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areas.	TUGRO
W.S.	
	WELL CONSTRUCTION

DIMENSIONS 3

WELL NO DL OW-2 SHEET LOF 1 GO LOGGED BY TFM+SC+LB PROJECT NO. 79-29 DATE (S) DAN 3-22, 1980 PROJECT NAME MX

A ZZ"OIRHETER STEEL CONDUCTOR CASING

WAS INSTALLED TO 40' BELOW THE

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DRILL CUTTINGS LOG

PROJECT NUMBER 79-290- 45

PROJECT NAME MX SITING INVESTIGATION

EQUIPMENT USED 0-40' Bucket Auger/
90-1300' Reverse Rotary

COMPANY Beylik

OPERATOR Jim Clyde

VALLEY NAVE Dry Lake

LOCATION NUMBER T3S, R64E, Sect. 12ca

LOGGED BY JM & SC DATE 1-8-80

CHECKED BY JAG DATE 4-10-80

TOTAL WELL DEPTH 1300 feet

DEPTH (FEET)	DESCRIPTION OF CUTTINGS OR SAMPLE
0	Silt: Tan Silt with occasional gravel to l½". Silt: Tan Silt
20	Silt & Sand with Gravel: Tan silt with - 25% med colored, fine to coarse, poorly sorted, subrounded to subangular sand, with - 10% med colored subrounded to angular gravel to 1½". Gravel with Cobbles - Med to dark colored, subrounded to subangular ½" gravel up to cobbles to 4".
40-	Fine Gravel with Sand: Brown color, well sorted, subrounded gravel with less than 25% coarse sand, gravel up to 3/4".
50	Gravel with Coarse Sand: Brown color, subangular, well sorted gravel up to 3/4" with coarse, angular sand (less than 25%).
60	Gravel with Sand: Brown color, well sorted, sub-rounded gravel up to 1½" with less than 25% coarse sand.
70 —	Gravel with Sand: Same as above (60').
80 —	Coarse Sand with Gravel: Dark color, well sorted, subrounded sand with less than 25% gravel up to ½".
90	Fine to Medium Gravel with Sand: Brown color, well sorted, subrounded gravel with less than 10% coarse sand.
100	Gravel with Sand: Dark color, well sorted, subangular gravel up to 3/4" with less than 30% coarse sand.

DR	ILL CU	TINGS	LOG	ا الما الم- ما الما	
PROJECT	NUMBER	79-290-	45		2-1
PROJECT	NAME	MX SIT	ING	INVESTIGAT	ION
EQUIPME	NT USED	Reve	rse	Circula	ation

Beylik

J. Clyde

COMPANY

OPERATOR ____

FIELD LOG OF WELL NUMBER OW-2

VALLEY NAME <u>Dry Lake</u>

LOCATION NUMBER <u>T35, R64E, Sect.</u> 12ca

LOGGED BY <u>SC&JM</u> DATE 1-8-80

CHECKED BY JAG DATE 4-10-80

TOTAL WELL DEPTH 1300 feet

PAGE _ 4 Ur _ 13

DEPTH (FEET)	DESCRIPTION OF CUTTINGS OR SAMPLE
100-	Gravel with Coarse Sand: Dark color, well sorted, subangular, max gravel 1" with less than 25% coarse sand.
110	Gravel with Coarse Sand: Same as above (100'-110'). Max size for gravel 2".
	Max Bize for graver 2:
120 =	Gravel with Coarse Sand: Same as above (100'-120'). Max gravel 1½".
130 —	Gravel with Coarse Sand: Less than 25% sand. Max gravel 1½". Most less than 1".
-	
140-	Gravel with Coarse Sand: Less than 10% sand. Same as above (130-140').
150	Gravel with Coarse Sand: Dark, subrounded, well sorted max size 1" gravel with less than 40% very coarse, subangular sand.
160	Gravel with Coarse Sand: Brown, subrounded, well sorted gravel with less than 25% coarse sand. Max size 3/4".
170	Gravel with Coarse Sand: Brown, subangular, well sorted gravel with less than 25% coarse sand. Max size 3/4".
180	Gravel with Coarse Sand: Much coarser than 170-180', 33% of sample greater than 1" size. Brown subrounded, subangular, well sorted with less than 10% sand.
190	Very Coarse Gravel with Coarse Sand: Dark, well sorted subangular. Greater than 2" sized gravel. Less than 5% coarse sand.
200 =	

