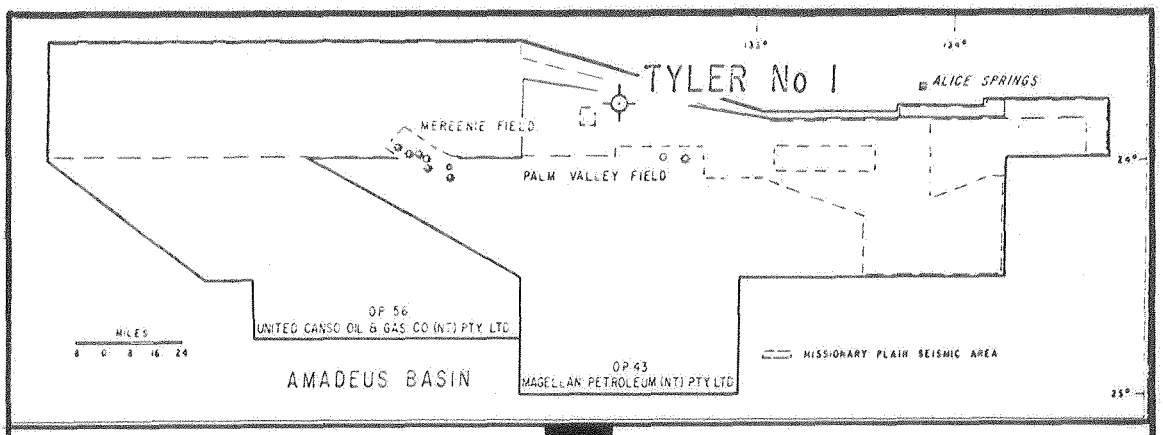
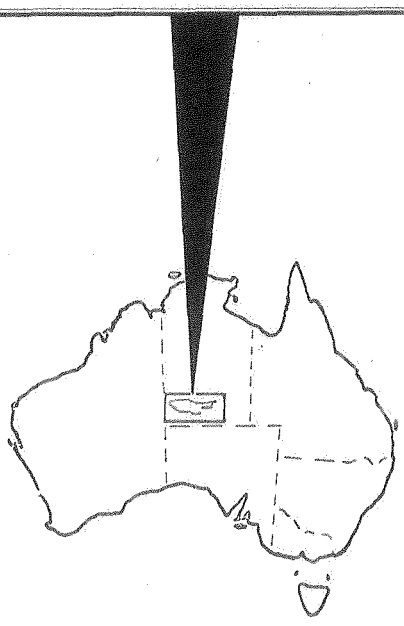


