

Application for Downhole Commingling
Jerome P. McHugh
Wright Way #1 well
T-24-N, R-2-W, NMPM
Sec. 2: Unit Letter C
950' FNL & 1680' FWL
Rio Arriba Co., New Mexico
Case No. 7968 Exhibit No. C1

OFFSET OPERATORS

Jerome P. McHugh (McHugh)
650 S. Cherry St., #1225
Denver, CO 80222

E.A. Phillips (Phillips)
1200 Philtower Bldg.
Tulsa, OK 74103

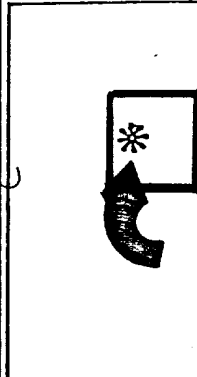
El Paso Natural Gas Company (El Paso)
P.O. Box 1492
El Paso, TX 79978

Dugan Production Corp. (DPC)
P.O. Box 208
Farmington, NM 87499

Southland Royalty Company (So. Roy)
801 Cherry Str.
Ft. Worth, TX 76102

Northwest Exploration Company (NMW)
P.O. Box 5800, Terminal Annex
Denver, CO 80217

Kenai Oil and Gas Inc. (Kenai)
One Barclay Plaza
1675 Larimer Str., Suite 500
Denver, CO 80202

34		35		36	
MCHUGH 3/4 E.A. PHILLIPS 1/4		El Paso 3/4 DOCV 4 NM 01385 EL PASO		50. ROY 93% NM 43760 MCH. 7 1/2 F.L.	
FEE		SF081296		LG-974	
MCHUGH		SF079339		NW X	
NM 23033				1	
MCHUGH					
3		2			
MCHUGH 1/2 KENAI 1/2		MCHUGH 1/2 KENAI 1/2		NM 43746	
FEE		FEE		MCHUGH	
FEE		NM 23032		FEE	
10		11		12	

