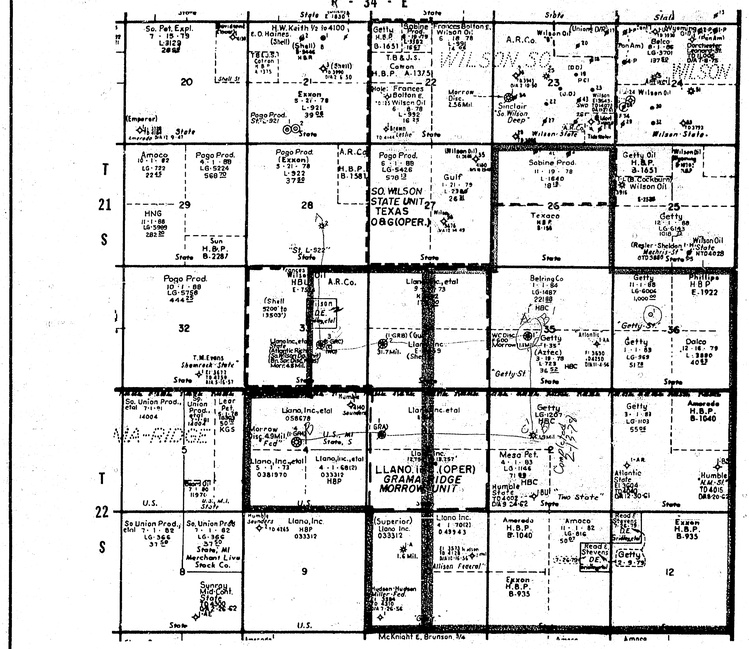
Case No.
6557

Large Exhibits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WILSON SO.
WILSON
SO. WILSON STATE UNIT
TEXAS
O&G(OPER.)
LLANO, INC. (OPER)
GRAMA RIDGE
MORROW UNIT
Getty H.B.P. B-1651
Sabine Prod. 11-19-78 L-1840 1813
Texaco H.B.P. B-156
Getty Oil H.B.P. B-1651
Getty 11-1-88 LG-6043
Phillips H.B.P. E-1922
Getty 1-1-88 LG-369
Dalco 12-16-79 L-3880
Getty (Aztec) 3-19-78 L-723
Getty LG-1267
Amerada H.B.P. B-1040
Getty 1-1-88 LG-103
Amoco 11-1-82 LG-816
Exxon H.B.P. B-935
Getty LG-2178
Mesa Pet. 4-1-83 LG-1164
Llano, Inc. et al
Pogo Prod. (Exxon) 3-31-79 L-922
Pogo Prod. 6-1-88 LG-5426
Pogo Prod. 10-1-88 LG-5228
Amoco 10-1-87 LG-729
HNG 11-1-88 LG-5989
Sun H.B.P. B-2287
Gulf
Texaco
Getty
Sinclair So. Wilson Deep
Wilson Oil
Sohio
Shell
Exxon
Pogo Prod. 3170'
Morrow Dis. 2.56 Mi.
Hole: Frances Bolton E. 15-25 Wilson Oil 6-1-78 L-352 10-19
Bolton E. 15-25 Wilson Oil 6-1-78 L-931 39-08
H.W. Keith Yz to 4100 c.o. Holmes (Shell)
T.M. Evans Shamrock "State"
"St. L-922"
Wilson St. 2970'
Wilson "State"
Two State"
Gramma Ridge Fed.
Llano, Inc. et al 0386178
Llano, Inc. et al 0381970
Llano, Inc. et al 033312 HBP
Llano, Inc. et al 0386178
Llano, Inc. et al 033312
Llano, Inc. et al 0386178
Llano, Inc. et al 0333312
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Llano, Inc. et al 0333312

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OPERATOR	

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease: State ☒ Fee ☐

5. State Oil & Gas Lease No.: LG-1307

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

S-NMOCC 3 - NTO 1-File
1-N.J. Starrak-Tulsa Relco 1-Engr
1-A.R. Cary-Midland Nsea
1-D. Dr. Terry-Houston Southland

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

2. NAME OF OPERATOR: GETTY OIL COMPANY

3. ADDRESS OF OPERATOR: P. O. BOX 730, HOBBS, NEW MEXICO 88240

4. LOCATION OF WELL: UNIT LETTER P LOCATED 1980 FEET FROM THE NORTH LINE AND 1980 FEET FROM THE WEST LINE OF SEC. 2 TWP. 22-S RGE. 36-E NMPM

7. Unit Agreement Name

8. Farm or Lease Name: TWO STATE

9. Well No.: 1

10. Field and Pool, or Wildcat: UNDESIGNATED

12. County: LEA

15. Date Spudded: 10-30-77
16. Date T.D. Reached: 1-16-78
17. Date Compl. (Ready to Prod.): 2-13-78
18. Elevations (DF, RKB, RT, GR, etc.): 2608' GR
19. Elev. Cashinghead: —

20. Total Depth: 13,381'
21. Plug Back T.D.: 13,360'
22. If Multiple Compl., How Many:
23. Intervals Drilled By: → 0 - TD
Rotary Tools: —
Cable Tools: —

24. Producing Interval(s), of this completion — Top, Bottom, Name: 12,759 - 13,322 MORROW

25. Was Directional Survey Made: YES

26. Type Electric and Other Logs Run: DUAL LATEROLOG, BHC SONIC, COMP. NEUTRON, NEUTRON, NEUTRON DENSITY.

27. Was Well Cored: NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	402	17-1/2	500 CLASS C	—
10-3/4	40.5,45.5,51	5,577	12-1/4	2350 LITE & CLASS "C"	—
7-5/8	29,33.7,39.5	11,654	9-1/2	2165 LITE & CLASS H	—

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
5"	11,387	13,379	350	

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	12,638	12,638

31. Perforation Record (Interval, size and number):
12,941-13,129 9 - .25" Holes
12,761-13,322 7 - .25" Holes
12,759-12,763-1/2 8 - .25" Holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12,941-13,129	2,500 Gals. 7-1/2 NE Acid
12,761-12,941	2,500 Gals. 7-1/2 NE Acid

33. PRODUCTION

Date First Production: 2-14-78
Production Method (Flowing, gas lift, pumping — Size and type pump): FLOWING
Well Status (Prod. or Shut-in): SHUT-IN

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
2-14-78	24	VARIOUS	→				—

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
1000	PKR.	→				

34. Disposition of Gas (Sold, used for fuel, vented, etc.): WAITING ON GAS CONNECTION.
Test Witnessed By

35. List of Attachments: DEVIATION SCHEDULE

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED: ORIGINAL SIGNED BY DALE E. CROCKETT
Dale E. Crockett
TITLE: AREA SUPERINTENDENT
DATE: 2-15-78

RECEIVED
MAR 2 - 1978
OIL CONSERVATION DIVISION
HOBBS, OFFICE

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6557 Exhibit No. 2
Submitted by Getty
Hearing Date 5-22-80

/dh

This form is to be filed with the appropriate District Office of the Commission not later than 10 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. Use multiple completion forms (Form C-105) when completion in more than one pool is desired.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy 1690'	T. Canyon	T. Ojo Alamo	T. Penn. "A"		
T. Salt 3600'	T. Strawn 11,750'	T. Kirtland-Fruitland	T. Penn. "B"		
B. Salt 3790'	T. Atoka 11,925'	T. Pictured Cliffs	T. Penn. "C"		
T. Yates	T. Miss	T. Cliff House	T. Leadville		
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison		
T. Queen	T. Silurian	T. Point Lookout	T. Elbert		
T. Grayburg	T. Montoya	T. Mancos	T. McCracken		
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Qtzte		
T. Glorieta	T. McKee	Base Greenhorn	T. Granite		
T. Paddock	T. Ellenburger	T. Dakota	T.		
T. Blinebry	T. Gr. Wash	T. Morrison	T.		
T. Tubb	T. Granite	T. Todilto	T.		
T. Drinkard	T. Delaware Sand	T. Entrada	T.		
T. Abo	T. Bone Springs	T. Wingate	T.		
T. Wolfcamp 11,230'	T. Horrow 12,440'	T. Chinle	T.		
T. Penn	T. Horrow Clastics	T. Permian	T.		
T Cisco (Bough C)	T. 0 12,607'	T. Penn "A"	T.		

OIL OR GAS SANDS OR ZONES

No. 1, from 11,750'	to 11,820'	No. 4, from 13,022'	to 13,343'		
No. 2, from 12,759'	to 12,764'	No. 5, from	to		
No. 3, from 12,938'	to 12,958'	No. 6, from	to		

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet.
No. 2, from to feet.
No. 3, from to feet.
No. 4, from to feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	90	90	Surface - Redbed	9640	10698	1058	Lime, Shale
90	408	318	Redbed, Sand, Gravel	10698	10746	48	Chert, Shale, Lime
308	1326	518	Redbed, Anhydrite	10746	11250	504	Shale, Lime
1326	3146	1820	Anhydrite	11250	11378	128	Shale, Lime, Sand
3166	3690	544	Anhydrite, Salt	11378	11621	243	Shale, Lime
3690	4075	385	Sandstone	11621	11759	138	Shale
4075	4255	180	Dolomite	11759	11854	95	Lime
4255	4586	331	Sand, Dolomite	11854	11926	72	Lime, Chert
4586	4718	132	Lime, Sand, Dolomite	11926	11947	21	Lime
4718	5532	814	Sand, Lime	11947	11970	23	Lime, Shale
5532	5577	45	Lime, Dolomite	11970	12070	100	Lime, Sand, Shale
5577	6021	444	Sand	12070	12169	99	Shale
6021	7071	1050	Lime, Sand	12169	12542	373	Shale, Lime
7071	7429	358	Sand, Lime, Shale	12542	12565	23	Shale
7429	7808	379	Shale, Lime	12565	12584	19	Lime, Shale
7808	7948	140	Shale	12584	12593	9	Shale, Lime, Chert
7948	9268	1320	Shale, Lime	12593	12613	20	Shale
9268	9640	372	Lime	12613	12764	151	Shale, Lime

(CONTINUED)

U.S.G.S. WASHINGTON
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3 - NMOCC - Santa Fe
1 - Midland
1 - Hobbs File

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 10-1-65

PWKC	1 yr	DEC 29 1978	
ARC		RECEIVED	
HOBBS		OIL CONSERVATION DIV.	
ROSWELL			
ARTESIA			
BRAZOS			
DRLG		ISSUED	SLW
PROR.			