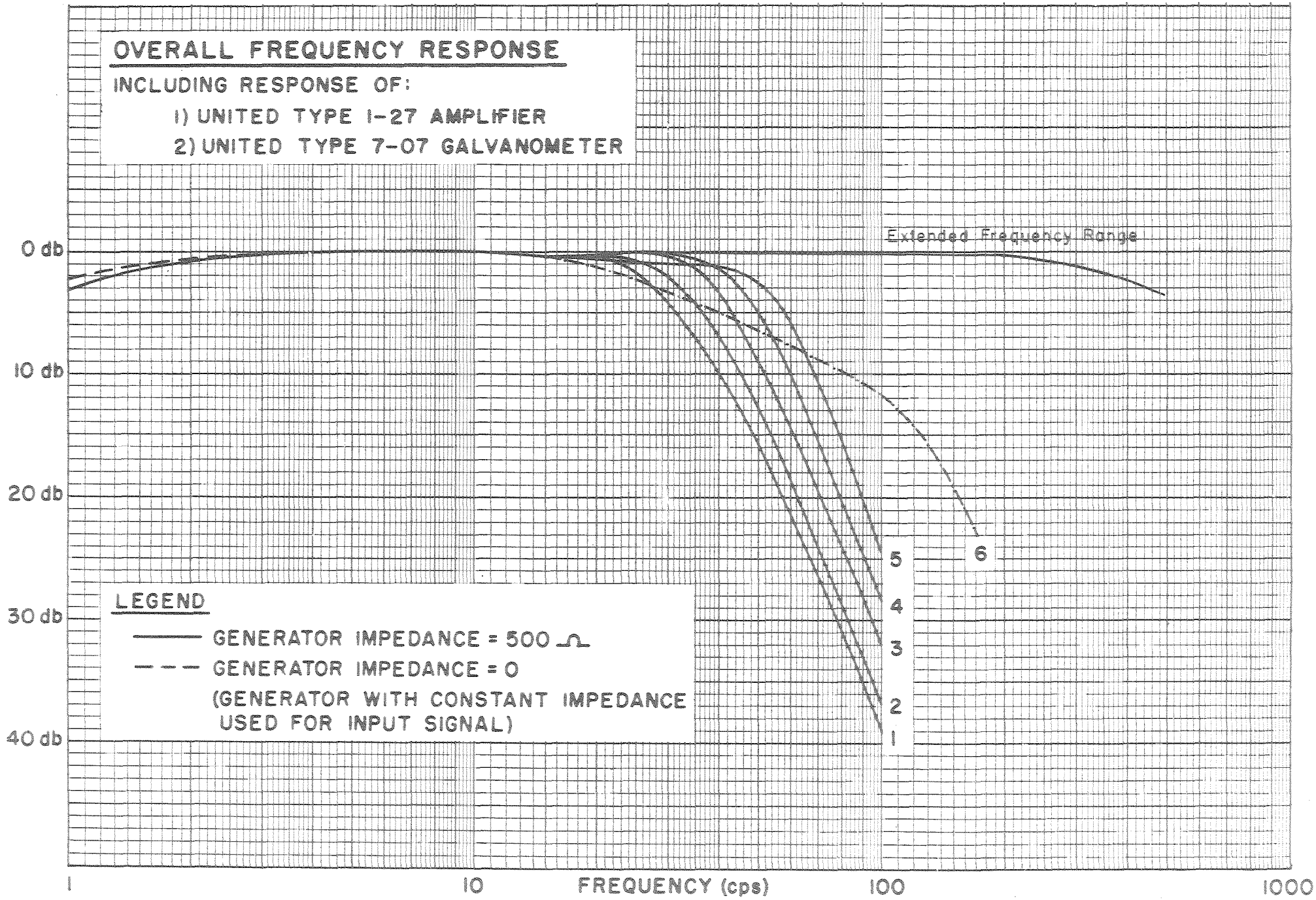


LOCATION MAP

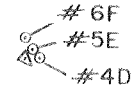
MAGELLAN PETROLEUM (N.T.) Pty.Ltd.

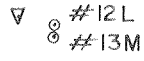
TYLER Nº1

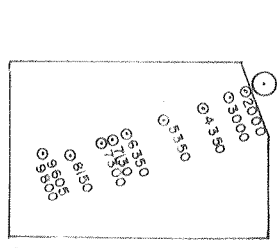
OIL PERMIT 43 17 FEB. 1969.


OVERALL FREQUENCY RESPONSE
INCLUDING RESPONSE OF:
1) UNITED TYPE 1-27 AMPLIFIER
2) UNITED TYPE 7-07 GALVANOMETER
Extended Frequency Range
0 db
10 db
20 db
30 db
40 db
1
5
4
3
2
1
6
LEGEND
GENERATOR IMPEDANCE = 500 Ω
GENERATOR IMPEDANCE = 0
(GENERATOR WITH CONSTANT IMPEDANCE USED FOR INPUT SIGNAL)
1
10
FREQUENCY (cps)
100
1000

	BEARING	DIST. (horizontally from wellphone to shotpoint)
#1	N 22° E	820'
2	N 23° 30' E	922'
3.	N 25° E	983'
4	N 31° E	1315'
5.	N 30° E	1385'
6.	N 29° E	1435'
7.	N 30° 45' E	1845'
8.	N 31° E	1940'
9.	N 31° 15' E	1985'
10.	N 31° 15' E	2000'
11.	N 30° 30' E	1822'
12	N 23° E	643'
13.	N 23° E	600'







Plan showing geophone deviation versus depth below kelly bushing—

SURVEY PLAT

VELOCITY SURVEY

MAGELLAN PETROLEUM (N.T.) Pty Ltd.

TYLER Nº1.

BY

PARTY 141 UNITED GEOPHYSICAL CORP.

SCALE : 1 inch = 400 feet.	
DATE : 17 February 1969	

FIG. 2

COMPANY: MAGELLAN PETROLEUM (N.T.) PTY. LTD.

