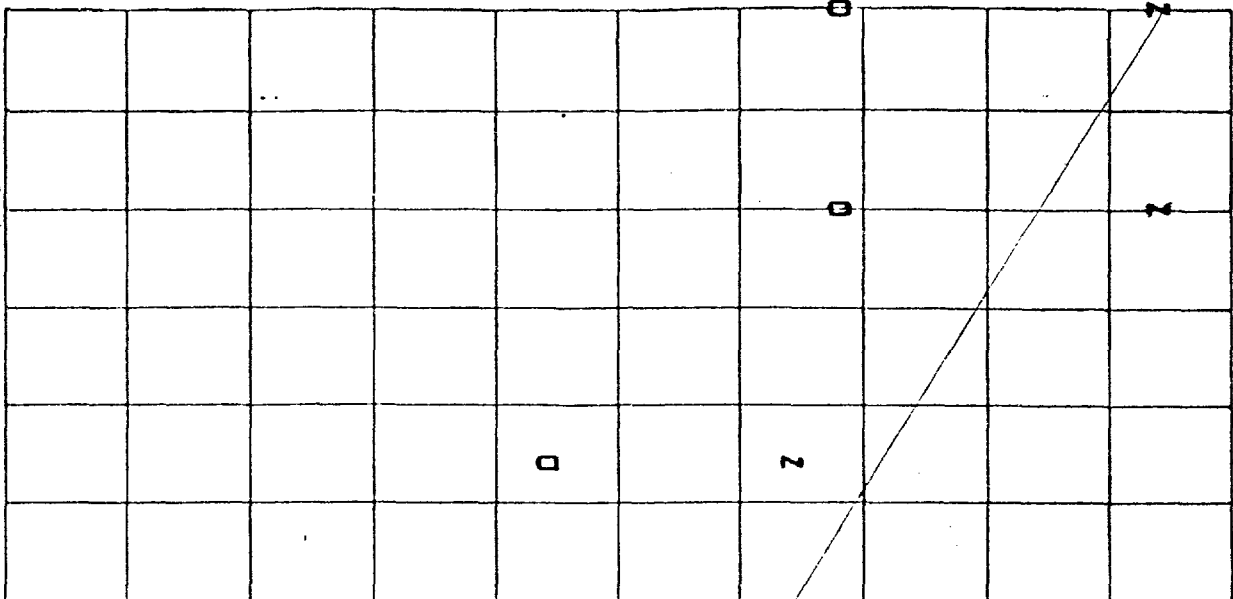

1.117

000

129

[illegible]

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EXHIBIT NO. 6
CASE NO. 6398
Submitted by TXO
Hearing Date 12-7-'28

RESERVE ESTIMATE - GAS RESERVOIR

COMPANY: HANAGAN PETROLEUM CORP WELL & NO.: NAN-BET COM NO.1

LOCATION: E-19-21-26

FIELD CATCLAW DRAW MORROW RESERVOIR MORROW

RESERVOIR DATA

INITIAL BHP	<u>4582</u>	+14.65 =	<u>4597</u>	psig
ABANDONMENT BHP	<u>550</u>	+14.65 =	<u>565</u>	psig
BH TEMPERATURE	<u>160</u>	+ 460 =	<u>620</u>	^{OR}
GAS GRAVITY	<u>.6</u>	: _{P_c}	<u>671</u>	, _{T_c} <u>358</u>
LOG - ϕ =	<u>.07</u>			
	F =			
LOG - R_T =				
@RW= .055 S_W =	<u>.21</u>			
THICKNESS				

ORIG Z: $P_I = P = \frac{(4597)}{P_c (671)} = \underline{6.851}$, $T_I = T = \frac{(620)}{T_c (358)} = \underline{1.732} \therefore z_o = \underline{.965}$

ABAND Z: $P_I = \frac{(565)}{(671)} = \underline{.842}$, $T_I = \frac{(\quad)}{(\quad)} = \underline{1.732} \therefore z_a = \underline{.954}$

$B_{go} = \frac{35.35 P}{z_o T} = \frac{35.35 (4597)}{(.965) (620)} = \underline{271.61} \text{ SCF/FT}^3$

$B_{ga} = \frac{35.35 P}{z_a T} = \frac{35.35 (565)}{(.954) (620)} = \underline{33.77} \text{ SCF/FT}^3$

$\Delta B_g = \underline{237.84} \text{ SCF/FT}$

ULTIMATE RECOVERY

= 43.560 x ϕ x (1-SW) x ΔB_g x Acres x Ft.