Type Test: ☒ Initial ☐ Annual ☐ Special — Test Date: 2-13-79

Company: GETTY OIL COMPANY — Connection: NOT AVAILABLE

Pool: GANNA RIDGE MORROW — Formation: MORROW

Unit: P — Well No.: 1

Completion Date: 2-6-78 — Total Depth: 13,381 — Plug Back TD: 13,360 — Elevation: 3608.2 GL — Farm or Lease Name: GETTY "2" STATE

Csg. Size	Wt.	I.D.	Set At	Perforations	Unit	Sec.	Twp.	Rge.
5"	18.0	4.276	13,379'	From 12,759' To 13,322'	P	2	22-S	35-E

Tbg. Size	Wt.	I.D.	Set At	Perforations	County
2-3/8"	4.7	1.995	12,638	From To	LEA

Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE — Packer Set At: 12,638' — County: LEA

Producing Thru: TUBING — Reservoir Temp. °F: 183 x 13,322 — Mean Annual Temp. °F: 60 — Baro. Press. – P_a: 13.2 — State: NEW MEXICO

L	H	Gg	%CO2	%N2	%H2S	Meter Run	Taps
12,638'	12,638'	0.609	0.732	0.26	–	–	FLANGE

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F
SI	4" X 1.5"					
1.	4" X 1.5"		630	10.2	95	
2.	4" X 1.5"		640	19.0	94	
3.	4" X 1.5"		650	28.0	92	
4.	4" X 1.5"		630	31.0	92	
5.						

TUBING DATA

NO.	Press. p.s.i.g.	Temp. °F
SI	6667	58
1.	4350	65
2.	2800	64
3.	1760	61
4.	1000	60
5.		

CASING DATA

NO.	Press. p.s.i.g.	Temp. °F
SI	PACKER	
1.		
2.		
3.		
4.		
5.		

NO.	Duration of Flow
SI	67.78 HRS
1.	6.0"
2.	6.5"
3.	3.0"
4.	6.0"
5.	

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w p_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1.	10.84	80.20	643.2	.9952	1.281	1.046	1359
2.	10.84	111.40	653.2	.9963	1.281	1.049	1613
3.	10.84	133.03	663.2	.9990	1.281	1.046	1901
4.	10.84	141.21	643.2	1.0000	1.281	1.049	2057
5.							

NO.	P_t	Temp. °R	n	Z
1.	6.49	555	1.45	0.877
2.	4.24	554	1.45	0.752
3.	2.67	552	1.44	0.755
4.	1.59	552	1.44	0.830
5.				

Gas Liquid Hydrocarbon Ratio _____ bbl/Mcf. Gravity _____ Deg.
A.P.I. Gravity of Liquid Hydrocarbons _____
Specific Gravity Separator Gas 0.609 XXXXXXXX
Specific Gravity Flowing Fluid XXXXX XXXXXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 362 °R _____ °R

P_c 6480.2 P_c^2 41,993

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1.		4358.4	18955.7	22997.3
2.		3816	7929.9	34063.1
3.		1790.5	3205.0	38787.1
4.		1063.7	1131.5	40861.5
5.				

$\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.233 BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico Exhibit No. 3 Case No. 7245 Submitted by GETTY Hearing Date 5/24/79

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.215

Absolute Open Flow 1965 — Mcfd @ Pressure Base = 15.025 — Spec. Gravity 0.928

Remarks: _____

Approved By Commission: _____

Calculated By: GETTY OIL COMPANY — Calculated By: M. V. MERCHANT — Checked By: DALE R. CROCKETT

E. DALE R. CROCKETT

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NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

3-HOBBS
1-R. J. SWANN-TULSA
1-A. B. CARY-MIDLAND
1-FILE

1-MRH, ROSS
1-HEICO-MIDLAND
1-SOUTHLAND-MIDLAND
1-RRM-MIDLAND
1-BW, FIELD CLERK
Dual

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease: State [X] Fee [ ]
5. Operator's Oil & Gas Lease No.: 1-723

1a. TYPE OF WELL: OIL [X] GAS [ ] DRY [ ] OTHER [ ]
7. Unit Agreement Name:
b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESER. [ ] OTHER [ ]
8. Farm or Lease Name: Getty "35" State
2. NAME OF OPERATOR: Getty Oil Company
9. Well No.: 1
3. ADDRESS OF OPERATOR: P. O. Box 730, Hobbs, New Mexico 88240
10. Field and Pool, or Wildcat: Undesignated Wolfcamp Gas; Undesignated Strawn Gas; Undesignated Morrow Gas
4. LOCATION OF WELL: UNIT LETTER K LOCATED 2310 FEET FROM THE South LINE AND 1650 FEET FROM THE West LINE OF SEC. 35 TWP. 21S RGE. 34E NMPM
12. County: Lea
15. Date Spudded: 3-15-78
16. Date T.D. Reached: 10-25-78
17. Date Compl. (Ready to Prod.): 11-10-78 Wolfcamp; 1-3-79 Morrow
18. Elevations (DF, RKB, RT, GR, etc.): 3665.8 GR
19. Elev. Casinghead: 3666.8
20. Total Depth: 13,355
21. Plug Back T.D.: 13,265
22. If Multiple Compl., How Many: Dual
23. Intervals Drilled By: Rotary Tools: 0-810'; Cable Tools: 810'-13,355'
24. Producing Interval(s), of this completion - Top, Bottom, Name: 10,810-10,828 Wolfcamp - Oil; 12,907-13,102 Morrow - Gas
25. Was Directional Survey Made: Yes
26. Type Electric and Other Logs Run: BHC, CNL-FDC; DLL; and Dipmeter 13,100-10,832', Cement Bond Log: & FPC - Schlumberger
27. Was Well Cored: Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20		29	24	3 yds. Ready Mix	
13 3/8	48	395	16	350 sxs Cement Circ.	
10 3/4	51,45.5 & 40.5	4426	12 ¼	2750 sxs Cement Circ.	575 sxs circ.
7 5/8	39,33.7 & 29#	10832	9 ¾	1955 sxs	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4½	10,359	13,354	535 sxs	

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	10,187	10,187
Dual 2 3/8	12,200	12,200

31. Perforation Record (Interval, size and number):
Wolfcamp: 10,810,12,14,16,10,20,22,24,26,'&' 28' = 10 (.36") holes.
Morrow: 12,907-09,11;14,16,18,20,22,24; 13,071,81-85,92,94,98,100, & 102 = 17 (.36") holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
10,810-28' (Wolf.)	5000 Gals. MOD 202 15% + 15 ball sealers.

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
Wolfcamp 11-10-78	Flowing	Producing
Morrow 1-3-79	Flowing	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Wolfcamp 11-25-78	24 hrs.	30/64"	→	400	1,153	33	1921/1
Morrow 1-8-79	4 Pt.	Variable	→				

Flow. Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
Wolfcamp 1750	Packer	→	800	2306	66	44.6
Morrow 4400#	Packer	→		4612		

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold — MCF/D 11,107
Test Witnessed By:

35. List of Attachments:
Deviation Schedule, 4 Point Test, Log No. 655, Form No. 4

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED: Dale R. Crockett
TITLE: Hobbs District Superintendent
DATE: 1-25-79

OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Received 1-29-79
Submitted by [illegible]
Hobbs District Superintendent

DISTRICT OFFICE
FILE COPY

U.S.G.S. ROSWELL, N.M.

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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled, deepened, plugged back, or recompleted well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill-stem tests. All depths reported shall be measured depths. In the event that electrical and/or radioactivity logs were not filed at the time of completion, they shall be submitted as soon thereafter as run. If not filed prior to completion, Items 28 through 34 shall be completed for each zone. This form is to be filed in quintuplicate except in the case of State lands, where six copies are required. (See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy	T. Canyon		T. Ojo Alamo	T. Penn. "B"	
T. Salt	T. Strawn 11,682'		T. Kirtland-Fruitland	T. Penn. "C"	
B. Salt	T. Atoka (Simp) 12,151'		T. Pictured Cliffs	T. Penn. "D"	
T. Yates 4,160'	T. Miss		T. Cliff House	T. Leadville	
T. 7 Rivers	T. Devonian		T. Menefee	T. Madison	
T. Queen	T. Silurian		T. Point Lookout	T. Elbert	
T. Grayburg	T. Montoya		T. Mancos	T. McCracken	
T. San Andres	T. Simpson		T. Gallup	T. Ignacio Qtzte	
T. Glorieta	T. McKee		Base Greenhorn	T. Granite	
T. Paddock	T. Ellenburger		T. Dakota	T.	
T. Blinebry	T. Gr. Wash		T. Morrison	T.	
T. Tubb	T. Granite		T. Todilto	T.	
T. Drinkard	T. Delaware Sand		T. Entrada	T.	
T. Abo	T. Bone Springs 8,343'		T. Wingate	T.	
T. Wolfcamp (Shale) 10,070'	Morrow cl 12,800'		T. Chinle	T.	
T. Penn	T. Morrow 12,907'		T. Permian	T.	
T. Cisco (Bough C)	T. Rustler 1,724		T. Penn. "A"	T.	