WELL: TYLER Nº1

LOCATION

PORTION:

PARISH

COUNTY

LATITUDE: 23° 45' 23" S

LONGITUDE: 132° 24' 45" E

Datum = +1800'

SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE	SHOT HOLE	ELEVATION	DISTANCE
1A	2543	820	5E	2551	1385	9I	2561	1985	13M	2543	600														
2B	2545	922	6F	2551	1435	10J	2561	2000																	
3C	2546	983	7G	2560	1845	11K	2560	1822																	
4D	2550	1315	8H	2561	1940	12L	2542	643																	

ELEVATION

KELLY BUSH +2545'

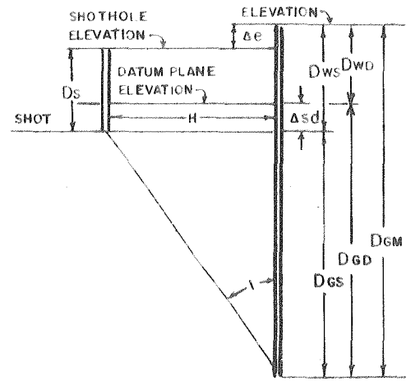
ROTARY TBL

DERRICK FL

GROUND

Tos 1	RECORD NO.	SHOT HOLE NO	Dgm	Tos 2	Tc	Ds	Δe	Dws	Δsd	Dgs	H	Tan 1	Cos 1	T	GRADE	Tgs	Δsd/Vd	Tgd	Dgd	ΔDgd	ΔTgd	Vi INTERVAL VELOCITY	Va AVERAGE VELOCITY
·053	M	13	820	·062		0	2	2	-743	818	600	·73350	·80634	·076	G	·061³	-·055⁷	·005⁶					
																		(·005⁵)	75				13640
·054	L	12	2000	·062		0	3	3	-742	1997	643	32198	95187	·141	G	·134²	-·055⁶	·078⁶					
																		(·078³)	1255	1255	·078⁵	15990	15990
·072	B	2	3100	·081		0	0	0	-745	3100	922	29742	·95851	·211	G	·202²	-·055⁸	·146⁴					
																		(·146⁵)	2355	1100	·068	16180	16080
	C	3	4350	·082		0	-1	-1	-746	4351	983	22593	97542	·281	G	·274'	055⁹	218²					
																		(218)	3605	1250	·071⁵	17480	16540
·091	D	4	5350	·099		0	-5	-5	-750	5355	1315	24556	·97114	·340	G	·330²	056²	274					
																		(274)	4605	1000	·056	17860	15810
·092	E	5	6360	·100		0	-6	-6	-751	6366	1385	21756	·97714	·396	G	·386⁹	056³	330⁶					
																		(·330⁵)	5615	1010	056⁵	17880	16990
·120	K	11	7130	·127		0	-15	-15	-760	7145	1822	25500	96899	·442	F	·428³	·057	371⁵					
																		(371⁵)	6385	770	·041	18780	17190
·120	G	7	7300	·129		0	-15	-15	-760	7315	1845	·25223	·96962	·450	G	·436³	057	379⁵					
																		(379⁵)	6555	170	·008	18940	17270
·121	H	8	8510	·129		0	-16	-16	-761	8526	1940	·22754	·97507	518	G	·505'	057	·448'					
																		(·448)	7765	1210	·068	17670	17330
·124	I	9	9605	131		0	-16	-16	-761	9621	1985	20632	·97937	580	G	·568	057	511					
																		(·511)	8660	1095	·063		17540
124	J	10	9800	132		0	-16	-16	-761	9816	2000	20375	97987	590	G	·578'	057	·521'					
																		(·521)	9055	195	·010		17580

FORMATION TOPS	Dgm	2Tgd	Tgd	Dgd
HERMANNSBURG	4350'	·436	·218	3605'
PARKE	7130'	·743	·3715	6385'
MEREENIE	7290'	·759	·3795	6545'
WHITE SANDSTONE	8510'	·896	·448	7765'



Dwd = KELLY ELEVATION MINUS DATUM ELEVATION

Dgm = SEISMOMETER DEPTH BELOW KELLY ELEVATION

Tos = TIME TO OFFSET GEOPHONE

Tc = TIME CORRECTION (FROM REFLECTION, REFRACTION, OR UPHOLE TIME)

Ds = DEPTH OF SHOT

Δe = KELLY ELEVATION MINUS SHOTHOLE ELEVATION

Dws = Ds + Δe

Δsd = Dws − Dwd

Dgs = Dgm − Dws

H = HORIZONTAL DISTANCE, WELL TO SHOTHOLE

Tan 1 = H/Dgs

T = WELL SEISMOMETER TIME FROM TIME BREAK

Tgs = T Cos 1

Tgd = Tgs + Δsd/Vd = VERTICAL TRAVEL TIME, WELL SEISMOMETER TO DATUM PLANE

Dgd = Dgm − Dwd = VERTICAL DISTANCE, WELL SEISMOMETER TO DATUM PLANE

Vi = INTERVAL VELOCITY = Δ Dgd/Δ Tgd

Va = AVERAGE VELOCITY = Dgd/Tgd

SURVEYED FOR: Magellan Petroleum (N.T.) P/L.