T-24-N, R-2-W, NMPM
Rio Arriba County, New Mexico

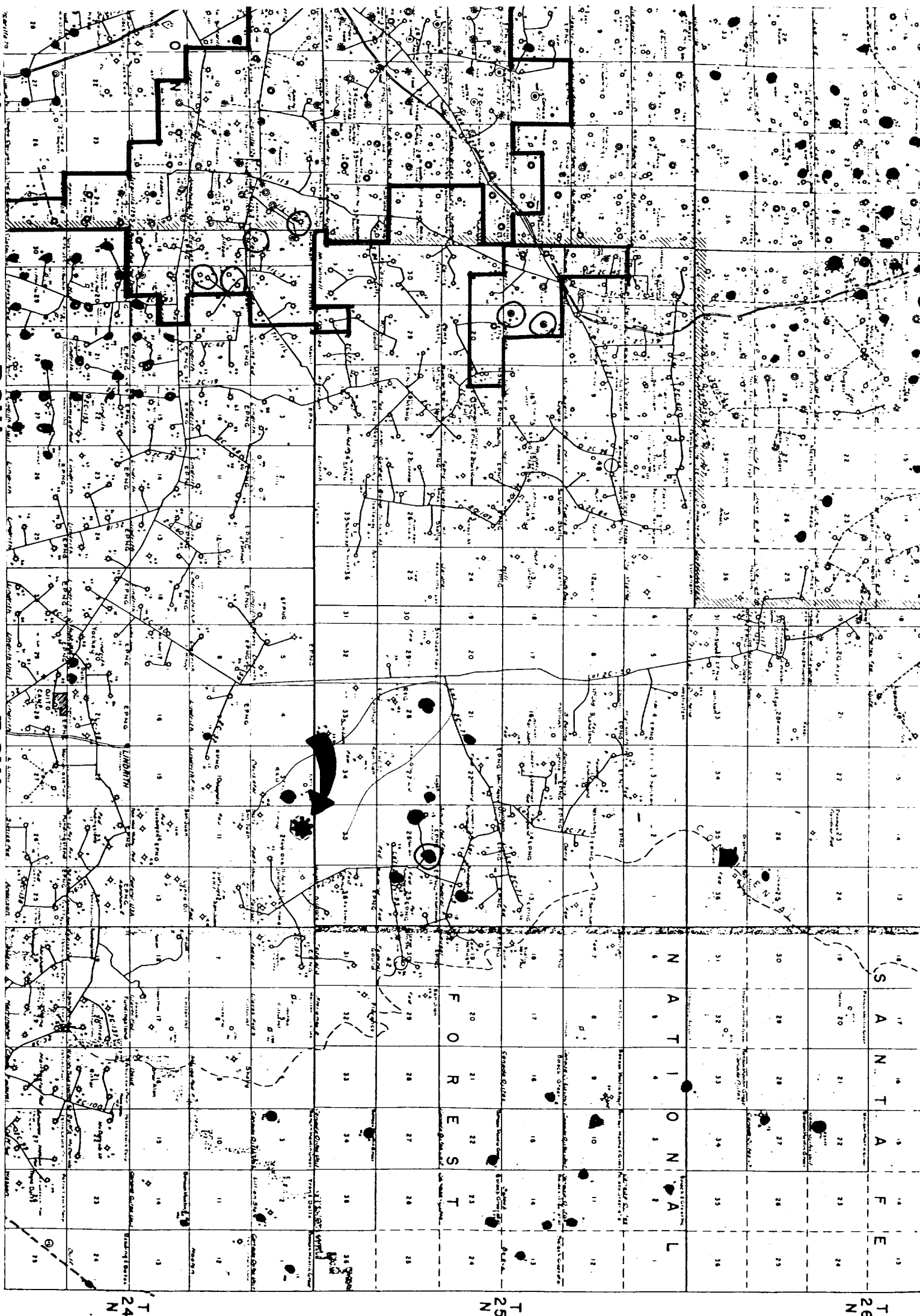
32-N-2-W-2-7

R4W

R3W

R2W

R1W



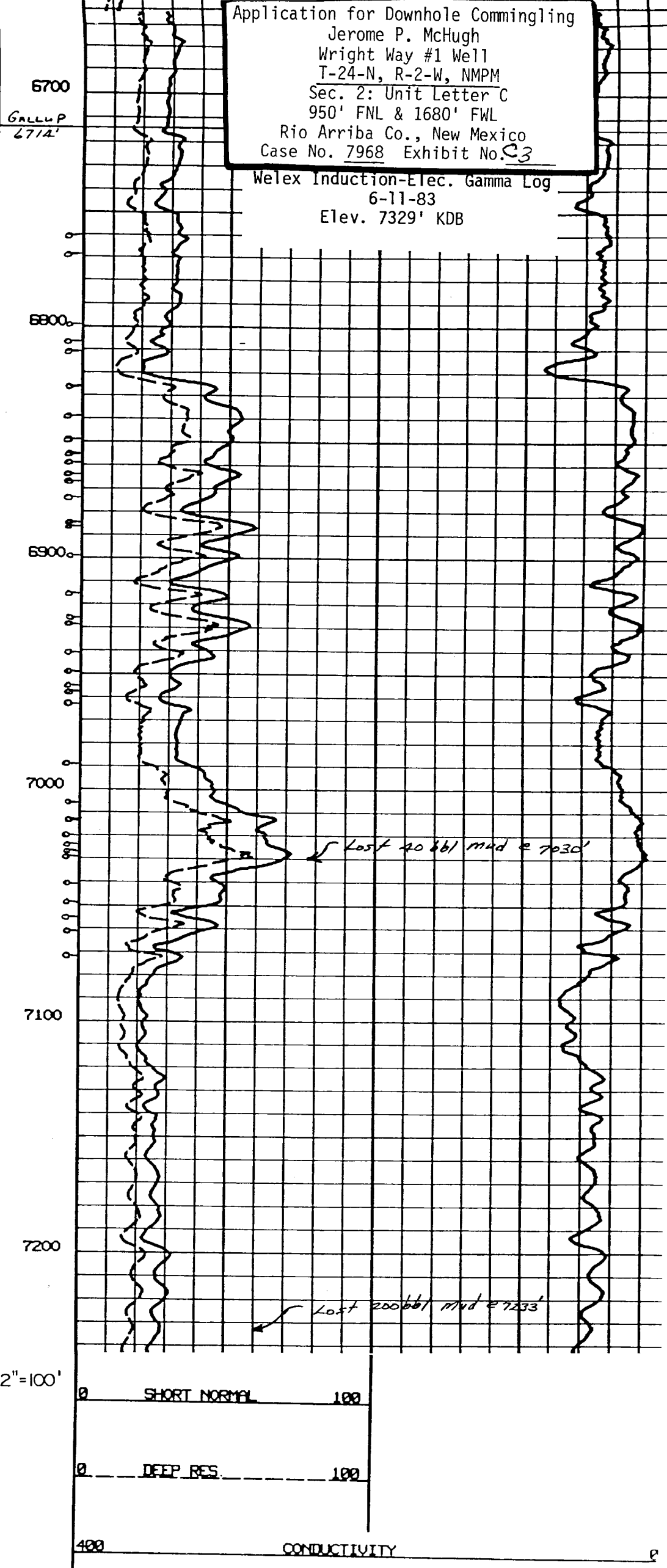
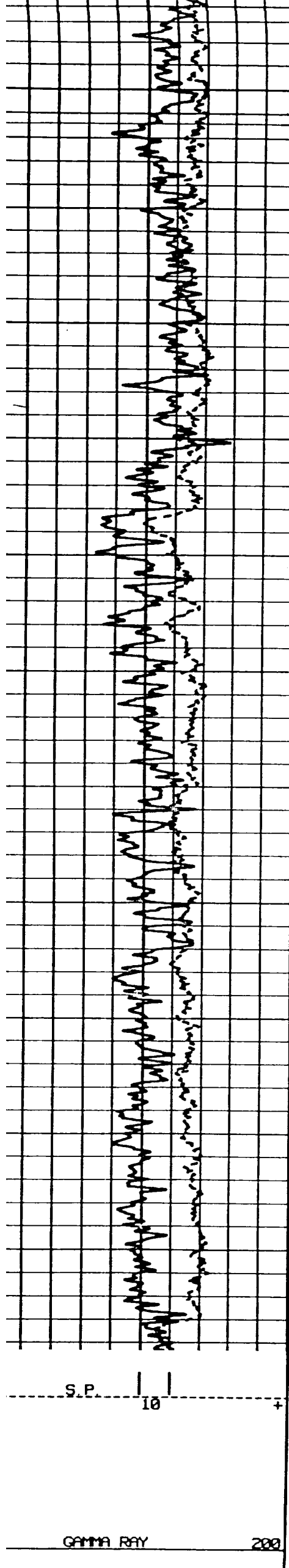
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KEY

- ☼ Subject Well
- ▣ West Lindrith Gallup-Dakota Pool
- ▣ Ojito (Gallup)-Dakota Pool
- Commingled Gallup-Dakota Well
- Dakota Well
- Gallup Well
- Well completed in Gallup & Dakota
- ▣ Uncompleted Gallup Well
- Plugged & Abandoned Gallup or Dakota
- Wells used for production data

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Welex Induction-Elec. Gamma Log
 6-11-83
 Elev. 7329' KDB



2"=100'

S.P.

10

SHORT NORMAL

100

DEEP RES.

