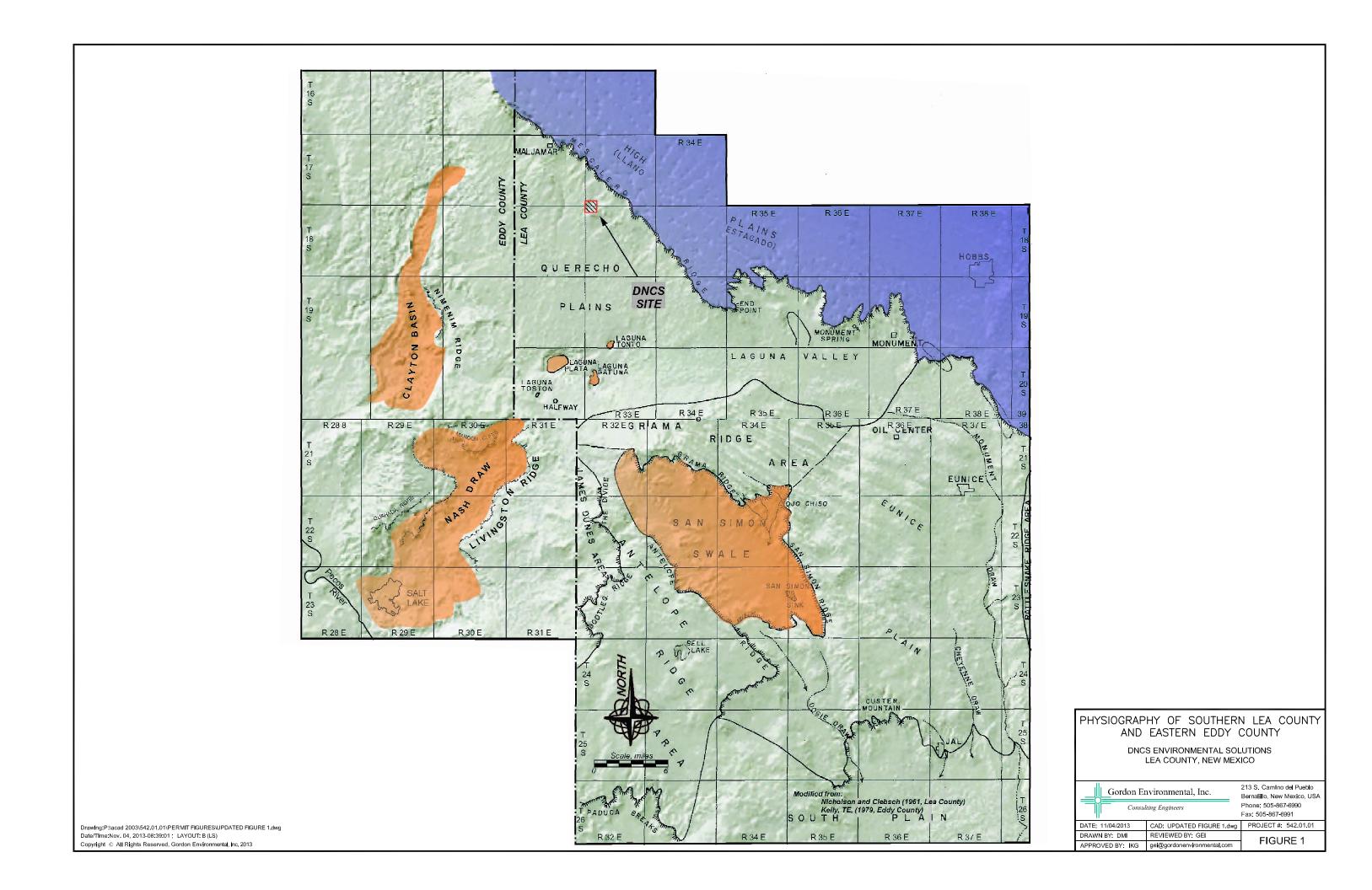
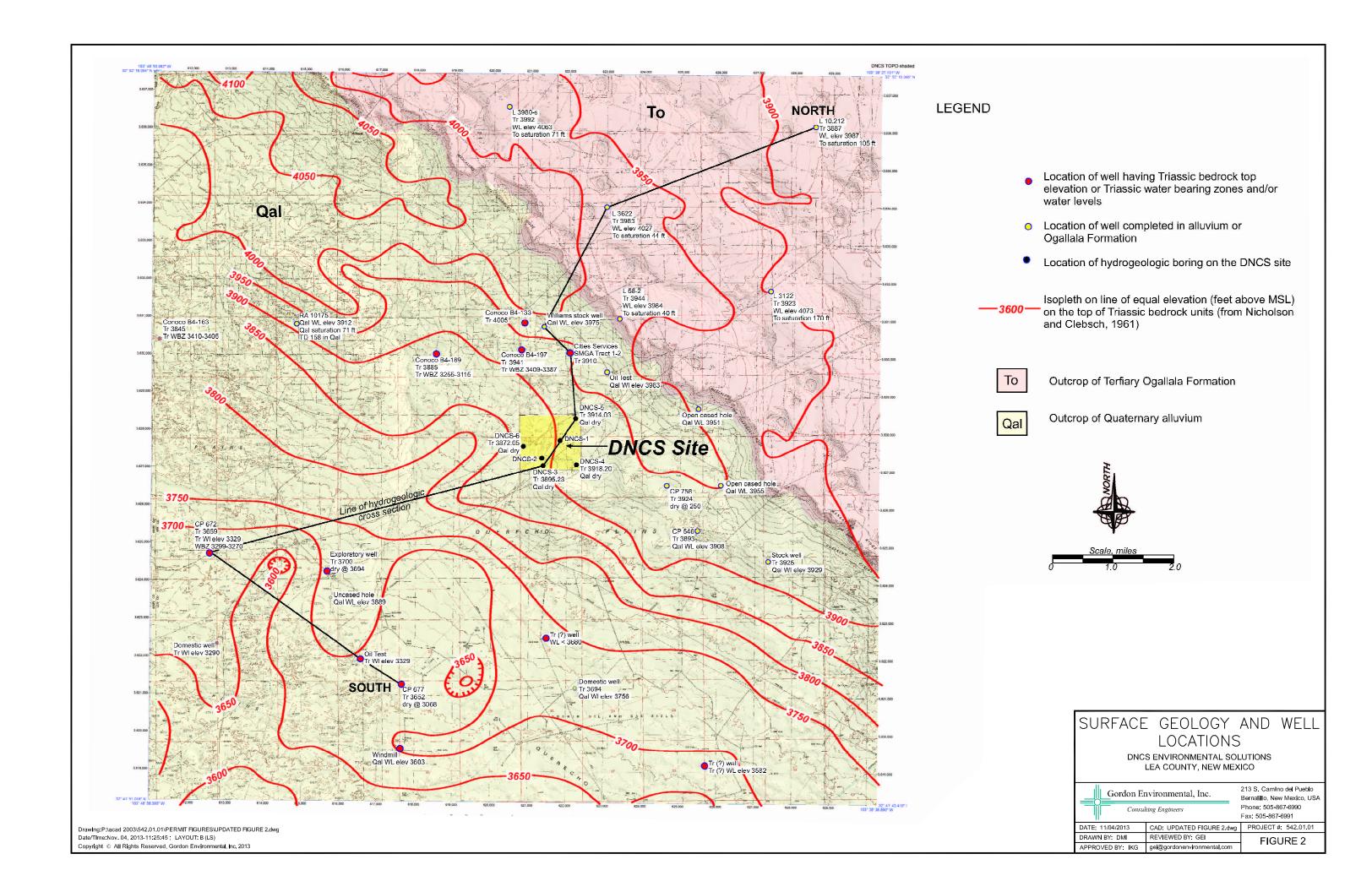
NM1-57

Revised Permit Application

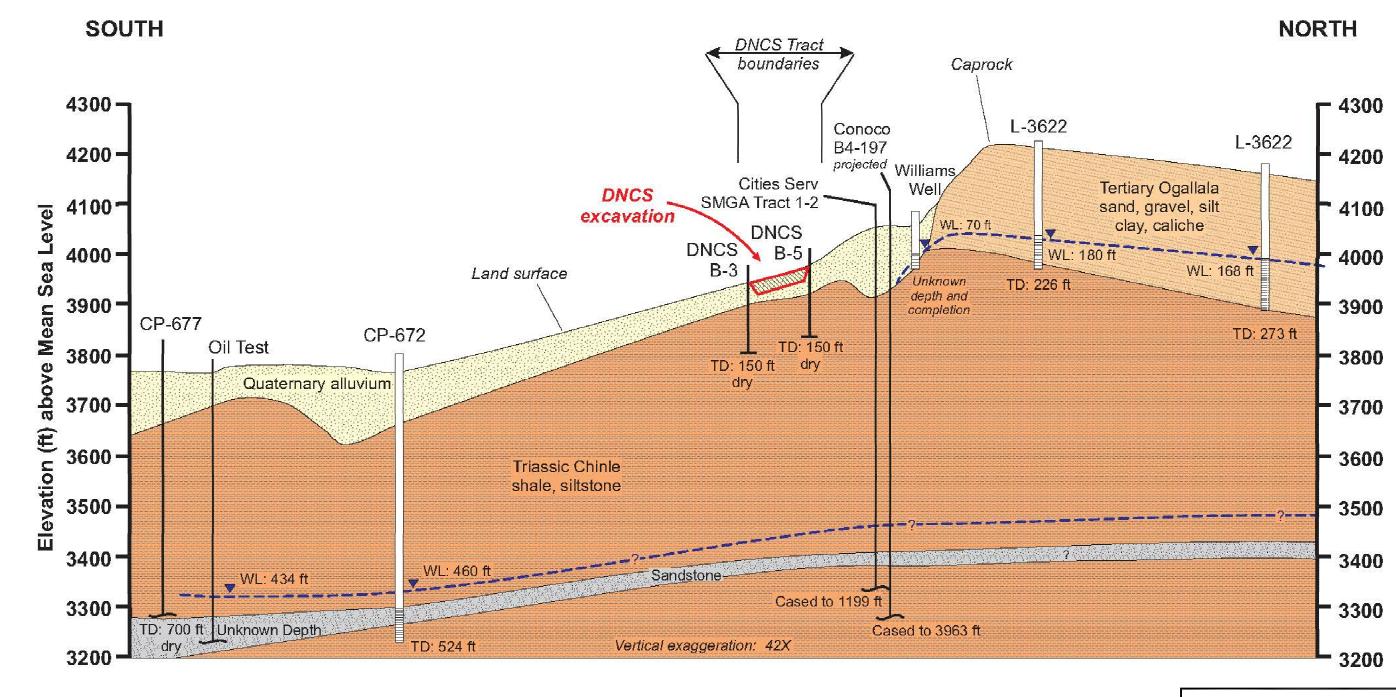
June 2014

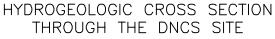
Volume 2, Part 2 of 2: Facility Management Plans





Hydrogeologic Cross Section DNCS Permit Site, Lea County, New Mexico





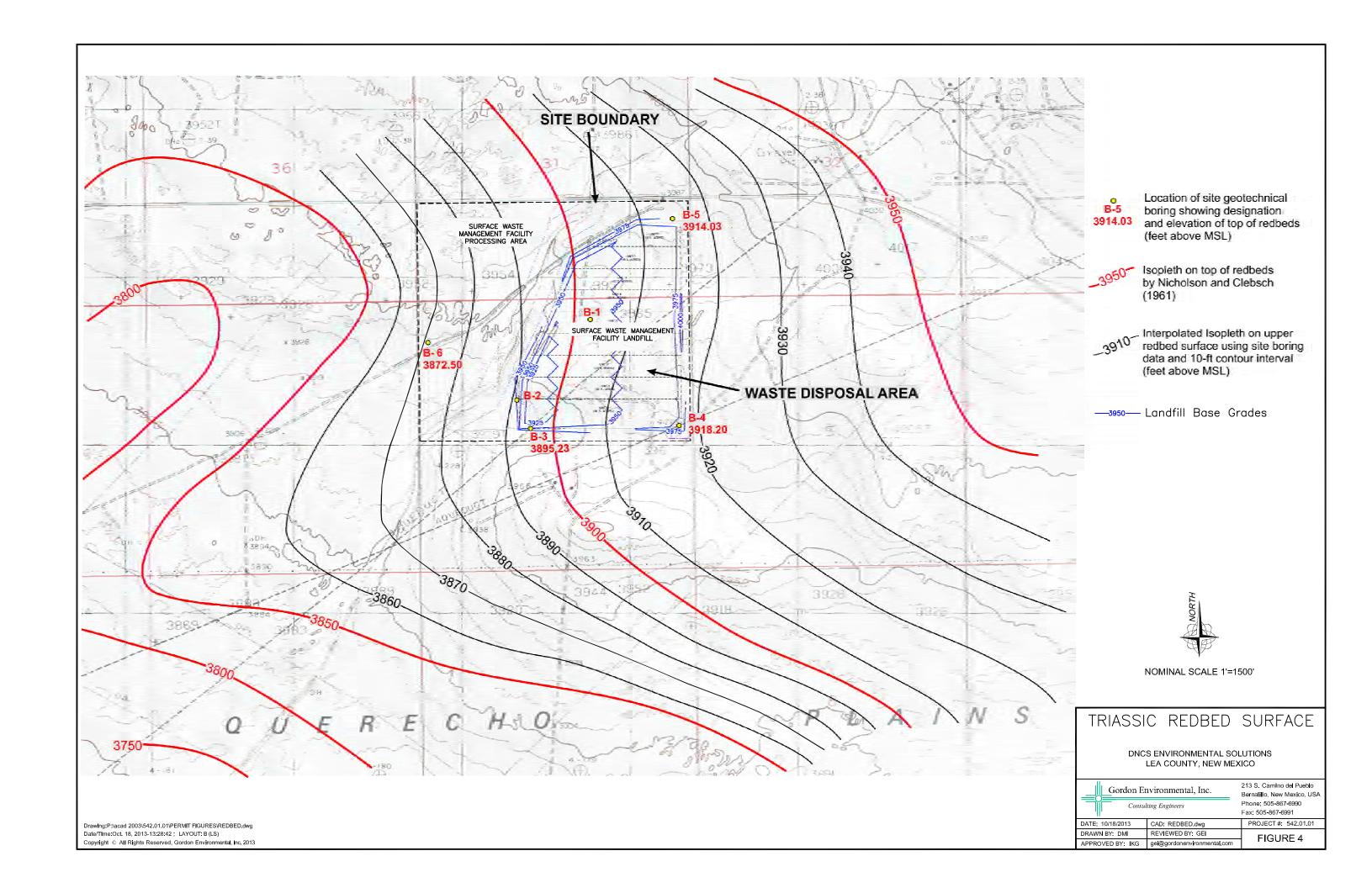
DNCS ENVIRONMENTAL SOLUTIONS LEA COUNTY, NEW MEXICO

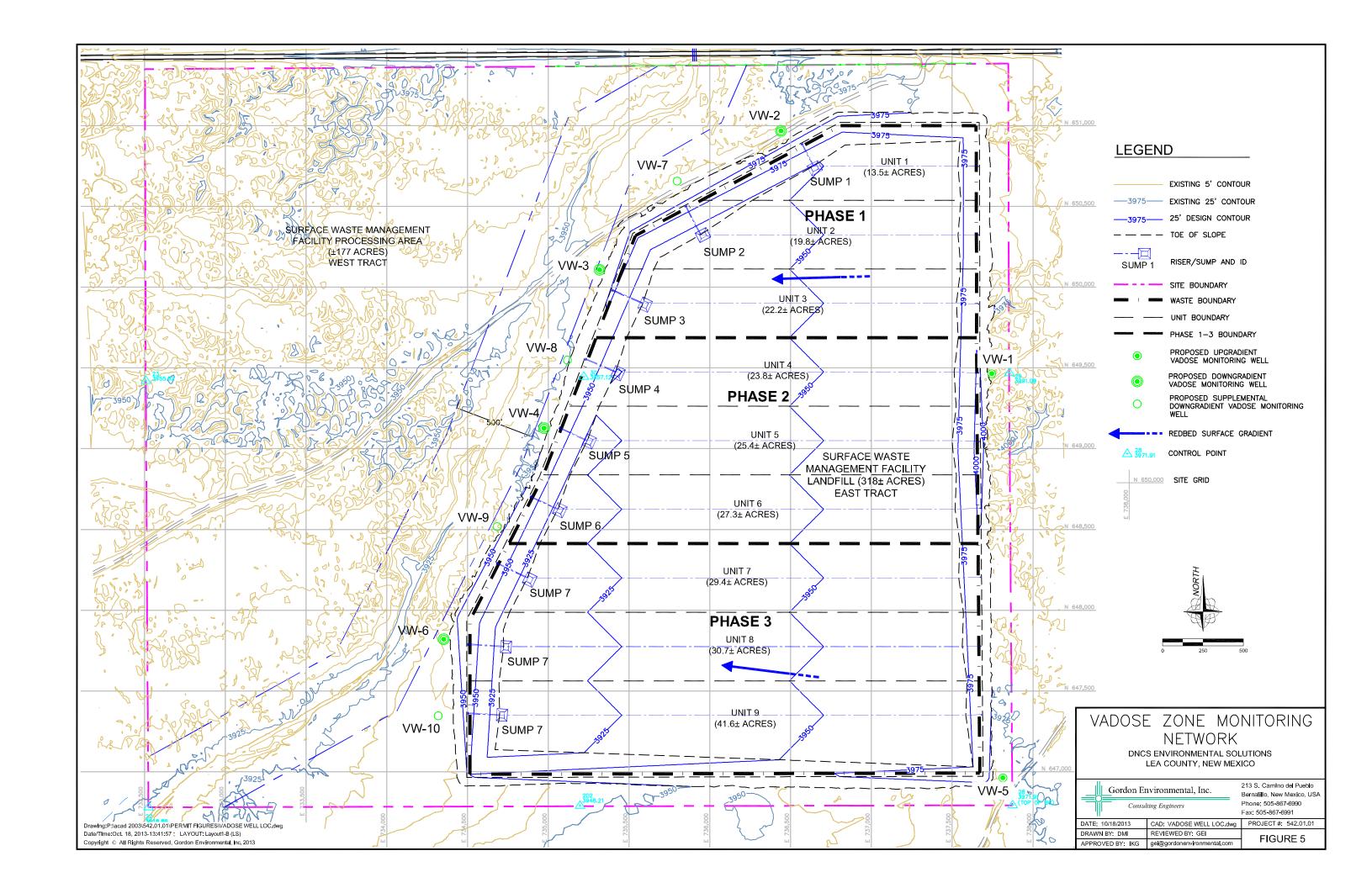


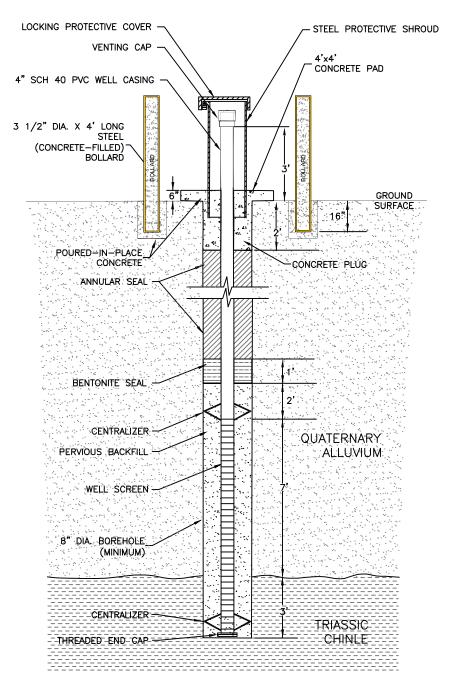
213 S. Camino del Pueblo Bernalillo, New Mexico, USA Phone: 505-867-6990 Fax: 505-867-6991

DRAWN BY: DMI REVIEWED BY: GEI APPROVED BY: IKG gei@gordonenvironmental.com

Drawlng:P:\acad 2003\542.01.01\PERMIT FIGURES\UPDATED FIGURE3.dwg
Date/Time:Nov. 04, 2013-11:34:20; LAYOUT: B (LS)
Copyright © All Rights Reserved, Gordon Environmental, Inc. 2013







TYPICAL VADOSE ZONE MONITORING WELL

NOT TO SCALE

LEGEND

CASING: 4" DIA. SCH 40 PVC

SCREEN: 4" DIA. 0.010" MACHINE SLOT SCH 40 PVC

PERVIOUS BACKFILL: 10-20 COLORADO® SILICA SAND OR EQUIVALENT

ANNULAR SEAL: NEAT CEMENT WITH 2% TO 5% BENTONITE

NOTE:

SPECIFIC VERTICAL DIMENSIONS FOR EACH NEW WELL WILL BE INCLUDED IN OSE AND OCD SUBMITTALS.

Drawlng:P:\acad 2003\542.01.01\PERMIT FIGURES\VADOSE MW.dwg Date/Time:Oct. 18, 2013-14:24:51 Copyright (a) All Rights Reserved, Gordon Environmental, inc. 2013

VADOSE ZONE MONITORING WELL CONSTRUCTION DETAIL

DNCS ENVIRONMENTAL SOLUTIONS LEA COUNTY, NEW MEXICO



213 S. Camino del Pueblo Bernalillo, New Mexico, USA Phone: 505-867-6990 Fax: 505-867-6991

ATTACHMENT II.8.A Proposal for Vadose Zone Monitoring DNCS Environmental Solutions Lea County, New Mexico

ATTACHMENT A-1 LOGS OF GEOTECHNICAL BORINGS AT THE DNCS SITE

	Gordon	n Enviro	onmental, Inc.	Log of Borehole No.: B3	Total Depth _	150'	- &	Page 1 of 2
) C	onsulting E	ngineers	Client: DNCS PROPERTIES, LLC			Pro-c No.:	542.01.01
Wat	er-Level D	ata -	Location COORDS's and Elevation (NAVD88)	02_06_2013	Borehole Information g Co.: PRECISION SAI		El Rep.:	MLH
NONE	Ft. While	Drilling	N: 32.77692°	Date Comp: 02-08-2013	CME 85		rill Meth.:	HSA, AIR ROTARY
•	Ft. at com	•	E: -103.70411	Location: DNCS SITE, LEA COUNTY SE/4, N/2, SEC 6, Driller:	. HIAN DADDAT			SS/BR/CC/ARC/A
(below	ground suri	ace)	Elevation: 3940.23 COORD REF SYS WGS84	T18S, R33E, N.M.P.M. Helper	700 14		ampinig ween.	
		Samplin Metho	ng			Rig		
i. BGS)	Lithology		â	Soil/Lithology Description	i i	Blow Counts/ft		Notes:
				AND SILT; BROWN (WINDBLOWN, LOOS , AND CALICHE LIGHT BROWN (7.5YR			L	BASE OF DUNE SAID
-,			GRADED; POORLY T	MODERATELY INDURATED)	0/ +), (I OOKEI		VARIABLY CALICHE TO 40'	RED FROM 4"
5'			5'-10' CAND. EN	E, WITH CALICHE AND TRACE GRAVEL	TO 1° DINIV	13		
	5.0			RLY GRADED; POORLY TO MODERATELY				
10'	4. T. T.					33		
			incide incide				SPARSE GRAVEL TO ABUNDANT CALICHE	0 27; E FRICHDITS
15'	7.1.	-1				31		
	2			NE, WITH SILT, CALICHE FRAGMENTS, A ((5YR 8/3), (POORLY GRADED; POOR				
20'			MODERATELY INDUR		NEI 10			
						23		
25'	7.3						Familia de la composição de la composiçã	
25						45		
			atomatic control of the control of t					
30'	2		DE' AE' CAND. E	NE WITH ONE CALICUE EDACMENTS	AND BOUNDED	29	TRACE CRAVEL TO	0.5° DIA
			GRAVEL TO 3.5"; L	NE, WITH SILT, CALICHE FRAGMENTS, / GHT REDDISH BROWN (5YR 6/4), (PO				
35'	(0)	d	_POORLY TO MODER	ITELY INDURATED/CALICHEFIED)		20		
					ļ		TRACE GROVEL TO	3.5" DM.
40'					i	32		
			_				NCREASE IN COAR	SE SAID AND CROSE.
45'			UNCONFORMITY	PROGRAMMENT AND ADDRESS OF THE			O CONTACT WITH AND SUISTONES	ISE SAND AND GRAVEL UNDERLYING CLASSIONE EXCIDENCE RESIDES OF 45°
						58	E WOLLDWINGSTON AND S	EJSTONE BEENS & 45" L'ABUNDANT MEATHEIRED ERIDATY AGED SERBA BLANC EMESIONE CLASTS AT TOP
50'	\$ 000 000 000 000 000 000 000 000 000 0		ROUNDED GRAVEL T	ie and siltstone; with caliche fra o 2°; reddish brown (2.5yr 5/4),			OF CLAYSTONE-SIL UNCONFORMITY)	STORE COMPACT /
		1	GRADED; MODERATE	Y INDURATED)		100+		
55'						100+		
60'			55'-70', CLAYSTO	IE AND SILTSTONE; WITH CALICHE FRA	GMENTS, AND	95	HOLE CHECKED FO OVERHOUSE (15.5 I DOWN-HOLE.	HOURS), HO WHER STITING
				D 2"; REDDISH BROWN (2.5YR 4/4), A H LAYERS AND SPOTS (POORLY GRADE				
65'			INDURATED)					
70'		1	70'_85' CLAYSTON	E AND SILTSTONE; LIGHT RED (2.5YR	6/8) AND	07.1	SMICHNIS TO AR-	-RODERY DIRECTOR AT E. CONTRIGUOUS CONTRIO
			VARIEGATED BROWN	TO GREENISH LAYERS AND SPOTS (PO		93+	90'- BOS,-NO-MOR	E COMPLIANS COMPO
₇₅ ,			MODERATELY INDURA					
DOC -	BELOW G	ROUND STEM AT	SURFACE SS = SPLIT S	POON ARC = AIR ROTARY CUTTINGS BR = BRASS RING (SPLIT BARREL "MODIFIED			CC =	CONTINUOUS CORE
wing-P-loc	ad 2003\542.04	O1/DRILL	IGER OGS\B3 DNCS.dwg	CH - DIVISO NINO (STUI DVINEL MOUTEL			113_08-63-26	YOUT: A (P)(p1 of 2)

	1111	. r		Log of Borehole No.: B3	Total Depth _	150'	_ Page 2 of 2
===		Consulting	onmental, Inc.	Client: DNCS PROPERT	ES, LLC		Por No.: 542.01.01
Water Level Data Location COORDS's and			Elevation (NAVD88) N:	Date Started: 02-06-2013 Date Comp: 02-08-2013 Location: DNCS STE, LEA COUNT SE/4, N/2, SEC 6,	Drilling Co.: PRECISION SA	MPLING (GEI Rep.: MLH Drill Meth.: HSA, AIR ROTARY Sampling Meth.: SS/BR/CC/ARC
(below	w ground su level data app	rface)	Elevation: 3840.23 COORD REF SYS WGS84	T18S, R33E, N.M.P.M.	Helper: TINO V.		, , , , , , , , , , , , , , , , , , ,
Deoth	Graphic Lithology	Sampli	ng	Soil/Lithology Descrip		Rig Blow Counts/f	
80'			70'-85', (CONTINUI 6/8), AND VARIEGA GRADED; MODERATE	ED) CLAYSTONE AND SILTSTON TED BROWN TO GREENISH LA' LY INDURATED)	e; light red (2.5yr /ers and spots (poorly	160+	STREET END SAMPLES ERRORS DOWN-HOLE SMALL DAMAGED BROSS RIVE SAMPLE RECOVERED. RECOVERED
85'			85'-90', CLAYSTON VARIEGATED BROWN MODERATELY INDUR	E AND SILTSTONE; PALE RED TO GREENISH LAYERS AND S ATED)	(2.5YR 6/2), AND POTS (POORLY GRADED;	100+	
90' 95'				ne and siltstone; light rei		100+	SOME MINON-CALCITE VEHILETS AND PARTIN CONTINUS NO MORE SPLIT-SPOON SAMPLING ONLY AMB-ROTARY CUSTINGS FROM 90.25" TO 180 503
100'			VARIEGATED BROWN MODERATELY INDUR	to greenish layers and s ated)	POTS (POORLY GRADED;		
105'							
115'			i110'—115', CLAYSTO variegated brown moderately indur	one and siltstone; light re to greenish layers and s ated)	ED (2.5YR 7/6), AND POTS (POORLY GRADED;		
20'				ONE AND SILTSTONE; REDDISH ROWN TO GREENISH LAYERS A LY INDURATED)			
30'							
35' 40'				ystone and siltstone; red to greenish layers and s ated)			DRILLHOLE CHECKED FOR
45' 50'				KEV			WATER AFTER SITTING OVERNIGHT; NO WATER. NO WATER SATURATION OF ANY MATERIAL ON AUGERS PRIOR TO PLUGGING HOLE. ID=150'
BCS =	= BELOW (STEM A	SURFACE SS = SPLIT S UGER LOGS/83 DNCS.dwg	SPOON ARC = AIR ROTARY BR = BRASS RING (SPLIT BARREL	"MODIFIED CALIFORNIA SAMPLI	ER")	

Gordon Environ	mental, Inc.	Log of Borehole No.: B4	Γotal Depth1	50'	Page 1 of
Consulting Eng	ineers	Client: DNCS PROPERTIES, LLC			Pro-c No.: 542.01.01
	ocation COORDS's and	02_09_2013	le Information		J
	Elevation (NAVD88)- N: 32.77700 *	Date Comp: 02-09-2013 Drilling Co.: P	RECISION-SAMPL	JNG GI	EI-Rep.:MLH_ HSA, AIR ROTARY
(below ground surface)	-103.69465*	Location: DNCS SITE, LEA COUNTY Rig Type:	CME 85		rill Meth.:
	Elevation: 3968.2	Dine	JAN BARRAZA	Sa	impling Meth.: SS/BR/CC/A
	OORD REF SYS_WGS84	T18S, R33E, N.M.P.M. Helper:	TINO V.	Dia .	P*************************************
Depth Graphic Sampling	1			Rig Blow	
(fl. BGS) Lithology	0_2' SAND FINE	Soil/Lithology Description ND SILT; BROWN (WINDBLOWN, LOOSE)	Cor	unts/ft	Notes:
		RED (2.5YR 4/6), (POORLY GRADED; POO	PI V TO	-	UNICOMPORMITY CALICHEFIED FROM 4" TO 40"
5'	MODERATELY INDURA		Při silovolní ří		
	5'-10', CALICHE A	ND SAND; FINE, WHITE (2.5YR 8/1), (POOR		84+	
	GRADED; MODERATEL	Y INDURATED)	Period 4.07*		
10'				82+	
		and Sand; fine, pinkish white (2.5yr b/: Oderately indurated)	2),		
15'		·			ND SS SWPLE COLLECTED
		ND SAND; FINE, LIGHT REDDISH BROWN (2	.5YR 6/4),		
20'	(POORLY GRADED; M	ODERATELY INDURATED)			
20	20'-25', SAND: FINE	. AND CALICHE, LIGHT REDDISH BROWN (2.	5YR 7/3).	34	
		OORLY TO MODERATELY INDURATED)			
25'				35	
		E, AND CALICHE, LIGHT REDDISH BROWN (2. OORLY TO MODERATELY INDURATED)	.5YR 7/4),		
30'		·	Nichten-sirini Nichten-sirini	39	
		, AND CALICHE, LIGHT REDDISH BROWN (2.			
35'	(POOKLY GRADED; P	DORLY TO MODERATELY INDURATED)			DUNE SMID?
33	30'-40'. CALICHE /	AND SAND; FINE, PINKISH WHITE (2.5YR 8/	2).	90	ABUNDANT-ROOT CASTS AND VOIDS
		ODERATELY INDURATED)			
40'		AND ONE THE AND ORDER TO AR OHIO		34+	
Ö		and sand; fine, and gravel to 1"; pink Moderately graded; moderately indurati			
45' Š				33+	
o 🛬 🗖	30'-40', CALICHE, (2.5YR 8/2), (POOR	sand; fine, and gravel to 1", pinkish v Ly to moderately graded; moderately (ALITE I		
50'	UNCONFORMITY				UNCONFORMEY
50			elección de la companya de la compa	70	
Total Park Total	eo' ce' ou weton	E AND CHITTONE, WITH CALIDIE EDACHERIE			
55'	ROUNDED GRAVEL TO	e and siltstone; with caliche fragment) 0.5" at top; dark reddish brown (2.5	YR 3/4) 7	70+	
The state of the s		ed Brown—Purple and Green Layers ai Oderately Indurated)	ND SPOTS,		
60'		··		34+	
Property of the control of the contr			-		
65'					
			_9	10+	GOBIO TO AIR-ROTARY DRELLING FROM 68" TO 150" BOS.
	65'-75', CLAYSTON	E AND SILTSTONE; REDDISH BROWN (2.5YR	4/4) WITH		
70'		rown—purple and green layers and sp oderately indurated)	UIS,		
The state of the s			1 mm - mm		
75'		KEY	dissilantin		
BGS = BELOW GROUND SI HSA = HOLLOW STEM AUG	URFACE SS = SPLIT SI EER F		AC = AUGER CL ORNIA SAMPLER®		CC = CONTINUOUS CO
HSA = HOLLOW STEM AUG awing:P:\acad 2003\542.01.01\DRILL LOC	CDD4 ONCS Ave				013-08:54:41; LAYOUT: A (PXp1 of 2)

	Gordo	n Envi	ironi	mental, Inc.		rehole No.:	B4		Total D	epth	150'	- 💢	Page 2 of
		Consulting	Engi	neers	Client:	DNCS PRO	PERTIE:	s, llc				Dolec No.:	542.01.01
				ocation COORDS's and	1000	02.08	2017	1	hole Infor				
	ter Level D		_	Elevation (NAVD88) 1: 32.77700°	Date Started Date Comp:	00 00		Drilling Co.	PRECISIO	ON SAMP	PLING	GEI Rep.:	MLH-
(below	w ground su	rface)	- 33	-103.69465°		ICS SITE, LEA		Rig Type:_	CI	ME 85	I	Orill Meth.:	HSA, AIR ROTARY
NON	Ft. at cor	npletion	- 1	levation: 3968.2	CE	NTRAL SEC 6	<u>. </u>	Driller:	JUAN B	ARRAZA	8	Sampling Meth.	SS/BR/CC/A
	w ground sur level data appr		- 1	OORD REF SYS_WGS84	T18S,	R33E, N.M.F	P.M.	Helper:	TINO) V.	_		
Denth	Graphic	Samp. Meth	-								Rig		
	Lithology		e A		S	oil/Lithology [Descriptio	n		1	Blow ounts/f	ì	Notes:
70												AR RODARY CUTTI OR BR SWAPLES	NGS CHLY, NO MORE A
				75'-85', CLAYSTON	IE AND SIL	TSTONE; RED	DISH BI	ROWN (2.5	rR 5/4)	МШН			
80'				SPARSE VARIEGATED (POORLY GRADED: M				LAYERS AN	D SPOTS	• [
			-	(1 CONET OF DED, M	ODLIVILLI	indoivile)				F			
051												_	
85'													
			-	85'–95', CLAYSTON	IE AND SIL	.TSTONE; RED	DISH BE	ROWN (2.5	(R 4/3)	WITH			
3 0,				SPARSE VARIEGATED (POORLY GRADED; P	BROWN-P	URPLE AND (green i	LAYERS AN	D SPOTS				
				(POORL) GRADED, P	OOKLI IO	MODERATELI	INDURA	(IED)		_			
95'			10	95'-100', CLAYSTO	NE AND S	ILTSTONE: RE	D (2.5Y	R 5/6) WI	TH SPAR	SE			
				VARIEGATED BROWN-	-PURPLE A	ND GREEN L	AYERS A	ND SPOTS	. (POORL	Y			
100'				GRADED; MODERATEL									
			(0-	100'-105', CLAYST VARIEGATED BROWN-	ONE AND	SILTSTONE; RI	ED (2.5	YR 5/8) ¥	ITH SPAI	RSE			
				GRADED; MODERATEL			NILIG F	WED SPUIS	, (FOOR	-			
105'													
110'				105'-115', CLAYSTO	15', CLAYSTONE AND SILTSTONE; REDDISH BROWN (2.5YR 5, PARSE VARIEGATED BROWNPURPLE AND GREEN LAYERS AND			.5YR 5/3	3)		ļ		
				SPOTS, (POORLY GR	ADED; MOE	ERATELY IND	URATED))	.5 7415				
										İ			
115'				115'-120', CLAYSTO	ONE AND S	SILTSTONE: RI	ED (2.5	YR 5/6) W	ITH SPA	RSE			
i				variegated brown-	-PURPLE A	nd Green La	AYERS A						
120'				GRADED; POORLY TO	MUDERAII	ELY INDUKATE	(U)						
				130'-130', CLAYSTO	ONE AND S	SILTSTONE: RI	ED (2.5	YR 5/8) W	ITH SPAI	RSE			
125'				VARIEGATED BROWN-	-PURPLE A	nd Green L							
				GRADED; MODERATEL	T INDUKAI	ED)							
130'			H										
				130'-135', CLAYST(WITH TRACE VARIEGA									
4761				(POORLY GRADED; M	ODERATELY	INDURATED)			7.1.2				
135'				135'-140', CLAYSTO	ONE AND S	SILTSTONE; RE	EDDISH	BROWN (2	.5YR 5/3	3)			
				with trace variega (poorly graded; po					AND SP	POTS,			
140'			H	(——[=			
										ŀ			
145'				140'-150'=TD, CLA' (2.5YR 6/4) WITH TF						YERS			
. 73				AND SPOTS, (POORL)									
												CHECKED DISLUNCE CHECKERT, NO VER	E FOR WITER AFTER ST TER, COMERNED ALDER NIED MITERAL ON AUG
150 <u>'</u>						KEY						70-450°	
	= BELOW G = HOLLOW			RFACE SS = SPLIT SF	Poon Br = Brass	ARC = AIR R				AUGER (= 30 z	CONTINUOUS CO