SURVEYED BY: United Geo. Party 141

COMPUTED BY: L.W. Pfitzner

DATE SURVEYED: 17 February 1969

CASING:

WEATHERING

DATUM VELOCITY = 13345 /sec.

WELL VELOCITY DETERMINATION

WELL **MAGELLAN TYLER Nº1**

Shot No. **M**

Shot Hole No. **13**

Depth of Well Seismometer

Below Kelly Bushing **820'**

Below Datum 00ft. (A.S.L.) **75'**

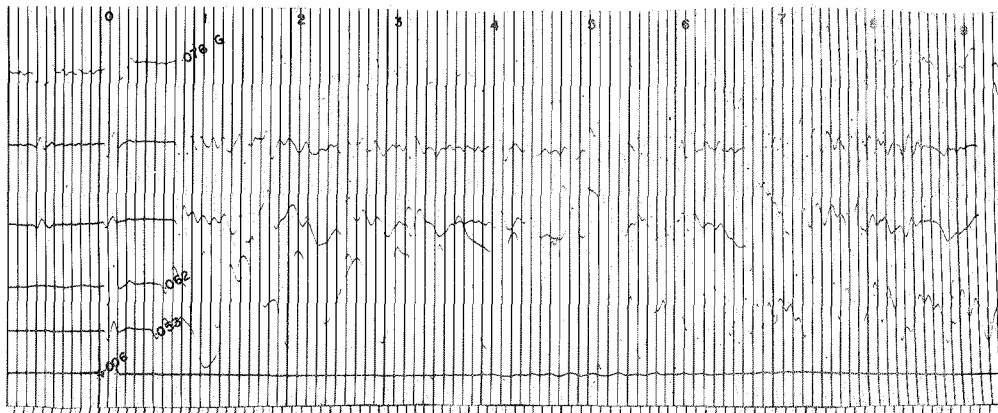
Chg = 50 lbs Ds = Surface

WELL GEOPHONE: HIGH SENSITIVITY / MEDIUM SENSITIVITY / LOW SENSITIVITY

REFERENCE GEOPHONE

UPHOLE GEOPHONE

TIME BREAK



WELL VELOCITY DETERMINATION

WELL **MAGELLAN TYLER Nº1**

Shot No. **L**

Shot Hole No. **12**

Depth of Well Seismometer

Below Kelly Bushing **2000'**

Below Datum 00ft. (A.S.L.) **1255'**

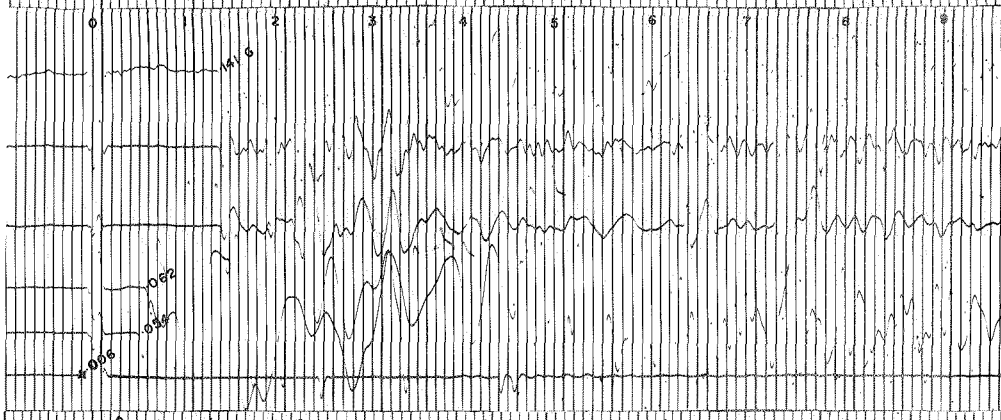
Chg = 150 lbs Ds = Surface