OIL OR GAS SANDS OR ZONES

No. 1, from 10,810	to 10,830		No. 4, from 13,069	to 13,102	
No. 2, from 11,778	to 11,830		No. 5, from	to	
No. 3, from 12,733	to 12,924		No. 6, from	to	

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from None to feet.
No. 2, from to feet.
No. 3, from to feet.
No. 4, from to feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
			(See Attached Sheet)				

U.S.G.S. RECORDS
BEST AVAILABLE COPY

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 10-1-78

Type Test: ☒ Initial ☐ Annual ☐ Special — Test Date: 1-23-79

Company: Getty Oil Company	Connection: Llano, Inc.		
Pool: Grama Ridge Morrow	Formation: Morrow		Unit: -
Completion Date: 1-3-79	Total Depth: 13,355'	Plug Back TD: 13,265'	Elevation: 3675.8 GL	Farm or Lease Name: Getty "35" State
Csg. Size: 5½ / Wt.: 18.0 / d: 4.276 / Set At: 13,355		Perforations: From 12,907 To 13,102		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 12,200		Perforations: From - To -		Unit: X / Sec.: 35 / Twp.: 21-S / Rge.: 34-E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Morrow Gas/Wolfcamp Oil - Dual		Packer Set At: 10,187'/12,200'		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 175°@13,352'	Mean Annual Temp. °F: 60	Baro. Press. - Pa: 13.2 psia	State: New Mexico
L: 12,200	H: 12,200	Gg: 0.599	%CO2: 0.592	%N2: 0.511	%H2S: -	Meter Run: 3"	Taps: Flange

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	-		-				5970	57	Packer	-	24 HR
1.	3"	x	1.75"	4/64"	490	10	85	5500	64	-	-	30 min.
2.	3"	x	1.75"	6/64"	500	21	84	5200	64	-	-	45 min.
3.	3"	x	1.75"	8/64"	505	34	83	4775	63	-	-	45 min.
4.	3"	x	1.75"	12/64"	530	67	83	4400	64	-	-	30 min.
5.												

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w p_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1.	20.15	70.94	503.2	.9768	1.292	1.040	1876
2.	20.15	103.81	513.2	0.9777	1.292	1.040	2748
3.	20.15	132.74	518.2	0.9786	1.292	1.049	3547
4.	20.15	183.52	543.2	0.9786	1.292	1.045	4886
5.							

NO.	P_t	Temp. °R	%	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/Bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 362 R _____ R

Eq. $7468.2 \quad P_t^2 = 55.774$

NO.	P_t^2	P_c^2	$P_c^2 - P_t^2$	$\frac{P_c^2}{P_c^2 - P_t^2}$	$\left[\frac{P_c^2}{P_c^2 - P_t^2}\right]^n$
1		6969.2	48.570	7.204	
2		6538.2	42.760	13.026	
3		6405.2	41.072	14.747	
4		5829.2	33.980	21.794	
5					

$P_c^2 = 2.559 \left[\frac{P_c^2}{P_c^2 - P_t^2}\right]^n = 2.073$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_t^2}\right]^n$

Absolute Open Flow 31,107 Mcfd @ 15.025 — Angle of Slope θ — Slope, n .874

Remarks: *Pc & Pw from bottom hole pressure recorder @ (-9328) 13605'

Approved By Commission: — Conducted By: W.V. Merchant — Calculated By: W.V. Merchant — Checked By: D. R. Crockett

BEFORE EXAMINER
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6567 Exhibit No. 5
Submitted by GETTY
Hearing Date 5/14/80

DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

045-HOBCC - Hobbs
1-P.J. Starrak-Tulsa
1-A.R. Casy-Midland
1-BH,Field Clerk

1 - File
1 - NSL, Engr.

Amerada Hess Corp
DRILLING DIV
EXPL. & PROD. DEPT
HOUSTON, TEXAS

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease: STATE [ ] FEE [X]

5. State Oil & Gas Lease No.: LG-6004

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

b. Type of Well: OIL WELL [ ] GAS WELL [X] DRILL [X] DEEPEN [ ] PLUG BACK [ ] SINGLE ZONE [ ] MULTIPLE ZONE [X]

MIDLAND E&P DISTRICT

2. Name of Operator: GETTY OIL COMPANY

8. Farm or Lease Name: GETTY "36" STATE COM.

3. Address of Operator: P.O. BOX 730, HOBBS, NEW MEXICO 88240

9. Well No.: 1

4. Location of Well: Unit Letter J, 1650 FEET FROM THE SOUTH LINE AND 1650 FEET FROM THE EAST LINE OF SECTION 36 TWP. 20S RGE. 33E NMPM

10. Field and Pool, or Wildcat: GRAMA RIDGE

12. County: LEA

19. Proposed Depth: 13,400

19A. Formation: MORROW *

20. Rotary or C.T.: ROTARY

21. Elevations (Show whether DF, RT, GR, etc.): 3674' GL

21A. Kind & Status Plug. Bond: BLANKET

22. Approx. Date Work will start: 2-17-79

Name of Drilling Contractor: SHARP DRILLING COMPANY

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
26"	20"	94	401'	READY MIX	SURFACE
17-1/2"	13-3/8"	48	1100'	1600	SURFACE
12-1/4"	9-5/8"	36	5600'	2600	SURFACE
8-1/2"	7"	26	11700'	3500	SURFACE
6-1/8"	4-1/2"	11.6	13400'	600	LINER TOP

1. The above casing program will be used to drill and test the Morrow Formation, and any other possible productive zones. A KCl-Drispac Mud System will be used, and mud weight will be gradually increased from 8.8#/gallon to 13.0#/gallon, if necessary.

2. See attachments for BOP's and choke manifold.

* Deepest Zone will be Morrow - well could be dual in either Morrow-Strawn; or Morrow-Wolfcamp, depending on the productivity.

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6722 Exhibit No. 6
Submitted by Getty
Hearing Date February 22, 1979

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed ORIGINAL SIGNED BY DALE R. CROCKETT (This space for State Use) Title AREA SUPERINTENDENT Date FEBRUARY 12, 1979

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

/bh

U.S.G.S. RECORDS
BEST AVAILABLE COPY

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101

Revised 1-1-65

DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	
OPERATOR	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. Type of Well: OIL ☐ GAS ☒ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. Name of Operator: GETTY OIL COMPANY

3. Address of Operator: P.O. BOX 730, HOBBS, NEW MEXICO 88240

4. Location of Well: UNIT LETTER J LOCATED 1650 FEET FROM THE SOUTH LINE AND 1650 FEET FROM THE EAST LINE OF SEC. 27 TWP. 17-S RGE. 37-E NMPM

5. Elevation (Show whether DF, RT, GR, etc.): 3747' GL

6. Lease Name or Unit Agreement Name: Mobil Federal Com.

7. Well No.: 1

8. Field and Pool, or Wildcat: Undesignated Wolfcamp

9. Proposed Depth: 13,400

10. Formation: Wolfcamp

11. If Multiple Completion, How Many?: *

12. Rotary or C.T.: ROTARY

13. Drilling Contractor: SUPERIOR DRILLING COMPANY

14. Approx. Date Work will start: 3-27-79

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17½"	13⅜"	48	400'	400	Surface
12¼"	9⅝"	36	4400'	1400	Surface
8¾"	5½"	17	13,400'	1000	9000'

* Deepest Zone will be Morrow -- well could be dual in either Morrow-Strawn or Morrow-Wolfcamp, depending on the productivity.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signed: PAUL E. COUSLEY Title: AREA SUPERINTENDENT Date: February 12, 1979

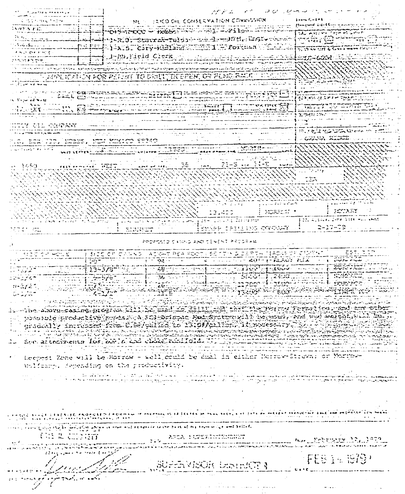
(This space for State Use)

APPROVED BY: [signature] TITLE: SUPERVISOR DISTRICT II DATE: FEB 15 1979

CONDITIONS OF APPROVAL, IF ANY:

V.F.W.C.F. RECORDS

BEST AVAILABLE COPY



cc: 3-NMOCC
H.J. Starrak-Tulsa
H.B. Cary-Midland
File
Foreman

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 14-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
Getty Oil Co.	Getty "36" State	1

Unit Letter	Section	Township	Range	County
F	36	21 South	34 East	Lea

Actual Footage Location of Well:
1900 feet from the North line and 1650 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3674.1		Grama Ridge	640 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

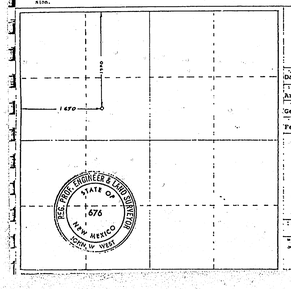
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

[XX] Yes [ ] No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: Dale R. Crockett