	Gordo	n Env	/ironr	nental, Inc.	Log of Borehole No.: B5 Total	Depth	Page 1 of 2
=		Consultin	_		Client: DNCS PROPERTIES, LLC		Poc No.: 542.01.01
				ocation COORDS's and	Borehole Info	ormation	Δ,
	NONE Ft. While Drilling N: 32.78815				Date Started: 02-10-2013 Date Comp: 02-11-2013 Date Comp: 02-11-2013	SAMPLING	
	w ground su		ng IN	-103.69491*	Location: DNCS SITE, LEA COUNTY Rig Type:	CME 85	Drill Meth.: HSA, AIR ROTARY
NON	Ft. at con	npletio	n E	levation: 3979.03	Driner.	BARRAZA	Sampling Meth.: SS/BR/CC/ARC
	level data appr		- 1	OORD REF SYS WGS84	T17S, R33E, N.M.P.M. Helper: TIN	Ю V.	
Depth	Graphic	Sam Met	pling hod	N		Rig Blov	•
	Lithology				Soil/Lithology Description	Count	N
				D-3' SAND, FINE A	ND SILT; BROWN (POORLY TO MODERATELY INDU	JRATED .	"BERIND" SOL. HORZON? 0-3" BOS; MOST DI SAND HAS BEEN REMOVED BY MINING FROM THIS LOCKTON
				3'-5', CALICHE AN	SAND; FINE, WHITE (5YR 8/1), (POORLY GRAL	DED,	INCONFORMITY
5'		-		MODERATELY INDURA	•	1004	SURPRITA CATIONELED LUON 2, 10 10,
				5'-10', CALICHE A GRADED; MODERATEL	ND SAND; FINE, PINKISH WHITE (5YR 8/2), (POI Y INDIBRATED)	ORLY	
10'				OFFICE AND ELECTRICAL	- Moorale y		
10							
						_	
15'					, and caliche; light reddish brown (2.5yr dderately indurated)	//4).	
				•	,		
20'	ر کار کرد از کار کرد						
2.0		9-1		20'-25', CALICHE A	ID SAND, FINE, AND GRAVEL TO 0.5"; PINKISH 1	WHITE 42	TRACE MIGH SPINED SPOTS TO JUNE DA.
	Ď.			(5YR 8/2), (POORL)	GRADED; MODERATELY INDURATED)		
25'					- 	29_	
	2.6						
30'							
50						36_	
					, CALICHE, GRAVEL AND CALCITE CLASTS TO 1";	PINK	
35'				(5YR //4), (POORL)	GRADED; MODERATELY INDURATED)	_100+	M-OH-CALOTTE VENEZIS, VENTYACTS AND TROOT CASTS & 35'-38' (UNCONFORMLY OR PEDOGENIC HORIZONY)
40'							
						60_	
45'						74+	
					, CALICHE AND GRAVEL TO 2"; LIGHT REDDISH (POORLY GRADED; POORLY TO MODERATELY		
50				INDURATED)			
					AND, FINE, AND GRAVEL TO 2"; PINKISH WHITE	_88+	
				(2.5YR 8/2), (POOR	LY TO MODERATELY GRADED; MODERATELY INDUR	ATED)	
55'						_100+	PRIMER WEIGHT PROBLEMS (FOZE)
				55'-65' SAND FINE	, CALICHE, AND GRAVEL TO 2" TRACE CLAY AND) SIIT	
60'				● 64-65'; LIGHT RE	DDISH BROWN (2.5YR 7/3), (POORLY TO	100+	
	125 US			MODERATELY GRADED	MODERATELY INDURATED)	1001	
				LINOONEODM			
65'	• • •			UNCONFORMITY		83+	NUMBER OF STREET OF SECTION OF SEC
					AND SILTSTONE; WITH CALICHE FRAGMENTS; DA		
70'					YR 3/3) WITH SOME VARIEGATED BROWN—PURP AND SPOTS, (POORLY GRADED; MODERATELY	LE 100+	DOING TO ARE-RODARY DIRLLING
				NDURATED)			FROM 70'-10-150'-808.
75' BGS	= BELOW G	ROUN	D SU	RFACE SS = SPLIT SI	CON ARC = AIR ROTARY CUTTINGS AC =	= AUGER CUTTI	NGS CC = CONTINUOUS CORE
HSA	= HOLLOW	STEM	AUG	R E	R = BRASS RING (SPLIT BARREL "MODIFIED CALIFORNIA		
Drawing:P:\a	acad 2003\542.0	1.01\DRI	ILL LOG	SIB5 DNCS.dwg		Date/Time:May. 3	1, 2013-08:56:13; LAYOUT; A (P)(p1 of 2)

	Gordo	on Envir	ronmental, Inc.	Log of Borehole No.: B5	Total Depth _	150'	Page 2 of 2
=		Consulting	Engineers	Client: DNCS PROPERTIES		· · · · · · · · · · · · · · · · · · ·	Pocc No.: 542.01.01
			Location COORDS's and	00 40 0047	Borehole Information		<u>V</u>
	ter Level I		Elevation (NAVD88)	Date Started: 02-10-2013 Date Comp: 02-11-2013	Drilling Co.: PRECISION SA	MPLING (GEI-Rep.: MLH
	Ft. While w ground su		N: 32.78815° E: -103.69491°	Location: DNCS SITE, LEA COUNTY	Rig Type: CME 8	5I	Orill Meth.: HSA, AIR ROTARY
NON (belo	Ft. at cor	mpletion rface)	Elevation: 3979.03	EAST CENTRAL SEC 31,	Driller: JUAN BARRA	ZA S	Sampling Meth.: SS/BR/CC/ARC
water	level data app		COORD REF SYS WGS84	T17S, R33E, N.M.P.M.	Helper: TINO V.		
	Graphic Lithology		od	Soil/Lithology Description	n	Rig Blow Counts/f	Notes:
75'		SKC	75'-80'. CLAYSTO	NE AND SILTSTONE; WEAK RED	(2.5YR 4/2) WITH	100+	
				BROWN-PURPLE AND GREEN LA	yers and spots,		
201			[POORLY GRADED;	MODERATELY INDURATED)			
80'					•		
85'				NE AND SILTSTONE; REDDISH BI			
				ated brown—purple and grei Moderately indurated)	en layers and spots,		
			(FOOKLI GIODED,	MODERATELI INDONATED)			
-90,							
95'							
			95'105', CLAYST	ONE AND SILTSTONE; RED (2.5Y	R 5/6) WITH SOME		
100'				-PURPLE AND GREEN LAYERS			
			GRADED; MODERATE		, ,		
105'							
			405' 445' 0100	TONE AND OUTSTONE DEPOSIT	DD0441 (0.510 5.(4)		
110'				tone and siltstone; reddish Ated Brown—Purple and Gree			
				MODERATELY INDURATED)	LICENCIA THE COO.	<u> </u>	
				·			
115'							
110			155'-120'. CLAYS	TONE AND SILTSTONE; LIGHT RE	DDISH BROWN (2.5YR		
			☐ 6/4) WITH SOME V	ARIEGATED BROWN—PURPLE AND	GREEN LAYERS AND		
100'			SPOTS, (POORLY G	RADED; MODERATELY INDURATED)		
120			120'-125', CLAYS	TONE AND SILTSTONE: REDDISH	BROWN (2.5YR 5/3)		
			WITH SOME VARIEGA	ATED BROWN-PURPLE AND GREE			
			POORLY GRADED;	MODERATELY INDURATED)			
125							
			H.051 4751 51	TOUR AUD ON TOTAL	D (0 EVB 0 (0)		
				tone and siltstone; light re Brown—Purple and green la'			
30'				MODERATELY INDURATED)	TENED OF CIO		
				•			
135'			136'-140' 0140	TONE AND OUTETONE DEPOSIT	DOOWN (2 EVD E /4)		
				ione and siltstone; reddish Ted Brown—Purple and Gree			
				MODERATELY INDURATED)			
40'							
				AYSTONE AND SILTSTONE; RED			
45'				Brown—Purple and Green La' Moderately Indurated)	IERS AND SPUIS,		
			[]				destination the second second
							CHECKED DRILLHOLE FOR WATER AFTER SITTING OVERNIGHT, NO WATER; OBSERVED ALIGER FULLING, NO SKILIRKTED MATERIAL ON ALIGERS
ا-50			L.L	KEY		L	TO-450°
BGS	= BELOW (GROUND	SURFACE SS = SPLIT S	POON ARC = AIR ROTARY CL			S CC = CONTINUOUS CORE
HSA	= HOLLOW	SIEM A	LOGS\85 DNCS.dwg	BR = BRASS RING (SPLIT BARREL ")	MUJIFELI CALIFONNIA SAMPL	EK }	
rawing:P:\	acad 2003\542.0	01.01\DRILL	LOGS\B5 DNCS.dwg		Date/T	ime:May, 31,	2013-08:56.44; LAYOUT. A (P)(p2 of 2)

(F)	Gol	der ciates	Mor	nitor Well/Piezometer	Log	l							ş	
SITE NAME	AND LOCAT	TION: name and location	DRILLING METHOD: Hallow	· Sten Angen 61/211 0:	D.						BORIN		3	
	Happe,	Perties	SAMPLING METHOD: LT"	LP Sold Sharan								2	N	
i i			1.511	ID Drass 1 18/19		_					DF	FINISH	Alex	
NORTHING	32041	2 37.19		WATER LEVE	Z	7					092		¥	
DATUM: an	nsl MAD				6/	2/2	013				DATE		Ŋ	ı
	CMT2-7	5 DEADING:	SURFACE CONDITIONS: Dr	is. Und blown fine sand			10	1-15	رملا	res.	New	10711	mp ling	
ANGLE: 90		BEARING: -	CEIMPE COVST FO) ça .									S. S.	
DEPTH IN FEET (ELEVATION)	WELL Sample COMPLETION DETAILS		AMPLE NUMBER AND DESCRIPTION CL reaction, cementation, max. particle size	ON OF MATERIAL o, gravel/cobble hardness, odor, interbeds, (am.)	% OVERSIZE ¹	% GRAVEL ²	% SAND ²	% FINES ²	COLOR	CONSISTENCY³/ CEMENTATION⁴	PERCHAMINA (np. l, m, h)	Blows OTHER TESTS*	DRILLING CONTRACTOR FIPE 15 19	
=		0-2 511	Bry to's", from slight	Blown Rel (2.5724/6) by moist									3 CONTRA	
	5-6	2-7 Sn	d, Fine, with Co savets tolly, Light ty-Poorly Graded, To	alrehet Trace at Brown (7.5476/4) only to Mud. Fodurated								23 22	DRILLIN	
	Spoon	1	Fine, with Galico	our, (7.57KG/6)								20	ربعوا	218
_ _ _	10-11.5 5711+ 5700n	I -	ionly Graded, Poar Fudurated/Glishi	•								43	cal Ref	101
l3	15-165 Split Speen	(3-27 Sand	Fine, With Called ol". Reddish Yellon vell Graded, Proden Calconiticals Dry.	he + Some Gmill , (7.5727/4)								23 50+	LOGGED BY: McJecol Petersen	DATE: 6/11-6/17/20
	20-21.5 Split Speran		•									25 25 35	,	
- - - - - - - - -	25-265 Split Spoon	77-48 Sand	Fine, with filt or up to 1". Light B	calrele, Taco Circuels rown (7.57R6/4) durated. Dry.								5-11	OB NO. 130 0444	FILE NAME:
	30-31.5 Sp.t Spoon											23 29 35		FILE
<u>-</u>	35-365											1831		

Â	Gol	der ciates	Monitor Well/Piezometer Log		\ \ \
I	NCS Ltubbs	NON: name and location COOLD NORMALL MM	SAMPLING METHOD: 1.5" ID 421+50000 1.5" ID Blass Ray STORY STO	DRING NO. IS-6 HEET Z DRILLING TART FINISH	Alex Sawhen
EASTING: DATUM: a ELEVATIO DRILL RIG ANGLE: 90	amsi DN: B: CNE75	BEARING: -	DATE	1:20 11:80 DATE DATE \$\frac{2}{\psi} 6/12	Sampling - Alex
DEPTH IN FEET (ELEVATION)	WELL SCHIPLES COMPLETION DETAILS	(i.e., angularity, moisture, HC		(mp.1, m, h) S(C)\ OTHER TESTS' CONNTE	DRILLING CONTRACTOR PRE 01550
- - - - - - - - - - - - - - - - - - -	40-41.5 Split spown	P	Pto 1". Light Brown (75426/4) corty Froburated, Dry- Finely layred (2-5 mm) horizons bying 35' Similar Soil Characteristies.	1\$ 19 14	DRILLING CONTRA
- - - - - - - - - -	45-46.5 Spl. t Spean	_	l, Well Graded w/ Caliche. Trace wels up to l". White L2.578/1) ell Indurated / Calichified. Dry.	lo lo	LOGGED BY: Michael Petersen DATE: 6/11-6/12/2017
	50- 51.5 Split spece	₩ ₩	ell Indurated / Calvahified. Dry. Deoreasal Penetratia Rate	32 21 23	LOGGED BY: \
= = = = = = = = = = = = = = = = = = =	60-61.5 KPU+ SPMON G5-66.5 FALT SFEON	Uncomform	ofty	12 324 22 50+	JOB NO. (3 O O Y L/L) FILE NAME:
_	70-70.5 Split Span 70.5-7.1 Bress Rive	<u> </u>	stone and Siltstone, with Calicha eresments, Derk Reddish Brown (2.54 R3/3) bookly to moderately Graded, Moderately Findwrated, Pry- ecousy from Brass Ring Sample, intitipes on sample Depth	50+ 70+	JOB ? FILE?

ATTACHMENT II.8.A Proposal for Vadose Zone Monitoring DNCS Environmental Solutions Lea County, New Mexico

ATTACHMENT A-2 SELECTED WELL DATA FROM WELLS IN THE VICINITY OF THE DNCS SITE (GEOHYDROLOGY ASSOCIATES, 1978)

COLLECTION OF HYDROLOGIC DATA

EASTSIDE ROSWELL RANGE EIS AREA

NEW MEXICO

by

Geohydrology **A**ssociates,**I**nc.

for

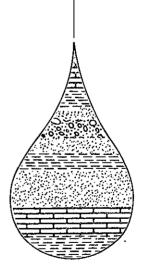
BUREAU OF LAND MANAGEMENT
Denver, Colorado

Contract No. YA-512-CT7-217

1201 Childers Dr., N. E., Albuquerque, N. M. 87112 505-293-6971

3225 Candelaria Rd., N.E., Albuquerque, N.M. 87107 505-345-5713

June 1978



COLLECTION OF HYDROLOGIC DATA EASTSIDE ROSWELL RANGE EIS AREA NEW MEXICO

by
GEOHYDROLOGY ASSOCIATES, INC.
Albuquerque, New Mexico

for
BUREAU OF LAND MANAGEMENT
Denver, Colorado

Contract No. YA-512-CT7-217

CONTENTS

<u>P</u>	age
INTRODUCTION	1
SURFACE WATER	4
Drainage Basins	4
Climatic Conditions	7
Rainfall-Run-off Relationships	8
Effects of Ground Cover on Floods	12
Flood Projections	16
Chemical Quality	26
Human Health Standards	28
Standards of Livestock Water Use	29
Standards for Irrigation Use	29
GROUND WATER	36
Water-Table Contour Maps	38
Chaves County	38
Eddy County	40
Lea County	40

· Pag	<u>je</u>
Depth-to-Water Maps4	L
Chaves County42	2
Eddy County42	2
Lea County43	3
Water-Level Fluctuations44	1
Well Yields52	2
Yields less than five gpm	ļ
Yields of five to ten gpm	ļ
Yields of 10 to 100 gpm	>
Yields greater than 100 gpm55	;
Springs in the Eastside Roswell Area56	;
Chemical Quality58	}
SUMMARY	}
BIBLIOGRAPHY	}
APPENDIX A98	}

IŁLUSTRATIONS

	Page	
igure 1System of numbering wells in New Mexico	3	
2Eastside Roswell area showing major drainage basins	5	
3Map of part of Chaves County showing integrated drainage basins(in pocket))
4Map of part of Eddy County showing integrated drainage basins(in pocket))
5Map of Lea County showing integrated drainage basins(in pocket))
6Mean annual precipitation in inches for Eastside Roswell area	9	
7Relationship between run-off and annual precipitation.	13	
8Potential annual run-off, in inches, for Eastside Roswell area	15	
9Surface-water stations maintained by U. S. Geological Survey	27	
10Distribution of major constituents in surface-water samples from the Eastside Roswell area	33	
11Water-table contour map of part of Chaves County(in pocket)
12Water-table contour map of part of Eddy County(in pocket)
13Water-table contour map of Lea County(in pocket)
14Depth-to-water map of part of Chaves County(in pocket)
15Depth-to-water map of part of Eddy County(in pocket)
16Depth-to-water map of Lea County	in pocket	١

Page

igure	17Estimated yields from wells in the Eastside Roswell area53
	18Chemical-quality sample points in Chaves County(in pocket)
	19Chemical-quality sample points in Eddy County(in pocket)
	20Chemical-quality sample points in Lea County(in pocket)
	21Ion distribution in samples from the Rustler Formation
	22Ion distribution in samples from Triassic rocks72
	23Ion distribution in samples from the Ogallala aquifer74
	24Ion distribution in samples from alluvial aquifers75

TABLES

	<u>Page</u>
Table	1Average annual precipitation (since 1900) for stations in and near the Eastside area10
	2Summary of regression equations relating floods of various recurrences to active channel widths
	3Streamflow characteristics20
	4Water-level records of selected observation wells
	5Records of springs in Eastside Roswell area57
	6Chemical analyses of water60

E A C O U N T '

•

.

-

•

•

.

· •

•

Records of wells from Lea County, New Mexico

Remarks		•			
Date of Measurement	Jan.7,1975 Feb.17,1971 Feb.17,1971 Feb.18,1966 Feb.17,1971	Mar.18,1958 Jan.7,1975 Jan.6,1952 Feb.11,1971 Feb.11,1971	Feb.11,1971 Feb.12,1971 Feb.12,1971 Feb.12,1971 Feb.11,1971	Feb.11,1971 Feb.11,1971 Feb.26,1963 Feb.26,1963 Feb.11,1971	Jan.7,1975 Feb.11,1971 Feb.11,1971 Feb.15,1961 Mar.15,1966
Aquifer	0911 0911 0911 0911	0g11 0g11 0g11 0g11	0g11 0g11 0g11 0g11	0911 0911 0911 0911	0911 0911 0911 0911
Depth to Water(ft.)	57.48 56.29 58.74 66.44 81.72	61.22 97.42 41.33 62.92 62.34	71.68 62.98 45.09 54.85 69.03	75.90 57.76 54.74 60.50 68.84	83.54 77.22 60.30 51.89 165.85
Depth of Well(ft.)	118.0	140.0		132.0	172.0
Altitude (feet)	3755 3749 3737 3722	3693 3694	3702 3702 3704 3695 3685	3680 3684 3673.02 3673	3678.7 3681 3682 3661 4225
Well Status	Irrigation Irrigation Irrigation Used windmill Irrigation	Irrigation Irrigation Used well Irrigation Irrigation	Irrigation Abandoned irrigation Irrigation Irrigation Irrigation	Irrigation Irrigation Irrigation Irrigation Open cased hole	Irrigation Irrigation Irrigation Abandoned stock Irrigation
Location	16.38.30.211 30.31111 30.41334 31.24434 32.42113	34.131 34.131 35.110 35.124114 35.21112	35.33122 16.39. 5.31132 6.31111 7.33132 17.311142	17.34422 19.133121 20.13311 20.31111 20.41143	29.23332 29.343344 30.11413 30.43424 17.32. 1.32343

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.32. 1.32343 2.433 2.434 2.434 2.4343	Used oil test Industrial/domestic Industrial/domestic Industrial Industrial	4225 4240 4240 4195	200 192 190	173.19 60 60 148.33	0911 0911 0911 0911	Mar.10,1966 1948 Jun.1,1950 Mar.14,1961	Yield:50gpm(est
3.13443 3.140 3.320 3.32114 3.43333	Unused industrial Industrial None Industrial Industrial	4239 - 4250 4232 4200		168.14 175.6 162.21 136.89	0911 0911 0911 0911	Feb.10,1966 Jul.21,1954 Feb.8,1971 Feb.8,1971	Oil test
4.442 11.231 11.233 11.34332 11.411	None Industrial/domestic Industrial/domestic Open hole Industrial/domestic	4180 4180 4200 4096 4170	139 140 200	82.9 70 47.11 70	Qtal Ogll Ogll? Ogll? Ogll?	Jun.3,1954 Sep.20,1947 Feb.8,1971 Jun.15,1946	Yield:9gpm(est) Yield:90gpm(est)
11.411 12.44414 14.12121 17.33. 3.14134 4.241441	Industrial/domestic Abandoned stock Domestic Unused Oil test	4168 4092 4184 4183	130	70 120.13 31.53 146.98 159.58	0911 ? 0911 0911 0911	Sep.23,1947 Feb.11,1966 Feb.8,1971 Feb.14,1966 Feb.18,1971	Yield:50gpm(est)
4.44322 4.4444 5.22221 6.11111 6.42411	Unused Shot hole Industrial Used floodwell Unused	4179 4173 4198 4198 4223	152.0 310.0	149.72 145.20 145.20 162.20 209.87 181.94	0911 0911 0911 0911	Feb,6,1961 Mar.14,1961 Mar.31,1971 Mar.31,1971 Feb.18,1971	

Records of wells from Lea County, New Mexico

Remarks					
Date of Measurement	Feb.15,1971 Feb.15,1971 Feb.15,1971 Feb.16,1971 Jan.8,1975	Jan.17,1961 Feb.11,1966 Feb.15,1971 Mar.13,1961	Mar.14,1961 Feb.15,1971 Feb.16,1971 Feb.16,1971 Jan.3,1967	Sep.7,1956 May 11,1954 Mar.14,1961 Feb.16,1971 Feb.16,1971	Feb.16,1971 Feb.16,1971 Feb.16,1971 Feb.16,1971 Feb.16,1971
Aquifer	0911 091 0911 0911	0911 0911 0911 0911	0911 0911 0911 0911	0911 0911 0911 0911	0911 0911 0911 0911
Depth to Water(ft.)	192.54 188.61 171.39 122.79 165.46	175.54 165.43 182.83 196.59	147.39 163.45 155.17 157.62 140.07	162.35 198.0 201.35 61.43 69.14	130.96 85.94 86.15 99.79 130.33
Depth of Well(ft.)	252	220	160.0	200.3 241	
Altitude (feet)	4234 4229 4191 4118 4124	4123 4176 4216 4230 4224	4165 4173 4140 4143	4125 4185 4188 4044	4082 4057 4048 4079 4123
Well Status	Open hole Open hole Open cased hole Used windmill Observation	Industrial Stock Domestic Industrial/domestic Industrial	Open hole Used windmill Used windmill Open cased hole Industrial	Abandoned industrial None. Industrial Used oil test Domestic	Open cased hole Used windmill Abandoned Used windmill Open cased hole
Location	17.33. 7.141221 7.323221 9.342113 12.24333 13.341	13.434 16.24242 18.22133 18.322 18.322	20.221443 20.24143 22.43233 23.3132 25.244	26.422 28.110 29.222221 29.34411 30.12432	33.4224 17.34. 2.1310 2.343442 4.4320 7.213242

Records of wells from Lea County, New Mexico

Remarks		·		•	
Date of Measurement	Feb.3,1971 Aug.3,1971 Jan.23,1962 Jan.11,1957 Feb.3,1971	May 22,1953 Feb.3,1971 Jan.7,1975 Aug.3,1971 Feb.3,1971	Jan.7,1975 Feb.4,1971 Jan.23,1962 Feb.3,1971 Feb.3,1971	Feb.22,1966 Feb.22,1966 Feb.4,1971 Jan.6,1970 Feb.4,1971	Mar.18,1968 Feb.23,1971 Apr.6,1971 Apr.6,1971 Apr.5,1966
Aquifer	0g11 0g11 0g11 0g11	0g11 0g11 0g11 0g11	0911 0911 1190 1190	0911 0911 0911 0911	Ogll Trcl Trcl Trcl Qtal
Depth to Water(ft.)	48.23 48.0 33.92 37.10 56.97	41.12 56.97 50.32 59.61 66.90	48.18 56.93 68.37 78.07 64.04	50.04 66.20 64.39 87.78 80.17	84.18 179.35. 434.41 117.46 60.10
Depth of Well(ft.)	112.0 125.0	56.0	126:0	165.0	100 270.0
Altitude (feet)	3682 3673.9 3704	3691 3684 3689	3660 3659 3674 3663	3648 3657 3640 3642	3793 3470 3763 3721 4015
Well Status	Irrigation Irrigation Irrigation Used well Irrigation	Irrigation Irrigation Irrigation Irrigation	Irrigation Irrigation Irrigation Used windmill Irrigation	Abandoned stock Abandoned irrigation Irrigation Irrigation Irrigation	Uncased open hole Domestic Oil test Windmill Open cased hole
Location	17.38.21.41211 23.111141 27.133 30.113 30.12111	30.312 31.21111 31.31111 31.41422 32.232432	34.113 35.14413 36.212 17.39.18.13314 18.33242	19.31332 30.23444 31.42121 32.111 32.41322	18.32.16.22433 20.13311 22.32322 34.22241 18.33. 3.34133

Records of wells from Lea County, New Mexico

Remarks					
Date of Measurement	Feb. 19, 1971 Feb. 9, 1971 Feb. 9, 1971 Feb. 9, 1971 Feb. 5, 1971	Feb.8,1971 Feb.8,1971 Jun.3,1954 Feb.9,1971 Mar.6,1968	Dec.9,1958 Feb.9,1971 Dec.9,1958 Mar.6,1961 Feb.4,1971	Feb.4,1971 Feb.4,1971 Feb.23,1971 Feb.19,1971 Feb.5,1971	Feb.5,1971 Feb.5,1971 Mar.6,1968 Jan.8,1975 Mar.9,1961
Aquifer	Qtal Qtal Ogli Qtal Qtal	Qtal Qtal Qtal Qtal Qtal	Trsc ? Qtal Trsc Ogll	0911 09 1180 09 1180	0g11 0g11 0g11 0g11 Qtal
Depth to Water(ft.)	59.18 41.64 41.64 42.40 137.48	31.85 46.66 35.8 35.20 35.84	140+ 45.65 177.4 79.70 98.03	126.78 104.20 110.78 111.01 103.28	143.30 98.92 100.19 109.92
Depth of Well(ft.)	64 75 60	40.0	58 200.0	211.0 204.0	111.0
Altitude (feet)	4012 4005 3985 3986 4089	3968 3973 3965 3976	3820 3881 3760 3991 4009	4064 4042 4000 3982 4015	4076 4015 4020 3977
Well Status	Domestic/stock Domestic Stock Irrigation Windmill	Open cased hole Open cased hole None Windmill Stock	Stock Open cased hole None Industrial Industrial	Open cased hole Windmill Industrial Industrial Windmill	Open cased hole Windmill Domestic/stock Uncased shot hole
Location	18.33. 3.343 10.23244 10.44211 11.4433 12.44211	13.13144 13.44244 14.111 14.1114 14.11140	19.142 23.23140 34.133 18.34. 1.12222 2.223333	4.11124 8.23213 11.43212 12.42333 15.24130	18.413212 20.323323 20.323333 22.343 25.13111

ATTACHMENT II.8.A Proposal for Vadose Zone Monitoring DNCS Environmental Solutions Lea County, New Mexico

ATTACHMENT A-3 NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORDS FOR WELLS IN THE VICINITY OF THE DNCS SITE

ATTACHMENT A-3 Records of Wells in the Vicinity of the DNCS Site DNCS Environmental Solutions

Owner or OCD Designation	OSE Permit Number	Location PLS	Location Lat D.dddd	Location Long D.dddd	Use	LS Elev	TD	WL	WL Elev.	Date	WBZ	Top WBZ	Bottom WBZ	WBZ thickness	Trc top	Trc elev	Tsr	Driller Yield	Comments or source
Water Flood Assoc Inc: #2 Mal 2-127-2	L 03980	17.32.1.22233			flood	4251	270	200		3/6/1960	To/Qal	210	265	70	265	3986			OSE Well Record
Water Flood Assoc Inc: #2 Mal 2-127-2	L 03980-s	17.32.1.42213			SRO	4242	255	179	4063	9/21/1962	To/Qal	205	250	76	250	3992			OSE Well Record
Maljamar Repressuring Ag. #5	L 04019	17.32.2.43424			SROO	4195	182	126 est		6/6/1948	To/Qal	126	180		180	4015			OSE Well Record
Maljamar Repressuring Ag. #6	L 04020	17.32.1.43343			SROO	4195	200	100 est		6/2/1950	To/Qal	139	195		195	4000		100	OSE Well Record
Maljamar Repressuring Ag. #7	L 04021	17.32.2.44335			SROO	4203	190	160 est		6/14/1950	To/Qal	160	185		185	4018		100	OSE Well Record
Mescalero Ridge Water Coop	L 04021-s	17.32.3.23422			PS	4282	260	180 est		1/21/2002	To/Qal	180	260		257	4025			OSE Well Record
Chevron: Maljamar Grayburg Unit #12		17.32.3.4323334			OCD	4284	casing to 1	.384, redbe	ds to 990						150	4134			OCD Record
Chevron: Maljamar Grayburg Unit #14		17.32.3.44300			OCD	4285	casing to 1	275, redbe	ds to 990						115?	290?			OCD Record
BE Pashall	L 04038	17.32.1.32343			com/dom	4225	225	175		3/3/1960	To/Qal	192	224	50	224	4001			OSE Well Record
Larry Wooton	No permit no	17.32.10.122			dom	4186	156	132		2/6/1959	To/Qal	132	156	24	156 es	t			OSE Well Record
George Kenemore	RA 8855	17.32.10.11421			dom	4153	158	dry		8/4/1994				0	157	3996			OSE Well Record
Maljamar Coop Repressuring Ag.	L 00051-2	17.32.11.23142			SROO	4142	140	NA		9/10/1947	To/Qal	NA	NA	0	131	4011		100	OSE Well Record
Conoco Pillips	No permit no	17.32.21.300			monitor	4009 est	125	dry		5/15/2007	To/Qal			0	TD in	To/Qal			OSE Well Record
Conoco Oil MCA Battery 4 #189		17.32.26.41000	32.803679	103.735041	OCD	3965	1024 Log,	cased to 10	62		Trc	710	850	0	80	3885			OCD Record 5/11/78
Flo CO2 Inc	RA 10175	17.32.28.12	32.81102	103.773641	dom	3999	158	87 est	3912	2/4/2002	To/Qal	87	124	71	TD in	To/Qal			OSE Well Record
Conoco Oil MCA Battery 4 #109		17.32.29.11000			OCD	3937	casing to 8	373							70	3867			OCD Record 5/11/78
Contoco Oil MCA Battery 4 #154		17.32.29.32000			OCD	3984	casing to 8								105	3879			OCD Record
Conoco Oil MCA Battery 4 #170		17.32.29.32000			OCD	3933	casing to 9					1			55	3878			OCD Record
Conoco Oil MCA Battery 4 #214	İ	17.32.29.33000	İ		OCD	4091	casing to 1								214	3877			OCD Record 5/11/78
Conoco Oil MCA Battery 4 #163		17.32.30.13000	32.807566	103.812556	OCD	3895		70, redbeds	s to 675		Trc	575	580		50	3845			OCD Record 5/11/78
,							anyhdrite		1		Pr	810	820						Rustler FM?
Conoco Oil MCA Battery 1 #218		17.32.30.33000			OCD			.018, redbe	ds to 590			545	590		50				OCD Record
Continental Oil Pearsall BX #2		17.32.34.241111			OCD	3952		515, redbe				3.5	330		64	3888			OCD Record
Warton Drilling Co	L 03750	17.33.1.140			OWD	4150	180	150	1	12/21/1957	To/Qal	150	180	30	Ü.	3000			OSE Well Record
Denver Drilling Company	L 03782	17.33.2.444			OWD	4155	183	152		2/6/1958	To/Qal	151	183	31					OSE Well Record
Yates Petroleum	L 00010.212	17.33.2.44423	32.857521	103.626451	OWFR	4155	273	168	3987	7/7/1994	To/Qal	168	268	105	268	3887		120	OSE Well Record
Carper Co: Daya Operating State B No. 2	L 04935	17.33.2.120	52.057521	103.020431	OWD	4167	204	162	3307	7/12/1962	To/Qal	162	201	42	200	3007		120	OSE Well Record
Lomax Drilling Co	L 03012	17.33.3.140			Oil	4182	210	155		11/1/1955	To/Qal	186	198	55	198	3984			OSE Well Record
Conoco #2 Caprock 2-174-25	L 03528-s-3	17.33.3.1443			OWD	4183	271	155		12/12/1968	To/Qal	150	265	116	265	3918			OSE Well Record
Maljamar Coop #1 Maljamar 2-137-1	L 03528	17.33.4.44322			OWD	4179	265	158		12/11/1957	To/Qal	160	225	107	240	3939			OSE Well Record
Yucca Water Co	L 03598-x	17.33.5.22220			SR	4198	272	160		6/25/1959	To/Qal	160	260	112	260	3938			OSE Well Record
Yucca Water Co	L 03598	17.33.6.11110			SRO	4243	287	210		6/18/1962	To/Qal	230	280	77	280	3963			OSE Well Record
RE Paschall	L 04524	17.33.6.440			dom	4227	100	90		9/28/1960	To/Qal	230		10		3303			OSE Well Record
Dual Drilling Co	L 04122	17.33.7.32322			OWD	4229	249	214		5/3/1959	To/Qal	214	249	35	247	3982			OSE Well Record
Kewanee Oil Co	L 02771	17.33.7.4000			PS	4217	227	182		6/28/1955	To/Qal	164	215	45	222	3995			OSE Well Record
Thunderbird Drilling Co	L 03749	17.33.9.342113	1		OWD	4195	230	160		12/19/1957	To/Qal	160	230	70	222	3993			OSE Well Record
Continental Oil Company	L 03528-s-2	17.33.9.331432	1		SRO	4200	262	180		7/19/1967	To/Qal	198	262	82	252	3948			OSE Well Record
Potash Company of America: PCA No. 8	L 01880-s-3	17.33.9.331432	1		Min Dev	4148	268	155		5/4/1981	To/Qal	159	230	113	258	3890			OSE Well Record
Potash Company of America: PCA No. 8 Potash Company of America	L 01880-5-3 L 01880-1884 comb	17.33.12.14110	1		Min Dev	4148	259	115		5/4/1981	To/Qal	115	250	144	250	3885			OSE Well Record
Donnelly Drilling Co	L 04333	17.33.12.33444	1		OWD	4135	259	165		12/4/1959	To/Qal	165	202	52	250	3885			OSE Well Record
	L 01880-s-2	17.33.13.110	1		Min Dev	4124		151		3/16/1972	To/Qal	154	230	84	230	3894			OSE Well Record
Potash Company of America	L 01880-5-2 L 01880	17.33.13.31413	1		Min Dev	4124	235 245	151	 	8/18/1955	To/Qal	154	230	64	230	3094		-	
Potash Company of America			1				245		 			162	228	101	228	3900		-	OSE Well Record (clean-out)
Potash Company of America Potash Company of America	L 01882 L 01882	17.33.13.43444 17.33.13.434	1		Min Dev Min Dev	4128 4128	245	144	 	3/16/1948 9/22/1964	To/Qal To/Qal	162	228	101	228	3900		-	OSE Well Record OSE Well Record (workover)
								447	ļ			420	220	443	244	2002			
Potash Company of America	L 01883	17.33.13.44444	1		Min Dev	4123	259	147	 	7/24/1952	To/Qal	120	239	112	241	3882		 	OSE Well Record
Potash Company of America	L 01883	17.33.13.444	22.020503	102 005004	Min Dev	4207	226	100	4007	9/26/1955	T- /0 ·	100	200		224	2002			OSE Well Record (workover)
Midland Drilling Co	L 03622	17.33.17.12444	32.838584	103.685601	OWD	4207	226	180	4027	7/25/1957	To/Qal	180	200	46	224	3983		1	OSE Well Record
Kewanee Oil Co	L 02770	17.33.18.24111	ļ		PS	4215	214	179	<u> </u>	6/28/1955	To/Qal	169	213	35	213	4002			OSE Well Record
Kewanee Oil Co	L 02773	17.33.18.322	.		PS	4218	214	184	ļ	6/6/1955	To/Qal	196	214	30		4218		<u> </u>	OSE Well Record
Kewanee Oil Co	L 02773	17.33.18.322	.		PS	4225	220	202	ļ	7/16/1955	To/Qal	202	215	18	215	4010		<u> </u>	OSE Well Record
Henry Black Drilling Co	L 03726	17.33.18.22113	ļ		OWD	4216	208	188	<u> </u>	11/30/1957	To/Qal	188	207	20	207	4009			OSE Well Record
Warren-Bradshaw Exploration	L 02785	17.33.20.220			OWD	4171	250	190		5/20/1955	To/Qal	190	235	60	235	3936		<u> </u>	OSE Well Record
Phillips Petroleum Co	L 03133	17.33.23.31320	!		OWD	4143	230	160	3983	3/4/1956	To/Qal	158	198	70	220	3923			OSE Well Record
Phillips Petroleum Co	L 03133	17.33.23.310	32.81832	103.6395	OWD	4143	230	70	4073	9/3/1958	To/Qal	158	198	160	220	3923			OSE Well Record (workover)
Southwest Potash Co	L 01695	17.33.25.24444			Min Dev	4093	230	137		4/21/1950	To/Qal	137	187	93	190	3903			OSE Well Record
Zapata Petroleum Co	L 03713	17.33.28.143	1		OWD	4180	210	dry		10/23/1957	To/Qal								OSE Well Record
El Paso Natural Gas Co	L 00058-2 misc	17.33.29.222221	32.811945	103.682131	Ind-Dom	4188	244	204	3984	7/22/1958	To/Qal	185	228	40	244	3944			OSE Well Record
<u> </u>								201.35		3/14/1961							·		GAI BLM 1978
Oil Test		17.33.29.34411	1		Oil Test	4044	1	61.43	3982.57	2/16/1971	To/Qal	1		_	1 _				GAI BLM 1978