WELL GEOPHONE: HIGH SENSITIVITY / MEDIUM SENSITIVITY / LOW SENSITIVITY

REFERENCE GEOPHONE

UPHOLE GEOPHONE

TIME BREAK



WELL VELOCITY DETERMINATION

WELL **MAGELLAN TYLER Nº1**

Shot No. **B**

Shot Hole No. **2**

Depth of Well Seismometer

Below Kelly Bushing **3100'**

Below Datum 00ft. (A.S.L.) **2355'**

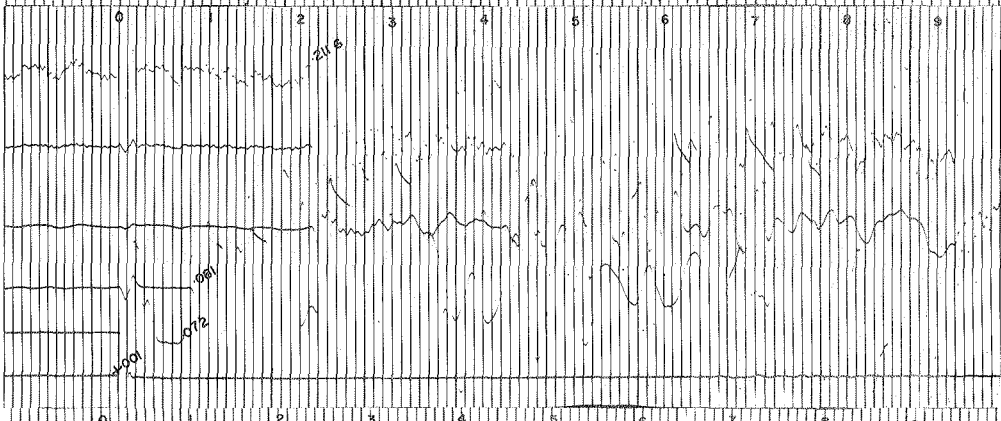
Chg = 200 lbs Ds = Surface

WELL GEOPHONE: HIGH SENSITIVITY / MEDIUM SENSITIVITY / LOW SENSITIVITY

REFERENCE GEOPHONE

UPHOLE GEOPHONE

TIME BREAK



WELL VELOCITY DETERMINATION

WELL **MAGELLAN TYLER Nº1**

Shot No. **C**

Shot Hole No. **3**

Depth of Well Seismometer

Below Kelly Bushing **4350'**

Below Datum 00ft. (A.S.L.) **3605'**

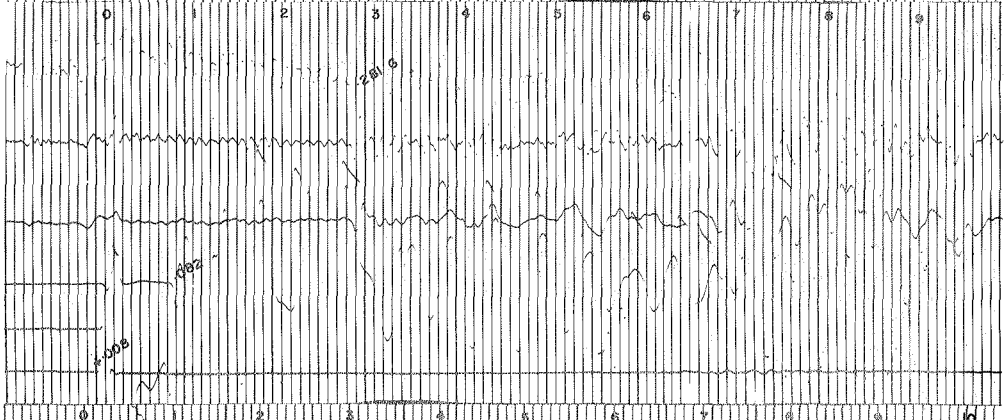
Chg = 100 lbs Ds = Surface

WELL GEOPHONE: HIGH SENSITIVITY / MEDIUM SENSITIVITY / LOW SENSITIVITY