Position: Area Superintendent

Company: Getty Oil Company

Date: February 12, 1979

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

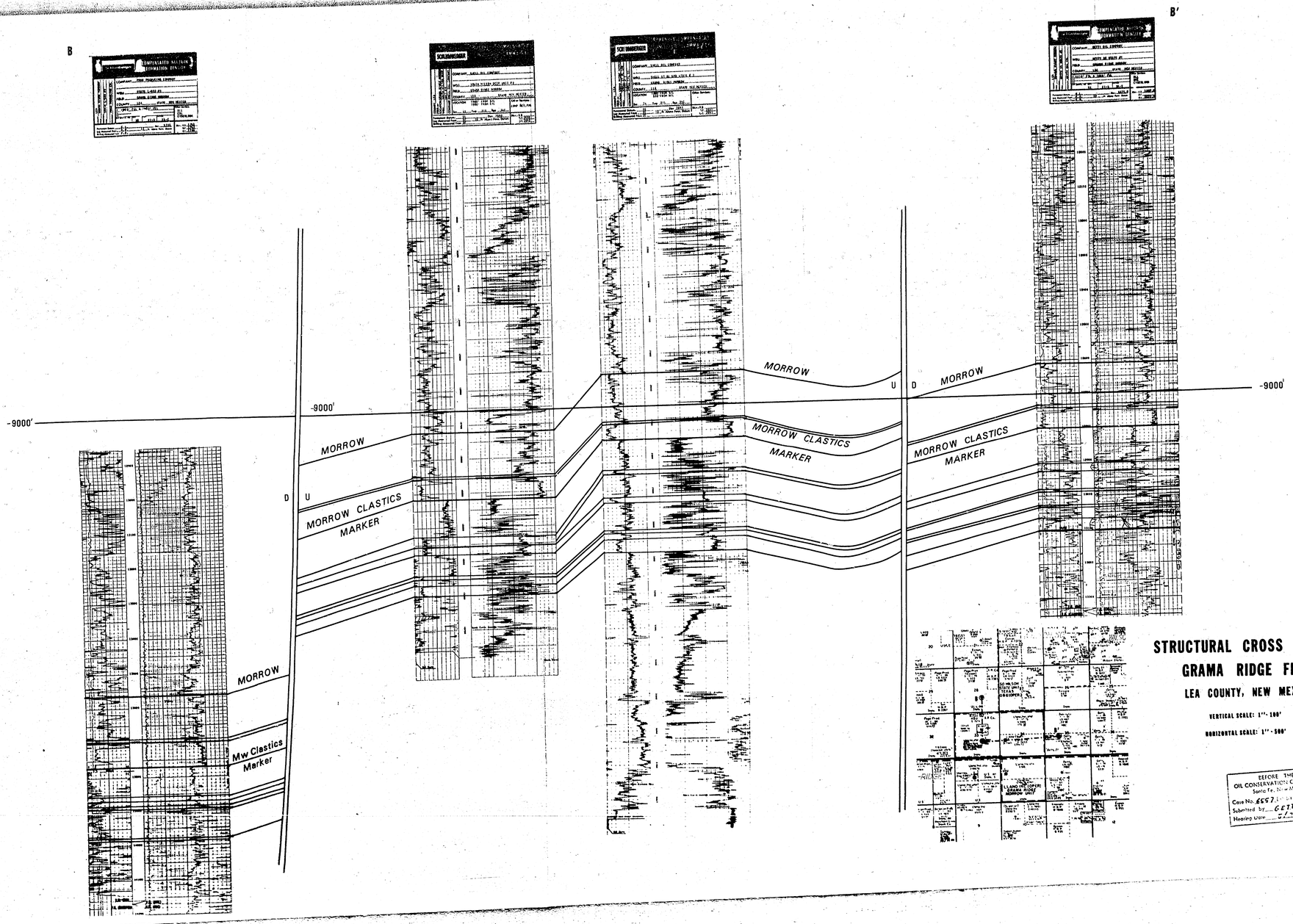
Date Surveyed: February 8, 1979

Registered Professional Engineer and/or Land Surveyor

Certificate No. 1463

B

B'

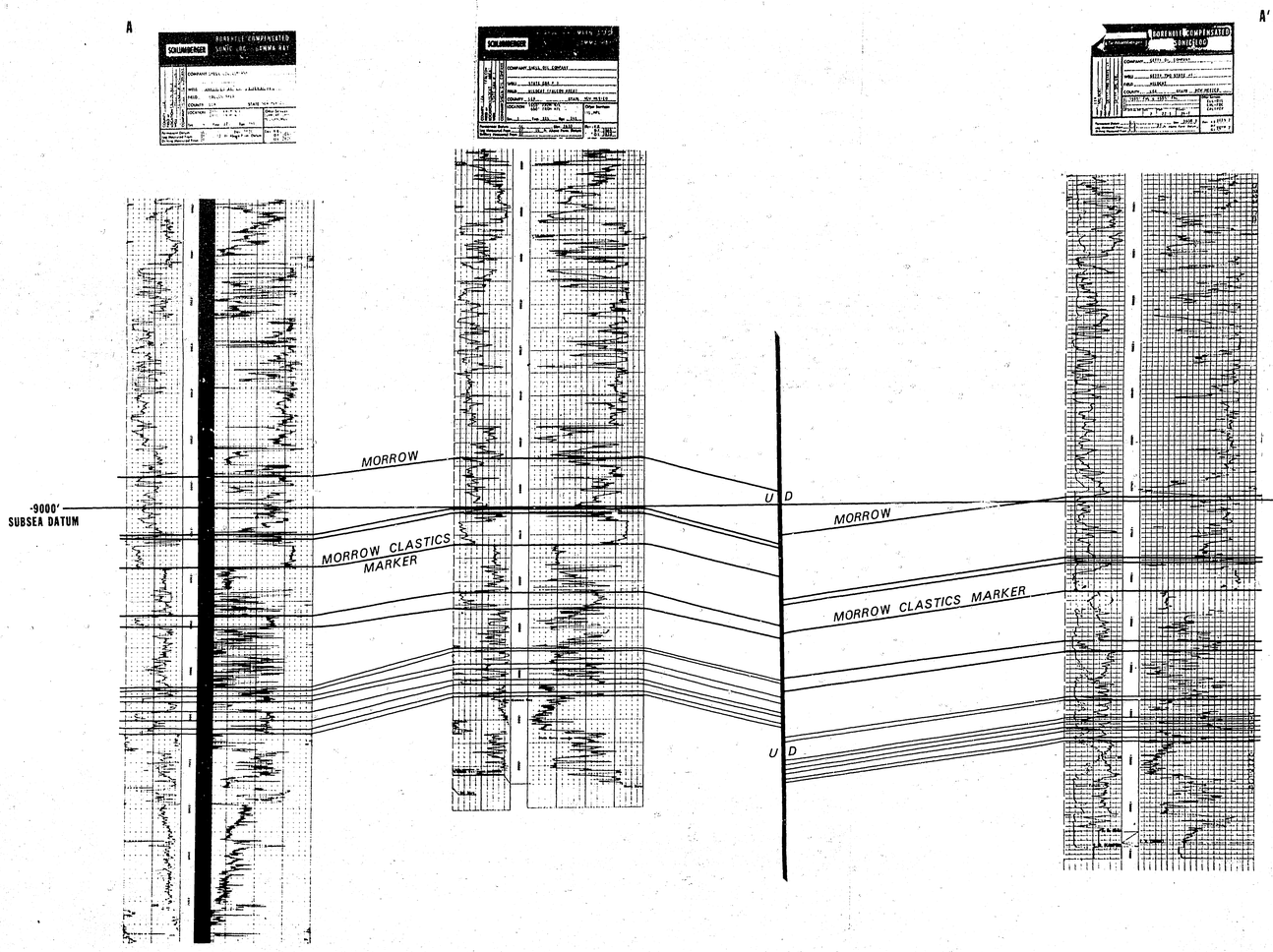


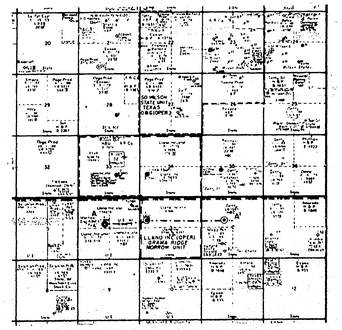
STRUCTURAL CROSS SECTION
GRAMA RIDGE FIELD
LEA COUNTY, NEW MEXICO

VERTICAL SCALE: 1" - 100'

HORIZONTAL SCALE: 1" - 500'

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6557 Exhibit No. 7
Submitted by: GETTY
Hearing Date: 6/28/79





STRUCTURAL CROSS SECTION
GRAMA RIDGE FIELD
LEA COUNTY, NEW MEXICO

VERTICAL SCALE 1" - 100'
HORIZONTAL SCALE 1" - 500'

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6587 Exhibit No. 8
Submitted by Getty
Hearing Date 5-29-79

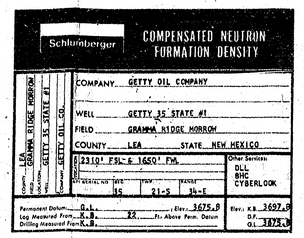
C

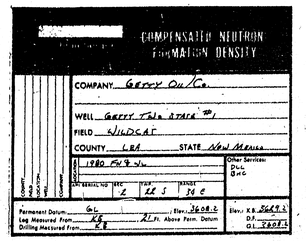
STRUCTURAL CROSS SECTION
GRAMA RIDGE FIELD
LEA COUNTY, NEW MEXICO

VERTICAL SCALE 5" = 100'