P-3/FLI25\42 0.10\1/Gold indry/undora Zone Proportal/Update, 09-2011/DMCS-5WA Art A-3 (1) ONCSSIdar-sawkiis_B-12-13Well's

ATTACHMENT A-3 Records of Wells in the Vicinity of the DNCS Site DNCS Environmental Solutions

Owner or OCD Designation	OSE Permit Number	Location PLS	Location	Location Long	Use	LS Elev	TD	WL	WL Elev.	Date	WBZ	Тор	Bottom	WBZ	Trc	Trc elev	Tsr	Driller	Comments or source
			Lat D.dddd	D.dddd								WBZ	WBZ	thickness	top			Yield	
Conoco MCA Unit Battery 4 #133		17.33.30.11000	32.801966	103.709129	OCD	4033	casing to 3	3913, redbe	ds to 515, a	nhydrite 515-5	33				28	4005			OCD Record 5/11/78
Conoco MCA Unit Battery 4 #134		17.33.30.12000			OCD	4057	casing to 1	L185, redbe	ds to 1145	·					45	4012			OCD Record 5/11/78
Conoco MCA Unit Battery 4 #135		17.33.30.14000			OCD	4062	casing to 2	20							85	3977			OCD Record 5/11/78
Conoco MCA Unit Battery 4 #197		17.33.30.31111	32.80457	103.710241	OCD	4037	casing to 3	3963, redbe	ds to 791, s	andstone 628-	650				96	3941			OCD Record 5/11/78
Walter Williams stock well		17.33.30.124	32.810128	103.703623		4045		70	3975	7/29/1954									Nicholson & Clebsch
		17.33.30.12432				4053		69.14		2/16/1971									GAI BLM 1978
Cities Svc SMGSA Unit Tract 1 #2		17.33.30.42000	32.803774	103.696154	OCD	4055	casing to 1	1199							145	3910			OCD Record 5/11/78
DNCS Properties LLC Boring 5		17.33.31.	32.78815	103.69491		3979.03	150	dry						0	65	3914.03			DNCS Site Boring Log
DNCS Properties LLC Boring 6			32d46m54.1	103d42m27.1s		3939.5	75	dry						0	67	3872.5			DNCS Site Boring Log
Open Cased Hole		17.33.33.4224				4082		130.96	3951.04	2/16/1971	To/Qal								GAI BLM 1978
Dillard & Walterader Drilling Co	L 04363	17.33.35.32142			OWD	4122	226	160		1/5/1960	To/Qal	170	200	66	222	3900			OSE Well Record
Gulf Oil Corp	L 05096	17.33.35.433			OWD	4124	233	150		4/6/1968	To/Qal	150	230	83	230	3894			OSE Well Record
Gulf Oil Corp	L 05096	17.33.35.43332			OWD	4120	233	150		3/15/1963	To/Qal	150	230	83	230	3890			OSE Well Record
BE Frizzell	CP 566	18.32.4.144			dom	3864	133	65		6/3/1977	To/Qal	65	133	68	129	3735			OSE Well Record
Virgil Linam	CP 672	18.32.7.44233	32.756902	103.79895	stock	3759	524	430	3329	8/7/1992	Trc	460	489	29	100	3659			OSE Well Record
Virgil Linam	CP 672	18.32.7.44144			stock	3767	540	460	3307	1/29/1985	Trc	498	510		64?			12	OSE Well Record
Billy Williams	Not permitted	18.32.16.223433	35.752	103.7652	exp	3794	100	dry		9/3/1991				0	94	3700			OSE Well Record
Uncased open hole		18.32.16.22433				3973	100	84.18	3888.82	3/18/1968	To/Qal								GAI BLM 1978
Domestic Well		18.32.20.13311			dom	3470	270	179.35	3290.65	2/23/1971	Trc								GAI BLM 1978
Oil test		18.32.22.32322				3763		434.41	3328.59		Trc								GAI BLM 1978
TXO Production	CP 677	18.32.26.11143	32.724776	103.744505	OWD	3768	700	dry		5/9/1985	Sandstone	500-60)5	0	116	3652			OSE Well Record
Duval Corp.	O 13 002	18.32.32.111244			exp	3701	2060			6/22/1977	2 WBZ's T	rc @ 27	4, Tsr @ 57	5		3701	575		OSE Well Record
Windmill		18.32.34.22241			stock	3721		117.46	3603.54	4/6/1971	Trc								GAI BLM 1978
Open Cased Hole		18.33.3.34133				4015		60.1	3954.9	4/5/1966	To/Qal								GAI BLM 1978
OXY USA Inc.	CP 758	18.33.4.34233	32.771967	103.669204	exp	3989	250	dry		5/10/1991					65	3924			OSE Well Record
DNCS Properties LLC Boring 3			32.77692	103.70411	exp	3940.23	150	dry		2/6/2013					45	3895.23			DNCS Site Boring Log
DNCS Properties LLC Boring 4			32.777	103.69465	exp	3968.20	150	dry		2/9/2013					50	3918.2			DNCS Site Boring Log
BJ Wooley	CP 546	18.33.9.42241	32.76111	103.660559	Com	3978	90	70	3908	6/3/1975	To/Qal	70	85	20	85	3893			OSE Well Record
	L 6131	18.33.8.213	32.766525	103.68429			194	100				130	193	63					OSE Waters POD summary
Heyco	CP 702	18.33.11.314112			OWD	4054	100			10/21/1986	To/Qal	52	82	100	82	3972		40	OSE Well Record
Heyco	CP 701	18.33.11.314121			OWD	3997	100			10/20/1986	To/Qal	54	84	100	84	3913		40	OSE Well Record
BJ Wooley	L 8288	18.33.12.33334			Com	3997	79	60		5/11/1982	To/Qal	60	80	19		3997			OSE Well Record
Yates Drilling Co	L 2878	18.33.12.440			OWD	4089	205	150		5/30/1955	To/Qal	150	205	55	200	3889			OSE Well Record
Scharbauer Cattle Co	L 6347	18.33.12.440			stock		170	130		7/12/1968	To/Qal			40					OSE Well Record (clean-out)
BJ Wooley	CP 623	18.33.13.11112			Com	3989	82	60		5/10/1982	To/Qal	70	80	22	80	3909		40	OSE Well Record
Sun Oil	CP 689	18.33.13.12122			OWD	4003	100			12/7/1985	To/Qal	70	95	100	95	3908		100	OSE Well Record
KMR Inc	CP 768 exp	18.33.13.21142			exp	4018	115	70		5/6/1992	To/Qal	80	110	45	110	3908		20	OSE Well Record
Unnamed well (Nicholson)		18.33.14.111	32.753778	103.640397	stock	3965	40	35.8	3929.2	6/3/1954	Qal			4.2	40	3925			Nicholson and Clebsch
Unnamed well (Nicholson)		18.33.19.142	32.735618	103.703433	stock	3820		>140	<3680		Tr(?)								Nicholson and Clebsch
Unnamed well (Nicholson)		18.33.34.133	32.704955	103.658439		3760	200	177.4	3582.6	12/9/1958	Tr(?)								Nicholson and Clebsch
W.E. Ellison	L 3454	18.33.30.220			dom	3791	100	35	3756	3/30/1957	To/Qal	70	97	65	97	3694			OSE Well Record

P-SPILESS-142 (2) 1.0.10(diol der/undoise Zone Proportal/Update, 09-2011/DINCS-SWA Art A-2 (1) DINCSSWA reawist, 8-12-13 Well's

SECTION

TOWNSHIP 75

RANGE 32E

STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

section	1			(A) Own	er of well.	Watur	. Prood Was	ac. Inc	0.	
				Street and	l Number.	3017	Lubbook St			
		ļ		City		Ft We	orth 9.	Sta	te Tex	ลธ
							it No. L-2080			
							of Section			
 	-			(B) Drill	ing Contra	actorO . I	. Musslewh	ite	License N	10. WD99
#2	Mal	2-127	2	Street and	d Number.	Box	56			
	 		—-l	City			Hobbs,	Sta	te New	Mexico
			-	Drilling v	vas comm	enced 35	zen 6,			<u> 1960 </u>
L	<u> </u>			Drilling v	vas comple	eted Mi	reh 15,			1960
•	Plat of 640	•			42	5/			220	
Elevatio	n at top (of casing	in fee	t above se	a level <u>u u</u>	ACWII	Total de	pth of well	£ 7 0	200
State w	hether w	ell is shal	low o	r artesian.	1181110	<u> </u>	Depth to wa	ter upon co	mpletion.	
Section	2			PRIN	ICIPAL WA	TER-BEAR	NG STRATA			
37.	Depth	in Feet	Thi	ckness In	l	Des	cription of Water	r-Bearing For	mation	
No.	From	То	1	Feet						
1	210	265	,	55:	Sand.	groy '	tight			
2	~~*		\top	<u> </u>	<i></i>				···········	*****
3			1							
4			1				1			
5			 		·	:				
<u>" </u>		<u> </u>	<u> </u>		1		······································			
Section	3				RECOR	D OF CAS	ING -	<u> </u>		·· - ······
Dia	Pounds			De		Feet	Type Shoe		Perforation	
In.	ft.	1	1	Тор	Bottom	· .		From		То
10 3/	40	8		0	270	270	Shoe coll	r 12	2	260
	ļ]								
				<u> </u>	<u> </u>	<u> </u>		<u> </u>		
Section	4			RECOR	D OF MUE	DING AN	D CEMENTING			
	h in Feet	Dian	eter	Tons		cks of				
From	To	Hole		Clay		ient	•	Methods U	sed	
				<u> </u>		:				
		_								
, , ,										
ection	5				PLUGE	SING RECO				
Vame o	f Pluggin	g Contra	ctor				, 1	Licens	e No	marron arms arms arms brown white him is shirted.
							÷			
Cons of	Clay use	d	***	Tons of F	loughage u		Ту			
Pluggin	g method	used					Date Plu	ıgged		19
Plugging	g approvė	d by:					Cement Plus	gs were plac	ed as foll	ows:
				-		No	Depth of P	lug	No. of Sacl	re Tread
			i salahi sala	Basin Sur	pervisor	110	From 7	Co .	o, or pac	
	FOR US	E OF STA	TE\ED	CINEER O	NLY					
-		าน เกมสำนัก	Luga Jaka	47 TAIC	; <u>a</u>					
Date	Received				<u> </u>					
		૬૬ :8 ક્ષા	SS	AAM 096	gr.					
		Special		`	-					
	,	115			5/1-	tu Ilo	T	. No /2	50 /	2223
File No	.2-39	80			Use	un to the	zęLocatio	n KoʻYʻ	استشاره تحصل	

				VI 114-H
	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet	00101	Type of Material Encountered
0	1	1 1	Brown	Soil & rock
11	20	1.9	White	Caliche & rock
20	90	70	Grey	Sandy shale
90	120	30	te	Sand
120	150	30	ţī.	Sand, hard
150	165	15	50	Sand
165	180	15	Red	Sand
180	185	5	Grey	Sandý shale
185	210,	25	99	Sand
210	265	55	Ħ	Sand, hard tight
265	270	5	Red	Sandy shale
			······································	

······································	 -1 			
	<u> </u>			
······································		-	LSE	ev <u>425/</u>
			Deptl	to K Trc 203? of K Trc3986?
			Elev	of KTrc39867
				17.32 /. 333.22-
			Hydro. S	urveyField CheckX
·				Reserved to the second
		Ī		OURCE OF ALTITUDE GIVEN
				plated from Topo. Sheet
			Dete	mined by Inst. Leveling
			Othe	
*2				

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Drill

to read sec. 1. 22233
Was plotted @ 1. 33322

EIELD ENGR. LOG

STATE ENGINEER OFFICE

WELL RECORD †

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1		•		(A) Own	er of well	10.TO 12	aschall,	·		
		,			Street and	Number.	hI2 Ce	ntral Sto			
									State]		
					•				79and	-	
								•	Twp I 7_		
	 }-		+						Licen		
}				-	Street and	l Number	Box_1	79			
									State no		
					Drilling v	vas comm	enced	ab. 16	<u></u>	19.60	
					Drilling w	as comple	ted Kar	oh 3.		19.60	
	Plat of 840									er tolk	
									oth of well 22		
State w	hether w	ell is	shall	0W 0	r artesian.	Shallow		Depth to wa	ter upon comple	tion_175_KSa	
Section	2				PRIN	ICIPAL WA	TER-BEAR	ING STRATA			
	Depth	in Fe	et	·Thi	ckness in		De	erintion of Water	r_Bearing Formation	n	
No.	XT-			Feet	pescription of water-nearing roundation						
1	700	23	'A	*	Α	Per	1 water	wand			
2	<u> 192</u>	1									
3	575	2I2 22l I2 Brown Water sand									
4		ļ						* .			
		ļ			· · · · · · · · · · · · · · · · · · ·	c.y	<u></u>				
5		<u> </u>		<u> </u>		<u> </u>	<u> </u>				
Section	3					RECOR	D-OF CAS	ING	•		
Dia	Pound	<u> </u>	Threa	ıds	De	pth	Feet	Type Shoe	. Perfo	rations	
in,	ft.		in		Top	Bottom	reet	Type ande	From	To	
811	-		wold	ad	0	225	225	Collar	182	225	
		.				1,35	٠.,		Gravel pack	ed	
								-	, ·		
			`								
								- OF (F) (F) (G)			
Section	4							D CEMENTING			
	h in Feet		Diame Hole ir		Tons Clay	No. Sa Cem	I I	Methods Used			
From	10										
			13			·		IO sacks m	aa usea		
		-									
	_										
	<u> </u>				<u> </u>		· · ·				
Section	5					PLUGG	ING REC	ORD			
Name o	if Pluggir	no Ci	ontrac	tor				-	License No)	
Street s	and Numi	er ber					City		State		
Tone of	Clay 1196	d d			Tons of B	loughage t	sed	Ту	pe of roughage		
Dinggin	a method	11500			,,			Date Plu	igged	19	
	g approv					-			gs were placed as		
r thäätti	₽ ⇔hbro∧		•				Г	Depth of P		+3-24-24-24-24-24-24-24-24-24-24-24-24-24-	
	<u>`</u>				Basin Suj	pervisor	No		To No. of	Sacks Used	
			i i		GINEER O						
	FOR U	SE O	F STA	PE _T E2	CINEER	NEY					
			3014	0 V	ENGNEE	ITAIS		- 			
Date	Received	·									
			() (j	บ ฅป	MAR 25	UYBILIK	- L	<u> </u>		William Company of the Company of th	
						U	-			-	
I Ralia N	2-40	29] 			_UseCom	est &	Locatio	on No. 12.32	. <i>J. 32</i> 343	
لاد صدح,											

	. 40		200 0	×1 17 EEE
Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered
O	2	2	Oray	Surface soil
. 2	- F	1	White	Caliche rock
5	70	65	Red	Sand
70	IIO	l _t O	Brown	Sand
TTO	125	15	Brown ·	Sand rock
IZE	192	67	Brown	gand >
192	210	18	Red	Water sand
210	212	2	Rød	Shale
212	224	IZ	Browd	Water sand
22]1	225	I	Red	Shale
				S
1				
^4				
				. A
			L S Elev	19257 Trc 224
			Depth to K	Trc 400 1
		 	CION OL K	IFC-7-0-7
	:	 		
			koc. No. /7	2.1, 323446
		<u></u>	1	/Fleid Check
	ļ		.,	and the second s
		1 2 1 1 2 2 2 2 2		
			COUNCE	OF ALTITUDE GIVEN
				om Topo. Sheet X
	ļ	`.	Interpolated 1	y Inst. Leveling
-				A HIPE FOREIGH
			Other	
	-			
	1			
	-	 	 	· .
	1	1	J	·

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Wall Drillon

STATE ENGINEER OFFICE



INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and

Section 1						2			
	·		, ,				1. Cu.		
	Ì								
				City State State State Well was drilled under Permit No.11.3 960 -X and is located in the					
							Xand Twp/		
							Licen		
			1				State		
		•	Drilling v	vas commen	ced	ن2 بالإ∍		1902	
			Drilling v	vas complete	d C	12 . IZ		<u> </u>	
	lat of 640		_	٠					
							th of well		
State wb	ether we	II is shalle	ow or artesian	Sublica Sublica		_Depth to wat	er upon complet	ion_ _1/1-y	
Section 2	2		PRIN	ICIPAL WAT	ER-BEAR!	NG STRATA	•		
I	Depth i	n Feet	Thickness in		Desc	crintion of Water	Bearing Formation		
No.	From To		Feet						
1	לטב	225	Ž:)	, ira	. अंग्रह्मा	r sa 0			
2	د20	250	22 LTOR WALST SEAS						
3			a.F	1	<u>- কিউটা চা</u>	91 ~			
4									
5	•			1.7		Parameter Carrier	eri.		
•	<u></u>		· · · · · · · · · · · · · · · · · · ·						
Section 3	3 			RECORD	OF CAS	ING ;	·		
Dia in.	Pounds ft.	Threa	ds De	pth Bottom	Feet	Type Shoe	Perfor From	To To	
		_	()	255	255_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	L. Cavy			677		Open the	Da 214	255	
				 	<u></u>		,		
				<u> </u>		· · · · · · · ·			
	<u>.</u>								
Section 4	1	,	RECOR	D OF MUDD	ING AN	D CEMENTING			
	in Feet	Diame Hole in		No. Sack		I Mathada Used			
From	To		I III. Cluy			-			
		16	Grave	er negative	-		urctua e an		
			·			TH FOTO MU	TT6 01.1717"	<u>s.</u>	
	ļ								
	<u> </u>	<u></u>		<u>.</u>					
	5			PLUGGI	NG RECO	ORD			
Section 5		Contrac					License No.		
Name of							State		
Name of Street an	nd Numb	ę r			_	Τνι	e of roughage		
Name of Street an	nd Numb	ę r	Tons of H	loughage us	ed			10	
Vame of Street air	nd Numb Clay used	e r	Tons of H		ed	Date Plu	gged		
Vame of Street at Tons of C Plugging	nd Numb Clay used	er l used	Tons of H	loughage us	ed	Date Plu	gged s were placed as		
Name of Street a Fons of C	nd Numb Clay used method	er l used	Tons of F	loughage us	edNo.	Date Plu Cement Plug Depth of Pl	gged s were placed as		
Street a Fons of (Plugging	nd Numb Clay used method	used l by:	Tons of I	Roughage us		Date Plu Cement Plug Depth of Pl	gged s were placed as	follows:	
Name of Street a Tons of (Plugging	nd Numb Clay used method	used l by:	Tons of F	Roughage us		Date Plu Cement Plug Depth of Pl	gged s were placed as	follows:	
Name of Street at Fons of (Plugging Plugging	ron used for the second	used l by:	Tons of I	Roughage us		Date Plu Cement Plug Depth of Pl	gged s were placed as	follows:	
Name of Street at Fons of (Plugging	nd Numb Clay used method approve for us 30110	used 1 by: 1 by:	Basin Su	Roughage us		Date Plu Cement Plug Depth of Pl	gged s were placed as	follows:	
Vame of Street a Cons of (Plugging	nd Numb Clay used method approve for us 30110	used l by:	Basin Su	Roughage us		Date Plu Cement Plug Depth of Pl	gged s were placed as	follows:	

#3 MALJAMAR 2-127-2

Depth in Feet From To		Thickness in Feet	Color	Type of Material Encountered					
,	1	7	_&U.,.4	tog Stan					
<u></u>	20	<u>ــــــــــــــــــــــــــــــــــــ</u>	1115	Cilchic fook					
- L.	200	105	DI WELL	Standy Outly					
ž., j.	222	2.)		water sam					
.2)	ice,	5	ultay	Shart					
228	250	22	red						
		***************************************	P.I.O.A.t	water said					
250	255	1,	Fromm	initial C					
	ļ		,	Top of rea bea					
				4243/					
÷				L S Elev Trc 2507 Depth to K Trc 39 9 2					
				Depth to K Trc 39 9 2					
	<u> </u>			Elev of KTrc37.7.2					
<u>;-</u>	 	<u> </u>							
	-								
				SP 17.32.1.42213"					
				Loc. No.					
				Hydro. SurveyXField_Check					
	_								
				SOURCE OF ALTITUDE GIVEN					
				Interpolated from Topo, Sheet					
				Determined by Inst Leveling					
				Other					
	 		· · · · · · · · · · · · · · · · · · ·						
		,							
	<u> </u>								

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well

6.0. alwedge Well Driller

1-3980-X

17.32.1.420

FIELD ENGR. LOG

STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1			, (A	Own	er of well	Mal	IJа	mar Repres	suring	Agreement	t #6	
		İ	Cit	у						State		
			W	ell was	drilled un	der Perr	mit	No	20	and i	s located in the	
											Rge. 32	
-											No	
ŀ												
											Mexico	
			Dr	illing v	was comme	enced			.Tu	no 2	<u>.</u> 19 10. 50	
(F	lat of 640	acres)	Dr	illing v	vas comple	ted				uic #,	19_50	
			n feet a	bove se	ea leveL			Total de	pth of v	vell 200) £t.	
State wh	ether we	ell is shall	low or a	rtesian	shall	DW		Depth to wa	ater upoi	n completio)n	
					NCIPAL WA			•				
Section 2			1		OPAL WA	IEK-DEA	KIIN	G SHOWIN				
No. Depth in Feet Thickness in Feet						Description of Water-Bearing Formation						
	21011			Sand and little gravel								
1	139	195		10	Sand a	nd liti	;le	gravel				
2			ļ		ļ							
3		<u>-</u>	ļ		ļ							
4			ļ <u>.</u>		ļ				·			
5			<u> </u>		<u> </u>							
Section &	3				RECOR	D OF CA	ASIN	1G			-	
Dia	1 1 n				pth	Feet	1	Type Shoe		Perfora		
in.	ft.	in	I—	Тор	Bottom	reet		Type Blue	F	rom	То	
7				0	196	196			1	53	196	
10 3/4				0	145	145	_	Pulled as	well w	as gravel	packed.	
	ļ						1		<u> </u>			
	<u> </u>	<u></u>										
On ation .	4			RECO	RD OF MUE	DING A	ND	CEMENTING				
Section		Diam	otor	Tons				**,				
From	n in Feet	Hole i		Clay	Cem	ent						
							``					
				-								
	}											
					51110		~~	h.D.				
Section !								RD · ·			, ,	
Name of	f Pluggin	g Contra	ctor					······		cense No	<u></u>	
Street a	nd Numb	er	·····			City			SU	ate:		
Tons of	Clay use	db	T	ons of .	Roughage t	1sed		17	Abe of L	ougnage	10	
											19	
Plugging	g apprové	ed by:				,		Cement Plu		placed as l	tonows:	
						1	₹o.	Depth of I		No. of	Sacks Used	
				Basin St	ipei visor			From	10			
	FOR U	se of Sta	TE ENG	INEER (ONLY							
						- Personal						
Date	Received											
Selection of the select						THE PERSONAL PROPERTY.	·····				· · · · · · · · · · · · · · · · · · ·	
Manage and a second							0000000					
							0					

中方 川州 海岸 2-132-1

	in Feet	Thickness	Color	Type of Material Encountered
rom	То	in Feet		Type of Material Encountered
0	20		brown	Top soil
20	45		-	Caliche
45	100		red	Sandrock
100	135			Sand and little gravel (water section)
195	200		red	Shale
		<u> </u>		
				Driller estimated that well was good for
	,			100 gallons of water per minute.
··· · ·				This well is located in State Section 2,
]		T. 17 S., R. 32 E., N.M.P.M., Lea County
				New Mexico.
		<u> </u>		41957
		 		L S Elev
		ļ. <u></u>		Elev of K TreHOGO-
		<u> </u>		
	-			17.32.2.43
				Loc. No.
				Hydro. SurveyField CheckY
			- 1	
			· · · · · · · · · · · · · · · · · · ·	SOURCE OF ALTITUDE GIVEN
				interpolated from Topo. Sheet
				Determined by Inst. Leveling
				Other
······································			• • • •	

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

George	Pennington
	ll Driller

1-4020

17.32.2.433

STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

section 1				(A) Öwne	r of well_	Maljan	ar Repressuri	ng Agreement	#5		
									d is located in the		
									Rge. 32		
									nse No		
				Street and	Number						
	<u>'</u>								New Mexico		
1		Ī	Ì	Drilling w	as comme	enced	37		19		
(F	Plat of 640	acres)		Drilling w	as comple	ted	MEA.	0,	19 48		
			n feet	above sea	a level		Total dep	th of well 1	82 <u>f</u> t.		
State wh	ether we	ll is shall	low or	artesian_			Depth to wat	ter upon comple	etion		
	•		,				ING STRATA				
Section 2			mt.1		CIFAL WA						
No. Depth in Feet To			Thi	lckness in Description of Water-Bearing Formation Feet							
1	300	100	1	Red water sand							
2	126	180			Ved #6	rier abr		-			
3											
4			ļ								
5			<u> </u>				<u> </u>				
Section 3	3				RECOR	D OF CA	SING				
Dia	Pounds	Thre	ads	Deg	Depth Fee		Type Shoe	Perforations From i To			
in.	ft.	· in	L	Top				From			
7	1			0	182	182		113	182		
	ļ								_		
	<u> </u>					-			_		
				<u> </u>		<u> </u>			1		
Section 4	4			RECOR	D OF MUD	ODING AN	ID CEMENTING	•			
	h in Feet	Diam	eter	Tons	No. Sa	cks of		Methods Used			
From	To	Hole i		Clay	Cem	ent		Methods Osed			
0	182	10									
						I.	- ·				
						151 - 15					
	1			<u> </u>							
·· ·	_				DI LIGG	ING REC	ORD.	•			
Section (License N	0		
Name of	f Pluggin	g Contra	ctor			Citar		State	0		
Street a	nd Numb	er		Mana of D	oughodo 1	City	ጥ	ne of roughage			
Pons of	Clay used	1		Tons of L	ougnage c		Data Plu	raded	19		
7.7					····			gs were placed a			
Plugging	g approve	a by:				<u> </u>					
				Basin Sur	ervisor	No	Depth of P	ro No.	of Sacks Used		
			Yanga Kanada								
	FOR US	SE OF STA	TE E	igineer o	NLY						
D-4-	Docates 7					onesile)	<u> </u>				
Date	Received				-		 				
		•			•	Antonia managari					
a -		19			fise	R.Q.O.	Locatio	n No. 17.32.	2.434 <i>3</i> .47		

LOG OF WELL

	in Feet	Thickness	Color	Type of Material Encountered
From	То	In Feet	COLOI	Type or maceral piconincisa
0	20		brown	Top Soil
20	. 38		brown	Loose sand
38	70		grey	Firm sand
70	82		brown	Loose sand
82	98		red.	Sandrock
98	126		brown	Sand and gravel
126	180		red	Water sand
180	182	-	red	Shale
	-			
····		 	· · · · · · · · · · · · · · · · · · ·	
	-	<u> </u>		
		 		
		<u> </u>		This well is located in State Section 2,
		<u> </u>		T-17 S., R. 32 E., N.M.P.M., Les County,
				New Mexico.
]			
				L S Elev
			**************************************	Depth to K Trc /80°
		 		Elev of K Tro 40/5
		-		10.70 - 445.46
		 -	, ,	Loc. No. 17.32.2. 4 34341
		 		Hydro, Survey Field Check X
		 		
		ļ <u>.</u>		
	İ]		SOURCE OF ALTITUDE GIVEN
				interpolated from Topo, Shadi
		 		Determined by Inst. Leveling
······································	 	 		Other
		- 		The state of the s

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Ed. I			
	Dwillon	 	

L-4019

17.32.2.434

HELD ENGR. LOG

STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(A) Owne	r of well	Maljam	вт Со-ор Көр	ressuring Agre	ement #7			
	1		Street and	Number.							
	***	ļ	City		*****		State				
							7wp. 17 s.				
		<u> -</u> _					on Licens				
	1		1 ' '								
	<u> </u>						State				
		<u> </u>	Drilling W	se comple	ted		June 14,	19 50			
(P.	lat of 640 a	icres)									
Elevation	at top of	f casing i	n feet above sea	leveL		Total dep	oth of well	190 £t.			
State wh	ether wel	l is shall	ow or artesian	shal	low	_Depth to wat	er upon completi	on			
Section 2			PRIN	CIPAL WA	TER-BEARI	NG STRATA					
Section 2		- Floor	Thickness in			·	_ :				
No. –	Depth in	То	Feet		Des	cription of Water	-Bearing Formation				
1	160	185	25	Sand	and lit	tle gravel.					
2											
3											
4							•				
5											
			<u> </u>	- -							
Section 3				RECOR	D OF CAS	ING					
Dia	ia Pounds Threads			Depth Bottom		Type Shoe	Perfor	ations To			
in.	ft.	in		Bottom			From				
7			0	197	197		153	197			
10 3/4			0	155	155	Pulled as	well was grav	el packed.			
				<u></u>							
Section 4	<u> </u>	~-	RECOR	OF MUD	DING AN	D CEMENTING					
	in Feet	Diam		No. Sa Cerr	icks or						
From	То	Hole in	n in. Ciay	CEN							
	<u> </u>						***************************************				
		ļ <u>.</u>									
<u> </u>	1				<u> </u>		1 1 1 1 1 1 1	•			
Section 5	;			PLUGG	SING REC	ORD					
		. Contrac	tor				License No.				
Number of	riuggiii. Mumbe	e Contract	,001		City		State				
n e e	Mariani.	5L	Tons of R	oughage 1	ısed	Тv	pe of roughage				
Cons of t	Liay useu	d	TOILS OF A	oughuge t	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. Date Plu	gged	19			
							gs were placed as				
- ingging	approved	ı by			1						
			Basin Sup	ervisor	No	Depth of P	No. of	Sacks Used			
	FOR US	E OF STA	TE ENGINEER O	NLY							
	<u>-</u>					 					
Date :	Received .		_;					- Michael - March De -			
		•	4			1					
			•		5. 	-					
Tilo No	L-402	31		_{Use} S. R	. 0. 0.	Locatio	n No. 17.32.2	.44333			

	in Feet	Thickness	Color	Type of Material Encountered		
From	То	in Feet	-			
0	20		brown	Top soil		
20	50			Calicho		
50	120		Brown	Loose sand		
120	160		red	Sand rock		
160	185		*	Sand and little gravel (water section)		
185	190		red	Shale		
***************************************				Eight yards of pea gravel was placed between 10-3/4" pipe and 7" pipe; 10-3/4" pipe runs to 155' and pulled as well was graveled.		
				Driller estimated that well was good for		
				100 gallons of water per minute.		
]			This well is located in State Section #2,		
		T-175, R-32E, NMPM, Lea County, New Mexico.				
			-	10" hole was drilled by George Pennington		
		.]		of Loco Hills, New Mexico. Completed		
				June 14, 1950.		
				LS Elev 420.3		
				1. S. Elev		
				E 17.32.2.44333		
		1		Loc. No		
				Hydro. SurveyField CheckX		
				SOURCE OF ALTITUDE GIVEN		
				Interpolated from Topo. Sheat		
				Determined by Inst. Leveling		
	 			Other		

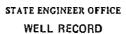
The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