= 43.560 (.07) (1-.21) (237.84) (X) (14) = 6138,000 MCF X = 765 acres

= 43.560 (.) (1-.) () () () = MCF

= 43.560 (.) (1-.) () () () = MCF

= 43.560 () (1-.) () () () = MCF

BEFORE EXAMINER STAMETS
OIL CONSERVATION TOTAL RESERVES = MCF

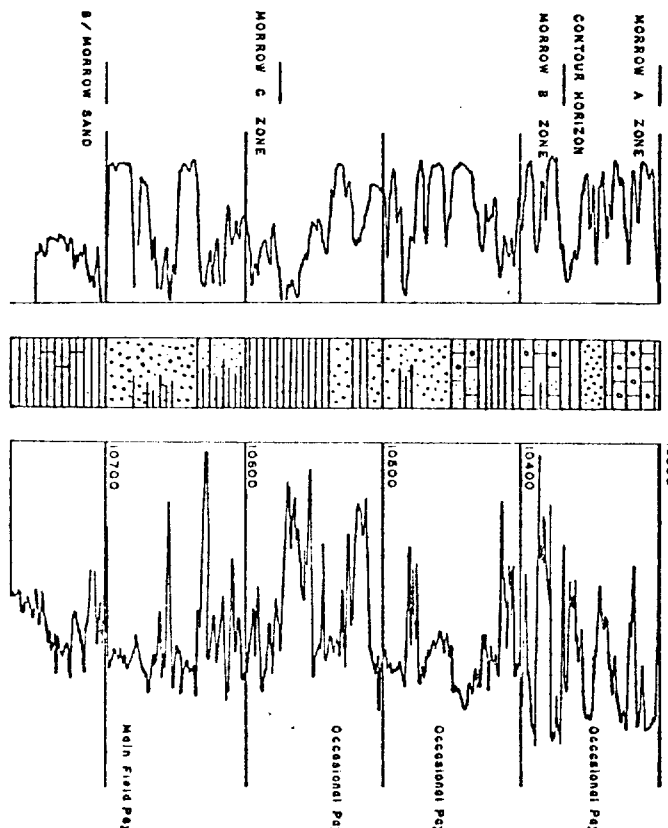
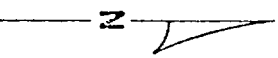
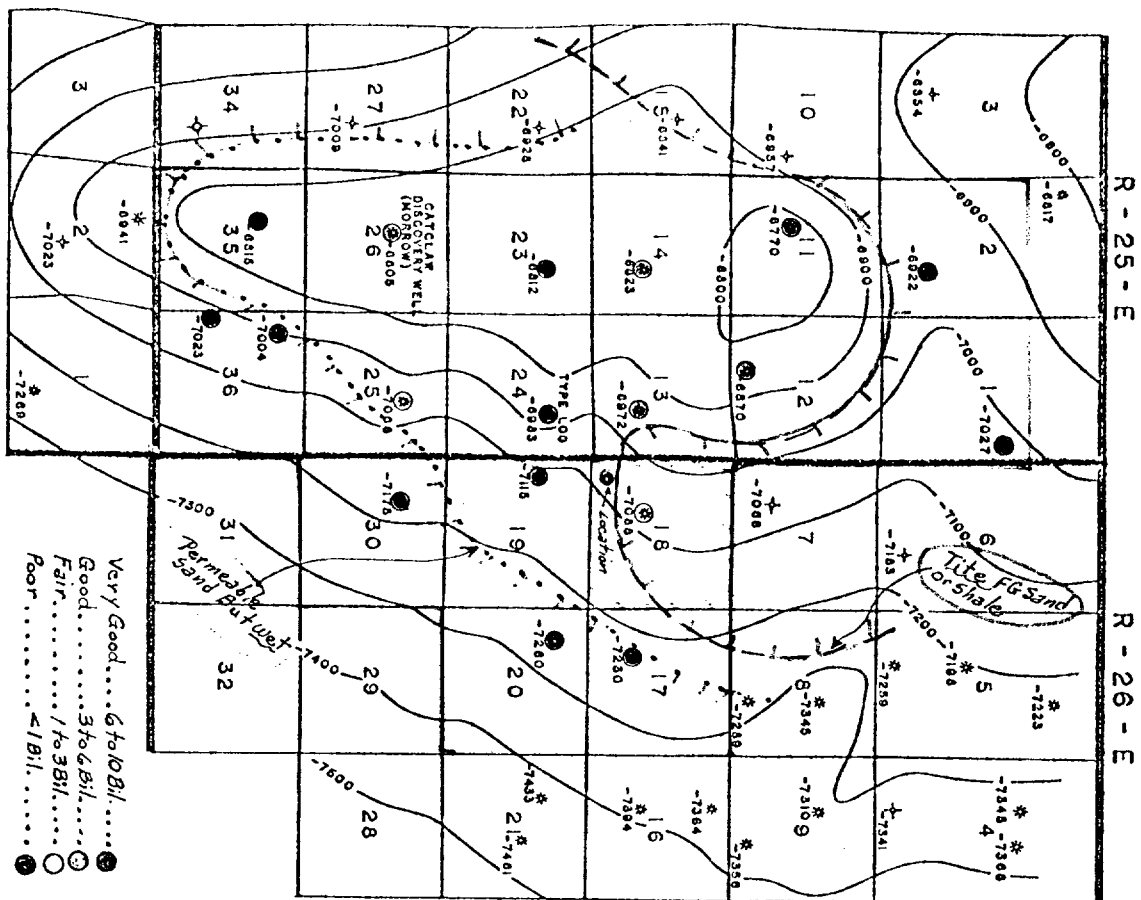
EXHIBIT NO. 7