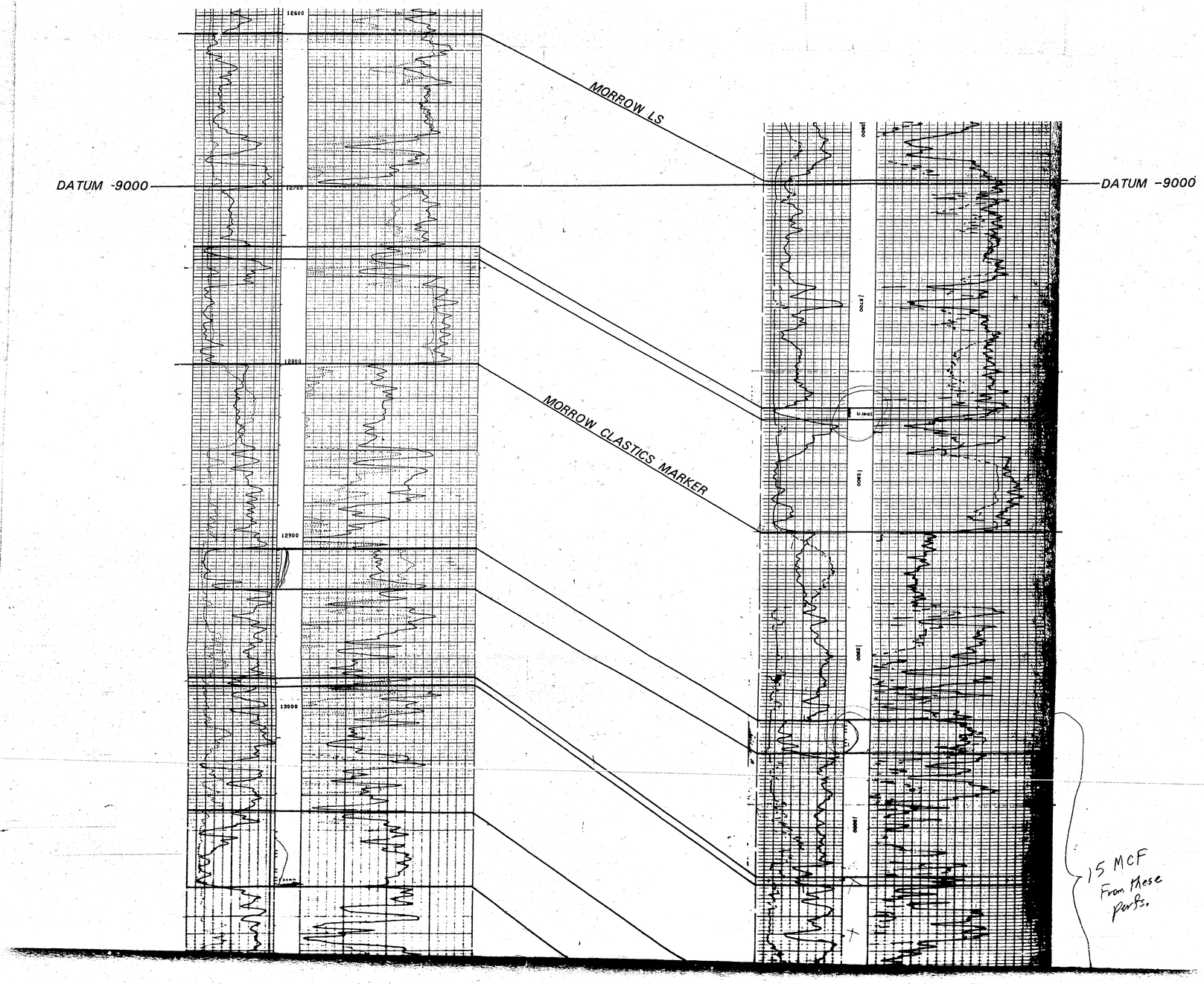
HORIZONTAL SCALE 1" = 250'

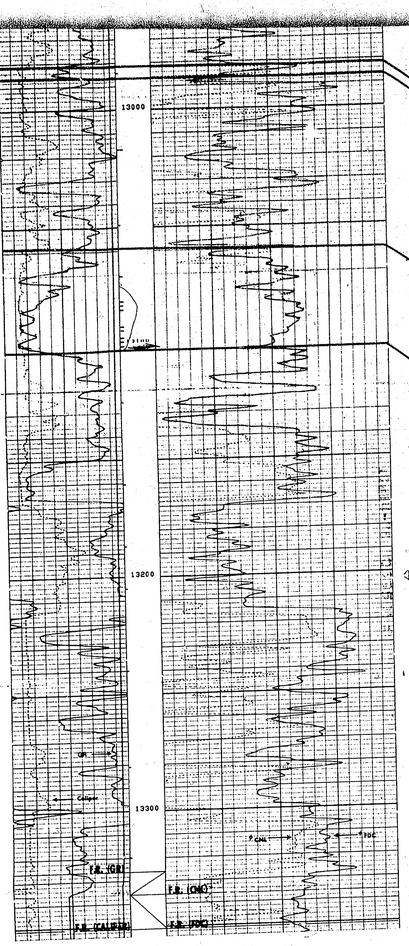
C'

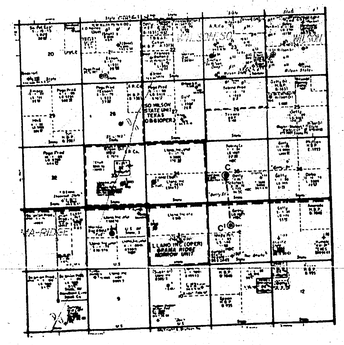


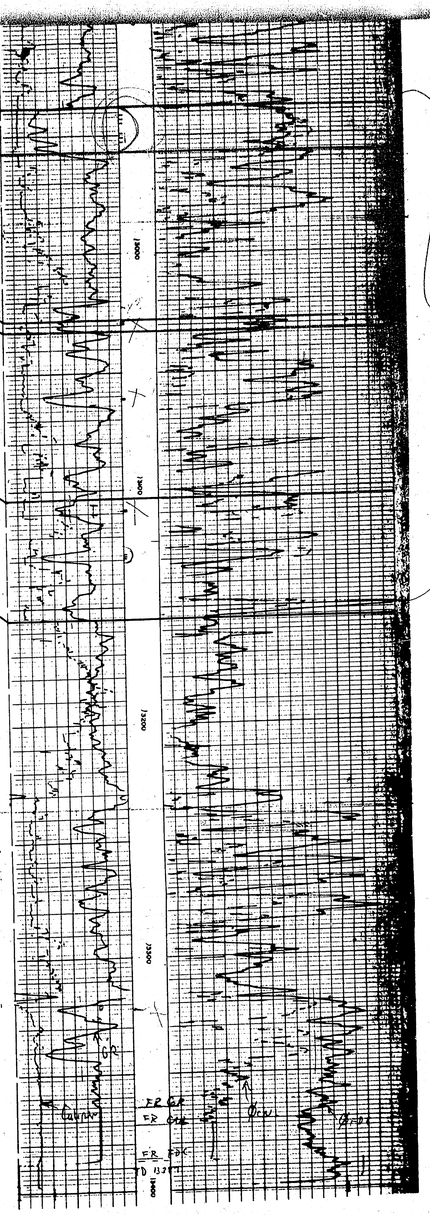


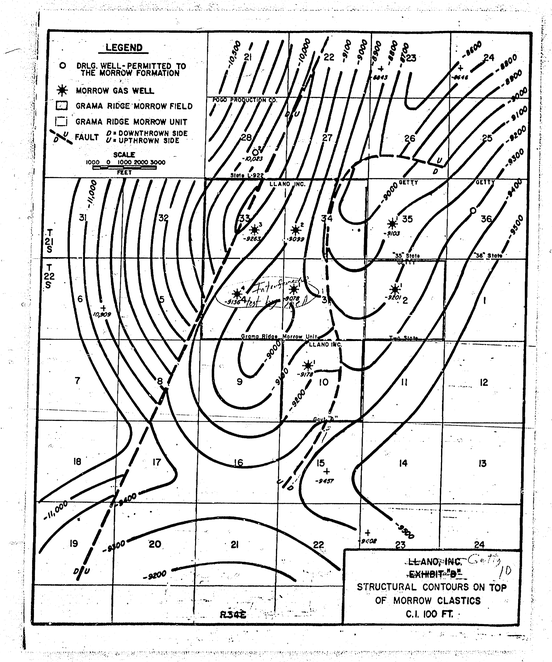
BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6557 Exhibit No. 9
Submitted by GETTY
Hearing Date 5/29/79




13000
13200
13300
F.E. (GR)
F.E. (CNL)
F.E. (CALIPER)
F.E. (FDC)
BHP 7468.2 PSI

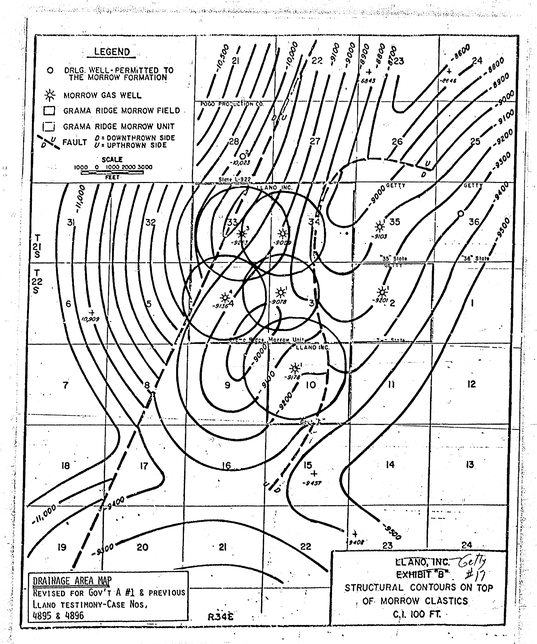


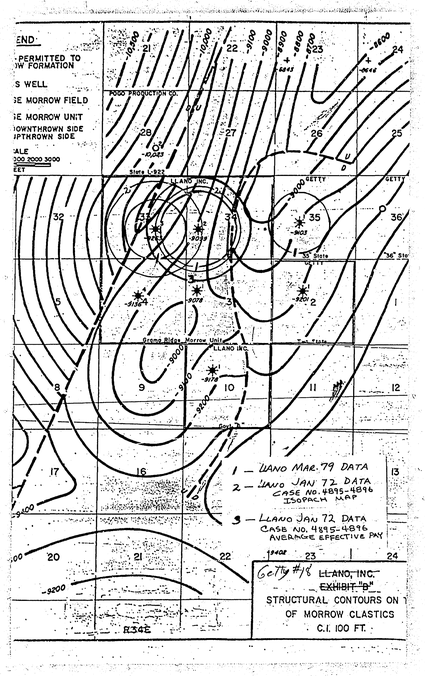

13000
13200
13300
15 MCF
From these
perfs.
FE GR
FE CNL
FE FDC
TD 13271


LEGEND
DRLG WELL - PERMITTED TO THE MORROW FORMATION
MORROW GAS WELL
GRAMA RIDGE MORROW FIELD
GRAMA RIDGE MORROW UNIT
FAULT D = DOWNTHROWN SIDE U = UPTHROWN SIDE
SCALE
1000 0 1000 2000 3000
FEET
LLANO, INC.
SETEY
T 21 S
T 22 S
R 34 E
LLANO, INC. - Getty
EXHIBIT "B"
STRUCTURAL CONTOURS ON TOP OF MORROW CLASTICS
C.I. 100 FT.