George	Pennington
Well D	

L-4021

17.32.2.443





Section 5. PLUGGING RECORD ugging Contractor ddress ugging Method ate Well Plugged ugging approved by: State Facing Page Method 2 3	Street of	of well <u>Mes</u> r Post Office A l State	ddress	P.O. I	30x 49)			0	wner's W	ell No.	
N. NE W. SE W. SE W. Of Section 3 Township 175 Range 32E N.1 in Lea County,				_	•					:		
Section 4. RECORD OF CASING Depth in Feet Pounds (Inches) Section 4. RECORD OF MUDDING AND CEMENTING Section 4. RECORD OF MUDDING AND CEMENTING Section 4. RECORD OF MUDDING AND CEMENTING Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 6. Sec	ai	N NE I	<u>SE</u> %	SE_¼ of	Section_	3	Т	_ qirtznwo	178	-		
Address 1200 E. Bender Blvd., Hobbs, NM 88240 Drilling Began 1-21-02 Completed 1-24-02 Type tools rotary Size of hole 9 7/ Elevation of land surface or at well is ft. Total depth of well 260 Completed well is Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Tools in Feet Description of Water-Bearing Formation (gallons per minute) Section 3. RECORD OF CASING Diameter Pounds Tureads Depth in Feet Lineary Straingers Section 3. RECORD OF CASING Diameter Pounds Tureads Depth in Feet Length Type of Shoe From To Section 4. RECORD OF MUDDING AND CEMENTING Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 6. Such Sec	c, Lot N	lo,	of Block N	o,		_ of the	e					
Drilling Contractor Alan Eades License No. WD1044									St			. .
Address 1200 E. Bender Blvd., Hobbs, NM 88240 Drilling Began 1-21-02 Completed 1-24-02 Type tools rotary Size of hole 9 7, Size of hole 260 Completed well is SX shallow artesian. Depth to water upon completion of well Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness In Feet Description of Water-Bearing Formation (gallons per minute 185 257 72 Sand & SAndy Brown Clay Stringers Section 3. RECORD OF CASING Diameter Pounds Threads Stringers Section 3. RECORD OF CASING (feet) Type of Shoe From Tomers of the stringers of Method of Placement of Mud Or Cement Method of Placement of Mud Or Cement Method of Placement of Mud Or Cement Method of Placement Or Section 5. PLUGGING RECORD OF CASING Section 5. PLUGGING RECORD OF CASING Method of Cement Or Section 5. PLUGGING RECORD OF CASING Method of Cement Or Section 5. PLUGGING RECORD OF CASING Method of Cement Or Section 5. PLUGGING RECORD OF MUDDING AND CEMENTING OR Section 5. PLUGGING RECORD OF MUDDING AND CEMENT OF Method of Placement Or Section 5. PLUGGING RECORD OF MUDDING AND CEMENT OF Method of Placement Or Section 5. PLUGGING RECORD OF MUDDING AND CEMENT OF Method of Placement Or Section 5. PLUGGING RECORD OF MUDDING AND CEMENT OF Method of Placement Or Section 5. PLUGGING RECORD OF MUDDING AND CEMENT OF Method of Placement Or Section 5. PLUGGING RECORD OF MUDDING AND CEMENT OF Method of Placement Or Section 5. PLUGGING RECORD OF MUDDING AND CEMENT OF Method of Placement Or Section 5. PLUGGING RECORD OF MUDDING AND CEMENT OF METHOD OF CEMENT OF MUDDING AND CEMENT OF METHOD OF CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF METHOD OF CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDING AND CEMENT OF MUDDIN	the							·		·	<u> </u>	
Completed 1-24-02 Type tools Totary Size of hole 9-7								·				
Completed well is												
Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness in Feet Description of Water-Bearing Formation (gallons per minute) 185 257 72 Sand & SAndy Brown Clay Stringers Section 3. RECORD OF CASING Diameter Pounds (inches) per in. Top Bottom ((set)) Type of Shoe From Top Bottom Top Bottom Top Diameter Of Mud Of Cement Section 4. RECORD OF MUDDING AND CEMENTING Section 4. RECORD OF MUDDING AND CEMENTING Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD No. Depth in Feet Top Bottom Of Cement Top Botto												
Depth in Feet Thickness to Feet Thickness to Feet Description of Water-Bearing Formation Estimated Yield (gallons per minute										•		
Section 4. RECORD OF MUDDING AND CEMENTING Section 5. PLUGGING RECORD			1		NCIPAL	WATE	R-BE	ARING S	TRATA		· -,	
Section 3. RECORD OF CASING Diameter Pounds per foot per in. Top Bottom (feet) Type of Shoe From T 6 160psi Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet Method of Placement of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 6. Top Bottom of Cement Section From Top Bottom of Cement Section S					Descript	ion of '	Water	Bearing I	omation	(
Section 3. RECORD OF CASING Diameter (inches) per foot per in. Top Bottom (feet) Type of Shoe From Top Bottom (feet) Type of Shoe From Top Bottom Top Bottom Top Bottom Top Bottom Top Top Top Top Top Top Top Top Top Top	185	257	72	Sanı	d & S7	andy	Bro	own Cl	.ay			····
Section 3. RECORD OF CASING Diameter (inches) per foot per in. Top Bottom (feet) Type of Shoe Perforations 6 160psi 260 180 260 180 266 Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet of Mud of Cement Method of Placement of Mud of Cement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD				Str	ingers	5						
Diameter (inches) Pounds per foot Perforations Perforation	-			<u></u>				·	L.			
Diameter (inches) Pounds per foot Perforations Perforation		,				· · · · · ·		· • · · · · · · · · · · · · · · · · · ·	·			
Section 4. RECORD OF MUDDING AND CEMENTING Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Diameter of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 6. RECORD OF MUDDING AND CEMENTING No. Depth in Feet Cubic Feet Top Bottom of Cement Seging Method Ligging Method Top Bottom of Cement Seging approved by: State Ferinae Pagentation 3. Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 6. PLUGGING RECORD SECTION SEC			r <u>-</u> - : -	· · · · · · · · · · · · · · · · · · ·		CORD					T	
Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Diameter of Mud of Cement Method of Placement of Mud Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Ingging Contractor Iddress Ingging Method No. Depth in Feet Cubic Feet Top Bottom of Cement No. Top Bottom of Cement No. Top Bottom of Cement No. Top Bottom of Cement No. Top Bottom No. Top Section Feet No. Top Section Feet No. Top Section Feet No. Top Section Sec						om	(ength (cet)	Type of	Shoe	106	
Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Igging Contractor Idress Igging Method To Depth in Feet Cubic Feet of Mud Top Bottom of Cement Section 5. PLUGGING RECORD Igging Method Top Bottom of Cement Section 5. PLUGGING RECORD Igging Method Top Bottom of Cement Section 5. PLUGGING RECORD Igging Method Top Bottom of Cement	6	160psi									180	2.60
Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Agging Contractor Idress No. Depth in Feet Cubic Feet of Mud of Cement No. Top Bottom of Cement No. Top Bottom of Cement No. Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD		· · · · · · · · · · · · · · · · · · ·						.,		* *** . *	-	
Depth in Feet Hole Diameter Of Mud Of Cement Method of Placement					_							
Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD	Da-th i	o Seat									:- <u>:</u> :	- :::
Section 5. PLUGGING RECORD Igging Contractor Iddress No. Depth in Feet Cubic Feet of Cemerate Well Plugged 1 Plugg				,			-,	, ,	Me	thod of I	Placement	
Section 5. PLUGGING RECORD Igging Contractor Idress Igging Method Top Bottom of Cemer 1 2 3					TT	ļ	•••••					
Section 5. PLUGGING RECORD Ingging Contractor Iddress Ingging Method Ingging Method Ingging approved by: State Facina Pagentation Section 5. PLUGGING RECORD No. Depth in Feet Cubic Ferior Cubic Ferior Section 1 2 3						-						
No. Depth in Feet Cubic Feet						<u>L</u>				·		
Mo. Depth in Feet Cubic Feet	ugaina Conten			Section	on 5. PLU	IGGIN	G RE	CORD				
ste Well Plugged 1 agging approved by: 2 Shate Foreign Points P	idress							No.				
State Engineer Parametrisis	te Well Plugge	:d										Cement
State Engineer Kebresentative	rking ihbi on								en je je lisasi		1 2 2	- /
			State En		Hank according to			4		+ 4 -	.00	
to Received 02/05/02	te Received	02/05/02	<u>.</u>	FOR USE								
te Received 02/05/02 Quad FWL FSL File No. 2-402/-5 Use Suppl Location No. 17.32.3443 - 2342	•	1 - 1/-	7 / E		•	Quad _	-	7	FWL		FSL_	~
File No. 2-4021-3 Use Sugar Location No. 11,32,3242	File No	2-40	a/-u		Use	МU	9	<u>L</u> 1	ocation No. £	1130	7.32	24/02

			Section 6, LOG OF HOLE
Depth From	in Feet To	Thickness ain Feet	Color and Type of Material
L101U	10	7	
0	1	1	Top Soil
		·	• -
1	26	25	<u>Caliche</u>
26	90	6.4	Sand
	1		
90	132	42	Sandy Brown Clay & Sandstone Stringers
132	185	53	Sand & Sandstone Stringers
185	257	72	Sand & SAndy Brown Clay Stringers
257	260	3	Red Clay
	200	3	New Citay
]		
		· · · · · · · · · · · · · · · · · · ·	
	-	<u> </u>	
	1		
	ļ		
	-		
			An and a second
	 		
	<u> </u>	<u> </u>	
	~ 	 -	
		-	
		ļ	
		1	
	<u>:</u>		

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.





STATE ENGINEER OFFICE WELL RECORD

		ldress				Owner's	Well No.	
II was drilled	under Permit	No			and is located i	in the:		
a	. ¼ ¼	i ¼	¼ of Section		Township	Range		N,M,P,M
b, Tract N	lo	of Map No		_ of the				
c. Lot No Subdivi	sion, recorde	of Block No d in		of the	ounty.			
d. X=		_ feet, Y=	· · · · · · · · · · · · · · · · · · ·	_ feet, N.	M. Coordinate S	ystem		Zone ir Grant
						_ License No		
					<u> </u>			 -
						_ ft. Total depth of		
mpleted well		hallow 🗀 art	esian.		Depth to water	upon completion o		
Depth is	n Feet	Section Thickness			R-BEARING ST		Estimat	ed Yield
From _	To	in Feet	Descr	iption of '	Water-Bearing F	ormation		er minute)
-	· · · · · · · · · · · · · · · · · ·							
			-					
	,, <u>=</u>		<u> </u>					
			Section 3.	RECORD	OF CASING			
Diameter	Pounds	Threads	Depth in Fe		Length (feet)	Type of Shoe	Pe From	rforations To
(inches)	per foot	per in.	Top I	ottom	(roct)		Figure	10
				· · · · · ·				
		Section	ı 4. RECORD C	F MUDD	ING AND CEM	ENTING		
Depth i	n Feet To	Hole Diameter	Sacks of Mud	C	ubic Feet f Cement		of Placemen	ıt
						;		
			<u> </u>					
			· · · · · · · · · · · · · · · · · · ·			-		
			Section 5.	PLUGGI	NG RECORD		•	
					No.	Depth in Fo	Bottom	Cubic Feet of Cement
	ed				1			
agging approv	red by:				$-\frac{2}{3}$		·	
		State Engir	ieer Representat	tive	4			
			FOR USE OF	STATE E	NGINEER ONL	Y ,	79, 177, 177, 177, 177, 177, 177, 177, 1	
ate Received	Typed :					FWL	. 1	381.
		$d=1,\dots,$	- •	•		•		
File No			U	_{Jse} 011		Location No. 17.	32 <u>.3.432</u> 3	3334

	Section 6, LOG OF HOLE							
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered					
0	40		Caliche					
40	116	·	Anhydrite and sand					
116	150		Sand					
150	363		Red bed					
363	695		Red bed and shells					
695	990		Red shale with shells					
	<u> </u>							
		}						
***************************************	- K							
•			· ·					
	,							
			·					
	-							
-								

This well record is an excerpt from Oil Conservation Commission files at Habbs, N.M.

Location: 17.32.3.4323334

Owner: Chevron U.S.A. Inc.

Elevation: 4284 GL

Maljamar (Grayburg) Unit #12 Record of Casing: 8 5/8" - 1344'

Rotary

660' FSL - 1905' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole,

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. Sons, except Section 5, shall be answered as completely and accurate possible when any well is dealled repaired only Section 1(a) and Section 1(b) and Section 1(c) and Section drilled, repaired or deepe hen this form is used as a plugging record, only Section 1(a) and Section seed be completed.

. STATE ENGINEER OFFICE - WELL RECORD

A) Owner of Street or I City and S	well Post Office Ac	ldress	-			Own	er's Well No.	
ell was drilled	under Permit	No.	, -		and is located	in the:		
a	. ¼ ¾	414	% of Sec	etion	Township	Ra	ange	N.M.
b. Tract l	10	of Map No.		of th	e			
e. Lot No Subdiv	ision, recorde	of Block No d in		of th	e County,	<u> </u>		
		_ feet, Y=		feet, N	I.M. Coordinate	System		Zon
) Drilling C	ontractor	<u></u>			• ,	License No		
dress								
illing Began		Comp	leted		Type tools		Size of l	hole
vation of lan	d surface or _	r		at wo	ell is	ft. Total dept	th of well	
mpleted well	is 🗆 s	hallow 🗀 a	rtesian.		Depth to water	upon completic	on of well	
		Sect	ion 2. PRIN	CIPAL WATE	R-BEARING ST	TRATA		
Depth i From	n Feet To	Thickness in Feet	ı	Description of	Water-Bearing F	ormation		nated Yield sperminute)
1,5712								
	·	-		-				-
							<u> </u>	
					OF CASING	·		D. fanations
Diameter (inches)	Pounds per foot	Threads per in.	Top	in Feet Bottom	Length (feet)	Type of Si	hoe 	Perforations om To
		1						
		+		· · · · · ·		 		
······				<u> </u>		<u> </u>		1
Depth	. Prof	Section Hole			DING AND CEM			
From	То	Diameter	of M		of Cement	Met	hod of Placen	nent
								·
			<u> </u>	L				
			Section	on 5. PLUGGI	NG RECORD		•	
						i Depth i	in Feet	Cubic Fee
ngging Metho	od				No.	Тор	Bottom	of Cemer
ite Well Plug ugging appro					<u>1</u>			
		State Eng	incer Repres	entative	3 4			
					ENGINEER ONI	LY		
ate Received	Typed	5/11/78	TOR OBE			FWL		FSI
,								
E11. M.		14 .		Use 0	<u>il</u>	Location No	17.32.3.	44300

····	- '		Section 6. LOG OF HOLE
Depth	in Feet	Thickness	
From	То	in Feet	Color and Type of Material Encountered
0	115		Caliche
115	255		Red rock
255	290		Sand
290	1055		Red rock
-			
	<u> </u>		
	V		100
			L S Elev 4285 4285 Depth to K 210 Trc 1/3 Elev of K 3115 Trc 1/120 ?
			Elev of K 3995 Trc 4/120 7
			·
P			
			
-			
			, .

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 17.32.3.44300

Owner: Chevron Oil Co.

Maljamar (Grayburg) Unit #14
Record of Casing: 8 5/8" - 1275'

Rotary .

330' FSL - 990' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hale.

Driller

Elevation: 4285' DF

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to appropriate district office ions, except Section 5, shall be answered as completely and accurat of the State Engineer. A possible when any well is hen this form is used as a plugging record, only Section 1(a) and Section drilled, repaired or deepen eed be completed.

Form WR-23 FELD HAR. LOG

STATE ENGINEER OFFICE



INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1			A) Owne	r of well	المنبا	ry .coco				
			S	treet and	Number						
		-	C	lity		Jeiner		Stat	e*	located in the	
<u> </u>	<u> </u>	-	\ \	Vell was	drilled und	ler Permi	t No. BASU.	2-1-59	and is	located in the	
				٠Œ 1/4	14	24 W 14	of Section	Twp	712	Rge	
	╂┈╌╁╍╸		—I ,	B) Drilli	ng Contrac	ctor	. U. ALCE'	: U ₅ , e	License	No79	
			5	Street and	Number		10x 5/9				
	<u> </u>		— (Lity	בֿ א'טעב	iag Goal		Sta1	ie	W **EXICO	
			Ī	Orilling w	as comme	nced		ire qine I.	-62	19	
Ļ			I	Orilling w	as complet	ted	ن فيزية زيافيا.	гу ≟,		19	
()	Plat of 640 a	eres)			1		Total de	ath of woll	450	á 🗓	
Slevatio	on at top of	casing ii	n feet	above sea	عever 1 لگوريو	W	Depth to wa	toe upon do	mpletion	132	
state w	hether well	is shall	ow or	artesian			рерыг ю жа	ter upon co.	mpiemo		
ection	2			PRIN	CIPAL WA	TER-BEARI	NG STRATA				
No.	Depth in	Fcet		kness in		Des	cription of Water	r-Bearing For	mation		
1(0.	From	То		Feet				···········			
1	132	تاريا		24	ЩC О		. Berng				
2											
3		,									
4							•••				
5						·			-		
	<u>' </u>		<u>. </u>		DEC COL	. OF CAE	INC.				
Section	3		i			OF CAS	1140	i	Perforati	lane	
Dia	Pounds ft.	Threa		Top	Bottom	Feet	Type Shoe	From	Periorau	To	
in.						T L. si.	.16 (10	13		150	
ひり	18 25TO	ilea .		0	150	150	.163 1245		-		
		ļ			-						
	_									······································	
		<u></u>	,		<u> </u>			!			
Section	4			RECOR	D OF MUD	DING AN	D CEMENTING				
Dept	th in Feet	Diam		Tons	No. Sac		· I Wellions Used				
From	То	Hole i		Clay	Cem	ent		o of criffic wife housed			
		7	′								
-										orititie.	
							Merr co	Reed no	TO IL	ON CRAYIN	
		<u> </u>							· · · · · · · · · · · · · · · · · · ·		
d 42					PLUGG	ING RECO	ORD				
Section		<i>~</i> ,			-			Licens	o No	ž.	
Name o	of Plugging	Contrac	tor			City	2	State		:	
Street a	and Numbe	r		of D	oughago u	and	יבען	me of rough	age		
rons of	Clay used			TORS OF IN	ougnage u	3cu	Data Ph	raced	.ag	19	
						,, <u>.</u>	Cement Plu				
Pluggin	ig approved	by:							eu as i	Mows.	
_				Basin Sur	ioriffor	No.	Depth of F	lug To	No. of S	acks Used	
			r T	כדו א א	EGCTI						
	FOR USE	of sta	TE EN	artific to	andarii Andarii				,		
		33)1440 <u>.</u>	NEIVEEK	и 7 Лито —				· · · · · · · · · · · · · · · · · · ·		
Date	Received				or mit A Try		 		 		
		4	1 19 1	4A 81 M	1 Z961 €		<u> </u>	<u> </u>			
Same Same					ال	y.271127112711711	sano of the same o				
	10. M.	د د.	7 · L	-59	.I Teo	Don	Locatio	on No. / 7	.32,	10/22	
ише N	10		- ASS			V. Maridan basidana		manager and the second	ten Maren Calendari		

Section 6

LOG OF WELL

Depth i	a Feet	Thickness		
From	To	in Feet	Color	Type of Material Encountered
3	2	ن	1:2'050:	Top Soil
i,	45	7	62. <u>1</u> 66. :	Calicale avok
13	132	120	Leona	Series Clay
132	450.	24	Kea	hat or Sum
	:			
-			· · · · · · · · · · · · · · · · · · ·	
·				
		u incomen	The state of the s	
·				
<u> </u>				
				-
			†	

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

G.O. aldredge Well Driller

STATE ENG	ineer office
WELL	RECORD

	of well	was a f	`	I. CENI	eral in	FORMA.	Own		F	11/-1
(A) Owner Street City a	of Well Land or Post Officers and State Land	NOSTON Address — I DUSTON	0.0.780	X 772	1194 52		QVN.	ot. a Melt I	NO, 44	
.44	led under Perm		•	.,,,,-,,-,	· ·	and le lo	rated in the:			
-							ilp <u> 17 5.</u> Ri	ngo <u>. 3</u>	2E	
							w. Ote			
· s, Loi	Nedivleton, record	_ of Block No), <u>Ir A</u>		of the		`	. 0		
							nate System			Zono la
ths					سسنجسيت الد				generalism medd	Grant.
							License No.			
Address	D. Bor	305	LAME	50	/火	793	3/	8	06-8	71-3285
							1. AIR Rotare			
levation of i							ft. Total depth			
ompleted w	ell la 🗹 :	shallow 🔲	ertesian.		- D	epth to w	ater upon completion	of well	N/H	ſt.
Dent	The Feet	Se Thickne	ection 2. PRII	CIPAL \	VATER-	BEARING	G STRATA	i pr	timated	Vista 1
From		in Feet		Descripti	on of Wa	ter-Bearl	ng Pormation			minute)
α 11	Ē n									
					···					:
		<u> </u>	· <u>.</u>	<u></u>					*	
Diameter	Pounds	Threads		n 3. REC	ORD OF	CASING Length			Perfo	rations
(läches)	per foot	per in.	Тор	Botte	om	(fest)	Type of Shoo	3	Prom	То
60	sch 40	PVC	12	95		····	,020		95	125
0								400.000		
			· · · · · · · · · · · · · · · · · · ·		•				`. i	
. Depth	in Fest	Sect Hols	lon 4. RECOL		UDD:NO Cubic					
From	То	Dlameter	of Mi			ment	Method	of Place	ment	
2	80	83/4	CEME		, , , , , , , , , , , , , , , , , , , 	7	powerD	-	want to de contract states	THE PARTY OF THE P
80	120	83/4	beuto				POURTO			*
120	125	SAND	SAL	<i>)</i>		i	POURED	!! 		
			Section	s. PLU	GGING F	ECORD				. ,
gglog Contr dress	ictor				**************************************	- - Г _{No.}	Depth in F	est		ble Feet
ggag Metho te Well Plugi							Тор	Bottom	of	Cement
tigut abbio		-				- <u> </u>				
		State Eng	Incer Represe		enderen anderen	4		t.	1	
te Received			FOR USE				•		77.00	\
•							FWL			
Pla No	e fic ku	uber ly	0 28	_ Use	مونيه مس	~ lue((Location No.	(· 5 \ · 3	<u>, 500</u>	

		1	Section 6, LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
Pròm	To	in Feet	
	5	5	Smo: yellowst ear, vfg, dey, domp, loose.
5	20		SilfySAUP: REMOKH DROWD - REDDISH YELLOW, BOSE,
20	25	5	SAUDYOUE: LOOSELY CONSOLIDATED, VERY DATE hEDWN
25	60	35	SAND MINORIN CONSOLIDATED H. PEDDISH DEDIEN,
. 9:			Soft dem silty of five NOW plastic
60	80	201	SAND LOOSELY CONSOLIDATED, VERY DATE DERWY
			NF-FINE, SIHV, WAN DIASTIC DRY
80	90	1.5	
_80	-90	10	SANDSTONE WISHALE INTERPEDS! It yellowish
<i>O</i> -			brown loosely consoliontin, Vff dey
9D	11.0		SAND INTERBEDGED WISHALF ; SAND-
W7W0+urushidasaninininasananana			yellowish beown, loose, slightly damp,
***************************************			SILTY. ShALE: KROWN VERY FINE
110	120	10	SAND INTERBEDGED INISHALT: SAND-
			uellowish henux) loose shahtly
			dama you plastic silty shalf
	.,		aleenish arm silty, doust
120	125		
122	183		SAND, It YELLOWISH BENWY GAMP,
			Slightly plastic, loose, VT-tiNE, Silty,
		,	
	- Control of the Cont		

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office

Form MELD ENGR. LOS

 $\mathcal{J}^{\alpha}(\mathcal{F}_{\mathcal{I}}^{\alpha})_{\mathcal{J}^{\alpha}(\mathcal{J}^{\alpha})}$

STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1	L		(A) Oum	er of well	Toxa (G. Ind.		
				l Number				
			City			idland	State	nia d
			Wall was	drilled un	der Peri	mit No. 1-528	and	is located in the
76	4 781	Tron S.	ling v	ST 14		4 of Section. 3	2 Twp. 170 990120 Licens	Rge. 🌃
	60^4 _	Perlan f	(B) Drill	ing Contra	ctori	. S. Musel	<u> Nilite</u> Licens	ie No. 1999
		ļ	Street and	ł Number	1	<u> </u>		
## 5m	00 000	-2-147	City			Sobbs	State	m 'axico
		ļ	D-316- a r		boore	3. 23 TO	11.	1965
			Drilling v	vas comple	ted	ion.	17,	19 <u>6 5</u>
(F	lat of 640	acres)		•	ব72€		g > .0c, 2	,
Elevation	n at top o	f casing in	feet above se	a leveL	nkonn	Total de	pth of well	
State wh	ether we	ll is shallo	w or artesian	11311	(2)4	Depth to wa	ter upon complet	ion
ection 2	2		PRIN	ICIPAL WA	TER-BEA	RING STRATA		
1	Depth i	n Feet	Thickness In	1		escription of Wate	r-Bearing Formation	
No.	From {	То	Feet		D	eachiphon of wave	-2011	
1		3 44 50	#A	(Bernell	newset.	ടിത്യത്തുൻ ആസ	u790	
2	105	155	90	1			UZ-AME_5(1750	
	179	195	20	iina_				· · · · · · · · · · · · · · · · · · ·
3	280	220	8	Ourd &	EISV	97		
4				<u> </u>		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
5				1				
Section :	3		÷	RECOR	D OF CA	SING		
Dia	Pounds	Threa	ds De	pth	Feet	Type Shoe	Perfor	
in.	ft.	in	Top	Bottom	reat	Type base	From	То
10 3/	32.7	i 8	2)	231	232	- Sons	103-231	
						12.13.2		
						<u>. I </u>	<u> </u>	
			DECO:		DING A	ND CEMENTING		
Section 4						ND CEMENTANO		
Depti	h in Feet	Diame Hole in	I	No. Sa Cen			Methods Used	•
From	10							
	<u> </u>	<u> </u>	<u> </u>					
Section :	5 .			PLUGG	ING RE	CORD		
		· g Contract	tor				License No.	
Stroot o	nd Numb	er Or			City		State:	
r e	Clar many	CL	Tops of I	Roughage t	ısed	Т	pe of roughage	
			10119 (7.			Date PI	ugged	19
	-						gs were placed as	
riugginį	g approve	u by:			7			
		· · · · · · · · · · · · · · · · · · ·	A. Basin Su	pervisor	ı	To. Depth of I	To No. of	Sacks Used
)		7.	1.100 2.4000	·				······································
	FOR US	E OF STAT	E ENCHNEER	ONLY				· · · · · · · · · · · · · · · · · · ·
			HAMISHUS STA				· · · · · · · · · · · · · · · · · · ·	
Date	Received	76:8 M	DE DANSET					
			- 1101 7	10[į L			PH
	· L-5	`n 60		Use	9	Locati	on No. 1234.	36443 134

Depth in Feet		Thickness	Ċa1	Type of Metalist Barries		
From	To	in Feet	Color	Type of Material Encountered		
	2	2	Meor	soll & rock		
<i>?</i>	26.	26	Whi he	Calicha & rock		
26	. 80	52	Grey	Sandy shele		
<i>E</i> 0	<u>65</u>	5	£į.	Send rook		
85	140	55	m	Send		
140	1.55	1,5	**	Sana rock		
155	165	10	पे र	Sandy shele		
165	195	30	i.	Sand & sand rook		
195	220	25	77	Sand rock		
220	228/	8	15	Cand & gravel		
228	231	3	Red	Red bed, shele		
	-		· · · · · · · · · · · · · · · · · · ·	L S Elev 3988		
				Depth to K Trc 3787 Elev of K Trc 37607		
				Elev of K Trc 37607		
				19 21 21		
				Loc. No. 17.34,36, 443134 Hydre. Survey Field Cheek X		
				Hydro: SurveyField CheckX		
				SOURCE OF ALTITUDE GIVEN		
				Interpolated from Topo. Sheet		
				Determined by Inst. Leveling		
				Other		
				-		
İ						

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

1-5288

17.34.36.443

STATE ENGINEER OFFICE WELL RECORD

A) Own	r of wellGe t or Post Office A and State	eorge Ken PO Malja	emore Box 15 mar NM	4			Ow	ner's Well No.	RA 0055
	ind Stateilled under Permit					nd is located	in the		
								. R 3	2 E
						_		=	2 E N.M.P.M.
	act No								
c. Le Si	t No bdivision, recorde	of Block No ed in	Lea	0	f the Cou	nty.			
									Zone in Grant.
) Drilli	ng Contractor	J&K Dr	illing				License No.	WD 123	5
	Box 149								
illing Be	_{рап. 7/28/9} 1	├ Com	pleted <u>8/</u>	4/94	1	ype tools	Cable	Size of	hole 8불 in.
vation c	f land surface or .			a	t well is	i	ft. Total dep	th of well	<u>c1 58</u> ft.
	well is 🔀 :								0ft.
			tion 2. PRIN	CIPAL W					
	th in Feet	Thickness in Feet				ter-Bearing F			nated Yield s per minute)
From	То	III Feet	No. 1	woton	tup C	found d	rilling	(ganon	, por minaro
		 		water s well		Tourk G	********		
									
			<u> </u>					<u> </u>	
							,,,,,		
						CASING	1		Darfamatiana
Diamete (inches		Threads per in.	Top	in Feet Botto		Length (feet)	Type of S	hoë 	Perforations om To
	No cse	g was ran	in well	ļ.					
							<u> </u>		
· · · · · · · · · · · · · · · · · · ·		- Cooti	ion 4. RECOI	L	IIDDIN	G AND CEM	ENTING	9	7
De	oth in Feet	Hole	Sack	(S	Cubi	c Feet		thod of Placen	nent-
From	То	Diameter	of M	ud	of C	ement		G:	·
		<u> </u>	<u> </u>						
			ļ					***	1 :::
						<u> </u>		ن ک <u>ہ</u>	<u>: KII </u>
			Sectio	n 5. PLU	GGING	RECORD		7) ဂိဂ္
ugging C	ontractor		MEUTO 1	·				:	
ddress ugging M	ethod	-				_ No.	Depth Top	in Feet Bottom	Cubic Feet of Cement
ate Well l	lugged	W. Accomposition of the Control of t				- <u> </u>			
ugging af	proved by:					$-\frac{2}{3}$			
·		State En	gineer Repres	entative					
			FOR USE	OF STAT	E ENG	INEER ONL	Y		
ate Dece	ved.								
ate Recei	ved August 1	0, 1994		. (Quad 🗀		FWL		FSL

		***	Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	18	18	Sand top soil light brown in calor
18	20	2	Caliche
20	38	18	red sand
38	40	2	med hard sandstone, red in calor
40	50	1 0	white sand with red gravel
50	60	10	red sand with red and black flintstone gravel
60	80	20	Brown colored sand with red and white colored
<u> </u>			sandstone gravel.
80	1 35	55	Red shale with mixture of multi-colored grave.
135	1 57	22	Red colored shale with red, blue, and gray gravel
157	158	1	Red bed
		-	
·			
	,		
		 	
			
	 	 	

Drilled well to 158 feet, 1 foot into Red Bed lormation. No water was encountered while drilling this well. Owner wants to go on to 200 feet. Rigged down and moved off hole. Hole was left openmuith 12 foot 9 5/8 csg in top of well.

The undersigned here by certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer.

sions, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or de the state form is used as a plugging record, only Section 1(a) and Section 1 de the completed.

F999 WR-23

STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1		(A) O	of wall	Maljas	ar Cooperati	.vo Repressuri	ing Agreement
	1		(A) Owner	Number	Room 20	IO, Booker Bl	ag.,	
								New Mexico
	 		— City	معمد المالات	Jon Donn	t No L-2-L	.51 and	l is located in the
								Rge. 32
								nse No.
ļ		ļ	(B) Drillin	ig Contra	ector	Hobbs		mse no.
Ì		\ 	Street and	Number_		10,000,	State B	lew Mexico
			City				State	lew Mexico
			Drilling wa	as comme	enced	S	entamber 10	19
	Plat of 640 ac	Teg)	— Drilling wa	s comple	ted		obesides 701	19_47,
			foot about can	lovel		Total der	oth of well	.40 ft.
716A9110	n as top or	casing in	Teer above sea	1CYCL		Denth to war	ter upop comple	tion
state w.	netner well	is shamo	w or artesian_			The part to wa	cci upon compa	
ection	2		PRINC	IPAL WA	TER-BEAR	NG STRATA		
	Depth in	Feet	Thickness in		Des	cription of Water	-Bearing Formatic	on
No.	From	To	Feet ·					
1								
2						•	· · · · · · · · · · · · · · · · · · ·	
								
3								
4								
5			<u> </u>					
Section	3			RECOR	D OF CAS	ING		
	1	Throng	n Dept	th	Feet	l	Perf	orations
Dia in.	Pounds Threads in		Top			Type Shoe	From	То
7	 	 	0	139	139			
-	-						34	
	- 							
	<u> </u>				-7.		<u> </u>	
ection	4		RECORD	OF MUD	DING AN	D CEMENTING		-
Dept	h in Feet	Diamet	ter Tons	No. Sa	cks of		Methods Used	
From		Hole in		Cem	nent		Methods Osed	
		<u> </u>		-				
		·						, 1
		 		 	· · · · · ·	,		
		1				:		
Section	5				SING REC			•
Nama a	f Physging	Contract	or	-			License N	0
value o	r Trugging				City		State	·····
street a	and Mamber		« То	wahogo i	read	ጥጥ	ne of roughage	
l'ons of	Clay used.		Ions of Ac	ngirage r	, acu	Doto Di	he et tordinge:	10
						Date Fit	igged	19
luggin	g approved	by:			***************************************	Cement Plu	gs were placed a	18 IOHOWS:
				.,	No	Depth of P	INO. (of Sacks Used
_			Basin Supe	ervisor		From	ro .	
	FOR USE	OF STAT	e engineer of	NLY				
								- 1
Date	Received		<u></u>		_ [
				•				
					<u> </u>	***************************************		
¥								
Kile N	_ / ◎ -2-L	-51		_Use	.R.O.	Locatio	on No. 17.32.	11.2314年

23/432

1154117 11541, 2-132-1

	LOG	or werr
	Color	Type of Material Encountered
in Feet	Color	Type of material ancountered
-		Top soil
	white '	Packed sand
	gray	Soft sand
	red	Soft sand
		Top of water sand
1		Coarce water saud
		Bottom of sand
)	red	Clay
		Total depth.
		139' of 7' OD Lapwell pipe run, consisting
		of the last two joints perforated, which
- 	41425	amounted to 43', Total water sand thicknes
	Trc 13/	38'. Hole was bailed in an effort to creat
	Trc.4011	a crevice and remove as much sand as possib
		
<u> -17-32-11</u>	23/47	Well was gravel packed with 3g yards. It i
	<u> </u>	hoped that more gravel can be placed betwee
		casing and the outer wall after well has
Field Che	ock X	been pumped.
		It is estimated that the well is capable of
		producing 100 gallons per minute. This wel
FF OF ALTITUDE	CIVEN.	was completed on September 10, 1947. It was
		drilled by Burke, Phone No. 90, Hobbs, N. M
TEASING		<u> </u>
		· /- · · · · · · · · · · · · · · · · · ·
	- 	
	 	
	i	
	S Eleventh o Kept of K	t Thickness o Color white gray red Tred SElevery stell Tre 137 lev of K Tre 4011 Field Chook X

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Burke	
Well Driller	

1-2-1-51

17.32.11.231

STATE ENGINEER OFFICE WELL RECORD

				·				
	State					n tha:		
					and is located i			,
						Rang		
c. Lot N Subdi	o vision, tecorde	of Block No d in		of the Co	ounty,		· · · · · · · · · · · · · · · · · · ·	
					A. Coordinate S	ystem		Zone in
						_ License No		
evation of la	nd surface or _			at well	is	_ ft. Total depth o	of well	ft.
ompleted wel	llis 🔲 s	hallow 🔲 a	rtesian.	I	Depth to water	apon completion	of well	ft
		1	tion 2. PRINCI	PAL WATER	BEARING ST	RATA		
Depth From	in Feet To	Thickness in Feet	Des	scription of W	ater-Bearing Fo	ormation		ated Yield per minute)
11000								
<u> </u>							· · · · · · · · · · · · · · · · · · ·	
				·····				
		<u> </u>						
		<u> </u>						
	Pounds	Threads	Section 3 Depth in	Feet	DF CASING Length	T C Ch as		Perforations
Diameter			m	Bottom	(feet)	Type of Show	Fre	m To
Diameter (inches)	per foot	per in.	Top	Болош				}
	per foot	per in.	1 Op	Достон				
	per foot	per in.	109	DOLLON				
	per foot	per in.	100	Jonon				
	per foot				NG AND CEMI	ENTING		
(inches)	in Feet	Secti Hole	on 4. RECORI	O OF MUDDI	bic Feet		d of Placem	ent
(inches)		Secti	on 4. RECORI	O OF MUDDI			d of Placem	ent
(inches)	in Feet	Secti Hole	on 4. RECORI	O OF MUDDI	bic Feet		d of Placem	cnt
(inches)	in Feet	Secti Hole	on 4. RECORI	O OF MUDDI	bic Feet		d of Placem	ent
(inches)	in Feet	Secti Hole	on 4. RECORI	O OF MUDDI	bic Feet		d of Placem	ent
(inches)	in Feet	Secti Hole	on 4. RECORI Sacks of Mud	O OF MUDDI	bic Feet Cement		d of Placem	ent
Depth From	in Feet To	Secti Hole Diameter	on 4. RECORI Sacks of Mud	O OF MUDDI Cu of 5. PLUGGIN	bic Feet Cement	Metho		
Depth From	in Feet To	Secti Hole Diameter	on 4. RECORI Sacks of Mud Section	O OF MUDDI Cu of 5. PLUGGIN	bic Feet Cement			Cubic Feet
Depth From lugging Cont ddress lugging Meth Date Well Plug	in Feet To ractor od gged	Secti Hole Diameter	on 4. RECORI Sacks of Mud	O OF MUDDI Cu of 5. PLUGGIN	bic Feet Cement	Metho Depth in	Feet	Cubic Feet
Depth From lugging Cont ddress lugging Meth	in Feet To ractor od gged	Secti Hole Diameter	on 4. RECORI Sacks of Mud	O OF MUDDI Cu of 5. PLUGGIN	G RECORD No. 1 2 3	Metho Depth in	Feet	Cubic Feet
Depth From lugging Cont	in Feet To ractor od gged	Secti Hole Diameter	on 4. RECORI Sacks of Mud Section	O OF MUDDI Cu of 5. PLUGGIN	bic Feet Cement G RECORD No. 1 2 3 4	Depth in Top	Feet	Cubic Feet
Depth From lugging Cont ddress lugging Meth Date Well Plug	in Feet To To od gged oved by:	Secti Hole Diameter	on 4. RECORI Sacks of Mud Section	5. PLUGGIN	G RECORD No. 1 2 3 4 GGINEER ONL	Depth in Top	Feet Bottom	Cubic Feet of Cement

Depth.	in Feet	Thickness	
From	То	in Feet	Color and Type of Material Encountered
0	1.5		Caliche
15	80	. Long Styllar of transport of Style Assembly to	Red clay
80	105	,	Red shale
105	210		Red bed
210	265		Blue shale
265	710		Red bed
710	850		Red sand (water 710-810)
850	983	-	Red bed
983	995		Red sand
995	1024		Red bed
			L S Elev 3936
			Depth to KTrc/3 Elev of KTrc_392/
	<u> </u>		
		<u>-</u>	
- 1		1	

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 17.32.26.41000 Owner: Continental/Oil Co.