100

GAMMA RAY

200

400

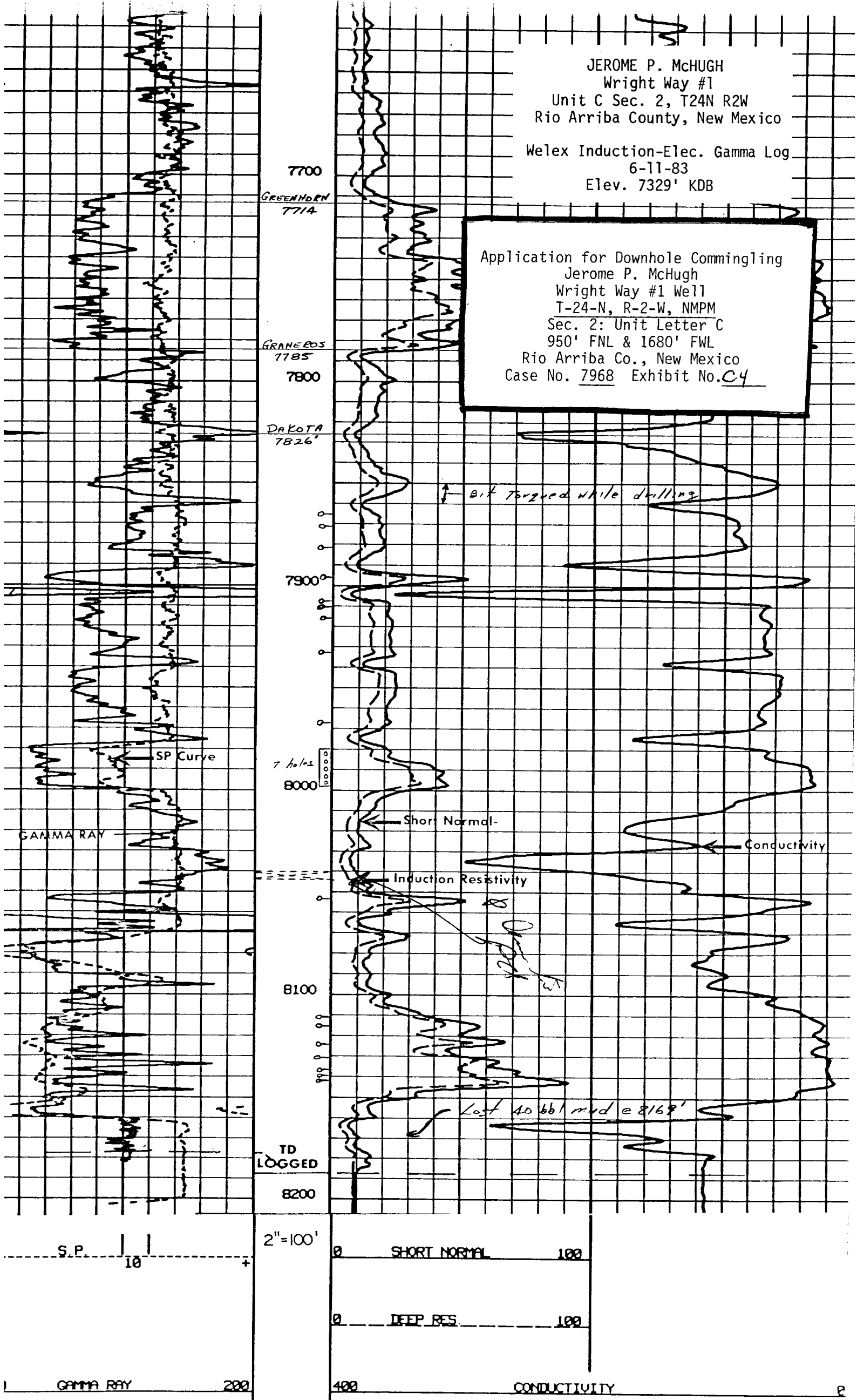
CONDUCTIVITY

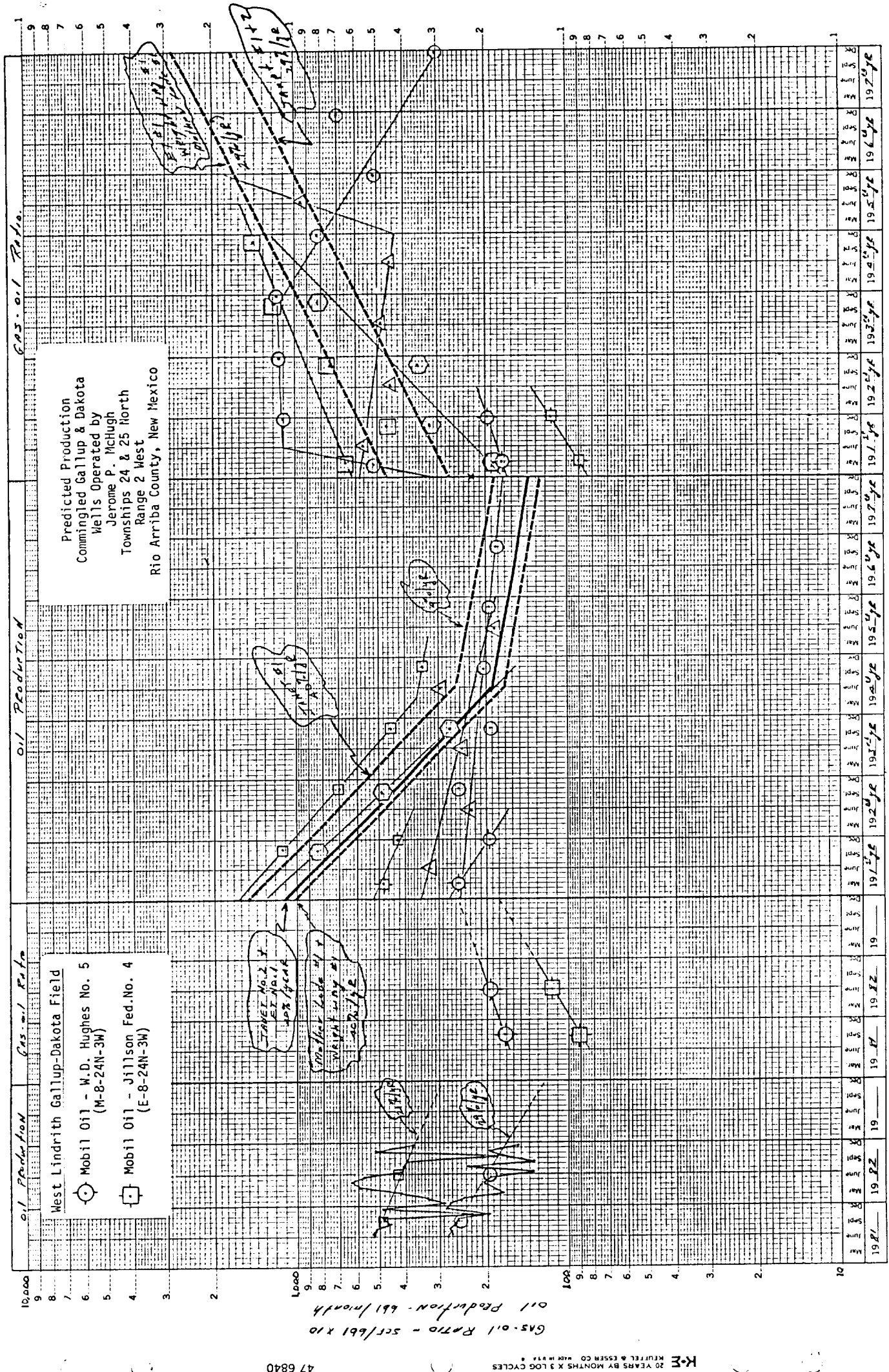
2

JEROME P. McHUGH
Wright Way #1
Unit C Sec. 2, T24N R2W
Rio Arriba County, New Mexico