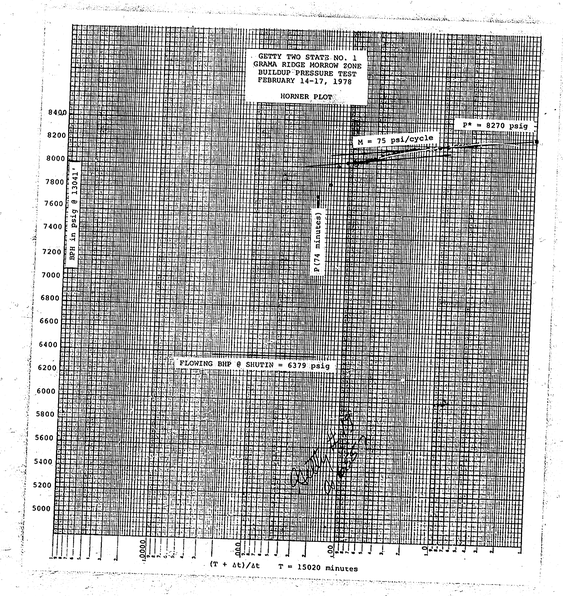
V.E.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

LEGEND
DRLG. WELL-PERMITTED TO THE MORROW FORMATION
MORROW GAS WELL
GRAMA RIDGE MORROW FIELD
GRAMA RIDGE MORROW UNIT
FAULT D = DOWNTHROWN SIDE U = UPTHROWN SIDE
SCALE
1000 0 1000 2000 3000
FEET
DRAINAGE AREA MAP
CALCULATED DRAINAGE AREA (LLANO)
CALCULATED DRAINAGE AREA-GOV'T A AT PRESENT
CALCULATED DRAINAGE AREA-GOV'T A AT DEPLETION
LLANO, INC. Getty
EXHIBIT "B" #4
STRUCTURAL CONTOURS ON TOP
OF MORROW CLASTICS
C.I. 100 FT.


LEGEND
DRLG WELL - PERMITTED TO THE MORROW FORMATION
MORROW GAS WELL
GRAMA RIDGE MORROW FIELD
GRAMA RIDGE MORROW UNIT
FAULT D = DOWNTHROWN SIDE U = UPTHROWN SIDE
SCALE
1000 0 1000 2000 3000
FEET
T 21 S
T 22 S
R34E
Grama Ridge Morrow Unit
LLANO INC
GETTY
DRAINAGE AREA MAP
REVISED FOR GOV'T A #1 & PREVIOUS LLANO TESTIMONY-CASE Nos. 4895 & 4896
LLANO, INC.
EXHIBIT "B" Getty #17
STRUCTURAL CONTOURS ON TOP OF MORROW CLASTICS
C.I. 100 FT.



U.S.G.S. RECORDS
BEST AVAILABLE COPY


GETTY TWO STATE NO. 1
GRAMA RIDGE MORROW ZONE
BUILDUP PRESSURE TEST
FEBRUARY 14-17, 1978
HORNER PLOT
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
MPH at psig @ 13047'
P/Z (minutes)
M = 75 psi/cycle
P* = 8270 psig
FLOWING BHP @ SHUTIN = 6379 psig
(T + Δt)/Δt
T = 15020 minutes

DATA SHEET

Getty Two State Well No. 1
Gramma Ridge Morrow Field
Pressure Buildup Test No. 1
February 14-17, 1978

Horner Plot of the captioned test is attached. The interpretation of this plot is as follows:

1. No boundaries are present.
2. The plot reflects a two-layer reservoir performance.
3. The P*, initial reservoir pressure, is 8,270 psig.

Summary of Kh calculations:

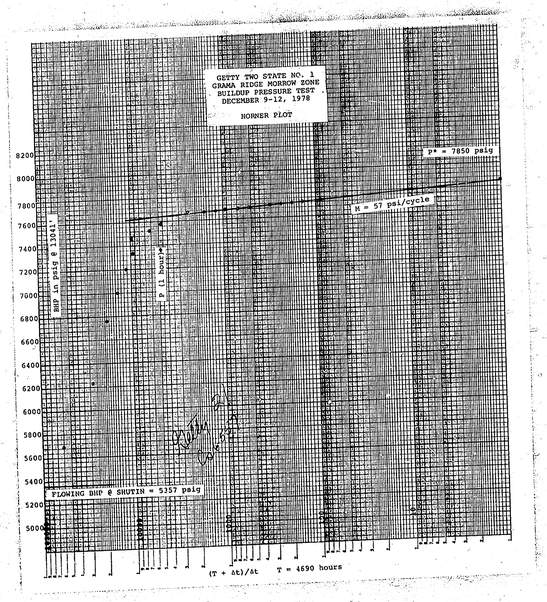
1. The stabilized production rate was 1798 MCF/D or 320,214 B/D.
2. Gas viscosity was 0.03484 cp.
3. Bg, reservoir gas volume factor, was 2.79 $(10)^{-3}$ ft/SCF.
4. Horner Plot slope is 75 psi/ cycle.
5. Kh is 67.5 md.-ft.
6. K based 32' net pay is 2.0 m.d.

Conclusion:

1. No boundary is indicated.
2. Permeability is moderate.
3. The reservoir parameters in the area of the wellbore should efficiently deplete a 640 acre proration unit.

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 657 Exhibit No. 2
Submitted by Getty
Hearing Date 5-23-78

U.S.G.S. RECONNAISSANCE
NOT AVAILABLE FOR



V.P.I.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

DATA SHEET

Getty Two State Wall No. 1
Gramma Ridge Morrow Field
Pressure Buildup Test No. 2
December 9-12, 1978

Horner plot of the captioned test is attached. The interpretation of this plot is as follows:

1. No boundaries are present.
2. A single-layer reservoir type plot is shown as compared to a two-layer type indicated by pressure buildup test No. 1.
3. P^*, reservoir pressure, was 7850 psig compared to test No. 1 P^* of 8270 psig, or a decrease of 420 psi.

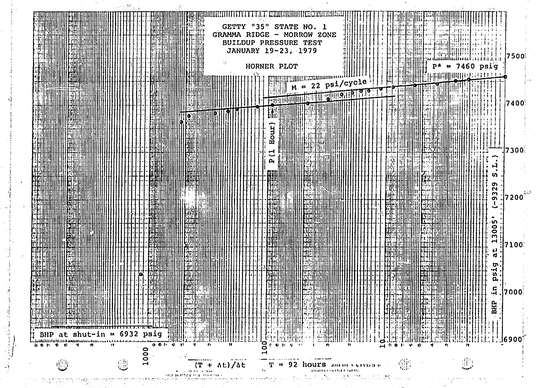
Summary of Kh Calculations:

1. The stabilized production rate was 1,527 MCF/D or 271,950 Bbls. gas/D.
2. Gas viscosity was 0.03323 cp.
3. B_g, reservoir gas volume factor, was $(2.85)(10)^{-3}$ ft^3/ft^3
4. Horner Plot slope is 57 psi/cycle
5. Kh was 73.5 md. ft.
6. K based on 33 net feet pay is 2.2 m.d.

Conclusions:

1. No boundary is indicated.
2. The permeability is moderate and slightly increased as compared to the previous buildup test.
3. The reservoir parameters in the area of the wellbore should efficiently deplete a 640 acre proration unit.

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6557 Exhibit No. #2
Submitted by Getty
Hearing Date 5-30-79


GETTY "35" STATE NO. 1
GRAMMA RIDGE - MORROW ZONE
BUILDUP PRESSURE TEST
JANUARY 19-23, 1979
HORNER PLOT
m = 22 psi/cycle
p* = 7460 psig
BHP at shut-in = 6932 psig
BHP in psig at 11065' (-9329 S.L.)
P(1 Hour)
(T + Δt)/Δt
t = 92 hours
7500
7400
7300
7200
7100
7000
6900
1000
100
10

DATA SHEET

Getty "35" State Well No. 1
Gramma Ridge - Morrow Field
Pressure Buildup Test No. 1
January 19-23, 1979

Horner Plot of the captioned test is attached. The interpretation of this plot is as follows:

1. No boundaries are present.
2. The plot reflects a two-layer reservoir performance.
3. The P*, initial reservoir pressure, is 7,460 psig.

Summary of Kh calculations:

1. The stabilized production rate was 1437 MCF/day or 255,922 Bbls./day.
2. The gas viscosity is 0.03224 cp at reservoir conditions.
3. Bg, reservoir gas volume factor, is 2.88×10^{-3} cuft./SCF
4. Horner Plot slope is 22 psi/cycle.
5. Kh is 175.6 m.d. - ft.
6. Based on 32 productive feet, permeability is 5.5 m.d.

Conclusions:

1. No boundary is indicated.
2. Permeability is good, being greater than calculated for Getty Two State Well No. 1
3. The reservoir parameters in the area of the wellbore should efficiently deplete a 640 proration unit.
4. The lower initial pressure at the Getty "35" State reflects pressure communication with the Getty Two State.