CASE NO. 6398

Submitted By TXO

Hearing Date 12-7-78

Radial drainage radius for 765 acres = 3257'



TYPE LOG
HANAGAN PETROLEUM CORPORATION
Section 4, T21S, R25-E
Elevation, 3267 (K&B)
Scale: 1" = 100'

CATCLAW DRAW MORROW GAS
EDDY COUNTY,
NEW MEXICO
STRUCTURE CONTOURS ON TOP OF MORROW B ZONE
CONTOUR INTERVAL 100'
Scale in miles
0 1/2 1 2
S. D. HANSON
APRIL 1978

EXHIBIT NO. 2
CASE 6398 (12/7/78)
Catclaw Draw Morrow Field
Eddy County, New Mexico
Hanagan Petroleum Corporation

arrow
mp. 8/1/72
OF 11,700 MCF
0536-724
1750
A 16,000
omp. Morrow
10/174
00 MCF +
3D + 25 BW
10460-724
1500
Frac 29000
30,000 #

cum. Mor.
roduction
147,175 MCF

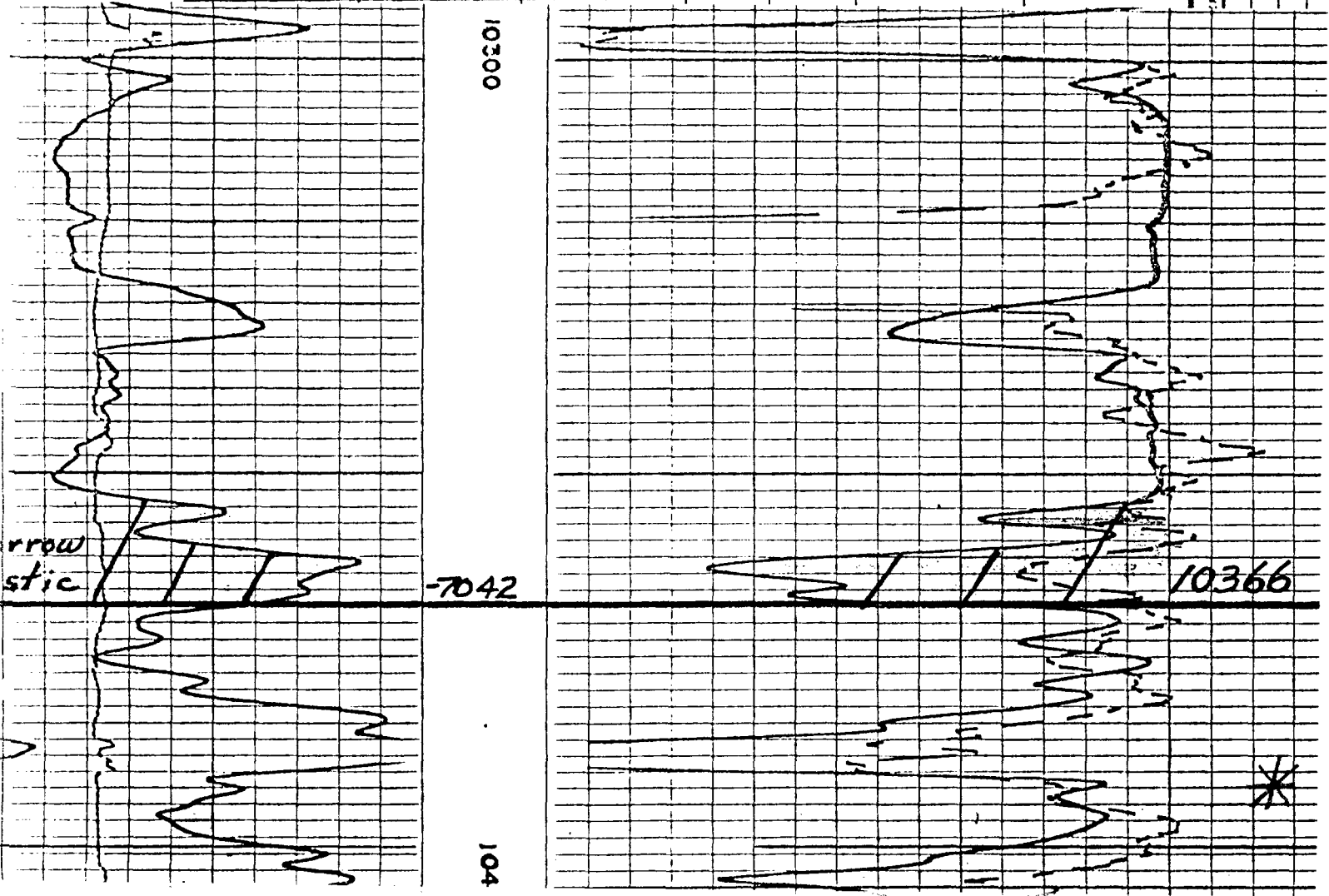
Schlumberger

COMPENSATED NEUTRON
FORMATION DENSITY

COUNTY EDDY FIELD or WILDCAT LOCATION MCMINN STATE #1 WELL COMPANY INEXCO OIL CO.	COMPANY INEXCO OIL COMPANY						
	FILE COPY						
	WELL MCMINN STATE #1						
	FIELD WILDCAT						
	COUNTY EDDY	STATE NEW MEXICO					
	Location: 1980' FSL & 1980' FWL	Other Services: BHC, DIL, PML					
	Sec. 18 Twp. 21-S Rge. 26-E						
Permanent Datum: G.L. ; Elev.: 3310		Elev.: K.B. 3324					
Log Measured From K.B. , 14 Ft. Above Perm. Datum		D.F. -					
Drilling Measured From K.B.		G.L. 3310					
Date	6-28-72						
Run No.	ONE						
Type Log	EPI-NEUTRON						
Depth—Driller	10800						
Depth—Logger	10785						
Bottom logged interval	10784 HANAGAN AND HANAGAN						
Top logged interval	7500 P. O. Box 1737						
Type fluid in hole	FRESH ROSWELL, NEW MEXICO						
Salinity, PPM Cl.	11000						
Density	9.9						
Level	FULL						
Max rec. temp., deg F.	160						
Operating rig time	6 HOURS						
Recorded by	BRYAN, GORRELL						
Witnessed by	MOONEY						
RUN BORE-HOLE RECORD CASING RECORD							
No.	Bit	From	To	Size	Wgt.	From	To
1	7/8	2100	10800	8 5/8		0	2100

The well name, location and borehole reference data were furnished by the customer.