Welex Induction-Elec. Gamma Log
6-11-83
Elev. 7329' KDB

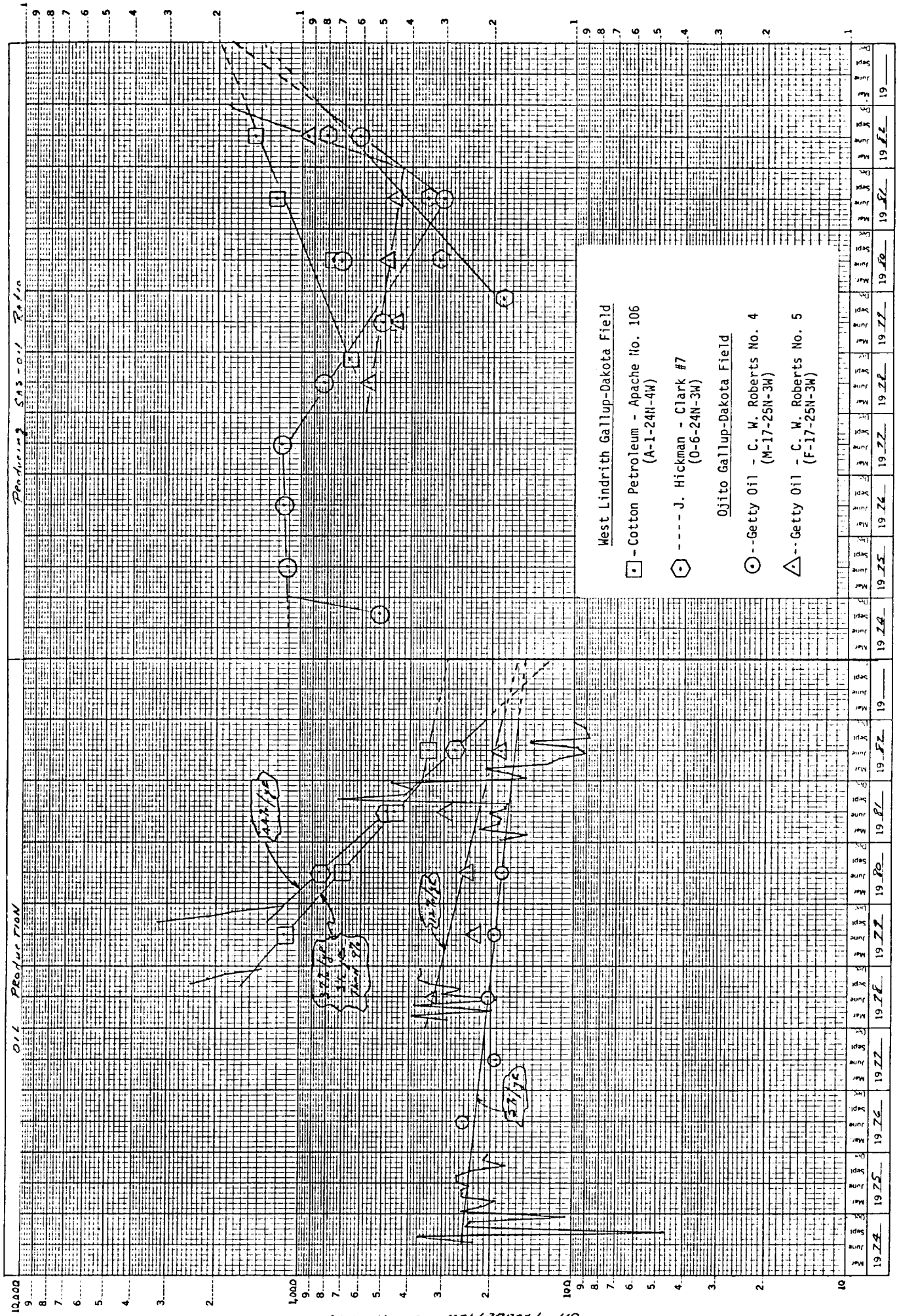
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GOS - oil Ratio - SEC/bbl x 10
oil Production - bbl/month