DRI	LL CUTT	INGS LOG	•		
	: 1				
PROJECT	NUMBER 79	3-290 - <u>4</u>	5		1973. 1973.
DOOLECT	NINC :	MV CITIUC	INVESTICAT	TOU	47.5

ROOF DESCRIPTION OF CARLO OF CARLO OF GENERAL CONTROL

FIELD LOG OF WELL NUMBER OW-2

VALLEY NAME Dry Lake

LOCATION NUMBER T3S, R64E, Sect. 12ca

LOGGED BY JM & SC DATE 1-8-80

CHECKED BY JAG DATE 4-10-80

TOTAL WELL DEPTH 1300 feet

PAGE _3 OF _13

PRUJECI NUMBER	79-290- 45
PROJECT NAME	MX SITING INVESTIGATION
EQUIPMENT USED	Reverse Circulation
COMPANY	Beylik
OPERATOR	J. Clyde

DEPTH DESCRIPTION OF CUTTINGS OR SAMPLE (FEET) Gravel with Coarse Sand: Brown, well sorted, subangular gravel. 200 Max size 1" with less than 40% subangular coarse sand. Gravel with Coarse Sand: Gray, subangular, well sorted. Max size 210 1½". Less than 10% subangular, coarse sand. Gravel with Coarse Sand: Gray-black, subangular, well sorted. 220 Max size 2½". Less than 10% coarse, subangular sand. Gravel with Coarse Sand: Gray-black, subangular, well sorted. Max size 1". Less than 40% subrounded, coarse sand. Gravel with Sand and Some Clay: Subangular, poorly sorted, max gravel Less than 10% sand. Less than 20% silt and clay. size 3/4". Gravel with Coarse Sand: Gray-brown, subangular, well sorted, max size 1". Less than 20% coarse sand. 260 Gravel with Coarse Sand: Gray, subangular, well sorted. Max size $2\frac{1}{2}$ " gravel. Less than 20% coarse, subangular sand. 270-Gravel with Sand and Silt: Gray color, subangular, poor to medium sorted, max 's" gravel. Less than 25% fine-to coarse-grained sand. Less than 5% silt. Gravel with Coarse Sand: Gray color, subangular, well sorted. 280 -Max 3/4" gravel. Less than 20% coarse subangular sand, Gravel with Coarse Sand: Gray subangular well sorted, max size gravel 1". Less than 20% subangular coarse sand.

المناسطة المالاع المالاط المالاط المالاء المال DRILL CUTTINGS LOG FIELD LOG OF WELL NUMBER OW-2 PROJECT NUMBER 79-290- 45 VALLEY NAME Dry Lake PROJECT NAME MX SITING INVESTIGATION LOCATION NUMBER T3S, R64E, Sect. 12 ca EQUIPMENT USED Reverse Circulation LOGGED BY JM & SC DATE 1/8/80 COMPANY Beylik CHECKED BY JAG DATE 4/10/80 OPERATOR _____ J. Clyde TOTAL WELL DEPTH __ 1300 feet DEPTH DESCRIPTION OF CUTTINGS OR SAMPLE (FEET) 30n -Fine Gravel with Coarse Sand: Gray-brown, subrounded, well sorted, max size 12". Less than 40% coarse, subrounded sand. 310 -Gravel with Coarse Sand: Gray-brown, subrounded, well sorted, 320 max size 'y" gravel, less than 40% coarse, subrounded sand. Gravel with Coarse Sand: Well sorted, brown gray, subrounded, max 1 gravel with less than 30% coarse, subrounded sand. 330 -340 -Gravel with Sand, Silt & Clay: Poorly sorted, gray-black, subangular to subrounded, less than 40% sand. Less than 10% silt and clay, 'z" gravel. Gravel with Sand, Silt & Clay: Poorly sorted, brown subangular-350 subrounded. 40% sand, 10% silt and clay, 2" gravel. 360 -Gravel with Trace Sand, Silt & Clay: Less than 20% subgravel size, gray-black, subangular, poorly sorted 12" gravel. 370 -Gravel with Medium to Coarse Sand: Brown-black, subroundedsubangular well sorted less than 30% sand. 380 -Gravel: Poorly sorted, 'z" gravel, subangular, less than 20%

Gravel: Medium sorted, gray-black-brown, subangular, less than

coarse sand.

10% sand, 5" gravel.