EQUIPMENT DATA				Location	
CNP-A	CNC-A	CNB-A	NSR-Q	Decent. Spg. Used	Logging Unit
90	77	77	876	X Yes ☐ No ☐	7645 HOBBS
			96	X Yes ☐ No ☐	



stie 1 1 1 5 -7042 10366

10400

-7088

10412

60

78

82

90

10500

36

44

-7272

10600

1A

1059

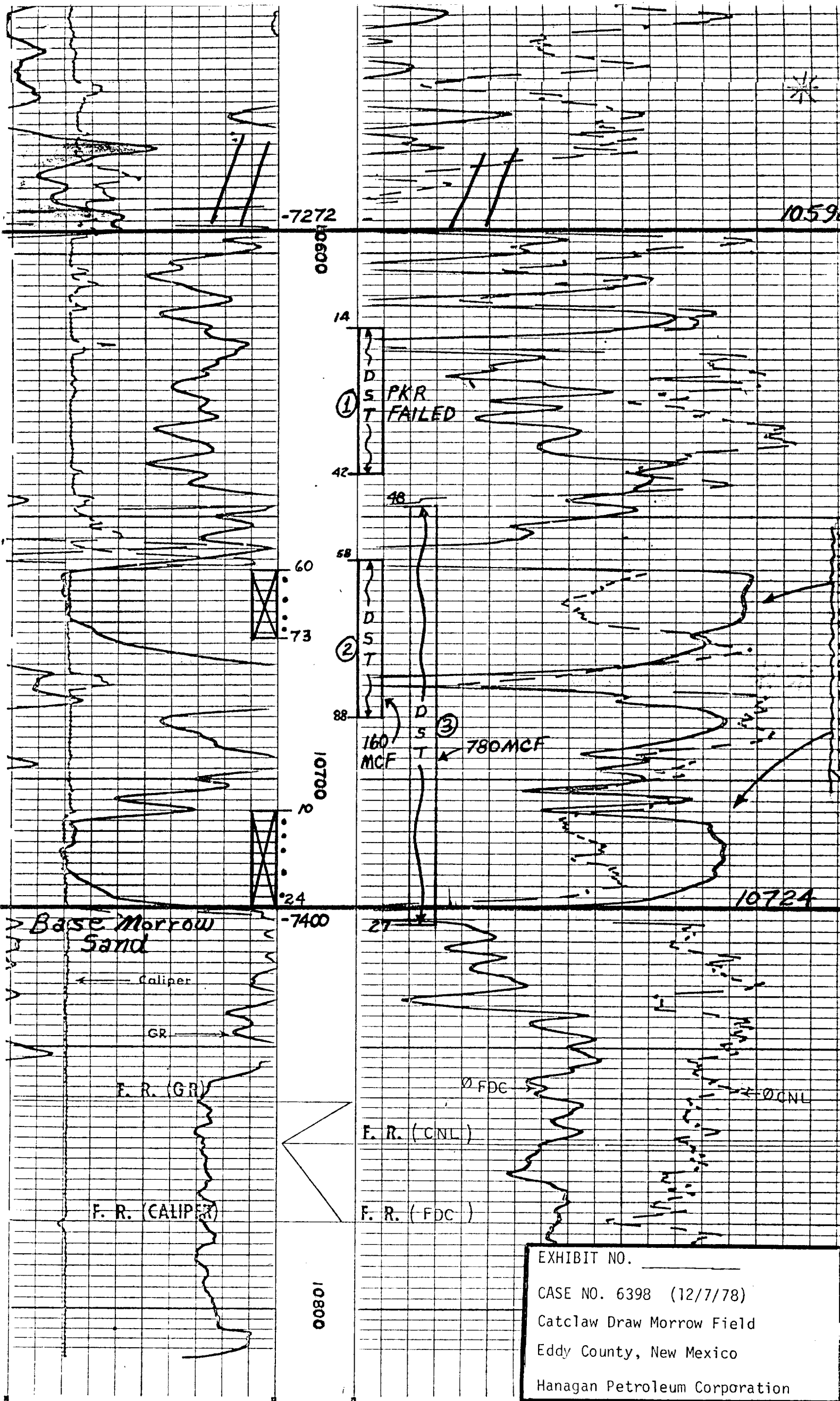


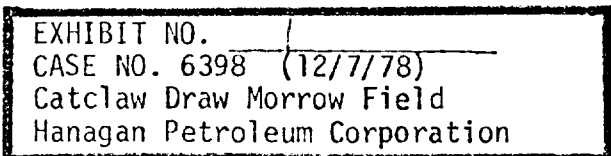
EXHIBIT NO. _____

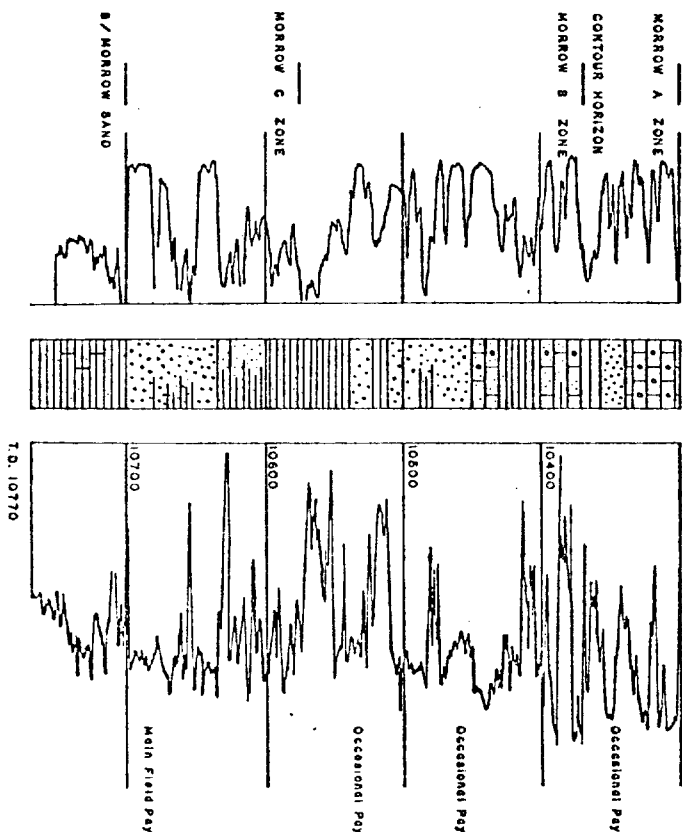
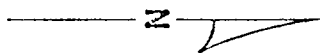
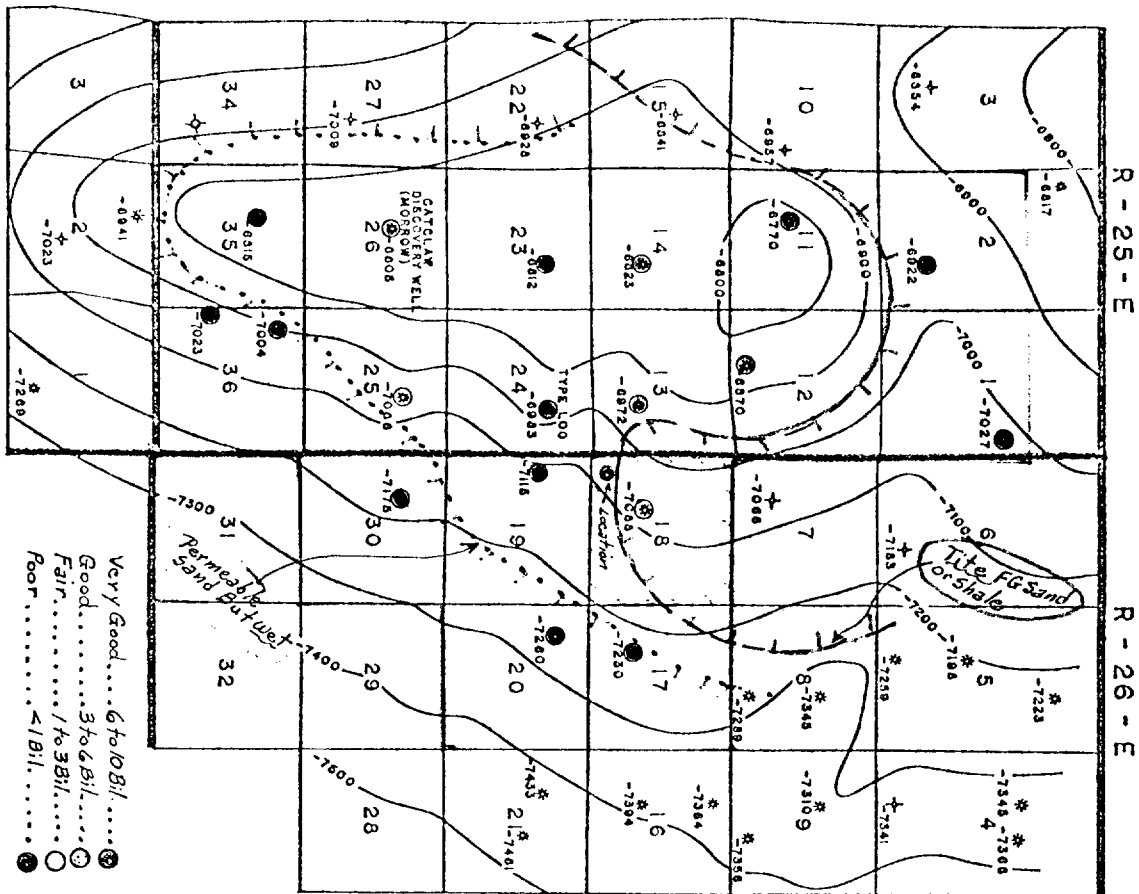
CASE NO. 6398 (12/7/78)