Elevation: 3936' DF

MCA Battery 4 #189
Record of Casing: 8 1/4" - 1062'

Cable

1980' FSL--1980' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office of the State Engineer. A considerable should be answered as completely and accurate possible when any well is drilled, repaired or deepends, when this form is used as a plugging record, only Section 1(a) and Section a need be completed.

Revised June 1972

STATE ENGINEER OFFICE WELL RECORD

	. PIO (COB INC.			Owner's We	II No	
) Owner of w	ell — F 10 —	ess3700	Kermit Hw				
City and St	ale	Odes	sa, TX 79	764			
		RA-10)175	and is located in	the:		
ll was drilled u	nder Permit No	0			7.0 · n	32E	NMPM
8	y y	NE % NW	. % of Section2	8 Township 1	/S Range		.14.01.1 .14.
				f the			
b. Tract N	o	ot was up		. (1)	•		-• -
c. Lot No.	0	f Black No		of the			·
Subdivi	sion, recorded.	ín		County.	·	-	
		f+ V=	fe	et, N.M. Coordinate S	ystem		_ Zone in
* * *							
		alan Badas			License No. WD	1044	
Drilling Co	ntractor	Alan Laues	3		_ Elcolise 110,-27ma-		
12	00 E. Be	nder Blyd	Hobbs, N	IM 88240			
.dress				muu kaale	rotary	Size of hole 7.	7/8_in.
illing Began	2-4-02	Complet	ed	Type tools		DE- 17	
e: -61s-	face or			at well is	_ ft. Total depth of v	vell <u>158</u>	ft.
evation of tane							
ompleted well	is XX sh	allow 🗀 arte	sian.	Depth to water	upon completion of v	Well	
		Santin	2 PRINCIPAL W	ATER-BEARING ST	RATA		
		Thickness	1			Estimated Y	
Depth is	To	in Feet	Description	on of Water-Bearing F	ormation	(gallons per m	ivn(s)
				1			}
87	89	2	Sand & GI	avel			
89 -	116	27	Sandy yel	low & blue C	lay		
				shale			
116	124	8	Hard Gray	Sligite			
			Castion 2 REC	ORD OF CASING			
			Depth in Feet	Length	-	Perfor	ations
Diameter (inches)	Pounds per foot	Threads	Top Bott	om ((eet)	Type of Shoe	From	To
(4.00.00						118	158
5 3/4	160psi			158		119	1.70
		1					
		Saction	4 RECORD OF I	MUDDING AND CEN	MENTING		$i_{i_{i}}$.
Denth	in Feet	Hole	Sacks	Cubic Feet		of Placement	
From	To	Diameter	of Mud	of Cement		<u> </u>	
			-		ai "	: -	150
							:
						Ü	· · · · ·
				<u> </u>			
			Section 5, PL	UGGING RECORD			
• •							
lugging Contr					Depth-in Fe	et . C	ubic Feet
ddress lugging Metho				No.			(Cement
lugging metric late Well Plug				<u> </u>			
tugging appro				2			
		State Engir	icer Representative	3	+		
		Ciare Diff					
	N3 1/2	ಹಿತ	FOR USE OF ST	ATE ENGINEER ON	LY T#	222219	
)ate Received	03/06/2 RA-1017		-			FS	
-ile No	4-1017	2	The North	d San year	Lec. 10 175.33	15,28,12	
			126- 11. VI	1	7-03 · M		

		х	
Depth	in Feet	Thickness	ACTION D. ECO OF MOLE
From	То	n Feet	Color and Type of Material Encoup
0	1	1	Top Soil
1	8	7	Sand w/ clay & Sandstone Stringers
8	44	36	Sand & Sandstone Stringers
44	55	11	Sandy Red Clay
_ 55	87	32	SAndy yellow & blue clay
87	89	2	Sand & Gravel
89	116	27	Sandy yellow & blue clay
116	124	8	Hard gray shale
124	158	34	Yellow, blue & red clay
		/	
		-	
			
			
	<u> </u>		
			
			
:			:
			·

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE WELL RECORD

Street or F	ost Office Ad	dress				Owne	r's Well No	
Yell was drilled	under Permit	No	_		and is locate	ed in the:		
a	. ¼ ¼	¼	¼ of Sec	tion	Township	Ra.	nge	N.M.P.M.
b, Tract N	lo,	of Map No		of th	e			
c. Lot No		of Block No		of th	County			
						a Guetom		Zone in
		_ reet, Y=		1cct, 1	V.M. COOLUMA	e System	•	Grant,
B) Drilling Co	ontractor		<u>. </u>			License No		
ddress								
levation of lan	d surface or _		- 	at w	ell is	ft. Total depth	of well	ft.
Completed well	is 🗆 sl	hallow 🗀 ar	tesian.		Depth to wat	er upon completio	n of well	ft.
		T	on 2. PRING	CIPAL WATE	ER-BEARING	STRATA	Paties	ated Yield
Depth i From	n Feet To	Thickness in Feet	ľ	escription of	f Water-Bearing	Formation		per minute)
	<u></u>							
		<u> </u>	- 					
<u> </u>		<u></u>	Santin		OF CASING			
Diameter	Pounds	Threads	Depth		Length	Type of Sh	oe 	Perforations
(inches)	per foot	per in.	Тор	Bottom	(feet)		FI	om To
		<u> </u>		<u> </u>				
			<u></u> -	<u> </u>	<u>- </u>			
Denth	in Rest	Section Hole			DING AND CE Cubic Feet		I F.W.	
Depth From	То	Diameter	of M		of Cement	Meth	od of Placem	ient
			<u> </u>	<u>,, , , , , , , , , , , , , , , , , , ,</u>				
				<u> </u>				
			Section	n 5. PLUGG	ING RECORD		•	
Plugging Contra	actor							
Address Plugging Metho					No.	Depth it	Bottom	Cubic Feet of Cement
Date Well Plugs Plugging appro	;ed			-				
· MPPHIS OFFICE		State Engi	incer Repres	entative	3			
					ENGINEER O	NLY		
Date Received	Typed :	5/11/78	1 OV OSE			FWL		_ FSL
		-						
File No.		194		Use		Location No	سا	

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	70		Surface sand
70	190		Red bed
	. ^		
			
			L S Elev
	-		Depth to K Trc 10 Elev of K Trc 386 7
			LISY OF INC.
		- ,	
			·
			·
		-	
	· ·		
		Section	7. REMARKS AND ADDITIONAL INFORMATION
This wel	l record i		pt from Oil Conservation Commission files at Hobbs, N.M.
Location Owner:	: 17.32.2 Continenta MCA Un	9.11000 1 011 Co. 1t Battery	Elevation: 3937' GR
Cable	f Casing:	8"	~ 873'
660' FNL	- 660' FW	ī.	
	· ·		
The undersions	d herebu cortif	ipe that to the	heet of his knowledge and heliof the formation
described hole.	a norvoy cerdi	os mat, to the	best of his knowledge and belief, the foregoing is a true and correct record of the above
-			Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A constant ions, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepends when this form is used as a plugging record, only Section 1(a) and Section and Section and Section and Section and Section are deepended.

STATE ENGINEER OFFICE WELL RECORD

Street or I	Post Office A	ddress				Owne	er's Well No			
ell was drilled	under Permi	t No			_ and is located	in the:				
a	_ 1/4	¼ <u> </u>	¼ of Se	ction	Township	Ra	nge	N.M.P.M		
,c. Lot No	icion record	_ of Block No ed in		of th	e		<u></u>			
		feet, Y=		feet, N		System		Zone in		
the								Grant		
	ontractor					Elective IVO				
								rolein		
vation of lan	d surface or			at we	ell is	ft. Total depti	h of well	ft		
mpleted well	is \square	shailow 🗆 a	ırtesian.		Depth to water	upon completio	n of well	ft		
		Sec	tion 2. PRIN	CIPAL WATE	R-BEARING ST	TRATA		1. 1.37: .1.3		
Depth i	n Feet To	Thickness in Feet		Description of	Water-Bearing F	ormation		ated Yield per minute)		
Prom							1			
		-				V. A. W ,				
							 			
							·			
				<u></u>			<u> L</u> ;			
			Section	on 3. RECORD	OF CASING					
Diameter	Pounds	Threads		in Feet	Length (feet)	Type of Sh	Type of Shoe Perforations From To			
(inches)	per foot	per in	Тор	Bottom	(1000)			From To		
						<u> </u>				
					<u> </u>	ļ				
					<u> </u>					
		Sect	ion 4. RECO	RD OF MUDI	DING AND CEM	IENTING				
Depth		Hole Diameter	Sac of M		Cubic Feet of Coment	Meth	nod of Placem	ent		
From	То	Diamotor	0.1.	or Muu Green		<u>-</u>				
	-		<u> </u>							
			Section	on 5. PLUGGI	NG RECORD	-	-			
						Depth i	n Feet	Cubic Feet		
ngging Metho	od				Nn.	Top Bottom of C		of Cement		
'lugging Method Date Well Plugged Plugging approved by:										
	·	State En	gineer Repre	sentative	3			<u> </u>		
	· · · · · · · · · · · · · · · · · · ·					· v				
ate Received	Typed	5/11/78	FOR USE		engineer oni					
								FSL		
							17 22 20 1	2.000		

222	Section 6. LOG OF HOLE										
Depth in Feet		Thickness in Feet	Color and Type of Material Encountered								
From	То	In Feet	Oster and Type or material incountered								
0	85	<u> </u>	Surface sand and caliche								
85	105		Sandstone								
105	755		Shale								
			-								
· · · · · · · · · · · · · · · · · · ·											
			L S Elev 3984								
			L S Elev 3984 Depth to K Trc 105 Elev of K Tre 3877								
		}									
	-		-								
	,										
			·								
•											
:											

This	well	record	1.5	ßn	excernt	from!:011	Conservation	Commingion	f 2 1 00		11-11-	M M
TITE	# CTT	TECOLO	44	OTT	ewcerhc	TION SOIL	COURSELASTION	Commission	Illes	Ar	Hohke.	Ν.Μ.

Location: 17.32.29.24000 Owner: Continental Oil Co.

Elevation: 3984' DF

MCA Unit Battery 2 #154

Record of Casing: 8" - 8601

Cable -

1980' FNL - 660' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office of the State Engineer. A cons, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepends when this form is used as a plugging record, only Section 1(a) and Section need be completed.

STATE ENGINEER OFFICE WELL RECORD

Street or P	well ost Office Ad tate	dress	<u> </u>				Owner's	well No.			
ell was drilled t	under Permit	No			an	d is located	in the:				
a	1/4 1/4	·¼	¼ of Se	ection	1	Fownship	Range	·	N.M.P.M		
b. Tract N	0	of Map No.			of the						
c. Lot No Subdivi	sion, recorded	of Block No 1 in			of the Coun	ity.					
d. X=		_ feet, Y=		fe	et, N.M. (Coordinate S	System		Zone ii Grant		
****							_ License No				
								<u> </u>			
								_ Size of hole	in		
vation of land							_ ft. Total depth of				
npleted well	is 🗀 s	hallow 🔲 a	rtesian.		Dep	oth to water	upon completion of	weil	I(
		1	tion 2. PRIN	CIPALW	ATER-B	EARING ST	RATA	Votimata	d Viold		
Depth is From	n Feet To	Thickness in Feet		Descriptio	η of Wat	er-Bearing F	ormation		Estimated Yield (gallons per minute)		
				•							
		-				· · · · · · · · · · · · · · · · · · ·					
							·				
				·····					·-··		
		J									
		•	Section	on 3. REC	ORD OF	CASING					
Diameter (inches)	Pounds per foot	Threads		in Feet Botto		Length (feet)					
(menes)	perioot	Por III.	Тор	Botte	, iii	\					
	···········	-	· · · · · · · · · · · · · · · · · · ·	-		······································					
				ļ				<u> </u>	.		
				<u></u>							
		Secti	on 4. RECC	ORD OF M	UDDING	G AND CEM	ENTING				
Depth in Feet Hole		Sacks Cubic F of Mud of Com-									
From	То	Co Diameter		Of Milita							
				···············	ļ						
								·			
						<u></u>					
		•••	Canti	ion 5, PLU	iccinic	DECORD.			-		
ugging Contra	netar		3000	ion J, i bo	Como						
ldress					· <u> </u>	No.	Depth in Fe		Cubic Feet of Cement		
igging Metho ite Well Plugg		:				_	Top I	Bottom	or cement		
igging approv		-									
		State Eng	ineer Repre	sentative		4					
			FOR US	E OF STA	TE ENG	INEER ONI	Υ		-		
ate Received	Туре	d 5/11/78					FWL	F	SL		
		:		,							
File No				Use	011		Location No. 17	. 34. 47. 341	JUU		

Depth i	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	55		Sand and caliche
55	350		Red mud
350	470		Red shale
	V		
		-i	L S Elev 3933 Depth to K Trc 53
			Depth to KTrc
			
	<u> </u>		
	···	-	
	A STATE OF THE PROPERTY AND THE PROPERTY		
		- 1	
	<u></u>		
			REMARKS AND ADDITIONAL INFORMATION
			t from Oil Conservation Commission files at Hobbs, N.M.
Location: Owner: Co		011 Co.	Elevation: 3933
Record of	MCA Unit Casing:	Battery 2	#170 - 990'
Cable .			
1980' FSL	- 1980' F	WL	
	خ		
V			
The undersigned	hereby certif	ies that, to the	best of his knowledge and belief, the foregoing is a true and correct record of the above
described hole.		-	
			Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office of the State Engineer. A consequence of the State Engineer. A consequence of the State Engineer of the State Engineer of the State Engineer of the State Engineer. A consequence of the State Engineer o

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

a Y		44			Owner's W		
was drilled	under Permi	t No		and is located	in the:		
a	. ¼	¼ <u> </u>	¼ of Section	Township	Range		N,М.Р.М
b. Tract h	No	of Map No		of the			
c. Lot No Subdiv	ision, recorde	_ of Block No ed in		of the			·
d. X≃	· · · · · · · · · · · · · · · · · · ·	feet, Y=	fe	et, N.M. Coordinate S	System		Zone it Grant
					License No.		
ress					· · · · · · · · · · · · · · · · · · ·		
ling Began .		Compl	eted	Type tools		Size of hole	in
					_ ft. Total depth of w		
		shallow 🔲 ar			upon completion of v		
			on 2. PRINCIPAL W	ATER-BEARING ST	RATA	Estimated	
Depth i	n Feet To	Thickness in Feet	Description	on of Water-Bearing F	ormation	(gallons per t	
	· · · · · · · · · · · · · · · · · · ·						
		-					
	<u> </u>						
		<u> </u>					
	Day-da	Threads	Section 3. REC	ORD OF CASING Length		Perfo	rations
Diameter (inches)	Pounds per foot	Threads per in.	Top Bott	((4)	Type of Shoe	From	То
		0	- 4 DECORD OF A	AND CEM	PNTING		4
Depth	in Feet	Hole	Sacks	Oubic Feet		f Placement	
From	То	Diameter	of Mud	of Cement			
							·
-							<u></u>
			Section 5. PLU	JGGING RECORD			
gging Contr	actor						
ooina Methr	hr			No.	Depth in Fee Top Be		ubic Feet f Cement
te Well Plug	ged						
gging appro	······································		Representative	3			
		State Engi	neer Representative	4	<u> </u>	<u>L</u>	
ha Dagain 4	Typed	5/11/78	FOR USE OF STA	TE ENGINEER ONI			
te Received	Typed	5/11/78	FOR USE OF STA		FWL	FSI	, <u></u>

From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
00	45		Sand and caliche
45	85 (Red sand
85	125	~~~~ ~~~	Caliche
125			
147	400	-	Red bed
			.,
	<i>P</i>		
		······································	L S Elev
}			Depth to K Trc 3334 ? Elev of K Trc 36334 ?
		oloowie	
	[,	
		<u> </u>	
		···	
<u></u>	·	Section 7	7. REMARKS AND ADDITIONAL INFORMATION
his wel	l record fo		pt from Oil Conservation Commission files at Hobbs, N.M
ocation		/	
	Continental	l 011 Co.	2/4/ 2 #124
lecord o	MCA Unit	Battery 8"	- 1050° - 2° E/2v. 39/9
able			Ger appear to be SH Court
	- 660' FWI		The state of the first
100	000 141	· OK	•
V			

Section 6. LOG OF HOLE

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office of the State Engineer. Although the state Engineer on the State Engineer. Although the state Engineer on the state Engineer of the State Engineer. Although the state Engineer of the State Engineer of the state Engineer of the State Engineer. Although the state Engineer of the State Engin

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

Owner of Street or 1	well Post Office A	ddress	 	: :	7	2 7	Owner	r's Well No	· · · · · · · · · · · · · · · · · · ·
City and S	State								
ll was drilled	under Permi	t No,			and	l is located i	n the:		
a	_ ¼ 	14 14	¼ of S	ection	T	ownship	Ran	ge	N.M.P.M
b. Tract l	Yo	of Map No.		ol	the				
c. Lot No Subdiv	rision, record	_ of Block No ed in		of	the _ Count	y.			
		feet, Y=			i, N.M. C	oordinate S	ystem		Zone ir Zone ir Grant
							License No.		
								Size of I	nolein
								•	ft
npleted well		shallow							ft
inprocess	. •-			NCIPAL WA		ARING STI	•		
in F		Thickness in Feet		Description	of Wate	r-Bearing Fo	rmation		ated Yield per minute)
From.	1.0							·	
	'					,	-		
	· · · · · · · · · · · · · · · · · · ·								
<u></u>		J·	Section	on 3. RECC	RD OF	CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depti Top	in Feet Bottor		Length (feet)	Type of Shoe Perforations From T		
		-	·	<u> </u>					
·	<u> </u>	Secti	ion 4. RECC	ORD OF MU	DDING	AND CEME	ENTING		
Depth From	in Feet To	Hole Diameter	Sac	cks Mild	Cubic of Ce	Feet		od of Placem	ent
			- 						
	2					LOSSIA			
			Secti	ion 5. PLUC	GING R	ECORD			-
iggin g Contr Idress						- - _{NI-}	Depth in	Feet	Cubic Feet
regine Motho	od bo					- No.	Тор	Bottom	of Cement
igging appro						2			
		State Eng	gineer Repre	esentative		- <u>3</u> 4		2.77	
			70-71		E PACE	WED ON	7		
	Тиева	5/11/78	FOR US.	E OF STAT	E 15 NGD	NEEK ONL	•		
ate Received	Typed	5/11/78	FOR US.						FSL

		,	Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Fect	Color and Type of Material Encountered
0	50		Surface formation 7
50	575		Red bed
575	580		Shale (water)
580	675		Red bed
675	810		Anhydrite
810	820		Sand water
		· · · · · · · · · · · · · · · · · · ·	,
	· · · · · · · · · · · · · · · · · · ·		£ S Elev 3895 Depth to K Trc 30 Elev of K Trc 3893
	· -		Elev of K Trc 3843
			•
PERSONAL SECTION OF THE PERSON			
			į.
			· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·
	<u>,</u>		
Thie wall	racerd 1-		T. REMARKS AND ADDITIONAL INFORMATION of from Oil Conservation Commission files at Hobbs, N.M.
	17.32.30		
Owner: C	ontinental MCA Unit	l 011 Co. : Battery 1	Elevation: 3895' DF
	oserng:	8"	- 6/0
Cable			
1980. LNT	- 660' FW	/L	

The undersigned here by certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office of the State Engineer. At the constant of the State Engineer. The constant of the State Engineer is the constant of the State Engineer. The constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the Constant of the State Engineer is the Constant of the State Engineer is the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

Owner of Street or City and	well Post Office A State	ddress					Owner's	Well No. —		
ell was drilled	under Permi	t No			and is	s located	in the:			
a	_ ¼	¼¼	¼ of Sec	tion	Tov	nship	Range		N,M,P,M	
b. Tract	No	of Map No	√ 2	0	of the			 ,	<u> </u>	
c. Lot No Subdir	o	of Block No		0	of the County.					
ġ. X =				fee	at. N.M. Coo	ordinate S	System		Zone in Grunt,	
	Contractor						_ License No			
dress										
illino Regan		Comp	leted		Туре	tools		_ Size of hol	ein.	
							_ St. Total depth of			
		shallow 🗆 ar					upon completion of			
		Sect	ion 2. PRINC	CIPAL W	ATER-BEA	RING ST	RATA			
Depth in Feet Thickness From To in Feet			1	escriptio)	Estimated Yield (gallons per minute)					
rtom_		- 								
·		 								
 								••••		
	<u>.</u>			·				,	· · · · · · · · · · · · · · · · · · ·	
Diameter	Pounds	Threads	Section Depth		ORD OF CA	asinG ength	Type of Shoo	Pe	rforations	
(inches)	per foot	per in.	Тор	. Botto	om (feet)	1700 01 0100	From	To	
				· <u>.</u>		<u> </u>				
				<u></u>						
			on 4. RECOI				ENTING			
Depth From	in Feet	Hole Diameter	Sack of M		Cubic F	eet ent	Method	thod of Placement		
110,11	1									
	:									
	1									
			I		<u> </u>				<u>.</u>	
			Section	on 5. PLU	IGGIN G RE	CORD				
ugging Cont.	ractor		<u></u>	on 5. PLU	IGGING RE	CORD	Depth in F	201	Cubic Feet	
ldress agging Meth	ód				IGGIN G RE	No.	Depth in Fo	Bottom	Cubic Feet of Cement	
ddress ugging Moth ate Well Plug	od				IGGING RE	Γ		Bottom		
ddress ugging Moth ate Well Plug	od				IGGIN G R E	No.		Bottom	of Cement	
ddress	od zgcd	State Eng	incer Repres	entative	TE ENGIN	No. 1 2 3 4	Тор	Bottom	of Cement	
ddress	od	State Eng	incer Repres	entative	TE ENGINI	No. 1 2 3 4 EER ONL	Тор	Bottom	of Cement	

			Section 6. LOG OF HOLE
Depth	in Feet	Thickness in Feet	Color and Type of Material Encountered
From	То	in Feet	Color and Type of Material Engountered
0	50		Surface sand and caliche
50	545		Red bed and red rock
545	590		Red bed, sandy
	1	<u></u>	i
············	-		397/
	<u> </u>		L S Elev 387/ Depth to KTrc30 Elev of KTrc_382/
		-	Elev of KTrc_382/
	<u>-</u>		
		· · · · · · · · · · · · · · · · · · ·	
			4.
<u>,l</u>			

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 17.32.30.33000 Owner: Continental Oil Co.

Elevation: 3871 DF

MCA Unit Battery 1 #218 Record of Casing: 10 3/4" 68'

8 5/8"

- 1018'

Cable

660' FSL - 660' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. At some ons, except Section 5, shall be answered as completely and accurate possible when any well is nen this form is used as a plugging record, only Section 1(a) and Section drilled, repaired or deepend heed be completed.

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

	ost Office Add	dress			· · · · · · · · · · · · · · · · · · ·					
ell was drilled	under Permit i	No			and is located	in the:				
a	¥ ¼	¼	¼ of Sec	tion	_ Township _	Range		N,M,P,M		
b. Tract N	lo	of Map No		of the			· · ·			
c. Lot No	i			of the						
		•				System		Zone in		
inc										
						License No.				
ldress				<u> </u>	·					
illing Began		Compl	leted		Type tools		Size of h	olėin		
						_ ft. Total depth o				
ompleted well	,	nailow 🗔 at				upon completion o				
•				CIPAL WATER	R-BEARING ST	RATA				
in F		Thickness in Feet			escription of Water-Bearing Formation (gallons per minute					
From	То	M Feet								
						·				
							· · · · · · · · · · · · · · · · · · ·			
		<u> </u>		·			· · · · · · · · · · · · · · · · · · ·			
				·						
	<u></u>		Section Depth	n 3. RECORD	OF CASING Length			Perforations		
Diameter (inches)	Pounds per foot	Threads per in.	Тор		(feet)	Type of Shoe	Fro			
		<u> </u>		· · · · · ·						
			-							
		Section	on 4. RECOI	RD OF MUDD	ING AND CEM	ENTING				
Depth	in Feet To	Hole Diameter	Sack of Mu	s C	ibic Feet Cement		d of Placement			
From	1,0			-						
			<u> </u>							
					-					
			<u></u>		L					
			Sectio	n 5. PLUGGE	G RECORD					
lugging Contra Address	actor	-				Depth in F	eet	Cubic Feet		
lugging Metho					No.	Тор	Bottom	of Cement		
lugging appro		,	-		$\frac{1}{2}$					
	-	State Eng	incer Repres	entative	4					
			FOR USE	OF STATE E	NGINEER ONL	.Y	-			
Date Received	Typed	5/11/78		•						
				Quạd		FWL		FSL		

0 64	Thickne in Feet 64 82 792	Color and Type of Material Encountered Sand and caliche Red bed Sand, red, and shale
64	82	Red bed
		Red bed
82	792	Sand, red, and shale
	1	LS Elev
		Depth to K Trc 547 Elev of K Trc 3898
	<u> </u>	
	-	
1		

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 17.32.34.241111 Owner: Continental Oil Co.

Elevation: 3952 Sea Level

Pearsall BX #2

Record of Casing: 8 5/8"

59 ' 5 1/2"

Rotary

- 3515'

1345 FNL - 1295' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All ons, except Section 5, shall be answered as completely and accurate possible when any well is defined required on the form is used as a pluming record only Section 1/2) and Section 2. drilled, repaired or deepen hen this form is used as a plugging record, only Section 1(a) and Section need be completed.

SECTION

TOWNSHIP 175

RANGE 55E

STATE ENGINEER OFFICE

WELL RECORD



Section 1	l		/A) O	wmov of well	- 14 አማሪካሪ - 15 አማሪካሪ	NE RESTAUN	COMPANY	
			1				VACUSTALIS	
								rexas
	l . i							I is located in the
								Rge. 33 2
								nse No. 10-46
			.3					
								Vaw Noxi co
1								19 57
(F	lat of 640 ac	res)	—→ Drillin	g was compl	eted	-	necember is	<u> 21. 19.57 </u>
Elevation	n at top of	casing i	n feet above	sea leveL		Total de	pth of well	80
State wh	ether well	is shallo	ow or artesi	ian Sla	allow	Depth to wa	ter upon comple	tion 150
Section 2	3		P	RINCIPAL W	ATER-BEAR	ING STRATA		
No.	Depth in	Feét To	Thickness i Feet	in .	De	scription of Water	r-Bearing Formatio	n .
1	150	180	90	water	e sand			
2								
3								
4								
5					•	············		
Section 3	3			RECO	RD OF CA	SING		
Dia	Pounds	Threa	ds	Depth	Feet	Type Shoe	Perfo	rations
in.	ft.	in	Тор	Bottom	Bottom		From .	То
	16		0 0	1.60	140	plain	150	160
				-	- 		-	
					-			<u> </u>
	<u> </u>	<u></u>			1	<u>[</u>		
Section 4	[REC	ORD OF MU	DDING AN	ND CEMENTING		
	in Feet	Diame Hole in	l l		acks of nent		Methods Used	
From	То	Hole III	П. Ста	Ly Cei	uent			
	 	ļ			<u> </u>			
	-							
							·	· · · · · · · · · · · · · · · · · · ·
	*	<u> </u>	<u> </u>	. 1				
Section 5	i			PLUG	SING REC	ORD		
								,
				The second secon	_			
	-							
								·19
Plugging	approved	by:			S-10-11-1-1	Cement Plug	gs were placed as	follows:
				Constitution -	No	Depth of P	No.0	f Sacks Used
	and the second s	I II	ገ T Basin			From 7	?o	
	FOR USE	OF STAT	E ENGINEE	RONLY				
Det 3	Danie - J		DEC 30 19	J5/		-	_	·
Date 1	Received	 	OFFIL					
			IND WATE! " OSWELL, NEW		<u> </u>	1 1		
		L^						
File No.	100	375	ð	UseC	الان و	D Locatio	n No. 17.3	7.1.190

	în Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet	Color	Type of management
_0	3	1		eoil
1	20	19		coliuhe
20	150_	130		dry gand
150	140	30		water send
			,	
			······································	
		 	1	
				,
	-			
	a			
:				1
	i			
	 			
			-	
		1		<u> </u>

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

rige su E.S.

