6,000 gals frac acid, 6 gals Mar-flo, 6000# sand
Total Producers Drilled	4 wells; 1 abandoned, 8/1/59, (4,091 BO)
Cumulative Production	95,053 bbls oil
Year Field Abandoned	1981



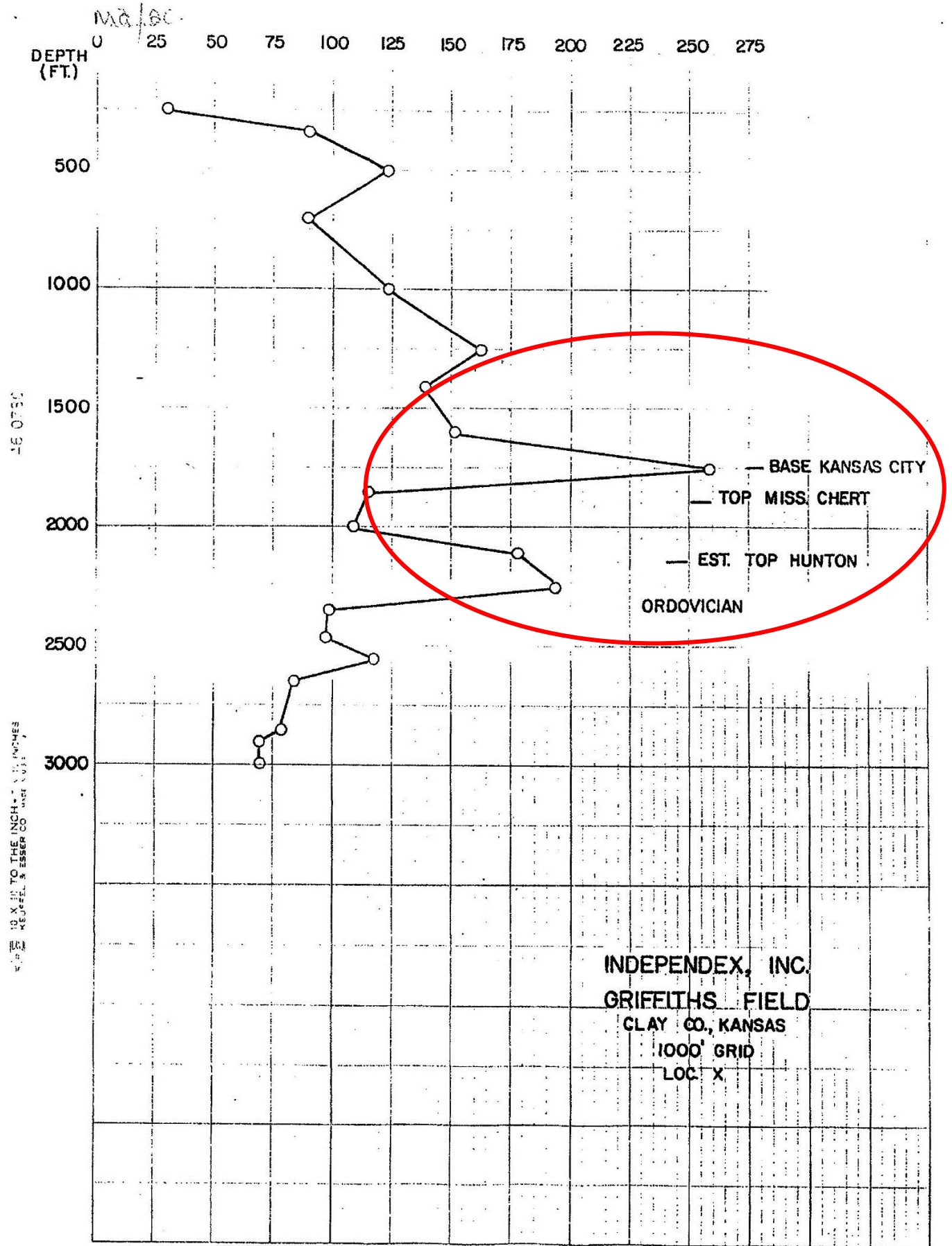
INDEPENDX, INC.
GRIFFITHS FIELD
CLAY CO., KANSAS
TOP MISS CHERT
PRODUCING HORIZON