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6157 Exhibit No. 14
Submitted by Getty
Hearing Date 5-29-79

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TABULATION OF PRODUCTION
GRAMA RIDGE MORROW FIELD

		Condensate Bbls.	Gas MCF
Getty "2" State Well No. 1	May, 1978		488
	June		44,926
	July	294	54,354
	Aug.	497	53,410
	Sept.	367	39,074
	Oct.	355	48,991
	Nov.	364	45,131
	Dec.	476	43,649
	TOTAL	2,353	330,023
	Jan.	515	51,769
	Feb.	480	47,340
	Mar.	518	53,251
	Apr.	480	51,158
CUM. (5-1-79)		4,346	533,541

CURRENT PRODUCTION RATE

1700 MCFPD, 16 BC, 8 BW, 7/64" ch., 3150 psi T.P.

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6557 Exhibit No. 25
Submitted by Getty
Hearing Date 5/29/79

U.S.G.S. RECORDS
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V.P.I.&S.U. LIBRARIES
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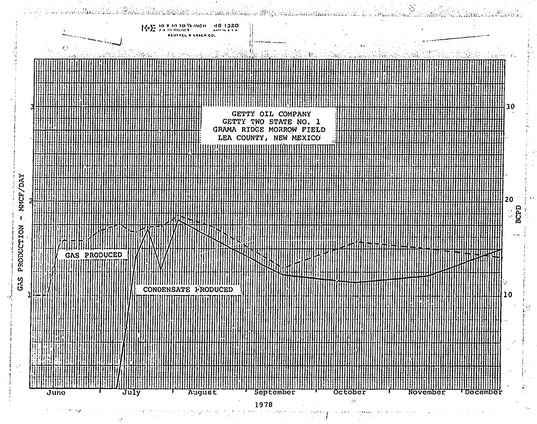

V.P.I.&S.U. MICROGRAPHICS
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TABULATION OF PRODUCTION
GNAMA RIDGE MORROW FIELD

		Condensate Bbls.	Gas MCF
Getty "35" State Well No. 1	Jan.	121	22,015
	Feb.	369	90,469
	Mar.	692	125,300
	Apr.	365	112,449
CUM. (5-1-79)		1,547	350,233

CURRENT PRODUCTION RATE

3.7-3.9 MMCFD, 17 BC, 65 BW, 12/64" ch., 4400 psi T.P.

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6757 Exhibit No. 28
Submitted by Getty
Hearing Date 5-29-79

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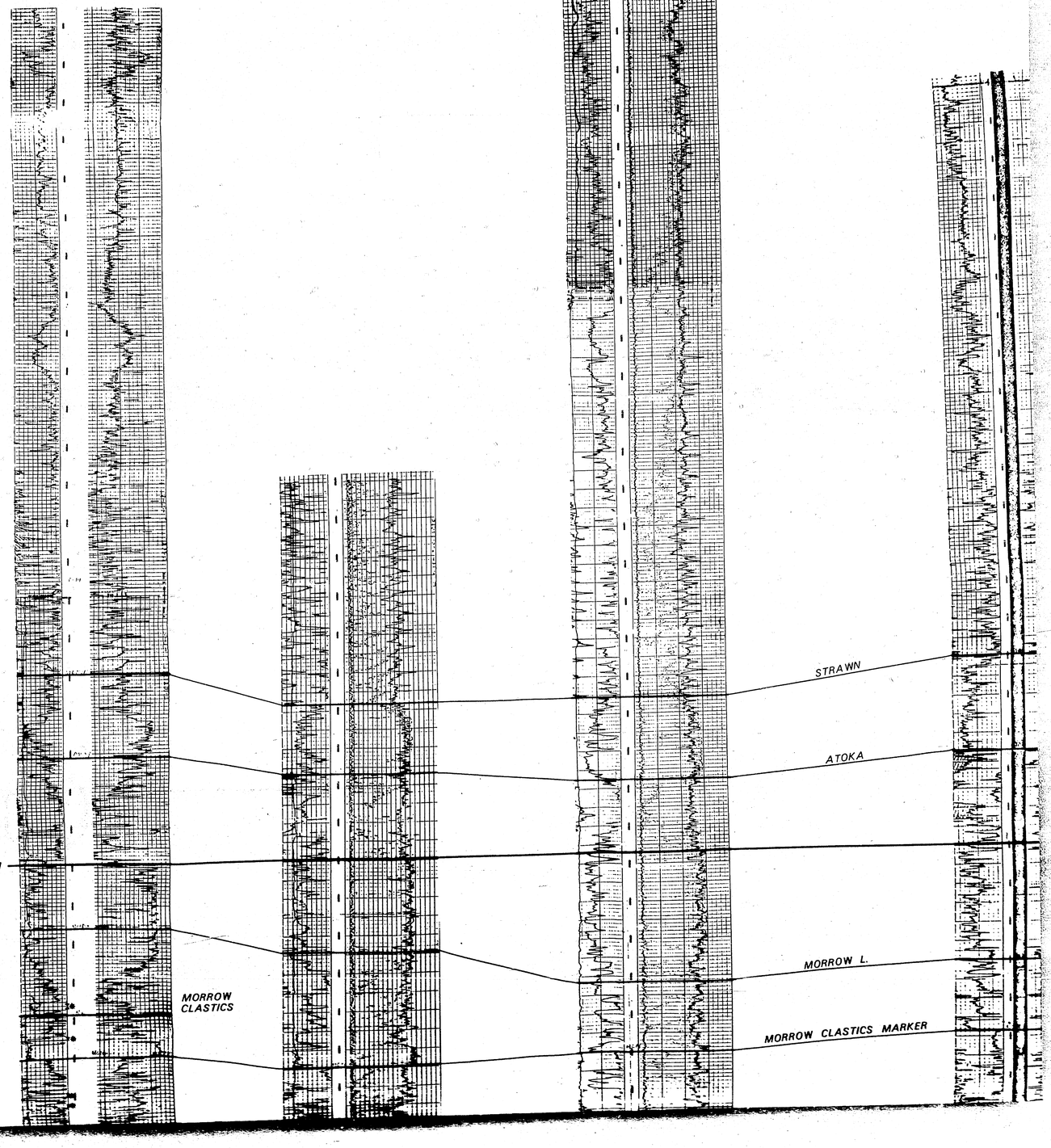
GETTY OIL COMPANY
GETTY "35" STATE NO. 1
GRAMA RIDGE MORROW FIELD
LEA COUNTY, NEW MEXICO
GAS PRODUCED
CONDENSATE PRODUCED
GAS PRODUCTION - MMCF/MONTH
CONDENSATE PRODUCTION - BBL/MONTH
100
10
1
100
10
1
1978
1979
1980
1981
1982

D

1

2

3


STRAWN
ATOKA
DATUM
MORROW L.
MORROW CLASTICS
MORROW CLASTICS MARKER

STRAWN

ATOKA

DATUM

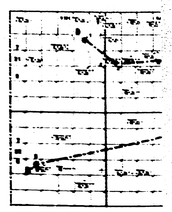
MORROW CLASTICS

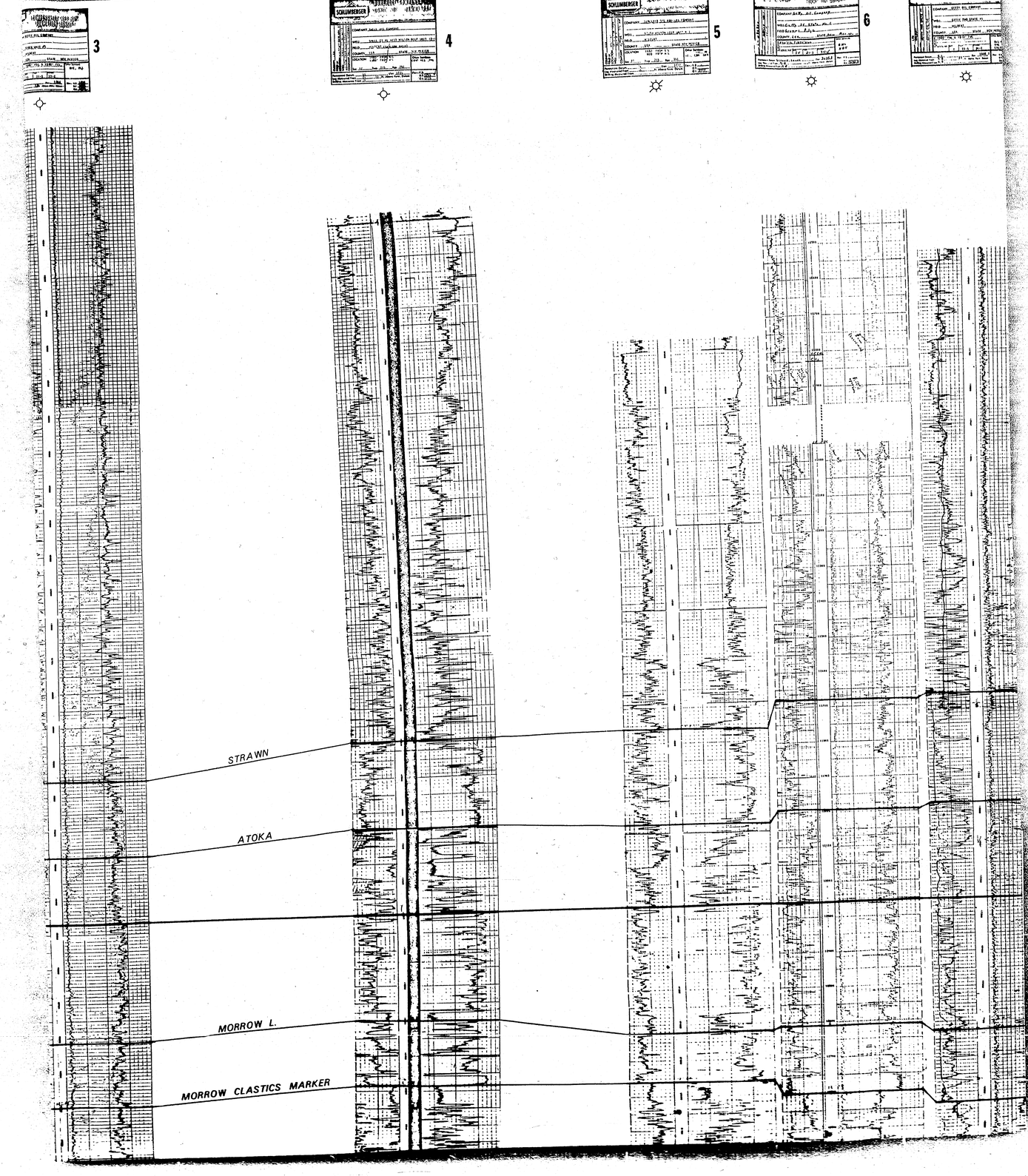
MORROW L.