STATE ENGINEER OFFICE





176 183 7 Water Sand	Section 1			-		_		, * • • • • • • • • • • • • • • • • • •						
City Odesses State Towas Melt was drilled under Permit No. Layris and is located in the State St	<u> </u>					* *			. , ,	——————————————————————————————————————				
Well was drilled under Permit No. 1-3762														
S. R V. S. R V. S. R V. S. S V. S. S. E. V. S. Section 9 Twp 17.3 Rge 33 S. (B) Drilling Contractor Gaythee Dutilling Co. Literase No.Richila Street and Number 20 1023. City Lewington State Now Identical Drilling was commenced Robe 6 19. 58 Drilling was commenced Robe 6 19. 58 Drilling was commenced Robe 6 19. 58 In 19. 58 Polling was commenced Polle 6 19. 58 Drilling was commenced Polle 6 19. 58 Drilling was commenced Polle 6 19. 58 Drilling was commenced Polle 6 19. 58 In 19. 58 PRINCIPAL WATER-BEARING STRATA No. Prom To Feet Thickness in Description of Water-Bearing Formation Prom To Feet Diameter Sand RECORD OF CASING Depth in Feet Diameter Ton Record Polle 7 19. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	<u>-</u>		·											
(Plat of 640 acres) (Plat of		. .	.	-			-							
Street and Number	į t			:: <u></u>			1.0		=,					
City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City Law Commenced Feb. 6 19. 58 19. 58 City City City City City City And to 646 acres) Dilling was completed Feb. 6 19. 58 19. 58 City City City City City City City City LawIngten City LawIngten City City City City	,				(B) Drillin	g Contra	actor_Ca	yten Drillin	Co Lic	ense No. Ep 183				
City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City LawIngten City Law Commenced Feb. 6 19. 58 19. 58 City City City City City City And to 646 acres) Dilling was completed Feb. 6 19. 58 19. 58 City City City City City City City City LawIngten City LawIngten City City City City					Street and	Number.		s 1031		: 77.				
(Plat of 460 acres) Created to 460 acres) Drilling was completed. Feb. 8 19.58		<u></u>	· · · · · · · · · · · · · · · · · · ·		City1	coingle	379	* 3 ::	State .					
Circular of 469 acress Circular of top of casing in feet above sea level. Total depth of well 189 59.				1						_				
Contraction at top of easing in feet above sea level		list of 640			Drilling wa	s comple	eted	Feb	3	19 58				
Depth to water upon complétion 153 ft. Depth to water upon complétion 153 ft. Depth in Feet Thickness in From To 1	•				.4 -1	11			_12 £	**************************************				
PRINCIPAL WATER-BEARING STRATA No. Depth in Feet Thickness in Feet Thickness in Feet Thickness in Feet Thickness in Feet Thickness in Feet Thickness in Feet Thickness in Feet Thickness in Top Bottom Feet Type Shoe Fertorations RECORD OF CASING Perforations RECORD OF CASING Perforations RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons Clay No. Sacks of Cement Methods Used RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons Clay No. Sacks of Cement Methods Used RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Clay No. Sacks of Cement Methods Used Tons of Clay used Tons of Roughage used Type of roughage Date Plugging approved by: Cement Plugs method used Tons of Roughage used Type of roughage Date Plugged 19 Recovery MASSEC Tons of Plug Massec Tons Tons Depth of Plug Massec Placed as follows: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used No. Depth of Plug No. of Sacks Used No. Depth of Plug No. of Sacks Used														
Depth in Feet Thickness in Freet Description of Water-Bearing Formation	state wn	tetner we	ii is snaii	ow o	r artesian			Deptn to wa	ter upon comp	letion 153 fa				
No. From To Feet	Section 2	3			PRINC	IPAL WA	ATER-BEAR	ING STRATA						
From To Feet 1 151 170 19 Feet 2 276 183 7 Water Sand 4 5 Section 3 RECORD OF CASING Dia Pounds In Threads In Top Bottom Feet Type Shoe Ferforations From To Fom To Record Top Bottom Feet Type Shoe Ferforations From To Hole in In Clay Cement Bellia 183 10 100 lbs Dry Nix = Hole Graval Packed Section 5 PLUGGING RECORD State and Number City State Cons of Clay used Tons of Roughage used Type of roughage Date Plugging method used Tons of Roughage used Tons of Roughage used Tons of Roughage used Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of Roughage used Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of roughage Type of Roughage Water Supervisor Type o	No	Depth	in Feet	Th			De	scription of Wate	r-Bearing Format	ion				
2 176 183 7 Water Sand 3 RECORD OF CASING Determination of the control of the c		From	То	<u> </u>	Feet		1 WT] -	+ 2 T						
2 176 183 7 Water Sand 3 RECORD OF CASING Bettinn 3 RECORD OF CASING Bettinn 3 RECORD OF CASING Bounds ft. in Top Bottom Feet Type Shoe Perforations From To To Bettinn 4 RECORD OF MUDDING AND CEMENTING Bettinn 4 RECORD OF MUDDING AND CEMENTING Bettinn 5 No. Sacks of Cement Methods Used Bettinn 5 No. Sacks of Cement Methods Used Bettinn 5 PLUGGING RECORD Bettinn 5 PLUGGING RECORD Bettinn 5 PLUGGING RECORD Bettinn 5 City State Cons of Clay used Tons of Roughage used Type of roughage Bugging method used Date Plugged 19 Cement Plugs were placed as follows: Basin Supervisor Cement Plugs were placed as follows: Date Received FEB 2 1958 A No. Depth of Plug No. of Sacks Used FOR USE OF STATE RAY IN EAST OFFI CE BOUND WATER ENETWING OFFI CE GROUND WATER ENETWING OFFI CE TYPE Shoe TOTAL TYPE SHOE TOTAL TYPE SHOE TOTAL TYPE SHOE TOTAL TYPE SHOE TOTAL TYPE SHOE TOTAL TYPE SHOE TOTAL TYPE SHOE TOTAL TYPE SHOE TOTAL TYPE SHOE TOTAL TYPE SHOE TOTAL TYPE SHOE	1	763	270		10	3 Fokaw Cami								
RECORD OF CASING Diagram Depth Depth Perforations	2													
RECORD OF CASING Dia Pounds in Threads in Top Bottom Feet Type Shoe Ferforations From To 6.5/8 1.7 1.0 0 183 181 Name 110 183 Depth in Feet Dlameter Tons No. Sacks of Cement Hole in in Clay Cement Methods Used 18 183 1.0 100 1bs Dry Nix = Hole Grayal Packed Dection 5 PLUGGING RECORD Rection 5 PLUGGING RECORD Rection 5 City State Cons of Clay used Tons of Roughage used Type of roughage Dugging method used Date Plugging approved by: Cement Plugs were placed as follows: PER GROUND WATER EMPTAYSOR ROOMEN From To No. of Sacks Used OFFICE GROUND WATER EMPTAYSOR ROOMEN, NEW MISSEO	-3	476	403		f	RANE	of Sung							
RECORD OF CASING Dia									·					
RECORD OF CASING Dia Pounds Threads Depth Feet Type Shoe Perforations From To				ļ						<u> </u>				
Dia Pounds in. Threads in Top Bottom Feet Type Shoe From To 6.5/8 27 10 0 183 181 Name 110 183 Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Dlameter Tons No. Sacks of Cement Methods Used 18 183 20 100 1bs Dry Mix = Helia Graval Packed Section 5 PLUGGING RECORD Street and Number City State Cons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugging approved by: Cement Plugs were placed as follows: Date Received FEB 2 0 1958 OFFICE CROUND WARRS SUPERVISOR RECORD No. Depth of Plug No. of Sacks Used No. Depth of Plug No. of Sacks Used OFFICE CROUND WARRS SUPERVISOR RECORD No. Depth of Plug No. OFFICE CROUND WARRS SUPERVISOR RECORD No. of Sacks Used	3		<u>l</u>	l			······································			<u> </u>				
Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Prom To Hole in in. Clay Cement Day Mix = Helia Gravel Peaked Dry Mix = Helia Gravel Peaked Dry State Cons of Clay used Date Received Date Received FEB 20 1958 OFFICE GROUND WATER SUPETIMED TO ROSWELL PEAK SUPETIMED TROSWELL PEA	Section 3	3		•		RECOR	D OF CAS	SING						
Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement 18 183 10 100 1bs Dry Mix = Hole Gravel Packed Section 5 PLUGGING RECORD Street and Number City State Cons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugging approved by: Cement Plugs were placed as follows: Date Received FEB 20 1958 OFFICE GROUND WATER SHIPTIMEDY ROSWELL HEW MASSES	Dia	Pounds	Thre	ads	Dept	h	Front	Tyma Shaa	Per	forations				
Depth in Feet Diameter Tons No. Sacks of Cement Methods Used 18 183 10 100 lbs Dry Mix = Hole Gravel Packed Rection 5 PLUGGING RECORD Hame of Plugging Contractor License No. State Cons of Clay used Tons of Roughage used Type of roughage Dugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: Date Received FEB 2 0 1958 No. Depth of Plug No. of Sacks Used	in.	ft.	in		Top	Bottom	Feet	Type ande	From	То				
Depth in Feet Diameter Tons No. Sacks of Cement Methods Used 18 183 10 100 lbs Dry Mix = Hole Gravel Packed Rection 5 PLUGGING RECORD Hame of Plugging Contractor License No. State Cons of Clay used Tons of Roughage used Type of roughage Dugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: Date Received FEB 2 0 1958 No. Depth of Plug No. of Sacks Used	6.5/8	37	3.0	}	Q	183	181	Naga	250	263				
Depth in Feet From To Hole in in. Clay Cement Dry Mix = Hole Gravel Packed 18 183 10 100 1bs Dry Mix = Hole Gravel Packed Section 5 PLUGGING RECORD Hame of Plugging Contractor License No. Street and Number City State Cons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: Date Received FEB 2 0 1958 No. of Sacks Used	- 21 -						**							
Depth in Feet From To Hole in in. Clay Cement Dry Mix = Hole Gravel Packed 18 183 10 100 lbs Dry Mix = Hole Gravel Packed Section 5 PLUGGING RECORD Hame of Plugging Contractor License No. Street and Number City State Cons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: Date Received FEB 2 0 1958 No. of Sacks Used						•								
Depth in Feet From To Hole in in. Clay Cement Dry Mix = Hole Gravel Packed 18 183 10 100 1bs Dry Mix = Hole Gravel Packed Section 5 PLUGGING RECORD Hame of Plugging Contractor License No. Street and Number City State Cons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: Date Received FEB 2 0 1958 No. of Sacks Used								1		,				
Depth in Feet From To Hole in in. Clay Cement Dry Mix = Hole Gravel Packed 18 183 10 100 lbs Dry Mix = Hole Gravel Packed Section 5 PLUGGING RECORD Hame of Plugging Contractor License No. Street and Number City State Cons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: Date Received FEB 2 0 1958 No. of Sacks Used	,	. :	-											
From To Hole in in. Clay Cement Methods Used 18 183 10 100 lbs Dry Mix = Hole Gravel Pecked Section 5 PLUGGING RECORD Same of Plugging Contractor License No. Street and Number City State Cons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: Date Received FEB 2 0 1958 No. Depth of Plug No. of Sacks Used		····		<u>.</u>	 	-,		D CEMENTING						
PLUGGING RECORD State of Plugging Contractor City State Cons of Clay used Tons of Roughage used Plugging method used Plugging approved by: Cement Plugs were placed as follows: Ton use of State Engineer Oney FOR USE OF STATE ENGINEER ONEY Date Received FEB 2 0 1958 OFFICE GROUND WATER EMPTINISON ROSWELL, HEW MAGGEO Dry Mix = Holo Gravel Peaked License No. State Type of roughage 19 Cement Plugs were placed as follows: No. From To No. of Sacks Used OFFICE GROUND WATER EMPTINISON ROSWELL, HEW MAGGEO						- 1	II.		Methods Used					
PLUGGING RECORD Tame of Plugging Contractor Thicense No. Street and Number City State Cons of Clay used Tons of Roughage used Date Plugged Plugging method used Date Plugged Tons of Roughage Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug From To No. of Sacks Used OFFICE GNOUND WATER EMPTIMEOR ROSWELL NEW MAGGEO	FIGH	10												
PLUGGING RECORD Name of Plugging Contractor Street and Number City State Cons of Clay used Tons of Roughage used Plugging method used Plugging approved by: Cement Plugs were placed as follows: Date Plugs were placed as follows:		183	3.0	}	LCO_lbs	.		Dry Niz - Holo Gravel Peaked						
PLUGGING RECORD Name of Plugging Contractor Street and Number City State Cons of Clay used Tons of Roughage used Plugging method used Plugging approved by: Cement Plugs were placed as follows: Date Plugged Date Plugs were placed as follows: No. Depth of Plug No. of Sacks Used				· 										
Asme of Plugging Contractor Street and Number City State Cons of Clay used Tons of Roughage used Date Plugged Plugging method used Plugging approved by: Cement Plugs were placed as follows: Basin-Supervisor FOR USE OF STATE ANGINEER-ONLY Date Received FEB 2 0 1958 OFFICE GROUND WATER EMPTINISOR ROSWELL, NEW MAGECO					-	1			* ***					
Asme of Plugging Contractor Street and Number City State Cons of Clay used Tons of Roughage used Date Plugged Plugging method used Plugging approved by: Cement Plugs were placed as follows: Basin-Supervisor FOR USE OF STATE ANGINEER-ONLY Date Received FEB 2 0 1958 OFFICE GROUND WATER EMPTINISOR ROSWELL, NEW MAGECO		1	1		<u> </u>	1								
Asme of Plugging Contractor Street and Number City State Cons of Clay used Tons of Roughage used Date Plugged Plugging method used Plugging approved by: Cement Plugs were placed as follows: Basin-Supervisor FOR USE OF STATE ANGINEER-ONLY Date Received FEB 2 0 1958 OFFICE GROUND WATER EMPTINISOR ROSWELL, NEW MAGECO	ection 5	i	*			PLUGG	SING REC	ORD	•					
City State Cons of Clay used Tons of Roughage used Type of roughage Plugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug From To No. of Sacks Used OFFICE GROUND WATER SUPTIMISON ROSWELL, NEW MAGECO			a Contrac	tor					Tipongo N	To.				
Plugging method used		,	_											
Plugging method used Date Plugged 19 Plugging approved by: Cement Plugs were placed as follows: Basin-Supervisor No. Depth of Plug No. of Sacks Used														
Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug From To No. of Sacks Used Por use of STATE ANGINEER/ONLY Date Received FEB 2 0 1958 OFFICE GROUND WATER SUPETIVISOUR ROSWELL, NEW MASCO														
Basia-Supervisor For use of State Rugineer oney Date Received OFFICE GROUND WATER SUPERVISOR ROSWELL, NEW MARCO				·										
Posia-Supervisor For use of State Engineer only Date Received FEB 2 0 1958 OFFICE GROUND WATER SUPERVISOR ROSWELL, NEW MESICO	'lugging	approve	а ву:					Cement Plu	gs were placed	as follows:				
POR USE OF STATE ENGINEER ONEY Date Received FEB 2 0 1958 OFFICE GROUND WATER SUPERVISOR ROSWELL, NEW MASCO					Daria Cura		No		No.	of Sacks Used				
Date Received FEB 2 0 1958 A OFFICE GNOUND WATER SUPERVISOR ROSWELL, NEW MARCO	anne plante plante proprieta (complete por complete por complete por complete por complete por complete por co					librorium and and a second		From 7	ro					
OFFICE GROUND WATER SUPETIVISON ROSWELL, NEW MASCO		FOR US	E OF STA	CE EL	GINEER ON	rk 🛴	.							
OFFICE GROUND WATER SUPETIVISON ROSWELL, NEW MASCO			l r	FR	9 0 1050/	$^{\prime}$ M $^{\prime}$	7 _	· · · -						
GROUND WATER EXPERVISOR ROSWELL, NEW MIXECO	Date I	Received	1 5	·	40 1330	$K \mathcal{W}$	-							
ROSWELL PREW MARCO			1			(15)								
FULL NIC / = 3782, IVO A Set D Transies NIC 17 22 9 1/1/1							1							
	TOUS . BY	1-378	77.		- John Stranger	11-0 M	5.1 D	¥	- No 10 9 9	9 1111.1				

LOG OF WELL

Depth in	n Feet To	Thickness in Feet	Color	Type of Material Encountered
. 0	1	3		Sotz
3		- 3		Rock
i,	12	8		Calicha
7.2	. 29	6		Boulder
38	26	8		Calica
26	80	ĘĮ,		Sandy Clay
80	163	71		Dry Sand
353	170	<u> </u>	·	Water Sana
170	176	· c 6	, N. T.	Sandy Clay
176	18 3	7		Water Sand
,		e di Tilini Telaka Lemi		
		13.7		
		·		
	17.1			
-		ر :	y *	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
1				
٠	: 1 Tab			
	1			
	**			
\ \	•	1.47	. rJ	1.4 1.3
:				
	17	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	· · · · · · · · · · · · · · · · · · ·		-	

	1			
	4- : :	3	500	
	·	S 10 2 10	7:37	

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

CATTON WATER WELL DRILLING GORPANY.

Stady Backers

STATE ENGINEER OFFICE WELL RECORD



Section 1. GENERAL INFORMATION

. Street or	f well <u>Ya</u> Post Office A	ddress	outn	4th. Sti	reet 210	O	wner's Well N	0,	
					and is locate		. Personal annua		
							_	_	
			-		Township _		-		
c Lot N	io	of Block No	1	of th	ie				
	ivision, recorde								
	***************************************	_ feet, Y=			I.M. Coordinate				
B) Drilling	Contractor	Glenn	s Water	Well Ser	vice, In	C • License No	o. W	D 421	
Address P	.O. Box (92 Tatu	m, New M	Mexico 8	8267				
Orli[ing Began	7-7-94	Co:	mpleted	7-7-94	Type tools_	rotary	Size	of hole	<u>14 3/4.</u>
levation of la	nd surface or .			at we	ell is	ft. Total de	epth of well	273	ft.
ompleted we	•	hallow 🗖		IODAL WATE	Depth to water	•			
	in Feet	Thickne			R-BEARING-S			timated Y	
From	To	in Fee	t e	Description of	Water-Bearing	Formation	(gall	ons per n	ninute)
168	268	100		sand				120	
				,					
\			Section	on 3. RECORD	OF CASING		·····		
Diameter (inches)	Pounds per foot	Threads per in.	Depth	in Feet	Length	Type of	Shoe	Perfor	ations
	per root	ber tu'	Тор	Bottom	(feet)			From	To
<u>8 5/8</u>	.250		1	273	273	none		153	273
				<u> </u>					
5	·				ING AND CEN	MENTING			
From	in Feet To	Hole Diameter	Sac of M	- 1 -	ubic Feet of Cement	М	ethod of Plac	ement	
						,			
-									Tu.
									
	L								
	-		Section	on 5. PLUGGIN	NG RECORD				
	actor					Denth	ı in Feet		
ugging Metho ite Well Plugs					No.	Тор	Bottom		oic Feet Cement
igging appro					1 2				
		State En	gineer Repres	entative	3 4		1		
	100 300/100-110		FOR USE	OF STATE FO	NGINEER ONL	.Y			
	07/13/94		6		. SELINDER ONL	•			
ate Received				A 1		_	_		
	-10,212			Quad secon	dary recove ater flood	ry of.	L 178.33.2.		

Section 6. LOG OF HOLE

Depth	in Feet	Thickness	Section 6. LOG OF HOLE
From	To	in Feet	. Color and Type of Material Encountered
0	1	1	soil
J.	27	26	caleche
27	168	141	sand and rock with stringers of clay
168	268	100	sand (water)
268	273	5	red clay
		<u> </u>	
-			
		<u> </u>	
,			
	1		
		<u> </u>	
4-Marie -			
• •			

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

STATE ENGINEER OFFICE

DATA OF STAND COMPANY

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

1		1	(A) Owr	er of well	一点规范	THE WALLES	- 50% as f	
1	اما	ŀ	Street an	d Number.		arose ad	6429	14,
	9		City		- AP100	*64	State _#	es-Festos-
			Well was	drilled ur	ider Perm	it No	and	l is located in t
				4 3 3 4		of Section 🚁	Twp1/2 / S	Rge. 99 5
			(B) Dril	ling Contra	actor <u>Re</u>	de distric	Licer	ıse No. 💓 📜
			Street an	d Number	Pal	- Nox-306		·····
			City		20) <u> </u>	State 🎉	en l'estes
		_	Drilling	was comm	enced	——Juli	/11 	19
()	Plat of 640 a	acres)	Drilling v	was comple	eted		July 12	19
llevatio	n at top of	casing in	n feet above se	ea leveL	******	Total der	oth of well	#.
							ter upon comple	
ection						NG STRATA		· · · · · · · · · · · · · · · · · · ·
	Depth is	. Foot	Thickness in	I I I I I I	I EK-DEAK	NG SIKAIA	· · · · · · · · · · · · · · · · · · ·	
No.	From	To	Feet		Des	cription of Water	-Bearing Formation	n .
1						<u> </u>	· · · · · · · · · · · · · · · · · · ·	
2	Log	201		100	or son		·	
3								
4								<u> </u>
			·					
5	<u>l</u>	-		}	·			
ection	3			RECOR	D OF CAS	ING		
Dia	Pounds	Threa	ds De	pth	T4	m Si	Perfo	rations
ļn.	ft.	in	Тор	Bottom	Feet	Type Shoe	From	To
7	30	10	<i>b</i>	197	197	ngne	160	197
	ļ							
	<u> </u>	<u> </u>		<u> </u>		<u> </u>		<u> </u>
ection 4	4 .		RECOR	D OF MUD	DING AN	D CEMENTING	•	
Depti	n in Feet	Diame		No. Sa	·	· · · · · · · · · · · · · · · · · · ·		
From	То	Hole in	in. Clay	Cem			Methods Used	
						-		
	!	i				£		
		<u>.</u>						
setion F	·	<u> </u>		DITIES	ING BECC	nbn		
		Contract		· · ·	ING RECO		T1 35	·
ame of	Plugging						License No.	
ame of	Plugging	r					State	
ame of reet ar ons of	Plugging nd Number Clay used	·	Tons of R	oughage u	Çity	Тух	State oe of roughage	
ame of reet ar ons of t	Plugging nd Number Clay used method u	sed	Tons of R	oughage u	Çity	TyrTyr	State oe of roughage gged	19
ame of reet ar ons of t	Plugging nd Number Clay used	sed	Tons of R	oughage u	Çity		s were placed as	19
ame of reet ar ons of t	Plugging nd Number Clay used method u	sed	Tons of R	oughage u	Çity	Tyr Date Plug Cement Plug	s were placed as	
ame of treet ar ons of t lugging	Plugging ad Number Clay used amethod u approved	sed by:	Tons of R	oughage u	, Çity	Tyr Date Plug Cement Plug	s were placed as	19follows:
treet ar ons of t lugging	Plugging ad Number Clay used amethod u approved	sed by:	Tons of R	oughage u	, Çity	Tyr Date Plug Cement Plug	s were placed as	19follows:
ame of treet ag ons of lugging lugging	Plugging ad Number Clay used amethod u approved	sed by:	Tons of R Basin Sur	oughage u	, Çity	Tyr Date Plug Cement Plug	s were placed as	19follows:
ame of treet agons of lugging	Plugging and Number Clay used method use approved	sed by: OF STAT	Tons of R Basin Sur Buginesh & LUIJSIO	oughage u	, Çity	Tyr Date Plug Cement Plug	s were placed as	19follows:
ame of treet agons of lugging	Plugging and Number Clay used method use approved	sed by: OF STAT	Tons of R Basin Sur	oughage u	, Çity	Tyr Date Plug Cement Plug	s were placed as	19follows:

· OWD - of

Depth i		Thickness	Color	Type of Material Encountered
From	То	in Feet	Color	Type of Material Encountered
				and the second s
		 		
· ·			-	
0	<u>y</u> '	*	•	102 0043
*	20	ŽĮ.		oalieke
***	A			
	66	24		Base sordy pook
90	72	\$		hard pand
71	78	79		losse sand
70	163	84		poch eand
142	201	23		egist sand
BUÍ	204	ij j		tight sand
ACC. A	10 10 10	***		おお子6.4 日の ARCH 4 4 4 4
	<u>i</u>			
			<u> </u>	
	·	ļ	•	
İ	. •			
		 		
	<u> </u>	·		
				4
		 		
	 	 		
		ļ		

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Chrone S

STATE ENGINEER OFFICE





Section 1		•	41) 0	·	Washing 9	tamenta thanks	ilan a Pari	3 - A
			Street and		'.	oner Orili	MIC MILE	
•			City			Robbs	State	New Mexico
			Well was	drilled un	der Perm	it No.	30/2 ar	nd is located in th
								8 Rge 33 E
								ense No. 70+163
						lovingto:	t 0.4	
								ov. l 19 55
	7-1-1-510							Sova 1 19 55
	Plat of 640 ac	•	feet shows so	a lawal		Total dej	th of wall	210
						Depth to war	ter upon compl	
Section 2	}		PRIN	CIPAL WA	ATER-BEAR	NG STRATA	Market Market	· · · · · · · · · · · · · · · · · · ·
No,	Depth in	To	Thickness in Feet		Des	cription of Water	-Bearing Format	ion
1	186	198	12	<u> </u>	: Sand			
2								
4							, , , , , , , , , , , , , , , , , , , ,	
5			·					
Section 3	3			RECOR	D OF CAS	ING		·
Dia	Pounds	Thread			Feet	Type Shoe		forations
in.	ft.	In and	Top	Bottom	25 A	and the light side	From 160	210
7_	7.0	10	0	210	210	none	100	~ AA
·								<u> </u>
Section 4	<u>'</u>		RECOR	D OF MUD	DING AN	D CEMENTING		
Depth	in Feet	Diamete Hole in		No. Sa Cem			Methods Used	
	-							-
-	ļ							
Section 5				pilico	SING RECO		······································	
		Contracto	·r				License N	Vo
								,
								-
							-	19
lugging	approved	by:			Political	Cement Plug	s were placed	as follows:
			Basin Sup		No	Depth of P	no No.	of Sacks Used
			ENGINEER O					
D-4 3	Danat *		A STATE OF S	- 1	ttionessusses			
Date 1	Received	- 1-1 1-1 	<u> </u>	<u> </u>		 		
		N	OV 10 195 5					AND THE RESIDENCE OF THE PARTY
File No.		30/	20: FICE	A Constitution	oil	T canti-	n No /7 33	,3, 140
ене 140.		- cad∈ N	E M ATURE THE	SW25::		Locatio	11 110. 1/4	,

Depth is	n Feet To	Thickness in Feet	Color	Type of Material En	countered
0	2	2		Rock & Soil	5 m 4 m 4
2	24.	12	-	Rock	
14	20	6		Caliche	7.
20	180	160		Sand & Rock Shells	
180	186	6		iook	
186	196	12		Vator Sand	
196	210	12		Sandy Clay	
		1 34			
				· · · · · · · · · · · · · · · · · · ·	
					<u></u>
					
		-			
		· · · · · · · · · · · · · · · · · · ·			· .
		-			
		· · · · · · · · · · · · · · · · · · ·			
		 	 		· · · · · · · · · · · · · · · · · · ·
		:			
		4 3 1			
		4 722			
					<u> </u>
		,	-		
					· .
					•

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well

Wall/Drillar

WELL RECORD

Section I	·			(A) Oum	er of well	Conti	nental Oil	Company	
								ACHIBARTI	
Ì							•		lew Mexico
									d is located in the
-	250								Rge. 33E
	- 0	<u> </u>							ense No. WD-349
-		. [
ļ	l I								Texas
·									1968
<u> L</u>	<u> </u>							· · · · · · · · · · · · · · · · · · ·	
٠.	lat of 640	•			-				•
									271
State wh	ether we	ell is shall	ow or	artesian	OHMETO	W.	Depth to wa	ter upon compl	etion 155
Section 2				PRIN	ICIPAL WA	ATER-BEAR	ING STRATA		
No.	Depth	in Feet	Thic	kness in]	De	scription of Water	-Bearing Formati	07
NO. -	From	то		Feet			actipation of 44.866	· -Dearing Formati	OΠ
1	150	212	6	2	Sandro	ek and	red fine s	and	
_2	212	237	2		[nd		
3				∠ 2					
4	237	239			Red cl				
5	239	265	- 4	6	Sand a	na sma	ll gravel		
		<u> </u>			1			<u> </u>	:
Section 3					RECOR	D OF CA	SING	-	
Dia	Pounds		-		pth	Feet	Type Shoe		orations
in.	ft.	in		Top	Bottom		1,70 5.55	From	То
L2-3/4	49.56		» .	0.	270	270	कुछ बच्चे बच्चे	181	2227
									
			<u>-</u>			ļ. <u></u>			
							<u> </u>		
Section 4				RECOR	D OF MUD	DING AN	ID CEMENTING		
	in Feet	Diame	ter	Tons	No. Sa			*	
From	То	Hole in	- 1	Clay	Cem			Methods Used	
· · · · · · · · · · · · · · · · · · ·	1							·	
							*	'	
	†	1			1				
							· · · · · · · · · · · · · · · · · · ·		
Section 5						ING REC			
Name of	Pluggin	g Contrac	tor				·····	License No	0,
					loughage u	ised	Ту	oe of roughage	
		used	·				Date Plu	gged	19
Plugging	approve	d by:			-	•	Cement Plug	s were placed a	s follows:
·					· ·	I _{No}	Depth of P	lug No.	of Sacks Used
	20.000000000000000000000000000000000000	74 71 17-	A STREET, STRE	employee the second concess			From T	'o 110. (n dacks Oseu
	FGR, US	e of state) Ka lá	IMERR A	NLY		<u> </u>		
	-01-1-1	CIMEEK Ü	IE ĒV	ATS:					100
Date F	lecgiged	# 1 to 1 to	IMO						,
<u>.</u>	-	क्क मा	iai (595 					
mast. BY	1-2	528-5	-		LOA	TEPTI	ስል የጋ ÷ ··	w. 1/1 2 2	3.14443
rue No.						L -/\ [C	Locatio	п 140. <i>1.12.21</i>	2°17772

LOG OF WELL

Depth i	n Feet To	Thickness in Feet	Color	Type of Material Encountered
0	6			Top Soil
6	30			Rock, caliche and sand
30	50		7	Sand, sandrock and calichs
50	88			Sand and sandrock
88	90			Rock
90	150			Sand and sandrock
150	212			Sandrock and fine red sand
212	237			Clean red sand
237	239			Red clay and sand
239	265			Sand and small gravel
265	270	CONTRACTOR CONTRACTOR OF THE SECOND CONTRACTOR	Maria a my gynna, yrann addydd a meg Canb d San 146	Red Bed
	77.5			
-			······································	
			-	
· · · · · · · · · · · · · · · · · · ·				L S Elev
				Depth to K. Trc 39/8/
			-	Eloy of A
				Loc. No
				Loc. No.
				Hydro, SurveyField_CheckX
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet X
				Determined by Inst. Leveling
				Other
			<u>, ,</u>	

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

WALCO PRILLING, INC.

R. Paul Coneway President



S STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1			(A) Osmo	r of wall	Mail day	rom Pakas D	epressuring	I was in a said
							oker Build		agreement
660	1 .	Sline						.a State _N	w Maylna
660	N W OI	E. line							is located in the
w +c	er Lease	w 00]					Twp. 17 S	
ļ	Lease	11 23						Licen	
ì				Street and	Number.	Bo	x 637_		-
								State M	
			. 1					December	and the second second
		<u> </u>	- 1					Decamber	
-	(Plat of 64	•							
								pth of well 26	•
State w	hether v	vell is sha	How o	r artesian_	§	nallow_	Depth to wa	ter upon complet	ion 156
Section	2			PRIN	CIPAL W	ATER-BEAR	NG STRATA		
No.	Depti	ı in Feet	Thi	ckness in		Des	scription of Water	r-Bearing Formation	
110.	From	То		Feet					
1	160	225	6	5	Wate	r Sand			
2									
3									
4		1							······································
- 5									<u></u>
		_!						·	-
Section	3			1	RECOR	RD OF CAS	ING		
Dia in.	Pound		eads n	Dep		Feet	Type Shoe	Perfor	
	11.	1	n	Top	Bottom			From	То
16				0	19	1.9	<u>_</u>		
10 3/4	34	Weld	leđ	0	265	265	plain	170	232
								6 rows 1/8"	
12 cu	o'ydso	grevel	Pad	k befor	e bunb	ing.	! :	,,,	*
Section	4	. ,		RECORE	OF MU	DDING AN	D CEMENTING		
Dept	th in Feet		neter	Tons	No. Sa			Mathada Hasi	· · · · · · · · · · · · · · · · · · ·
From	То	Hole	in in.	Clay	Cen	nent	ŧ.	Methods Used	
	·								
					<u> </u>				
· <u></u>	<u> • i</u>	<u> </u>			1	. l	<u>, ç.</u>		
Section	5			•	PI UCA	SING RECO			-
		ua Contro	-to-						
								License No.	
								State	
								pe of roughage	
Pluggin	g metnoc g approv	od bu						gged	
ringgin	g approv	ed by:		1		.		s were placed as	follows:
-	-	1 7	עד פיק	Basin, Sup	exisor i	No.	Depth of P	No. of	Sacks Used
			L II.				THUM 1	.0	
E-4330008	FOR U	ł.		GINEER ON	ILY				
		- 1	UEC	3 0 1957	77]		 	· ·	
Dot-	Dogging				4-61	9K		1	- 1
Date	Received	3		FFICE	(Ψ)		 		
Date	Received	GRO	and M	Vita al mastr)2.C5				
	Received	GRO	TIMB VA	Alfa Bridge Alfa Mex 20	***************************************	Parmuestan		n No. /7.33.4	

#1 Mal: 2-137-1

LOG OF WELL

Depth i		Thickness	Calor	Type of Material Encountered
From	То	in Feet		
0	1	Lernson Lernson		Soil
1	23	20		Galiche
23.	1,50	129		Pack Sand
250	160	10		Hard Shell
160	225	65	<u></u>	Water Sand
225	2401	1.5		Sandy Clay
240	265	25	game namenggan mambandi di Sapanga Samini mela Amelandi Kibah Sabaha	Rod Bed
				4
				L S Elev
:				Depth to KTrc_2407 Elev-of_KTrc39397
				SIGV OF IL. ITC 2/22/
				FV 17.33:4.44322
		 		1/.33.4.74322
				Loc. No.
			· · · · · · · · · · · · · · · · · · ·	Hydro, Survey Field Check X
	, *			Management of the Control of the Con
	**		1	
:				
	· ·			SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo, Sheet
				Determined by Inst. Leveling
				Other
		<u>_</u>		

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

1-3528

17.33.4.440



STATE ENGINEER OFFICE



WELL RECORD

Section 1 (A) Owner of well Yucca bates Co.	
Street and Number 24. Sorth Not 11. Bonk Englaing	
City Ft. North 2 State Toxas	
Well was drilled under Permit No	ed in the
15 1/4 15 1/4 15 1/4 of Section 5 Twp. 173 Rge.	338
(B) Drilling Contractor Abbott Bros. License No.	
Street and Number Box 537	
City liobbs State New No.	axico
Drilling was commenced. June 18	19_59
Drilling was completed June 25	19_59
(Plat of 640 acres) Elevation at top of casing in feet above sea level	
State whether well is shallow or artesian Associated Depth to water upon completion	
The state of the s	
Section 2 PRINCIPAL WATER-BEARING STRATA	
No. Depth in Feet Thickness in Description of Water-Bearing Formation	
1 160 260 100 water and	
1 160 260 100 water send	
3	
4	
5 }	
Section 3 RECORD OF CASING	
Dia Pounds Threads Depth Feet Type Shoe Perforations	
in. ft. in Top Bottom From T	o.
103/4 24 weld 0 272 272 open 165 260	
Section 4 RECORD OF MUDDING AND CEMENTING	
Depth in Feet Diameter Tons No. Sacks of	
From To Hole in in. Clay Cement Methods Used	
Section 5 PLUGGING RECORD	
Name of Plugging ContractorLicense No	
Street and Number City State	
Tons of Clay usedTons of Roughage usedType of roughage	
Plugging method used Date Plugged	
Plugging approved by: Cement Plugs were placed as follows:	
Basin Supervisor Depth of Plug	sed
FOR USE OF STATE ENGINEER ONLY	
Date Received	
BUL D. ADROCK	
JUL 7 1959 7 1	
a second	

LOG OF WELL

Depth i	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet		
0		1		Yoll
9	14	1.3		Galiche
16	95	79		eand and gravel
95	160	65		tight sand (hard)
160	260	100		water send
260	272	12	Will will state of the state of	red clay
				LS Elev 4/987 Depth to K Trc 2607 Elev of K Trc39387
		Į.		Depth to KTrc_260′
-				Elev of KTre3_2_3_4
				February 17.33.5.22820
				kac, Na
		-		Hydro, Survey Field Chack
		,		COURSE OF AUTITUDE DUCK
				SOURCE OF ALTITUDE GIVEN
	<u> </u>			Interpolated from Topo. Shout
				Determined by Inst. Leveling
		\		Other
	-	 		
		 		
		 		
	1	1 1		

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

1-3598-1

17.33.5.222



STATE ENGINEER OFFICE

Section 1				(A) O	- of	Ync	de Makam A	ompeny			
				(A) Owne Street and				no no			
						Now	York 23	State No	Υ.,		
			- ,	Well was	drilled un	der Perm	it No. L-359	and	Y. is located in the		
		-							Rge. 33E		
		<u> </u>							se No. WD-115		
								Avenue			
									жав		
									19		
				_			_		19		
(P	1at of 640 ac	eres)		Dimme "	-	1343					
Elevation	at top of	casing in	n feet	above se	a leveL	\$850	Total dej	oth of well	287 feet		
State wh	ether well	is shall	ow o	artesian	shall	LOW	Depth to wa	ter upon complet	ion 210 fe		
Section 2			÷	PRIN	CIPAL WA	TER-BEAR	NG STRATA				
No.	Depth in	Feet		kness in Feet		Des	cription of Water	-Bearing Formation	1		
1	150r	22 2x	-	20 Sandyrolaurandranakkereguet							
2	230	255_		25				-olsv			
3	255	26 0		5 5				,	· - gray gra		
4		270		5				and end cray	. a dray dra		
5	265			10		m sand		- 2 2 2 2			
3	270	280	!	10	orov	m BMA1	r Graver e	nd sandy cla	. y		
Section 3	}				RECOR	D OF CAS	ING				
Dia	Pounds	Threa	ds ·	Dej		Feet	Type Shoe	l	ations		
in.	ft.	in Top		Тор	Bottom	2 000	Type Bilde	From	То		
12-3/	30_	30 wel		2ARx		287	welded	247 242 242	207 202		
								- 344			
								<u></u>			
	1	<u></u>					1	<u> </u>	1		
Section 4	<u> </u>			RECOR	D OF MUD	DDING AN	D CEMENTING				
	in Feet	Diame		Tons	No. Sa			Methods Used			
From	То	Hole in	in.	Clay	Cem	ient					
		, · · · · · · · · · · · · · · · · · · ·									
	<u> </u>	1				-		· · · · · · · · · · · · · · · · · · ·			
ection 5					PHUGG	SING REC	ORD				
		dt	4					License No.	. ,		
								State State			
	-							pe of roughage			
								igged			
lugging	approved	ру:						gs were placed as	тоцоws:		
				Basin Sup	ervisor	No.	Depth of P	lug No. of	Sacks Used		
	NOD TICK	المراق المرا	क्या विश	GINEER O	NT.V		1				
		11 130		GIMEER O	WT /						
Date 1	Ceceived		ĵij.	11:13	<i>N</i>		-		·		
Dage !		200			D		+				
ı	_5 ~	1 M Z	1 41	7951			1 1	<u> </u>			
wile Ne	L-3.	598			ITER 5	· Ko	Locatio	m No. 12, 33,	6.111100		

LOG OF WELL

			· · · · · · · · · · · · · · · · · · ·	
Depth	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet	COIOF	Type ox Material Encountered
8	20	20	Whito	Dolomito
20	60	40	Brown	Calechi and sand
60	220	160	Brown	Fine Sand
220	201 230	71 0	Brown	Clay
230	255	25	Brown	Sand with Streaks of clay
255	260	5	Gray	Gravel
260	265	5	Brown	Clay
265	270	\$	Brown	Sand
270	280	10	Brown	Small gravel and sandy clay
280	285	5	Brown	Clay
283	287	2	Purple	Clay
				LS Flev 4245
				L S Elev 4243 Depth to K Trc 280
,				Elev of K Tro39635
				