C.I.: 10'
2000'



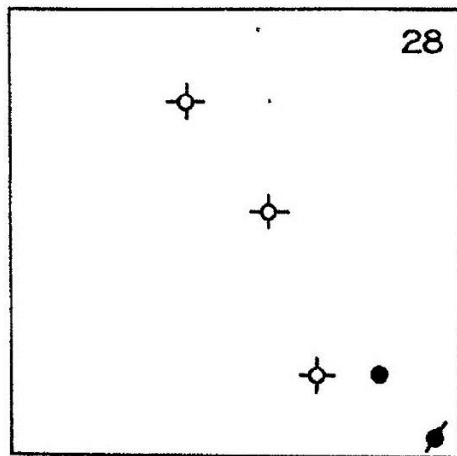


INDEPENDX, INC.
GRIFFITHS FIELD
CLAY CO., KANSAS
(ME) SURFACE INTEGRATION
2000'
C.I.: 5 Ma/ac.



Pre-Development Wildcat
Edwards Co., Illinois

Mississippian Limestone

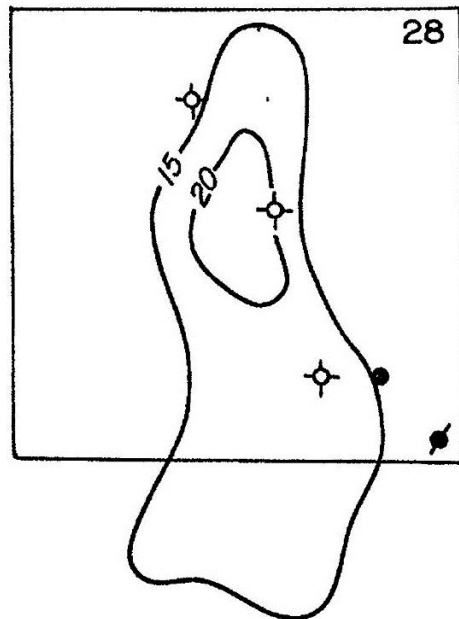


INDEPENDEX, INC.



SEC. 28 IN 10E
EDWARDS CO., ILLINOIS
DEVELOPMENT BEFORE
ME GROUND SURVEY

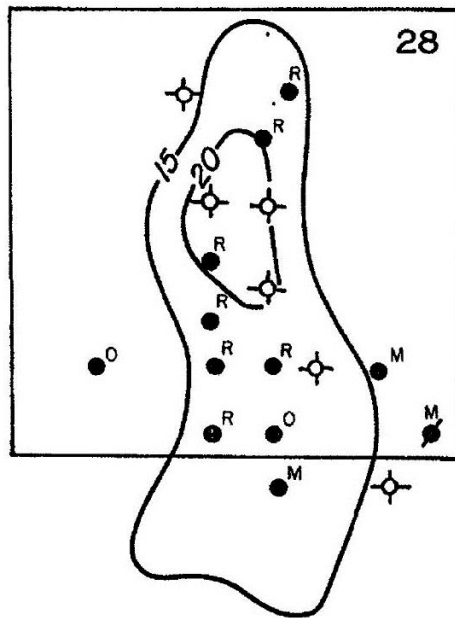
2000'



INDEPENDX, INC.
MAPLE GROVE SOUTH
CONSOLIDATED FIELD
EDWARDS CO., ILLINOIS
SEC. 28 IN IOE
SURFACE INTEGRATION
MAGNETO-ELECTRIC (ME)

2000'

C.I.: 5 Ma/ac



LEGEND

- ^R ROSICLAIRE (Miss)
- ^O O'HARA
- ^M McCLOSKEY
- ⊕ D & A
- ⊙ P & A



INDEPENDX, INC.
 MAPLE GROVE SOUTH
 CONSOLIDATED FIELD
 EDWARDS CO., ILLINOIS
 SEC. 28 IN 10E
 ME ANOMALY
 AND
 FIELD DEVELOPMENT
 C. I. : 5 Ma /ac
 2000'