390

DRILL CUTTINGS LOG

PROJECT NUMBER 79-290- 45

PROJECT NAME MX SITING INVESTIGATION

EQUIPMENT USED Reverse Circulation

COMPANY Beylik

OPERATOR J. Clyde

VALLEY NAME ___Dry Lake

LOCATION NUMBER __T3S, R64E, Sect. 12ca

LOGGED BY __JM & SC __DATE __1/14/80

CHECKED BY __JAG _____ DATE __4/10/80

TOTAL WELL DEPTH ___1300 feet

DEPTH (FEET)	DESCRIPTION OF CUTTINGS OR SAMPLE
40g —	Gravel with Sand, Silt & Clay: Poorly sorted, gray-black, subangular-subrounded, less than 30% sand, 20% silt and clay, 3" gravel.
420 —	Gravel with Sand, Silt & Clay: Poorly sorted, subangular to subrounded, gray-black, less than 20% sand, less than 10% silt and clay. Gravel with Sand, Silt & Clay: Poorly sorted, subangular, brown-gray, less than 40% sand, less than 10% silt and clay, 2½" gravel. Gravel with Sand, Silt & Clay: Poorly sorted, brown-black, subangular, 3/4" gravel, less than 20% sand, less than 10% silt and clay. Gravel with Sand, Silt & Clay: Poorly sorted, blue-black, subangular, 3/4" gravel, less than 15% sand, less than 10% silt and clay.
450	Gravel with Sand, Silt & Clay: Poorly sorted, subangular, gray-black, '2" gravel, less than 40% sand, less than 10% silt and clay.
	Gravel with Sand, Silt, & Clay: Poorly sorted, subangular, gray-brown, ½" gravel, less than 40% sand, 10% silt and clay. Gravel with Sand, Silt and Clay: Brown-gray poorly sorted
4 80	subrounded, max 2" gravel, less than 20% sand, less than 10% silt and clay. Gravel with Sand and Clay: Gray-black colored, poorly sorted subangular gravel with less than 30% coarse to fine-grained sand with less than 10% silty clay. Max grain size 3/4".
4 90	Gravel with Sand: White, gray-black colored moderately sorted subangular gravel with less than 20% coarse subangular sand grains. Maximum grain size 1".
500 =	

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DRILL C	CUTTINGS LOG	FIELD LOG OF WELL NUMBER OW-2 VALLEY NAME Dry Lake LOCATION NUMBER T3S, R64E, Sect. 12c			
PROJECT NUMB	ER 79-290- 45				
PROJECT NAME	MX SITING INVESTIGATION				
EQUIPMENT US	Reverse Circulation	LOGGED BY TJM' &	SC DATE 1-14-80 4		
COMPANY	Beylik	CHECKED BY JAG	DATE -4-10-804-		
	J. Clyde	TOTAL WELL DEPTH	1300 feet		
DEPTH (FEET)	DESCRIPTION O	F CUTTINGS OR SAMP	LE		
500 —	Gravel with Sand: Gray, subrounded to subangular subangular sand. Maximum Gravel with Trace Coarse	gravel with less the gravel size approximate size approximate size approximate size approximate size of the size o	nan 15% coarse kimately 2".		
\equiv	gravel to 1½", less than	10% sand.			
I			gen Til state og state o		
520 =	Gravel with Trace Sand and	d Silt: Same as 51	0' with less		
	than 10% sand and silt.				
. ∃					
530	Cravel with myses Coarse	100 A			
230 -	Gravel with Trace Coarse S	sand: Same as 510.	• The discount of the second o		
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5 40 —			in the second of		
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3					
5 50 -	Gravel with Sand and Silt:	: Brown-gray subai	ngular moderate		
3	sorting. Less than 25% sa	ind and silt.	ngular, moderate me		
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4 🗐					
5 60	Gravel with Trace Coarse S	and: Same as 510'.			
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LECTURE CHATTER COUNTRY BOSC. DRILL CUTTINGS LOG . 200 FIELD LOG OF WELL-NUMBER --- OW-2--PROJECT NUMBER 79-290- 45 VALLEY NAME Dry Lake PROJECT NAME AND MX SITING INVESTIGATION THE LOCATION NUMBER T3S, R64E, Sect. 12ca LOGGED BY SC & JM DATE 1/15/80 EQUIPMENT USED HATE Reverse Mud Rotary Face CHECKED BY JAG --- DATE 4/10/80 COMPANY WEAR Beylik _ LDE OPERATOR TOTAL WELL DEPTH ____ 1300 feet ____ J. Clyde DEPTH DESCRIPTION OF CUTTINGS OR SAMPLE (FEET) 600 Gravel with Trace Coarse Sand: Brown, subangular, well sorted, 610gravel to 12", less than 10% sand. 630 Gravel with Trace Coarse Sand: Same as 610', but max size '.'. 640 Gravel with Sand and Silt: Brown, subangular, poorly sorted, less than 30% sand, less than 10% silt, gravel size to 3". 650 660 -670-680-690 -7 00 -