				-
			-	
	<u> </u>			Loc. No. 17.33, 6. 1/1/01
,				Hydro Survey Field Check X
) il an a series .
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo, Sheet
				Determined by Inst. Leveling
			-	Other Touce Ca Tany to
			<u> </u>	
•				

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well

B. E. Greenwood

1-3598

17.33.6.111

STATE ENGINEER OFFICE

WELL RECORD

Section 1	1			(A) Over	on of wall							
				(A) OWNE Street and	r or werr.	13.	9 E	Fuschall Il th St.	******			
			- 1									
								it Ma				
1		·		Well Was	or 1/	IUCI I	1/.	it No of Section_6	15.0 T	anu	Brocated	m me
1,19		·						or Section 6			and the second s	
į												
	<u> </u>							Zī ⁵ , hove				
1	1			Drilling w	fovingt	OD and		ot 85	***********	State	-149%Worl	0 - ბი
(F	Plat of 640	acres)		numing w	as compre	:teu	-50	ct. 2 8			19	D&J.,
Elevation	n at top o	f casing i	n feet	above sea	a level			Total de	pth of v	vell	O()14	
								Depth to wa				
Section 2								NG STRATA	•	•		
	Depth i	n Feet	Thic	kness in								
No.	From	Ţo	1	Feet			Desi	cription of Water	r-Hearing	Formation	1	
1	•											
3		·				<u> </u>						
			ļ					 				
4		·										
5				<u> </u>								
Section 3	}				RECOR	D OF	CAS	ING				
Dia	Pounds	Threa	ds	Dep		Fee	s t	Type Shoe			etions	
in.	ft.	in		Top Bottom		2.00		Type blice	Fi	rom	То	
	<u> </u>											
						<u></u>						
					one			c.z, -;		<u>.</u>		
Section 4	<u>L</u>			RECOR	D OF MUD	DING	ANI	CEMENTING				
Depth	in Feet	Diame		Tons	No. Sa	cks of	T		75-43-	4. ***1		-
From	To	Hole in	in.	Clay	Cem	ient	İ		Metno	ds Used		
		7								:	VT	
	1											
•												
Section 5					PLUGG							
		-										
Street an	ıd Numbe	? Γ				_ City			Sta	ıte		
Tons of (Clay used			Fons of Ro	oughage u	ısed		Ту	pe of ro	ughage		
Plugging	method t	ısed						Date Plu	gged		1	9
Plugging	approved	l by:						Cement Plu	gs were	placed as	follows:	
						ì	<u> </u>	Depth of P	lug Ì	- :	Color Color	
	***************************************		43.33.00	Basin Supe	ervisor		No,		°o	No. of	Sacks Used	1
	FOR IIS	NEA TATE TO S	V V	TIMOUU	NI.V							
	la	31.10	(*)573 (*)584	GINEER OF	10							
Date I	Received) UEEK	idaliyi Marke	19N3 37A1	<u>i</u> t)			 	· ·	25.44		[
	1 ****	8:3	ly 9	2 100 B	361		<u> </u>	 				
				_						**************************************		
					α		Siniopai)				/	Military
File No.	1-15	5 <i>24</i> _	<u>:</u>		_Use	1.		Locatio	n No. /	<u> 233.</u>	140	Ì

Depth in Feet		Thickness	Color	Type of Material Encountered
From	То	in Feet	Color	Type of Material Encountered
			1	
		 		
		ļ <u> </u> _	· · · · · · · · · · · · · · · · · · ·	This is some a set when some that the first
		<u> </u>		This was a clean out job from 75 ft. to IOO ft. on a domastic well, fo
1				
				Stook watering only:
		L		
		 		
		<u> </u>		
			• •	

		<u></u>		
			··· · · · · · · · · · · · · · · · · ·	
	····	<u> </u>		
ĺ				
		-		
		Í		
	·			
.	į		ļ	
		<u>-</u>		

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Wall Driller

Form WR-23 FIELD ENGR LOG

STATE ENGINEER OFFICE

WELL RECORD

Section	1	-	(4) 0				ر ا مانسان کا دا	
	1 1					illing Cor o	/o S. O. Lam	<u> </u>
			1 .				State	Managara
	 						T22 and	
		ļ					Twp. 17 S	
<u> </u>	 						Co. Licen	
			City		orton	COUDIT-EONO	State	New Mexico
			Drilling	was comm	enced	May I		19 59
			Drilling	was comple	eted	May 3	*	19 59
•	Plat of 640 ac	-		-			And a second second	
							oth of well	
state w	hether well	is shallo	ow or artesiar	Shall	LGW	Depth to wa	ter upon complet	ion 211 11
Section	2		PRI	NCIPAL WA	ATER-BEAR	ING STRATA		
No.	Depth in	Feet	Thickness in		De	scription of Water	-Bearing Formation	
2,0,	From	То	Feet		· · · · · · · · · · · · · · · · · · ·			
1	21).	21.0			·		-	
2		Na P						
3						,		
4				· .				,,,,,
5				 			· · · · · · · · · · · · · · · · · · ·	
<u>'</u>	12.5	<u>\</u>	····	·!	**		······································	
Section	3		····	RECOR	D OF CA	SING	-	
Dia in,	Pounds	Thread in		epth	Feet	Type Shoe	Perfor	
iny.	ft.	In.	Top	Bottom		<u> </u>	From	То
	-	Non	16					
	<u> </u>	-						
	 	-					,	
	<u> </u>	<u> </u>	I	!	<u> </u>	. :		
Section ·	4		RECO	RD OF MU	DING AN	ID CEMENTING		
Dept	h in Feet	Diamet	ter Tons	No. Sa	cks of			
From	To	Hole in	in. Clay	Cen	ent		Methods Used	•
		-yi			None			
					.,,,,,,			
	4	<u> </u>	.	1				-
	· · · · · · · · · · · · · · · · · · ·			BLUCC	ING REC	CDD		
ection								
							License No.	
								
			· <u>' </u>				gged	
'lugging	approved	by:	•		PA	Cement Plug	s were placed as	follows:
					No	Depth of P	No. of	Sacks Used
		Espiration continue	Basin Su	nervisor		From T	'o	WAY SHAWS IN THE SHAWS IN THE SHAWS
	FOR USE	OF STAT	ENGINEER					<u> </u>
_	_ 4 _	L	LL			2		
Date	Received		THE O A ACT	- O D		31		
			JUN 24 19!	1				
:		000	OFFICE UND WATER SU	PERVISOR				
File No	1-11/2	2	KOSWELL, NEW W	EXICO C	I DULE	T.onafio	n No. 17.33	2.32322

Depth in Feet		Thickness	G-1	Warra of 18-4-12-1 W
From	To	in Feet	Color	Type of Material Encountered
0	Ý			8611
i	4			Rock
4	25			Chichie
ne;	75			Sandy Clay
25 75	140			Dry Sand
Ilo	I94			Sandy Clay
- I94	-214-			Water Sand
214	230		<u> </u>	Sandy Clay
230	_2.di			Sand
244	21/7			Sand & Gravel
21.7	249			Red Bed
~~~			•	
				L S Elov 43197
				Depth to K Tro 247/
		54		Elev of KTrc_3 9825
		· · · · · · · · · · · · · · · · · · ·		
	7.7			
	7.			
				Loc No. 17. 33.7. 32322
				Hydro, Survey Field Check
	٠			
	3.50			
				SOURCE OF ALTITUDE GIVEN
	-			Interpolated from Topo. Sheet
	*			Determined by Inst, Leveling
				Other
	· , ·			

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

1-4/22

17.33.7.320

on SF

#### STATE ENGINEER OFFICE

# WELL RECORD

ction 1			- 1	(A) O	m of woll		Water and I	LL COMPANY				
	T							EF CBSLVAAL				
		-	1.	~	ings Mathematical Section 2015	غند			أأحا بالتركية وتعاف ويصافوا			
	<u> </u>		;	-LLy	J.: 11 - 1	4.er	. GTAXE YAT	RELATE	is located in the			
									Rge ZZE			
									rge, 225 use No. 79			
	1				ng Contra   Number_				ise Ivo.			
				Street and	. Numper Lavist	Wast	d	State	w Martena			
	- 1		1	City	D, 35 9 1 14 5	# F F5 - 44	June 2	State State	19 55			
			•	_			JULY 13		19 55			
(Pla	at of 640 a	cres)		Drilling w	as comple	tea	45-44 5-53		19∉#			
evation	at top of	casing i	n feet	above se	a level		Total de	oth of well	227			
ate whe	ther wel	l is shall	ow or	artesian	SHAL	.Lew	Depth to wa	ter upon comple	tion 182			
ction 2					•		RING STRATA					
	Depth in	Feet	Thic	kness in			aganistian of Mator	- Donalad Farmatio				
No. From To Feet				Feet	Description of Water-Bearing Formation							
1	164	188	24		List	it wat	en saud	<u> </u>				
2	FOR	218	277		loo!	) Wave	N SAND AND	GRAVEL				
3		7 k			· .		<u></u>					
ł.												
5						,			, 75.13% ·			
etion 3		٠,.			RECOR	D OF C	\SING	:				
Dia	Pounds	Threa	ıds	De	pth	Foot	Thems Shan	Perfo	rations			
in.	ft.	in		Top Bottom		Feet Type Shoe		From	То			
10	32	自	•	0	217	217	经申请提	183	217			
	4. 4				1							
				or a								
	: : (	<u>                                     </u>				<u> </u>		<u> </u>	<u> </u>			
ction 4	. •			RECOR	D OF MUI	DDING A	ND CEMENTING					
Depth	in Feet	Diami Hole i		Tons Clay	No. Sa			Methods Used				
21001	10						Market and all the same	and an alternative section of				
	1 2	124			- 1 - 54				ickevad antr			
		-			-		CRILLING		a desirance and a desirance			
		-		-	* , []		MATERIAL PROPERTY.	** GA. 805 (805				
	<u> </u>	<u> </u>			id	; ;	<u> </u>					
ction 5		2.5			PLUGO	SING RE	CORD	1.				
me of	Plugging	Contrac	tor	•	1,25,	3 .	<u>i jê Yerkaye dey</u>	License No	)			
						City	13,50	State:				
					loughage 1	ısed						
	method t				<u> </u>				19			
	approved		<i>(</i> .					gs were placed a				
-69-6	- <b></b>					·	Depth of F					
		Parameter		Basin Su	ervisor	1	10. 1	ro No. o	f Sacks Used			
		. 07		GENDER	)							
• .	FOR USE	OFSTA	er Es	GENERAL D	IVILY.	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa						
Date R	eneiwaa	ziterusu.	JUL	. 28 195	5	(icashina)						
Date II	eceived _			i		- Services	· · · · · · · · · · · · · · · · · · ·					
٠.		GRO	UND	d f f i c e i Water sufi			·	1				
1.		<u> </u>	ROSWE	IL, NEW MED	ico OX							
ile No.		- 27	7/		Use	Mice	uc Locatio	on No. /1 33	7 4000			

#### LOG OF WELL

たいがたない。今後を被撃衛を行ってなって

Depth i	n Floor	Thickness		
From	To	in Feet	Color	Type of Material Encountered
-0	4	4	WHATE	Top Rock
4	12	8	Res	SAND
12	17	-	WHITE	HARD ROCK
17	51	34	RED	SAND
1982 51	64	13	GRAY	CALICHE
64	104	40	RED	SAND
104	117	13	GRAY	HARD CALIGNE
117	134	17	GRAY	L ME AND STREAKS OF SAND
134	149	15	GHAY	BAOKEN LIME
149	185	6	BEEN RED	SAND
155	164	9	GRAY	Shoken Ling
164	188	24	Rgo	SAND - LIGHT WATER SAND
198	189	1	GRAY	Line Shell
189	215	26	Brown	SAND AND GRAVEL - GOOD WATER SAND
215	220	Б	Rep	SANDY BHALE
220 _	222/	2	RED	Pack Sand
222	227	<b>5</b>	REO	SHALE.
	Ser 1	Ou blas	Y 217 2 FEE	T INTO RED SANDY SHALE
	l	TAL DEPTH		
		, , , , , , , ,		L S Elev 4217
				Depth to KTrc222x
	<del> </del>			Elev of KIrc17939
				1280 17.33.7.40000
			<del>-</del>	Loc. No.
				Hydro, Survey Field Check X
	- <del>/</del> .			No. of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of Contract of
			<u>                                     </u>	
<del></del>			( !	

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

.

SOURCE OF ALTITUDE GIVEN
Interpolated from Topo. Sheet X
Determined by Inst. Leveling
Other

1-2771

17.33.7.400

#### STATE ENGINEER OFFICE



## WELL RECORD

Phil State # 1

Section 1			(A) O		MAR.		ik to the in the second						
			i i			ndermord Di delity Unic	Alling Co						
i							State	air. A					
							and is						
		}					7wp 17 S						
		<u> </u>	1			· _: 7							
			1	_	Contractor Abbotic Bross. License No. WB-46 mber Box 637								
	<u></u>						State Now						
							Dec. 19						
							Dec. 21						
(F	lat of 640 ac	eres)	Dining v	as comple			110000	19J.E					
	_					_	oth of well 230						
tate wh	ether well	is shall	ow or artesian.	_Shall	OM.	Depth_to wat	ter upon completion	160					
Section 2			PRIN	ICIPAL WA	TER-BEAR	ING STRATA	•						
	Depth in	Feét İ	Thickness in										
No.	From }	То	Feet		De	scription of Water	-Bearing Formation						
1	160	230	70	lil ndo	er San	d.							
2	400	439	100		ar. Dáii	<u> </u>	· · · · · · · · · · · · · · · · · · ·						
3													
			<u>-</u>		······	· · · · · · · · · · · · · · · · · · ·							
4													
5	<u> </u>												
Section 3	}			RECOR	D OF CA	SING							
Dia	Pounds	Threa	ds Dej	pth	l		Perforatio	ons					
in.	ft.	in	Тор	Bottom	Feet	Type Shoe	From	То					
			1										
								:					
	,												
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5 65 LUI									
Section 4		1		- 1	· · · · · · · · · · · · · · · · · · ·	ID CEMENTING		·					
Depth From	in Feet	Diame Hole in		No. Sa Cem									
		}											
	1	<u> </u>		<del> </del>				<del></del>					
	<del> </del>	ļ <u>.</u>					·						
<del></del>	ļ	-		<del></del>		· · ·		· · · · · · · · · · · · · · · · · · ·					
	<del>'</del>			<del> </del>	<u></u> -			·					
ection 5				PLUGG	ING REC	ORD	•						
Tame of	Plugging	Contract	tor				License No						
							State						
ons of (	Clay used		Tons of R	oughage u	sed	Туг	pe of roughage						
	method us						gged						
lugging	approved	by:	-				s were placed as fol	-					
00 0	••			Marine Section Co.	Ţ,	Depth of Pl							
		T	Basin Sup	crvisor	No		No. of Sac	ks Used					
WESTERN MENSOR WHITE CONTROL	EOU HEE	OF CTAT	E ENGINEER O	NT V									
-	FUR USE	,	EC 3 0 1957	MLX			· -						
Date I	Received			4									
		(380)	ND WATE SUPE	VISOR	<del>  -</del>		<del>-  </del>						
		F.	oswell, New Mid-	()				· · · · · · · · · · · · · · · · · · ·					
	,			_	Bassassas C	ennikaesyntessensynssennannannannannannannan		1					
File No.	1-374	19		_Use	1.20.D	Location	n No. /2.33.9	330					

Depth in		Thickness	Color	Type of Material Eucountered						
From	То	in Feet	Cotor	Type of material inconnected						
0	1	a l		Sail						
	19	18		Galiohe						
19	160	141		Dry Sand						
160	230	70		Water Sand						
	<del></del>									
		Good and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	-							
<u> </u>										
- 1										
			-							
· · · · <del> </del>										
	· · · · · · · · · · · · · · · · · · ·									
				· · · · · · · · · · · · · · · · · · ·						
			1							
<del></del>										
- 1	٠.									
	· · · · ·									
-										
			٠,							

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

Section	L 		(/	l) Owne	r of well	Court.	ne.	ntal 6	11 (	Jougan	y	·	·
1					Number			# 460	·				
					<del></del>					8			
	<u> </u>		w	ell was	drilled un	der Pe	rmi	No.	528·	- 5 - E	and	is locate	ed in the
	·	1.	N	1/4	5V 4	SW.	_1/4	of Section	Cē 1,	Twr	179	Rge	226
			(E	3) Drilli	ng Contra	ictor 🏄	ono	t Brot	heri	3	Licen:	se No	Time 6
ŀ			St	reet and	Number	F	<u>, () a</u>	Box	657		' '' '' '' '' '' '' '' '' '' '' '' '' '	. Will	
•			Ci	ty	. / .	Я	udo	8,		£	State 403	. Noxt	60
			Dı	illing w	as comin	ence <b>d</b>		#eβ#eβγ/			· · · · · ·	<u>.</u>	19
<u> </u>	Plat of 640	acres)	D ₁	rilling w	as comple	ted	1	<u>} Q=0</u> [				<del></del>	19
•		of casing i	i feet s	hove sea	level			Tota	i 1 der	oth of w	an 265	<u>y</u> 4	
State wi	ether we	ell is shall	niw oir a	rtesian	Shallo	i Sul		Denth to	n wat	ter upon	complet	ion 130	ş
			JII 02 .					-		ior inposit	00111,2101		
Section :		·	. #17-1-j-	PRIN ness in	CIPAL WA	<del></del>						· · · · ·	
No.	From	in Feet To		ness in eet		•	-	riptión of				·	·
1	198	263	6	4	sanc							<u> </u>	
2						7						-	
3	,	3	,		<u> </u>		<u>-</u>	<u>.</u>	<u> </u>		<u> </u>		
4				٠. ا								, i	7
. 5		- 											
Section	3 .				RECOR	D OF C	CASI	NG			:	· · · .	· .
Dia	Pounds	1 1	.ds  -	Der		Feet	.	Type Sh	pe		Perfor		
in.	ft.	in		Top	Bottom					Fre	m		o,
12 5/4	56	Lew	ded _	æ.].	262	263	*.	open		170	<del> </del>	. 250	· · · · · · · · · · · · · · · · · · ·
	ļ · · · · · · · · · · · · · · · · · ·					*	-					33.	
			-				-	1.		4 row	3/26	* 18	<del></del>
· .	1	1	<del></del>			-	<u>. l</u>	<del></del>		-	<del></del>	]. :	<del></del>
Section	4	N	:	RECOR	OF MUD	DING	AND	CEMENT	ING				
Depti	n in Feet	Diame		Tons	No. Sa		T		7 . - 1 d s	Method	s 11sed		
From	То	Hole in	in.	Clay	Cem	ent		<u> </u>	•	MELLIOO	o Osca	<u> </u>	
				·			<u> </u>					<u> </u>	
							<u> </u>					·	· 
				<u></u>		<u> </u>		-	<u> </u>		· · · · · ·		
	í.			<u> </u>		· .					<u> </u>		
Section (	5				PLUGG	ING R	FCO	RD					
		a Contra	ton							Tio	man Ma	1	•
rame of	r Linghii	g Contrac er	kU1	····		City	٠.	1		Stat	ense 140.		<del></del>
		i											
	· ·	used						Date					
	g meurou g approve					÷ .				gs were p			
Fidgging	, approve	a by.				Г			<u> </u>	· · · · · · · · · · · · · · · · · · ·	naceu as	TOHOWA	•
:	Ä i	d. 31	<u></u> 1 ر و	Basin Sup	ervisor		No.	Depth From	· · · · · · · · · · · · · · · · · · ·	lug	No. of	Sacks U	sed
	e-la genera egili taran Hadistan.	tro III	amanantuan Kentur		NT.Y	in a							<del>: ********</del>
·		81.120											
Date	Adceived	81 TJO 13M(2)43	11/2/10	r , .		Missos in the second					· · · ·	· · · · ·	1
Medical	Vil	/ 81.1jn	In-	*		25500000							·
	ē	-,0,	2,96J										· · · · · · · · · · · · · · · ·
Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signatura Signat	, ~	5285				PARRIED CO	<i>7Ç</i>	orrecto	ed.		· - · -	~~ · ·	
File No	<u>, L-3</u>	2783	ړ- کې		_Use:	<u>٦ ٢</u>	0	Lo	ocatio	n No. /	<u>/· ɔ ɔ ·</u>	<u> 7.3.3/</u>	434

Section 6

LOG OF WELL

Depth in Feet		Thickness				
From	То	in Feet	Color	Type of Material Encountered		
()				surface soil		
. 1	26	25	·	editae		
26	78	52		send, tight		
78	95	1.8		sand, loose		
Ģ6	129	33		send, tight		
129	232	103		nend 7		
232	252	20		anndy clay		
252	262	10	Tad	CLEV		
				LS Elev 4200'		
		* -	-	1 h 1 - V Ton 25 ds'		
			-	Elev of K Trc3 9 4 87		
				SP 17.33.9.331432		
* * * * * * * * * * * * * * * * * * * *			<del></del>			
				4 . 13		
<del></del>	1			Loc. No.		
	4			Hydro, SurveyField SheckX		
				4		
			<del></del>	· · · · · · · · · · · · · · · · · · ·		
				SOURCE OF ALTITUDE GIVEN		
: '				Interpolated from Topo Shopt		
				Determined by Inst. Leveling		
-				Other		
				The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
· · · · · · · · · · · · · · · · · · ·						
	-	,				

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Murrell about

1-3528-5-2

17.33.9.33/

### STATE ENGINEER OFFICE WELL RECORD

EELD LIVER. LUG

#### Section 1, GENERAL INFORMATION

		l Basic ddress P.O. lsbad, N				Company _{o.} Afr	-Amarica	# 8
Well was drilled	d under Permi	t No. L-188	0-S-3		and is locate	d in the:		
						17S Rang	_{e33E}	N.M.P.M.
					County.		T. Complement	
d. X= the		feet, Y=		feet, ì	N.M. Coordinate	System		Zone in Grant.
(B) Drilling (	Contractor	Abbott	Bros, D	rilling		License No. WI	) <del>-</del> 46	
Address H	obbs, <u>N</u> e	w Mexico	88240	0				
Drilling Began .	4/21/	<mark>'81</mark> Сотр	pleted	5/4/81	Type tools	Cable	Size of hole2	4in.
						ft. Total depth o		٦
						r upon completion c		
		Sec	tion 2, PRING	CIPAL WATE	R-BEARING S	TRATA		
Depth From	in Feet To	Thickness in Feet	D	escription of	Water-Bearing l	Formation	Estimated Yi (gallons per mi	(
159	230	71	Sar	nd			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
-			Section	3. RECORI	OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth i		Length (feet)	Type of Shoe	Perfora	
			Тор	Bottom			From	To
14	36.71	Welded	0	269	269		155	268
		<del>                                     </del>						
					1			
Depth	in Fect	Section Hole	on 4. RECOR		DING AND CEM			<del></del> -
From	To	Diameter	of Mu		of Cement	Method	of Placement	
			ļ			<del></del>		:
	· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>			·	····	
						·		
			Section	5. PLUGGI	NG RECORD			
Plugging Contra Address	etor	<u></u> :	<del>-</del>		Г <u></u>	Depth in Fe	eet Cub	ic Feet
Plugging Metho Date Well Plugg			<u> </u>		No.			Cement
Plugging approv				, ,		<u>                                     </u>		
-	<del>-</del> . <u>-</u>	State Engi	ineer Rep	(Janes	3 4			
4 × ~ ~		7.008	FOR USE (	OF STATE E	NGINEER ONL	.Y		
Date Received	May 14,	1981		Quad	l <u></u> -	FWL	FSL	•
File No	L-1880-S	-3				Location No. 17		
				m			.1411.	<i>3</i> . \

r			Section 6. LOG OF HOLE
Depth	in Feet	Thickness	Color and Type of Material Encountered
· From	То	in Feet	Color and Type of Anti-
· · · · · · ·	1.	1	Soil
1	26	25	Caliche
26	125	99	Sand
125	159	34	Sand and sand rock
159	230	71	Sand-water
230	241	11	Sand
241	258	17	Sand and clay streaks
258	268	10	Red clay
			L S Elev
			Loc. No. 17. 33.12. 14110  Hydro, Survey Field Check PCA Survey
	}		SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet
		<del> </del>	Determined by Inst. Leveling
			Other
	ļ	1	VIIIsh
			· ·
•	,		

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

# POTASH CO. OF AMERICA - CARLSBAD, N.M.

SECT. 12, T. 175., R. 33 E. (W; of Sect. - P.C.A. deeded land.)

		N M
- 2//	72	
	WELL -1492' -NW = 5E = NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW = 1 NW =	Avo
	5500	ROSWELL, NH
	. S. Will.	

1"=1000'

1-1880-5-3 .14110

### FIELD ENGR. LOG

#### WELL RECORD

Section 1			(A) Own	er of well	Potae	ih Company i	of America	·
			Street an	d Number.	P. O.	Box 31		
				rlobad			State 1	You Newloo 384 Comb. S
			Well was	drilled w	nder Pern	nit No. L=1880	anc	i is located in the
		١.,	SE_>	4. SW 1/4	<del></del>	4 of Section	Twp. 47	Rge 33 E
	100/11	1 / 2/2		ling Contr	actor	ADBOTT EFOI	Ba Licer	nse No. ル 🐠
•	100 11	150 , SW	Street an	d Number.	<i>‡</i>	' _s C _s Box C.	9/	97 was 17 a w 8 ot a
	100	750 P - 200	City	Hobi	)(S	iles 9	State	SEW KEXICO
0	7"	-	Drilling	was comm	enced	Hay I	<del>-,-,'(</del>	19 66
ابــــــــــــــــــــــــــــــــــــ	lat of 640 a	cres)	— Drilling	was comple	eted	11003	<u>&gt;</u>	19
			n feet ahove so	ea level		Total de	pth of well	859
tate wh	ether well	is shall	ow or artesian	eholl(	200	Depth to wa	ter upon comple	tion 115
ection 2						RING STRATA	_	
iction 2	Depth in	Feet	Thickness in	1			-Bearing Formatio	
No.	From	То	Feet			scription of water	-Bearing Formacio	
1	115	230	115	Was	ter oan	id		
2	235	250	25	Sat	ul and	gravel		
3								,
4								•
5								
			<u> </u>					
ection 3					ID OF CA	SING	l Doub	rations
Dia in.	Pounds ft.	Threa	ius ă	epth   Bottom	Feet	Type Shoe	From	i To
14	85	702	<del>-</del>	259	259	open	120	240
	-	1						•
Drt	11ed 20	s" hol	6	- · · · ·				
		<u></u>	PECO	D OF MI		ND CEMENTING		
ection 4		1 5:		No. Sa		AD GENERALING		<del></del>
From	in Feet	Diame Hole in	II	1.	nent	Ada San	Methods Used	÷
	<del> </del>	<del></del>				200		
		† <del></del> -				1.15		-
	-} 	<del>                                     </del>						
		<u>'</u>				·		
ection 5				· ·	SING REC			
ame of	Plugging	Contrac	tor			******	License No	) <u>.</u>
reet an	d Number	r <u> </u>	-		City		State	
ons of C	Clay used.		Tons of I	toughage t	15ed	Ту	pe of roughage	40
								19
ugging	approved	by:			<del> </del>	·	gs were placed a	z 10Homs:
			Basin Su	pervisor	N	o. Depth of P	lug To No. o	f Sacks Used
	X 47	LL, M. h		numer our new sold his 2 to 1000.	1			
	FOR ÚSÉ	OF STATE	Madineer (	DNLY	, Marie 1			
Dot- T	received		41 :11A16 9in	$\checkmark$	Etelomyse			
Date 1			***************************************		NO PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY AND PERSONAL PROPERTY P			
	\ <b>ic</b> •9 }	av 62 c	IBER SEL		W			
,	્રે. ાંદ -શ્રુ ફ		138 9 <u>961</u>	Comb 5				

Section 6

LOG OF WELL

	TOO OF WELL
Depth in Feet Thickness	
rom To in Feet Color	Type of Material Encountered
0 1 1	Soti
] 23 22	Caltone
28 70 47	Sand
70 115 65	Sanda dry
115 230 215	Sand, water
280 285 5	Sandy olay
235 250 25	
250 259 9 red	Sand and gravel
	L S Elev 4/18 g Y
	L S Elev
	Elev of K. Trc 883
	Loc. No. 17.33, 12. 33 4114
	Loc. No. 17.33, 12.334444
	SOURCE OF ALTITUDE GIVEN
	Interpolated from Topo. Shoet
	Determined by Inst. Leveling
	Other

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well

Wall Dwillow

1-1880 Thre 1884 ComB. S

17.33.12.334



### FIFTH FNGR LOG

#### STATE ENGINEER OFFICE



Section	1		(A) Owne	r of well		.*		
			Street and	Number	Joanu 1	y ocilian	Company,	
			City		Dec 2 No	2	State .	
	<del> </del>		Well was	hilled un	der Perm	it No		nd is located in the
						of Section	Twp.	Rge. 33% ense No. 33%
	+	·	(B) Drillii	ig Contra	eter	1	ilit	ense No.
			Street and	Number	**	g narka	···	TOLL
<b></b>			City		ROB	J00	State .	
1			Drilling w	ie man	enced			Kon Kemb <u>ed</u>
<u>L</u>			Drilling w	as comple	ted. 🧬	occusber h		1999
	Plat of 640				4	accurat, w	4.	**
Elevatio	n at top of	f casing i	n feet above sea	level		Total_der	oth of well	24P
State w	hether wel	ll is shall	ow or artesian_	0 t - 5 t -		_Depth to wat	ter upon comp	lenon 105
Section	2		PRINC	STARTIC SIPAL WA	)≌ \TER-BEARI	NG STRATA		144 - 14-75.
	Depth in	n Feét	Thickness in		<del></del>	cription of Water	· · · · · · · · · · · · · · · · · · ·	tion
No.	From	То	Feet		Des	cripion of water	-nearing roima	
1								
2	165	202	37	Sat	ing Jan	A .		
	25,00	Beil d'Age'n				······································		· · · · · · · · · · · · · · · · · · ·
3					·			
4				· ·		· · · · · · · · · · · · · · · · · · ·		
5			[					
Section	3			RECOR	D OF CAS	ING		-
 Dia	Pounds	Threa	ids Dep	th	Feet	Type Shoe		rforations .
in.	ft.	in		Bottom	F eet,	Type Bilde	From	То
	20	36	0 0	198	198	Cocts	277	396
			<u> </u>	the St. Ave.				
Section	4		RECORI	OF MUI	DDING AN	D CEMENTING		
	th in Feet	Diam	eter Tons	No. Sa	cks of		11 1 1	· · · · · · · · · · · · · · · · · · ·
From		Hole in		Cerr			Methods Used	!
<del></del>	<u> </u>					-		
		<del></del>					-	
	<del></del>							
					•			-
Section					SING RECO		•	
Name o	of Plugging	g Contrac	tor				License l	No
Street a	and Numbe	er			City		State	
Tons of	Clay used		Tons of R	oughage ı	ısed	Ту	pe of roughage	e
Pluggin	g method	used				Date Plu	gged	19
	g approved						gs were placed	
* ****	-5 -FF-				Ī	Depth of P	lug	Aleksan da karangan da karangan da karangan da karangan da karangan da karangan da karangan da karangan da kar
			Basin Sup	ervisor	No		No.	. of Sacks Used
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	300 AII	n on core	mie wkielikulieu o	T V			-	
	for US	주무역됐다. 네는 TT	TE ENGLINER OF					
Data	Received	ELE ELEVANIE	иотял <u>ь Елч</u> бич У — ИСТВИ			1	·	
Dale			LEGITOTION	·\				
	12	₩ 8: £	1828 DEC 10		<u> </u>		L:	
			1 - 2 · 1 - 1	_				- d
File N	6 Z-4	333		_Use_ <i>D</i>	20. D-	Locatio	n No. /7. 3	3 13.110

#### Section 6

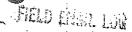
#### LOG OF WELL

	in Feet	Thickness in Feet	Color	Type of Material Encountered			
From	То	m reet					
0	14	124		Caliche			
14	68	54		Sand (tight)			
68	-83	15		Sand (loose)			
83	140	57	!	Sand (tight)			
40	165	25		Sand (loose)			
65	202	37		Sand (water)			
902 ·	217	15					
,		2)		Sand (tight)			
<u>.</u>							
			<del></del>				
	<u>                                     </u>			,			
				· ·			
			.,,				
			·				
		1	<u></u>				
		+					
		<u> </u>					
<u> </u>		-					
•		-	·				
		;					
		- I .					

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well

Wall Driller

### WELL RECORD



	Street and I	Number_	Box 3	31		
	City Carl					*
<del></del>					State	
	Well was di	rilled un	der Perm	it No. 1830	, an	d is located in the
	NEW 1/4	NW 1/4	SW 1/4	of Section1	3 Twp. 175	SRge_ 33E
	CityI	lobba,	N.M.	· · · · · · · · · · · · · · · · · · ·	State _	
	Drilling wa	s comme	enced	Tarch 9, 1	972	19
	Drilling wa	s comple	tedI	March 16,	1972	19
				. ·. Total da	nth of well 2	35
f casing in tea	et above sea	chel.		Denth to we	ter upon comple	etion 151
ll is shallow o	r artesian	BUST.	T.D.X	рерии со ма	tier upon compa	
	PRINC	IPAL WA	TER-BEARI	NG STRATA		<u> </u>
n Feet Th			. Des	cription of Wate	r-Bearing Formati	on .
То	Feet		<u> </u>	<del></del>	<del> </del>	
			·	· ·	<del></del>	· · · · · · · · · · · · · · · · · · ·
				<u> </u>		· · · .
.'				Nerve Ny	- 2v	- <u>}</u>
-						
	· · · · · · · · · · · · · · · · · · ·	PECOP	D OF CAS	INĠ	' . <del>- '</del>	•
1	To-t		D OF CAS	1. 7	Perf	orations
Threads in	7		Feet	Type Shoe	From	То
hab four		738	238	none	118	228
, werded				110110	`;	
<del></del>					- 17	
1.			~			
	RECORD			D CEMENTING		Tarana Tarana
Diameter Hole-in in	Tons				Methods Used	
1101E-III III.	O.L.			<u></u>		
1 - 1	<u></u>			<u> </u>		
<del>                                     </del>		<del> </del>			,	
	<del> </del>	<del> </del>		<del></del>	,	
	<u>. l</u>	1.			<del></del>	
	ŧ	PLUGG	ING REC	ORD	•	
Contractor				T	License N	0
					State:	<del>-</del>
	Tons of Ro	ughage u	ised	Ту	pe of roughage.	
			<del></del>			19
				Cement Plu	igs were placed a	is follows:
			T.,	Depth of I	Plug V	of Sacks Used
X	Basin Supe	rvisor	10111107	From-	To No.	n dauks osed
E OE STATE F	NGINEER ON	LY				
John Lean			Porteriore			
	A VEGS				ž.	
<del>                                      </del>	T. 15.03					
1 EN 8-20	<b>t</b> saje <u>(2.5</u> )		on Design			
<del>0.6-19     </del>	ાં મહાનું કહે <u>.</u> સ્થા					
	Threads in Welded  Diameter Hole in in.	(B) Drilling Street and I City I Drilling wa Drilling wa acres)  f casing in feet above sea Il is shallow or artesian  PRINC In Feet Thickness in Feet Thomas in Feet Too RECORD  RECORD  RECORD  A Clay  Contractor  Clay  Contractor  Tons of Roused d by:  Basin Super  RECORD  RECORD	(B) Drilling Contractor Street and Number City Hobbs, Drilling was common Drilling was common Drilling was completed above sea level It is shallow or artesian Shall PRINCIPAL WAS TO Feet Thickness in Feet To Feet Thickness in Feet To Bottom Welded 1 238  RECORD OF MUI Diameter Tous No. Sa Centractor Hole-in in. Clay Centractor Contractor Tons of Roughage used do by:  Basin Supervisor RECORD OF STATE ENGINEER ONLY	(B) Drilling Contractor. Abl Street and Number. Box 63 City	(B) Drilling Contractor Abbott Bros. Street and Number Box 637  City Hobbs, N.M. Drilling was commenced March 9, 1 Drilling was completed March 16, acres) of casing in feet above sea level Total de Il is shallow or artesian shallow Depth to was PRINCIPAL WATER-BEARING STRATA  To Feet Thickness in Description of Water To Feet Top Bottom Fact Type Shoe  Welded 1 238 238 none  RECORD OF MUDDING AND CEMENTING  RECORD OF MUDDING AND CEMENTING  Diameter Tons No. Sacks of Cement Hole in in. Clay Cement  PLUGGING RECORD  Contractor City Tons of Roughage used Tyused Date Plused d by: Cement Plu  The Basin Supervisor No. Prom Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J From Depth of J	(B) Drilling Contractor Abbott Bros. Lice Street and Number Box 637 City Hobbs, N.M. State Drilling was commenced March 9, 1972 Drilling was completed March 16, 1972  acres)  if casing in feet above sea level Total depth of well 27 Il is shallow or artesian shallow Depth to water upon completed in To Total depth of well 27  RECORD OF CASING  Threads Depth Feet Type Shoe From Welded 1 238 238 none 118  RECORD OF MUDDING AND CEMENTING  RECORD OF MUDDING AND CEMENTING  Diameter Tons No. Sacks of Hole in in. Clay Cement Methods Used  PLUGGING RECORD  Contractor City State Tons of Roughage used Type of roughage used by:  Cement Plugs were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at the Plug were placed at th

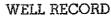
Section 6

#### LOG OF WELL

From	in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	4 :	. 4	brown	surface soil
4	28	24	gray	caliche
28	45	13	brown	snad tight
45	102	57	brown	sand loose
102	153	51	brown	sand light
153.	154	1	red	shale
154	198	44	brown	sand
198	201	3	red	shale
201	218	17	brown	sand
218	225	7	brown	sandy clay
225	230	5	gray	gravel
230	235	5	red	clay
				1112
	-		` .	L S Elev
	: •			Depth to K Trc 230 Elev of K Trc 3894
	٠,		2 1 2 2 3 4 3 1	To 1361 and L Construction of J. Dimensional parameters.
				Loc. No. 17.23.13.31413
				Hydro. Survey Field Check HwP
<del></del>		<del>                                     </del>		SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet 4124
		<del></del> ,		Determined by Inst. Leveling
		·		Other
			<del></del>	
			.,	
	-			
,				
			1	

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

murce Cabott



	1		(A) Owner	of well Pots	sh Company	or anderted	
			1	Number			
			City Car	Japad		State Me	s Mexico
			Well was d	rilled under Per	mit No. L <b>≈1</b> 88	and i	s located in the
			SW 4	se 4 sw	¼ of Section 13	Twp. 17 S	Rge. 33 E
			(B) Drillin	ng Contractor Ca	ybon & Port	License	NoWD-183
1	1		Street and	Number	ox 1021		
			City	Lovington		State New	Mexico
	i	1	Drilling w	as commenced		August 1	1955
			Drilling wa	s completed		August 1	1955
	lat of 640 ac		-				
evation	at top of	easing in f	eet above sea	level	Total der	oth of well 24	2
ate whe	ether well	is shallow	or artesian	Shallow	Depth to wat	er upon completio	on
ction 2			PRINC	CIPAL WATER-BEA	RING STRATA		
.	Depth in	Feet 7	Thickness in	r	escription of Water	-Bearing Formation	
No.  -	From	То	Feet				
						-	*
	<del> -</del>						2
						<del></del>	
ction 3	!			RECORD OF C	ASING		
Dia	Pounds	Threads	Dep	th Feet	Type Shoe	Perfora	
in.	ft.	] in	Top	Bottom	1300 2200	From	То
							·
	:				ŀ	l l	
i	i		1				
ction 4			RECORE	OF MUDDING	AND CEMENTING		
	in Feet	Diamete	r Tons	No. Sacks of	AND CEMENTING	Methods Used	
Depth		Diamete Hole in h	r Tons	1	ND CEMENTING	Methods Used	· · · · · · · · · · · · · · · · · · ·
Depth	in Feet	1	r Tons	No. Sacks of	AND CEMENTING	Methods Used	
Depth	in Feet	1	r Tons	No. Sacks of	AND CEMENTING	Methods Used	
Depth	in Feet	1	r Tons	No. Sacks of	AND CEMENTING	Methods Used	
Depth	in Feet	1	r Tons	No. Sacks of	AND CEMENTING	Methods Used	
Depth	in Feet	1	r Tons	No. Sacks of Cement		Methods Used	ž
Depth From	in Feet	Hole in h	r Tons n. Clay	No. Sacks of Cement	CORD		
Depth From	To To Plugging	Hole in h	r Tons n. Clay	No. Sacks of Cement	CORD	License No	
Depth From ction 5	To To Plugging	Hole in it	r Tons n. Clay	No. Sacks of Cement  PLUGGING RE	CORD	License No	· · · · · · · · · · · · · · · · · · ·
Depth From ction 5 ame of reet an	To  To  Plugging and Number Clay used	Hole in it	Tons of Ro	No. Sacks of Cement  PLUGGING RE  City  Dughage used	CORD	License No State	
Depth From ction 5 ame of reet an	To  To  Plugging and Number Clay used	Hole in it	Tons of Ro	No. Sacks of Cement  PLUGGING RE  City  Dughage used	CORD	License No State	
Depth From  ction 5 ame of reet an ons of C	To  To  Plugging and Number Clay used	Contracto	Tons of Ro	No. Sacks of Cement  PLUGGING RE  City  Dughage used	CORD Ty	License No	19
Depth From  ction 5 cme of reet an cus of Cusging	Plugging ad Number Clay used	Contracto	Tons of Ro	No. Sacks of Cement  PLUGGING RE  City  Dughage used	CORD  Ty  Date Plu  Cement Plu  Depth of P	License No State pe of roughage gged gs were placed as i	
Depth From  ction 5 ame of reet an ons of C	Plugging ad Number Clay used	Contracto	Tons of Ro	No. Sacks of Cement  PLUGGING RE  City  Dughage used	CORD  Ty  Date Plu  Cement Plu  No Depth of P	License No State pe of roughage gged gs were placed as i	19
Depth From  ction 5 ame of reet an ons of C	Plugging and Number Clay used method us approved	Contracto	Tons of Ro	No. Sacks of Cement  PLUGGING RE  City  oughage used	CORD  Ty  Date Plu  Cement Plu  No Depth of P	License No  State	
Depth From  ction 5 ame of reet an ons of C	Plugging and Number Clay used method us approved	Contracto	Tons of Ro	No. Sacks of Cement  PLUGGING RE  City  oughage used	CORD  Ty  Date Plu  Cement Plu  No Depth of P	License No  State	
From Section 5 Same of reet an ons of Cugging Sugging	Plugging and Number Clay used a method us approved	Contracto	Tons of Ro	No. Sacks of Cement  PLUGGING RE  City  oughage used	CORD  Ty  Date Plu  Cement Plu  No Depth of P	License No  State	
Depth From ection 5 ame of reet an ons of C ugging ugging	Plugging and Number Clay used method us approved	Contractor ed by:  OF STATE	Tons of Roy Basin Supering Neer Of FICE	PLUGGING RE City Dughage used	CORD  Ty  Date Plu  Cement Plu  No Depth of P	License No  State	
Depth From ction 5 ame of reet an ons of ( ugging ugging	Plugging and Number Clay used a method us approved	Contractor  ed	Tons of Ro	PLUGGING RE City Dughage used	CORD  Ty  Date Plu  Cement Plu  No Depth of P	License No  State	

Depth i	To To	Thickness in Feet	Color	Type of Material Encountered
This	Mag 1899	k done o	n a repair Pe	क्लार्च पर
			from 2321 to	
			·	
			***************************************	
			-	
	-			
	·			
	<del></del> -			
<u> </u>				
~				

7000 0

Form WR-23 Oxio sie S.J.

#### STATE ENGINEER OFFICE

#### WELL RECORD

		(A) Orma	611	Dotagh	Componi of a	mesiaa		
T		,						
		š						
	,	å						
		ÿ						
<u> </u>						Sta	ate New Mexico	
	4	Drilling w	as comin	enced	February	2,	19_4	8
		Drilling wa	as comple	: eted	March 16	· .	19_5	18
ether well	is shallow	or artesian	shallov	·	Depth to wa	ter upon c	ompletion 144	
100		PRINC	CIPAL WA	ATER-BEAR	ING STRATA			
Depth In	Feet Ti	nickness in		De	scription of Water	-Bearing Fo	rmation	
From	To .	Feet		į.				
		]	· · · · · ·			-		
3			,	1.	े कर मुक्ति द	14	*	
		1		* 1	<u> </u>		-	
<del></del>			<u></u>					-
-								····-
<u> </u>	···	· · · · · ·						
			RECOR	OF CA	SING	· · · · · · · · · · · · · · · · · · ·		
Pounds	Threads			Feet	Type Shoe		Perforations	
it.	in	Top	Bottom		<u> </u>	From	То	
		<del>                                     </del>					· · · · · · · · · · · · · · · · · · ·	
	i	1 1		į .	1	-	i i	
			<u></u>	<del> </del>		<del></del>		
			:		-		-	
			· · · · · · · · · · · · · · · · · · ·				-	
		RECORD	OF MUI	DDING AN	ID CEMENTING			
in Feet	Diameter	``		-	ID CEMENTING			
in Feet	Diameter Hole in in,	RECORD Tons Clay	No. Sa	DDING AN		Methods 1		
in Feet		Tons	No. Sa	eks of			Used	
in Feet		Tons	No. Sa	eks of				
in Feet		Tons	No. Sa	eks of				
in Feet		Tons Clay	No. Sa	eks of				
in Feet		Tons Clay	No. Sa Cen	acks of aent				
in Feet		Tons Clay	No. Sa Cen	eks of	ORD			
in Feet To Plugging	Hole in in.	Tons	No. Sa Cen	acks of aent	ORD	Licen	se No.	
in Feet To Plugging d Number	Hole in in.	Tons	No. Sa Cen	ecks of ment  Sing REC  City	ORD	Licen	se No.	
in Feet To Plugging d Number	Hole in in.	Tons	No. Sa Cen	ecks of ment  Sing REC  City	ORD Tyl	LicenStateoe of rough	se No.	
In Feet To Plugging d Number	Hole in in.	Tons Clay	No. Sa Cen	ecks of ment  Sing REC  City	ORD Tyl	Licen State State	se Nohage	
In Feet To Plugging d Number	Contractor_	Tons Clay	No. Sa Cen	ecks of ment  Sing REC  City	ORD Tyl	Licen State State	se No.	
Plugging d Number Clay used	Contractor_	Tons Clay	No. Sa Cen	ecks of lent Single Rec	ORD Tyl Date Plu Cement Plug Depth of P	Licen. State pe of rough	se No	
Plugging d Number Clay used	Contractor_	Tons Clay	PLUGG	ecks of ment  Sing REC  City	ORD  Tyl  Date Plu  Cement Plug  Depth of Pl  From T	Licen State pe of rough gged gs were pla	se Nohage	
Plugging d Number Clay used method us approved	Contractor ed	Tons Clay  Tons of Ro  Basin Supe	PLUGO	ecks of lent Single Rec	ORD Tyl Date Plu Cement Plug Depth of P	Licen. State pe of rough	se No	
Plugging d Number Clay used method us approved	Contractor ed by:	Tons Clay  Tons of Ro  Basin Supe	PLUGO	ecks of lent Single Rec	ORD  Tyl  Date Plu  Cement Plug  Depth of Pl  From T	Licen. State pe of rough	se No	
Plugging d Number Clay used method us approved	Contractor ed by:	Tons Clay  Tons of Ro  Basin Supe	PLUGO	ecks of lent Single Rec	ORD  Tyl  Date Plu  Cement Plug  Depth of Pl  From T	Licen. State pe of rough	se No	
Plugging d Number Clay used method us approved	Contractor_ed_by:	Tons Clay  Tons of Ro  Basin Supe	PLUGO	ecks of lent Single Rec	ORD  Tyl  Date Plu  Cement Plug  Depth of Pl  From T	Licen. State pe of rough	se No	
1	Depth in	Depth in Feet Ti	Street and City Well was on SE 1/4 (B) Drilling Street and City Drilling well at of 640 acres)  at top of casing in feet above searcher well is shallow or artesian PRING Depth in Feet Thickness in Fron To Feet	Street and Number City Carlsbac Well was drilled un SE 1/4 SW 1/4 (B) Drilling Contr Street and Number City Artes: Drilling was comm Drilling was comm Drilling was commelat of 640 acres) At top of casing in feet above sea level ether well is shallow or artesian shallow PRINCIPAL WA Depth in Feet Thickness in From To Feet  RECOR Pounds Threads Depth	Street and Number P. O. City Carlsbad.  Well was drilled under Perm SE 1/4 SW 1/4 SE 1/4 (B) Drilling Contractor Ray Street and Number West of City Artesia Drilling was commenced Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling was completed Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Drilling Water Britanian Dr	Street and Number P. O. Box 31  City Carlsbad,  Well was drilled under Permit No. Legen SE 1/4 SE 1/4 SE 1/4 of Section 13  (B) Drilling Contractor Randolph Johnst Street and Number West Grand Ave.  City Artesia  Drilling was commenced February  Drilling was completed March 16  at top of casing in feet above sea level 4128 Total depether well is shallow or artesian shallow Depth to was PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Fout Description of Water From To RECORD OF CASING  RECORD OF CASING	Street and Number P. O. Box 31  City Carlsbad, St. Well was drilled under Permit No. L-1882  SE 1/4 SW 1/4 SE 1/4 of Section 13 Twp.  (B) Drilling Contractor Randolph Johnston  Street and Number West Grand Ave.  City Artesis St. Drilling was commenced February 2, Drilling was completed March 16,  lat of 640 acres)  at top of casing in feet above sea level 4128 Total depth of well either well is shallow or artesian shallow Depth to water upon competition of Water-Bearing Form To Freet Description of Water-Bearing Form To Freet Description of Water-Bearing Form To Freet Depth Feet Type Shoe	City Artesia State New Mexico Drilling was commenced February 2, 19 4  Drilling was completed March 16, 19 4  at top of casing in feet above sea level 4128 Total depth of well 245  ether well is shallow or artesian shallow Depth to water upon completion 144  PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing Formation  From To RECORD OF CASING  Pounds Threads Depth Feet Type Shoe Perforations

#### LOG OF WELL

	in Feet	Thickness	Color	Type of Material Encountered
From	To	in Feet		13 be or inguistrat producted
	ς.			
			1	
		1		to provide greate
<del></del>	, · ·	<u> </u>		
		<u> </u>		
		<u> </u>	71 ( 7 50 )	AND TO THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE O
		ļ	1	
				4/28
<u> </u>		**·		L. S. Elev
4. 4 ·			W 1,000	Elev of KTrc<388825
•		· -		
			-, -	17 33.13 431111/
				Loc. No. 17. 33.13. 43 044
	```		,-	Hydro. SurveyField Check
· · · · · · · · · · · · · · · · · · ·		[	3.	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	•			
		ļ		
				SOURCE OF ALTITUDE GIVEN
_				Interpolated from Topo. Sheet
		,, .		Determined by Inst. Leveling
				Other
	· · · · ·			
	-	<u> </u>	7+1+1 ++ + + + +	
· · · · ·				And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
		ļ		-
			::	
<del></del>	<del></del>	<del> </del>	}	