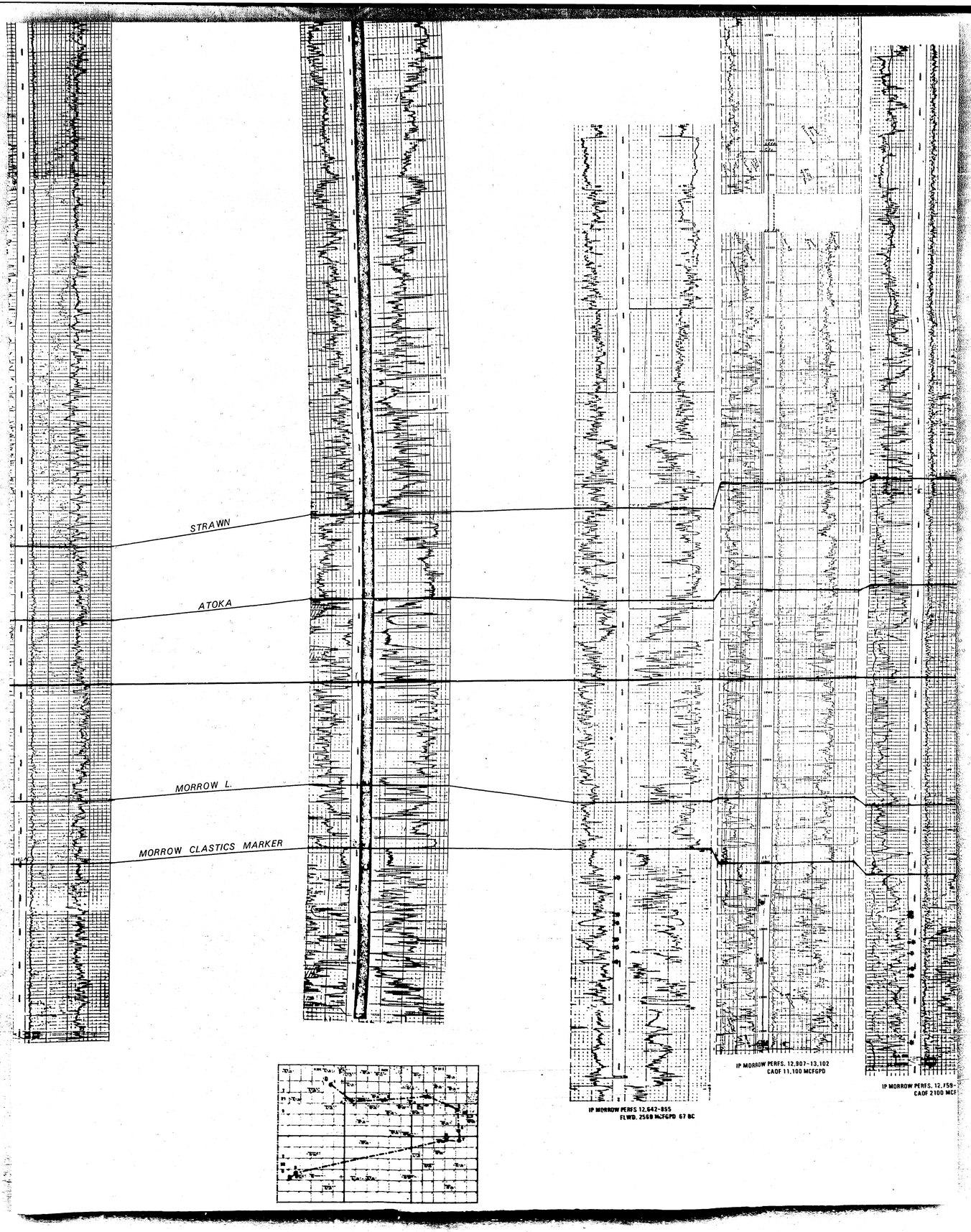
MORROW CLASTICS MARKER

FORMATION TOPS FROM PENNSYLVANIAN STRATIGRAPHIC CROSS SECTION F-F' 8-74

IP MORROW PERFS. 13,656-14,138
CAOF 7514 MCFG/PD




STRAWN
ATOKA
MORROW L.
MORROW CLASTICS MARKER


STRAWN
ATOKA
MORROW L.
MORROW CLASTICS MARKER
IP MORROW PERFS 12,642-855
FLWD. 2568 MCFGPD 67 BC
IP MORROW PERFS. 12,907-13,102
CAOF 11,100 MCFGPD
IP MORROW PERFS. 12,759-
CAOF 2100 MCF

4 5 6 7 8 9 D'

STRAWN

ATOKA

DATUM

MORROW L.

MORROW CLASTICS MARKER

V.P.R.C.F. RECREATIONAL
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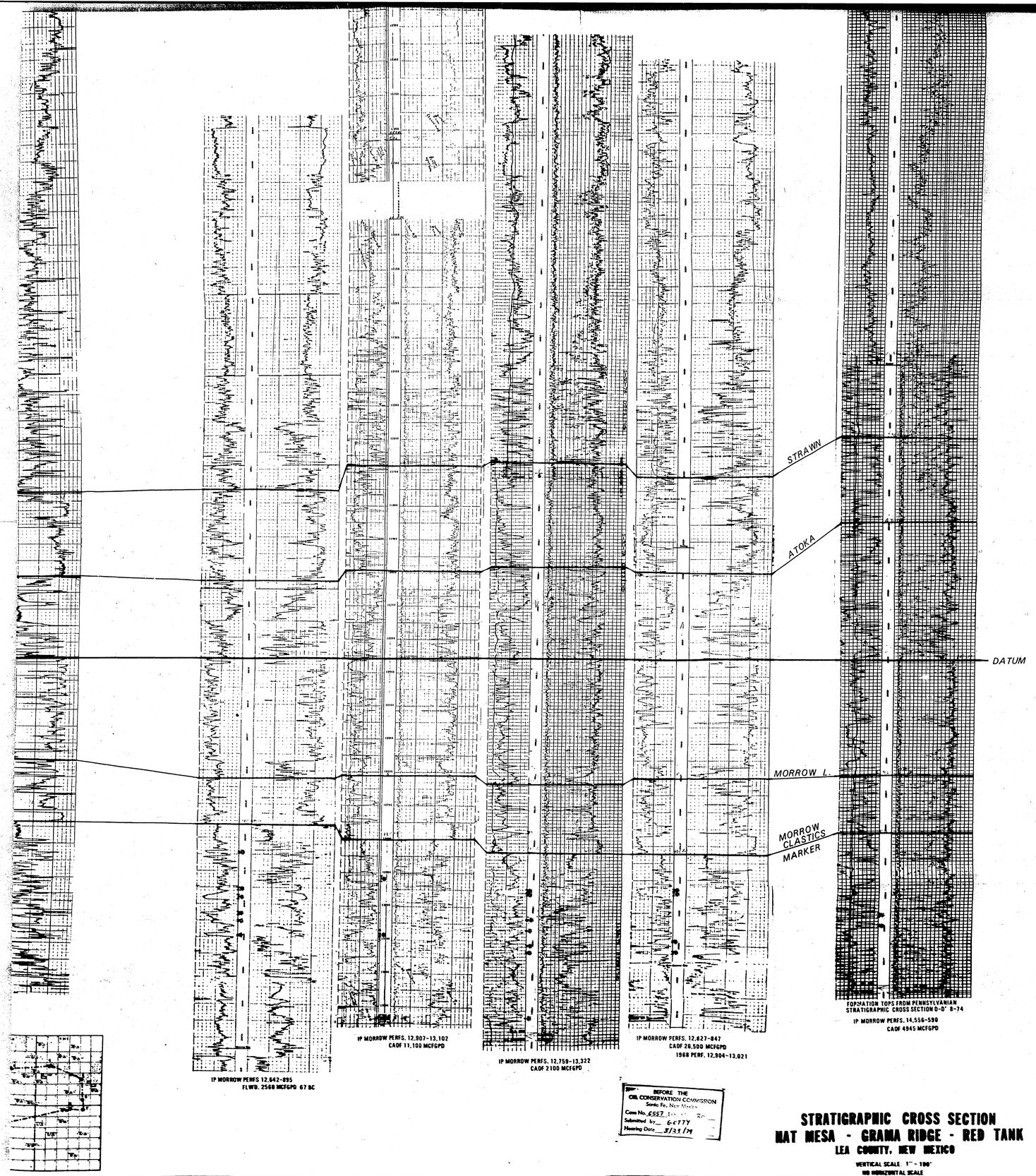

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6557 Exhibit No.
Submitted by GETTY
Hearing Date 9/11/74

STRATIGRAPHIC CROSS SECTION
MAT MESA - GRAMA RIDGE - RED TANK
LEA COUNTY, NEW MEXICO

VERTICAL SCALE 1" = 100'
NO HORIZONTAL SCALE

V.R.J.C.Y. MICROMEDIA
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LEGEND
DRLG WELL-PERMITTED TO THE MORROW FORMATION
MORROW GAS WELL
GRAMA RIDGE MORROW FIELD
GRAMA RIDGE MORROW UNIT
FAULT D = DOWNTHROWN SIDE U = UPTHROWN SIDE
SCALE
1000 0 1000 2000 3000
FEET
T 21 S
T 22 S
R 34 E
Grama Ridge Morrow Unit
LLANO INC.
GETTY
- RADIUS OF 1650' (CURRENT LOCATION REQUIREMENT)
- DRAINAGE AREA OF 640 ACRES
BEFORE THE OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6 5 5 Exhibit No. 3
Submitted by Getty
Hearing Date 8/9/81
LLANO, INC. Getty
EXHIBIT "B" #3
STRUCTURAL CONTOURS ON TOP OF MORROW CLASTICS
C.I. 100 FT.

END
PERMITTED TO
W FORMATION
S WELL
E MORROW FIELD
E MORROW UNIT
OWNTHROWN SIDE
PTHROWN SIDE
LE
00 2000 3000
ET
POGO PRODUCTION CO.
LLANO INC.
SETTY
Grama Ridge Morrow Unit
Tex-Sets
R34E
Getty #3 - LLANO, INC.
- EXHIBIT "B" -
STRUCTURAL CONTOURS ON T
OF MORROW CLASTICS
C.I. 100 FT.