REFERENCE GEOPHONE

UPHOLE GEOPHONE

TIME BREAK



WELL VELOCITY DETERMINATION

WELL **MAGELLAN TYLER Nº1**

Shot No. **D**

Shot Hole No. **4**

Depth of Well Seismometer

Below Kelly Bushing **5350'**

Below Datum 00ft. (A.S.L.) **4605'**

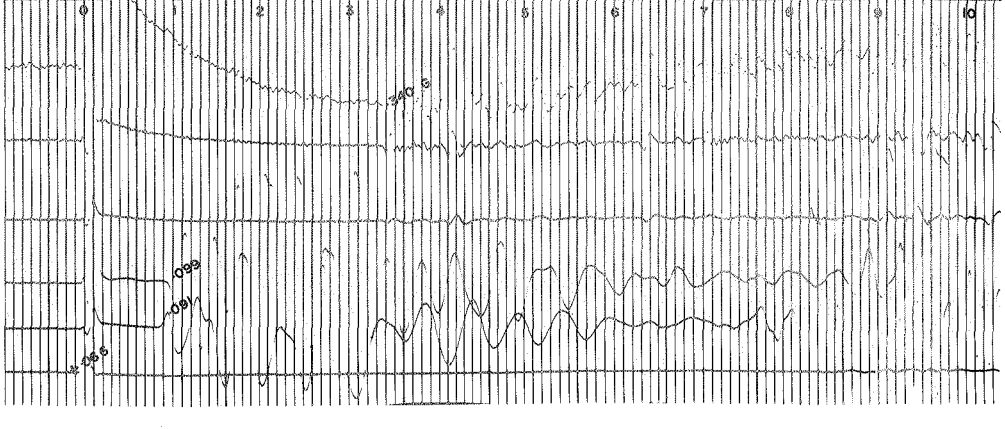
Chg = 400 lbs Ds = Surface

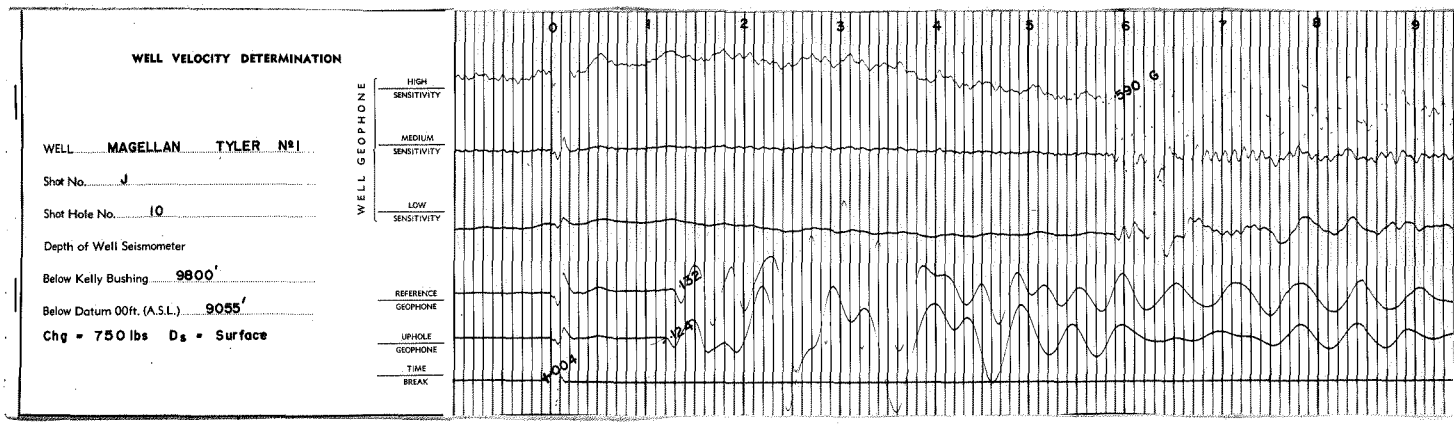
WELL GEOPHONE: HIGH SENSITIVITY / MEDIUM SENSITIVITY / LOW SENSITIVITY

REFERENCE GEOPHONE

UPHOLE GEOPHONE

TIME BREAK




WELL VELOCITY DETERMINATION
WELL MAGELLAN TYLER Nº1
Shot No. J
Shot Hole No. 10
Depth of Well Seismometer
Below Kelly Bushing 9800'
Below Datum 00ft. (A.S.L.) 9055'
Chg = 750 lbs Ds = Surface
WELL GEOPHONE
HIGH SENSITIVITY
MEDIUM SENSITIVITY
LOW SENSITIVITY
REFERENCE GEOPHONE
UPHOLE GEOPHONE
TIME BREAK
0
1
2
3
4
5
6
7
8
9
330 G
152
124
9004