Catclaw Draw Morrow Field

Eddy County, New Mexico

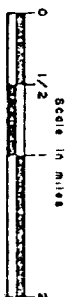
Hanagan Petroleum Corporation





TYPE LOG
HANAGAN PETROLEUM CORPORATION
NO. 4 CATCLAW DRAW MORROW FIELD
SE. 1/4, T. 21-S, R. 25-E
Elevation: 3557 (K6)
Scale: 1" = 100'

CATCLAW DRAW MORROW GAS
EDDY COUNTY,
NEW MEXICO
STRUCTURE CONTOURS ON TOP OF MORROW B ZONE
CONTOUR INTERVAL 100'



S. D. HANSON

APRIL 1976

EXHIBIT NO. 1
CASE 6398 (12/7/78)
Catclaw Draw Morrow Field
Eddy County, New Mexico
Hanagan Petroleum Corporation

orow
mp. 8/1/72
OF 11,700 MCF
0536-724
3750
A 16,000

omp. Morrow
10/74
00 MCF +
3D + 25 BW
10460-724
1500
Frac 29000
30,000 #

cum. Mor.
roduction
47, 175 MCF

Schlumberger

COMPENSATED NEUTRON- FORMATION DENSITY

COUNTY EDDY
FIELD or WILDCAT
LOCATION WILDCAT
WELL MCMINN STATE #1
COMPANY INEXCO OIL CO.

COMPANY INEXCO OIL COMPANY

FILE COPY

WELL MCMINN STATE #1

FIELD WILDCAT

COUNTY EDDY STATE NEW MEXICO

Location: 1980' FSL & 1980' FWL

Other Services:
BHC, DIL,
PML

Sec. 18 Twp. 21-S Rge. 26-E

Permanent Datum: G.L.; Elev.: 3310
Log Measured From K.B., 14 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 3324
D.F. -
G.L. 3310

Date	6-28-72
Run No.	ONE
Type Log	EPI-NEUTRON
Depth—Driller	10800
Depth—Logger	10785
Bottom logged interval	10784 HANAGAN AND HANAGAN
Top logged interval	7500 P. O. Box 1737
Type fluid in hole	FRESH ROSWELL, NEW MEXICO
Salinity, PPM Cl.	11000
Density	9.9
Level	FULL
Max rec. temp., deg F.	160
Operating rig time	6 HOURS
Recorded by	BRYAN, GORRELL
Witnessed by	MOONEY

RUN		BORE-HOLE RECORD				CASING RECORD		
No.	Bit	From	To	Size	Wgt.	From	To	
1	7/8	2100	10800	8 5/8		0	2100	

The well name, location and borehole reference data were furnished by the customer.

EQUIPMENT DATA

CNP-A	CNC-A	CNB-A	NSR-Q	CAL	SGC-E	Decent. Spg. Used		Logging Unit	Location
						X Yes	□ No		
90	77	77	876		96	X		7645	HOBBS
						□	Yes	□	No