WELL DATA
 Commingled Gallup-Dakota Wells
 General Area of Jerome P. McHugh's Wells in
 Townships 24 and 25 North, Range 2 West
 Rio Arriba County, New Mexico

Operator	Well Name	Location U-S-T-R	Oil Production				Gas Production		Estimated Ultimate Recovery-Bbl		
			Initial Potential BOPD-GOR	Actual Init.Prod. BOPD-GOR	Production Factor Actual/IP	Initial Decline %/Yr-Yrs	Stabilized Decline % / Yr	Gas Prod. Incline Factor Actual/IP		Rate %/Yr	
<u>West Lindrith Gallup-Dakota Field</u>											
Cotton Petroleum	- Apache No. 106	A-1-24N-4W	97 - 1526	53 - 6400	55%	37 - 3½	9	4.19	25	41,254	76,800
J. Hickman	- Clark No. 7	O-6-24N-3W	150 - 2666	43 - 1800	29%	44 - --	-	0.68	57	30,597	51,600*
Mobil Oil	- W.D. Hughes No.5	M-8-24N-3W	28 - 179	9 - 1670	32%	29 - --	-	9.33	19	3,896	12,200*
Mobil Oil	- Jillson No. 4	E-8-24N-3W	35 - 857	18 - 840	51%	21 - --	-	0.98	39	7,822	38,500*
<u>Ojito Gallup-Dakota Field</u>											
Getty Oil	- C.W. Roberts No. 4	M-17-25N-3W	9 - 12,220	8 - 11,000	-	5 - --	5	0.90	5	21,031	48,000
Getty Oil	- C.W. Roberts No. 5	F-17-25N-3W	NR - 4,850	12 - 5,800		12 - --	12	1.20	-	14,894	28,000
6 Well Average			64 - 3,716	24 - 4,585	42%	33 - --	9	1.23	29		42,500

* Estimated assuming maintaining initial decline rate for a total of 3½ years from the date of first production and then stabilizing at an annual decline rate of 9%

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RESERVES AND ALLOCATION FACTORS FOR
COMMINGLED GALLUP-DAKOTA WELLS
Townships 24 and 25 North, Range 2 West
Rio Arriba County, New Mexico

	Janet No. 1 R-7258	Janet No. 2 R-7312	E. T. No. 1 Proposed	Mother Lode No. 1 Proposed	Wright Way No. 1 Proposed
<u>OIL (Reserves in bbl.)</u>					
Gallup	39,200 (63%)	35,600 (75%)	40,600 (84%)	43,900 (79%)	28,000 (67%)
Dakota	<u>22,600</u> (37%)	<u>12,000</u> (25%)	<u>7,800</u> (16%)	<u>11,900</u> (21%)	<u>14,100</u> (33%)
TOTAL	61,800	47,600	48,400	55,800	42,100
<u>GAS (Reserves in MMCF)</u>					
Gallup	372.4 (82%)	363.1 (90%)	414.1 (94%)	447.8 (91%)	285.6 (85%)
Dakota	<u>79.1</u> (18%)	<u>42.0</u> (10%)	<u>27.3</u> (6%)	<u>41.7</u> (9%)	<u>49.4</u> (15%)
TOTAL	451.5	405.1	441.4	489.5	335.0
Indicated Initial Potential Commingled Stream	116 BOPD	86 BOPD	86 BOPD	78 BOPD	78 BOPD
Predicted Initial Production	49 BOPD	36 BOPD	36 BOPD	33 BOPD	33 BOPD