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DRILL	CUTTINGS LOG	FIELD LOG OF WELL NUMBER OW2			
PROJECT NUM	BER 79-290- 45	VALLEY NAVE Dry Lake			
		LOCATION NUMBER T3S, R64E, Sect. 12 ca			
	SED Reverse Mud Rotary	LOGGED BY SC DATE 1/17/80			
	Beylik	CHECKED BY JAG DATE 4/10/80			
	J. Clyde	TOTAL WELL DEPTH 1300 feet			
DEPTH (FEET)	DESCRIPTION OF C	UTTINGS OR SAMPLE			
700 —	Gravel with Some Coarse Sand	: Brown subangular, well sorted			
	gravel size to 3/4", less that	an 20% sand.			
710	Gravel with Some Coarse Sand	: Same as 700' but with gravel			
E	to 2".				
4					
720					
720	Gravel with Some Coarse Sand:	Same as 700'.			
3 3					
1 1					
730	Gravel with Sand, Silt, & Cla	y: Brown, subangular gravel to			
	The with 200 band, 200 bi	To a Clay.			
∃					
740 📑 🗈	Gravel with Some Coarse Sand:	Same as 700'.00'.			
=					
= = = = = = = = = = = = = = = = = = = =					
750 -		: Same as 700' but less than 10%			
	sand,& gravel to 3". 3".	·			
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760 =	Grand with many Grands Cond	Cama an 7501			
/°° =	Gravel with Trace Coarse Sand	: Same as 750 .			
=					
_70 =		G 7001 2027			
770	Gravel with Some Coarse Sand:	Same as 700.			
3	i de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela com				
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iseno naronal una. DRILL CUTTINGS LOG FIELD LOG OF WELL NUMBER OW2 VALLEY NAME _____ Dry Lake PROJECT NUMBER 79-290- 45 LOCATION NUMBER T3S, R64E, Sect. 12ca PROJECT NAME MX SITING INVESTIGATION LOGGED BY SC & JM DATE 1-18-80 EQUIPMENT USED Reverse Rotary CHECKED BY JAG DATE 4-10-80 COMPANY Beylik TOTAL WELL DEPTH 1300 feet DEPTH DESCRIPTION OF CUTTINGS OR SAMPLE And A (FEET) Coarse Sand Trace Gravel & Silt: Brown subangular, well sorted, 800 coarse sand, less than 10% gravel, less than 10% silt. Gravel with Some Coarse Sand: Brown, subangular, well sorted, 810gravel size to 1", 20% sand. 820 830-840-850 -8 60 -8 70 -8 80 -890

900 -

ucero marional, mo. PAGE 10 OF 13 DRILL CUTTINGS LOG FIELD LOG OF WELL NUMBER - OW2 VALLEY NAME ___ Dry Lake PROJECT NUMBER 79-290- 45 LOCATION NUMBER T3S, R64E, Sect. 12 ca PROJECT NAME MX SITING INVESTIGATION EQUIPMENT USED Reverse Rotary LOGGED BY JM & SC DATE __ 1-19-80 CHECKED BY JAG Beylik DATE ____4-10-80 COMPANY J. Clyde OPERATOR TOTAL WELL DEPTH 1300 feet DEPTH DESCRIPTION OF CUTTINGS OR SAMPLE (FEET) 900 . Sand with Some Gravel & Silt: Brown subangular, poorly sorted, sand with 10% silt & clay, 20% gravel.

Gravel with Trace Coarse Sand: Brown subangular, well sorted,

gravel to 3/4", 10% sand.

9 40 -

9 50 -

960

970 -

980 -

990 -

1000

Gravel: as above (1080'), but medium sorted.

Gravel: Dark colored, poorly sorted, angular to subangular

fine up to 2" gravel.

1190 -

Sand & Gravel: Light to dark colored, well sorted angular to

angular to subangular gravel up to 3/4" with $\frac{t}{2}$ 25% coarse sand.

Gravel with Sand: Medium to dark colored, poorly sorted,

subangular, fine gravel with - 50% coarse sand.

1280

1290 -