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

31 1 35 38

No. 3 CAPROCH WATER WERL

409

Drilled Fox 1, 1949

BY BURN THIRM

LOCATION SELL, SW/4 SELL SECT 18 TVIS 683E

COLLAR ELEV. 1129 25/2

GROUND PERR 41282 CEMENTED . 40 TOP OF SITS
AREA OF PERFETNED ROLL 6168 : 3983 C TOP OF WATER \$116/48 1492 162 TOP OF WHITE \$17/55 188 200 214 235 TOTAL DEPTH 8/15/ST: APPROK 15 FT OF SAND BAILED OUT 255

Depros

TILLI

567 12 1959

OFFICE

APPROVED BY

LOG OF VIOS CAPROCK

CARLSBAD, NEW MEXICO

DRAWN BY DEP SOND DRAWING NO.

CHECKED BY

SCALE: 1 = 50 DATE: 8 - 24-55 DIRECTED BY ARC

## FORM WR-23 FIELD ENGR. L

#### STATE ENGINEER OFFICE

### WELL RECORD

Section 1	Ι							. "
	1 1 1		(A) Own	er of well	— <del>Pot</del> i	ist Co. of Am	arica ————	
	·					lox_II		Vew Cexter
ļ	<b> </b>	1						is located in the
	1.0							Rge. 33 g
<b></b>		<u> </u>						
1							i Licen	
	<u>-</u>							law Kexico
			Drilling	was comm	enced	Sept. 22	Diate	19_61_
<u>L</u>	<u> </u>							19.6)
	Plat of 640 ac							
							وراج pth of well	
State wh	ether well	is shallow	or artesian	≥ha]]	los	Depth to wa	ter upon complet	ion
Section 2	2		PRIN	NCIPAL WA	ATER-BEAT	ING STRATA	•	
N.	Depth in	Feet Ti	ickness in	]	De	escription of Water	r-Bearing Formation	
No.	From	То	Feet	}		scription of water	-Deming Pormation	
1					114			
2								
3								
4					-			
5		<del> </del>						· · · · · · · · · · · · · · · · · · ·
<u>'</u>	<del></del>		<del> </del>		,	•		<del></del>
Section 3	3		,	RECOR	RD OF CA	SING		
Dia in.	Pounds	Threads	I	pth	Feet	Type Shoe	Perforations	
Th.	ft.	in,	Top	Bottom	2-1		From	То
	1 11		226	245	IL	<del> </del>		
			1	ļ. <u> </u>	<del>                                     </del>			
					-	<del> </del>		
	j	<u> </u>	· I :	1	1	1		<u> </u>
Section 4	Ę		RECOR	D OF MUI	DDING A	ND CEMENTING		
Depth	in Feet	Diameter	Tons		cks of		Methods Used	1/-
From	То	Hole in in,	Clay	Cen	ient		igginous Osed	
			ļ					
	·	· 						
	ļ	·	ļ				-	
	<u>i i</u>		<u> </u>	[	<u> </u>			
Section 5	·			PLUGG	SING REC	ORD		
	, ,	Contractor					License Ne	
							State State	
					-			
		ed					~	19
	approved h						gs were placed as	
062	WF.E-0,02 2	3.			<u> </u>			TOHOWS.
			Basin Sur	ervisor	No	Depth of P	No. of	Sacks Used
	י מפנז ערים	DE CTATE TO						-
	FOR USE (	DE STATE E	эсписки О	MLI		-		
Date I	Received	nen. Nga sangang		·· 	No.	+ +-		<u></u>
			## 12 P. 3	~		+ -		
	16:	ê ge.	[3] _{:5ĝ;}					
				a	Execution of	1 Michael		T.
File No.	L-18.	Y 2		_Use_	af d	Com Mocatio	n No. <u>/2.3</u> 3.	<u> 13.434                                   </u>

	Depth in Feet		Color	Type of Material Encountered					
From	To	Thickness in Feet	Color	Type of material Encountered					
				This was a repair Job-on Potash Mine well					
			•	Classed & Drilled Fr 220 ft to 240 ft,					
- '		-		Run Pipe Scratcher- Set Ili ft. of Ili in					
				easing -in Bottom of Hole & Bailed.					
			·	Water Park					
· · · · · · · · · · · · · · · · · · ·									
<del> </del>									
· · · · · · · · · · · · · · · · · · ·									
<del></del>									
	<del></del>								
	· · · · · ·								
		·							
			-						
	•								
		<del></del>							
		·							
· · · · · · · · · · · · · · · · · · ·									
<u> </u>									

Wall Dullyan







Section 1			(A) Owi	ner of well	Pota	sh Company of	America	
							State New	
	<u> </u>						3 and i	
1			1				Twp. 17 g	
							nLicens	
			1				StateNe	
ļ							1	
<u></u>	<u>                                     </u>						4	
(F	Plat of 640	acres)						
							oth of well 2	
State wh	ether w	ell is shall	ow or artesian	Shall	OW	Depth to wa	ter upon completi	n 147
Section 2			PRI	NCIPAL WA	ATER-BEAR	ING STRATA		2.7
1		in Feet	Thickness in	1				
No.	From	To	Feet				-Bearing Formation	-
1		-		1				
2	120	135	15	Br. ha	rd ehunk	y sand		
	219	239	20	Rr. mu	ddy gand	a_very_little	<del>eravel</del>	
3		ļ <u>-</u>		<b>-</b>				······································
4		ļ						
5		1	1	<u> </u>	<del></del>			
Section 3	3			RECOR	D OF CAS	SING		
Dia	Pounds	Threa	de D	epth		1	Periora	tions
in.	ft.		Top	Bottom	Feet	Type Shoe	From	То
16			0	150	150			
13 5/8			12'3"	259	100			•
10 44			123	209				
	i							
	· <del></del>	··········			·	···-		·
Section 4	Ł		RECO	RD OF MUL	DDING AN	D CEMENTING		
	in Feet	— Diame Hole in	£ .	No. Sa Cen	1		Methods Used	
From	То	11026 11	I III. Clay	Cen	ient -	·		·
						· · · · · · · · · · · · · · · · · · ·	· <del>-</del>	
	<b> </b>							
								· · ·
	1	<u> </u>			1		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Section 5	i			PLUGG	SING REC	ORD		•
		a Contrac	tor				License No	•
							State	
							pe of roughage	
		used						
							gged	
- ruggmg	approve	u sy:	:		·	<del></del>	s were placed as f	OHOM2:
		<del></del>	Basin Su	nervisor	No	Prom T	lug Yo. of S	acks Used
interestado (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo (Patillo						From 1	.0.	
	FOR US	E OF STAT	ee engineer (	ONLY .				
_	_					1		
Date 1	Keceived	Novem	b <del>or 1, 19</del> 55			1		
į					<u> </u>			
:					DY.			
						time the same the same the same the same		

#### LOG OF WELL

Depth From	in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	20	20		Lime & Caliche
20	50_	30		hard fine sand
50	60	10		fine red sand
60	65	5		br. hard sand
65	80_	15		fine red sand
80	95	15	·	br. hard chunky sand
95	120	40		fine sand
120	135	15		br. bard chunks sand
135	145	10		fine sand
145	147	23		herd sand
147	150	3		red bed
150	170	20		fine sand
170	173	3		red bed
173	210		:	fine & cores sand some gravel
210	219	9		red bad
219				br. muddy sands
239	239	20		course gravel
	241/	A		red bed-some gravel
241	259			Lad pag-agina Sinasi
	<del> </del>			LS Elev _ 4//23r
	ļ <u>.</u> .			LS Elev 4/23r  Depth to K Trc 24/c  Elev of K Trc 3882/
				Elev of K
	],	-		
				17.33.13.4444
				Loc. No.
	1			Hydro. Survey Field Check
	1			
	<b> </b>	1		SOURCE OF ALTITUDE GIVEN
	<del> </del>	<del>                                     </del>		Interpolated from Topo, Sheet
		-		Determined by Inst. Leveling
	<u> </u>			Other

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

/8/	Emett	Barron	
		Well Driller	•

1-1883

17.33.13.444

#### WELL RECORD

		;		W Á		and a statem.	Water Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the	وريقت وأريع	ž.		
		<u> </u>					Company of	America America		· · · · · · · · · · · · · · · · · · ·	-
				Street and		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-	<del></del>			
:				City		1 **			_State		
							nit No				
							of Section	-		= =	
	l		l.	(B) Drilli	ng Contre	ictorCa	rion & Posts	r Drie	- Collicens	se No. William	<b>193</b> —
	1 2		<u> </u>	Street and	Number.	Box_1	<b>321</b>	<del>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</del>	<del></del>		27.7
•				Lity	Lovingte	Ø			State - 資金	w-Marico	
	1 1 200		.   :	Drilling w	as comm	enced			·	1	95
(P	lat of 640 ac	res) 🤄		Drilling w	as comple	ted		e 20		1	955
levation	at top of	rasine ir	n feel	t above sea	a level		Total d	enth of	well		. '
							Depth to w			•	
				101		F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<b>F</b>	<b>-</b>	1.8	
ection 2	2			PRIN	CIPAL WA	TER-BEAR	ING STRATA				
No.	Depth in			ckness in Feet		De	scription of Wat	er-Bearir	g Formation		
	From	То		reet					·		
1											
2											
3						- ,			<del></del>		
4	···							· · · · · · · · · · · · · · · · · · ·			
5								-	<del>-                                    </del>		
			!	<u> </u>							
ection 3	3				RECOR	D OF CA	SING				
Dia	Pounds	Threa		Del		Feet	Type Shoe	<u></u>	Perfor		
in.	ft.	in	- '	Top	Bottom	l	1	1 .	From	To	
		<del> </del>		<del></del>		<del></del>	<del></del>				•
									1		
									· · · · · · · · · · · · · · · · · · ·		
										2.3	
				BECOR	D OE MUI	DING AN					
					<del></del>	<del></del>	ND CEMENTING				
Depth	ı in Feet	Diame Hole in		RECOR Tons Clay	No. Sa	DDING AN			nods Used	/3	1
		1		Tons	No. Sa	icks of					
Depth	ı in Feet	1		Tons	No. Sa	icks of					
Depth	ı in Feet	1		Tons	No. Sa	icks of				-	
Depth	ı in Feet	1		Tons	No. Sa	icks of					
	ı in Feet	1		Tons	No. Sa	icks of					
Depth From	n in Feet To	1		Tons	No. Sa Cen	icks of	ID CEMENTING				
Depth From	n in Feet To	Hole in	in.	Tons Clay	No. Sa Cen	ecks of hent	ID CEMENTING	Meth	nods Used		
Depth From	To To To To To To To To To To To To To T	Hole in	tor_	Tons Clay	No. Sa Cen	eks of nent	ORD	Meth	nods Used		
Depth From ection 5 ame of	To To To To To To To To To To To To To T	Hole in	tor_	Tons Clay	No. Sa Cen	eks of hent  SING REC	ND CEMENTING	Metl	uods Used		
Depth From  ection 5 ame of treet ar	To To To Plugging and Number Clay used.	Hole in	tor_	Tons of R	No. Sa Cen	eks of hent  SING REC	ORD	Meth	icense No.		<u> </u>
Depth From  ection 5 ame of treet ar ons of (	To To To Plugging A Number Clay used	Hole in	tor_	Tons of R	No. Sa Cen	eks of hent  SING REC	ORD T	Meth	nods Used  License No. tate  roughage		<u> </u>
Depth From  ection 5 ame of treet ar ons of (	To To To Plugging and Number Clay used.	Hole in	tor_	Tons of R	No. Sa Cen	eks of hent  SING REC	ORD	Meth	nods Used  License No. tate  roughage		<u> </u>
Depth From  ection 5 ame of treet ar ons of (	To To To Plugging A Number Clay used	Hole in	tor_	Tons Clay	PLUGO	eks of hent  SING REC	ORD T Date P: Cement Ph	Meti	nods Used  icense No. tate roughage		19
Depth From  ection 5 ame of treet ar ons of (	To To To Plugging A Number Clay used	Hole in	tor_	Tons of R	PLUGO	eks of hent	ORD T Date P: Cement Ph	Meti	nods Used  icense No. tate roughage	follows:	19
Depth From  ection 5 ame of treet ar ons of (	To  To  Plugging and Number Clay used approved	Contrac	tor_	Tons of R	PLUGO	eks of hent	ORD T Date P: Cement Ph	Meti	nods Used  icense No. tate roughage	follows:	19
Depth From  ection 5 ame of treet ar ons of (	To  To  Plugging and Number Clay used approved	Contrac	tor_	Tons of R	PLUGO	eks of hent	ORD T Date P: Cement Ph	Metil Sype of slugged ugs wer	nods Used  icense No. tate roughage	follows:	19
Depth From  ection 5 ame of treet ar ons of 6 lugging	To  To  Plugging and Number Clay used approved	Contrac	ttor	Tons Clay Tons of R Basis Sur	PLUGO	eks of hent	ORD T Date P: Cement Ph	Metil Sype of slugged ugs wer	nods Used  icense No. tate roughage	follows:	19
Depth From  ection 5 ame of treet ar ons of ( lugging lugging	Plugging and Number Clay used approved FOR USE	Contracted by:	ttor	Tons of R  Basis Su  GINEER O	PLUGO	eks of hent	ORD T Date P: Cement Ph	Metil Sype of slugged ugs wer	nods Used  icense No. tate roughage	follows:	19
Depth From  ection 5 ame of treet ar ons of ( lugging lugging	Plugging and Number Clay used approved FOR USE	Contrac	ttorU.	Tons Clay Tons of R Basis Sur	PLUGO Oughage 1	eks of hent	ORD T Date P: Cement Ph	Metil Sype of slugged ugs wer	nods Used  icense No. tate roughage	follows:	19

Depth	in Feet	Thickness In Feet	Color	Typa of Material Encountered
From	То	In Feet	Color	Type of Material Encountered
·		-		Fall 230 Sh. 6 Prop. Class out and ball
				A company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the comp
		\$1 \$1.2		hele and reach purpe
	-	to a graph		Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro
<u>.</u>		: : : : : : : : : : : : : : : : : : : :		14
<del></del>			1	
				100 miles
	3:	1 7	• \$	
	·			
;				
				· · · · · · · · · · · · · · · · · · ·
		:		
			-	
<del></del>				
<del></del> -				
			-	
		· · · · · · · · · · · · · · · · · · ·		
	· .			
<u>-</u> -				
				Tr .

FIELD &GR. LOG

#### STATE ENGINEER OFFICE

#### WELL RECORD

Section .	Ļ			(A) Owner	r of well	٠.	Potash	COMPANY O	r amenica
	]	`					Box 31		
	}								Now Mexico
									and is located in th
	1			4	SB 14	SK :	4 of Section 13	Twp.	17 S Rge 33 E
							& F Drilling		
				Street and	Number	Tī.	21 5, Love		
ļ				City	Lovi	ngton		State	New Mexico
			ı	Drilling w	as comm	enced	Aug ZI		19.60
(T	Plat of 640	anres)		Drilling w	as comple	ted	Aug 21		19
		-	in fee	t ahove sea	level	•	Total de	oth of trell	100 ft.
		_					_		npletion
								or apon con	-p-10-1011
Section 2	<del> </del>		<del></del>	<del></del>	JIPAL WA	TER-BEA	RING STRATA		
No.	Depth From	in Feet To	Thi	ckness in Feet		D	escription of Water	-Bearing Form	nation
1									
2									1 - THE CALDWAY
3									
4									
5	************			_			•		
Section	3	·			RECOR	D OF CA	SING		7.7.1
Dia	Pounds	Thre	ads	Dep	th	Feet	Type Shoe	F	Perforations
ln.	ft.	in	ı	Top	Bottom	7 665	Type Bride	From	То
	ļ				Mone				
					·				
				1 1		<u> </u>			
Section 4		<del> </del>		RECORD	OF MUE	DING A	ND CEMENTING		·
Deptl From	in Feet	Diam Hole i		Tons Clay	No. Sa Cem			Methods Us	ed
21011		7		Non					<del></del>
	<del> </del>			37634	8				
	<del>                                     </del>						<del></del>	· · · · · · · · · · · · · · · · · · ·	
	<del> </del>				<del></del> -				
			<del></del>	<u> </u>		1 ·	-		·
Section 5						ING REC			
				-					No
						-			
	-				_			-	ge
	="			i	····				19
ringging	approve	a py:				<del></del>			d as follows:
****	<del>'</del> 'y:	الرايل الم	ittaa	Basin Supe	rvisor	N	o, Depth of P	lug Po N	o. of Sacks Used
t engelek birkete keri (standa)				GINEER ON					
	HEER	1111111111	JJ 71	M10	TT.				<del></del>
Date	Received	47 45 E	, <u></u>	ΛTΩ					
	1.8	HU 725	NA !	096101			<del></del>	<del></del>	
				8				<u> </u>	
	, ,				Ŋ	Remember			
File No	1-18	83			Use Ve	d. f. s	Locatio	n No. /Z .:	33.13.440

Depth i	in Feet	Thickness	<b>a</b> ,	
From	То	in Feet	Color	Type of Material Encountered
				700 h
				This was a clean out job, on a Domesti well, for a Potach Mine.
				Mished out suction pipe, and cleaned
				Fished out suction pips, and cleaned well from 70 ft to 100 ft.
				·
		1		
		<del> </del>		
<del></del>		<del> </del>		
		<del>                                     </del>		
	·			
ļ		[		
	<del> </del>			
		<del> </del>		
	<del></del>			
	······			
				1, 1, 1, 7
			<del></del>	
			<del></del>	
<u> </u>		,		
	·			

Wall Driller

WELL RECORD

State general and is located in
State Taxas and is located in
State 2000
and is located in
Twp. 17 3 Rge. 33
License No. 10
State New Marie
2 19.5
<u>5</u> 19 5
of well 225 ft.
pon completion 180 😭
14 × 1 × 11 × 1 ×
ring Formation
Perforations
From To
280 225
ethods Used
and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
ravol rackels
· · · · · · · · · · · · · · · · · · ·
License No.
State
f roughage
ere placed as follows:
ere placed as follows:

Depth in Feet		Thickness	r	Type of Material Encountered				
From	То	in Feet	Color	Type or material Encountered				
0	2	ġ		Set1				
2	22	10		Callcha				
32	12.5	<u>.</u>		Boules				
38	130	362		Sand, Shell, & Clay				
280	200	20		The one of the man was the sea one of the				
200	221	21		Sand, Shell, & Gravel				
221	226	2		Red Bad				
			•					
				L S Elev				
				Depth to KIrc				
			·	Elev of KTrc27783				
		1 1 1 1	1.*	19 22 19 190011				
				Loc. No. 17.33.17.12444				
			· · · · · · · · · · · · · · · · · · ·	Hydro. SurveyField Check X (NoT Found)				
		<u>_</u>						
·		<del></del>						
				SOURCE OF ALTITUDE GIVEN				
				Interpolated from Topo. Six of X				
				Determined by Inst. Leveling				
	·····			Other				
į.		- ا	100					

Jack (Well Driller Joseph Jack (Well Driller

1-3622

17.33.17

#### Form WR-23

#### STATE ENGINEER OFFICE



#### WELL RECORD

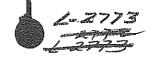
ection 1				(A) Own	er of well	Ke	WANEE OIL C	өн <u>ган</u> х	
								HEKICO	
								State	
				Well was	drilled un	der Peri	nit No TATE	ATER MELLand	is located in the
		·							ise No. 79
		:					379		ise Ito
					ov i noto i				en Herioo
									19 55
			,,	_	vas comple				19 <b>55</b>
	lat of 640								ota_s
levation tate wh	at top ether w	of casin ell is sl	ng in nallow	feet above se v or artesian	ea level Sual	ran	Total dej Dépth to wa	oth of well ter úpon comple	tion 179
ection 2			·	PRI	NCIPAL WA	TER-BEA	RING STRATA		
No	Depth From	in Feet		Thickness in Feet		D	escription of Water	r-Bearing Formatio	n.
1	169	18		6	Light	WATE	R SAND	· · · · · · · · · · · · · · · · · · ·	
3	185	2	13		6950	WATER	JANO	-	
4		1	$\dashv$				,		
5									
ection 3				•	RECOR	D OF CA	SING		
Dia in.	Pound ft.	s T	hreads in	Top	epth Bottom	Feet	Type Shoe	Perio From	rations To
10	32		8	0	214-6	214.	6 Hous	182	214.6
<u>  </u>		_		<u> </u>	1	<u> </u>			
ection 4				RECO	RD OF MUD	DING A	ND CEMENTING	•	
Depth From	in Feet		lamete le in i		No. Sa Cem			Methods Used	
			124				O SAOKS	of Aqueeel	Pouned in You
							of Hore	to hold hac	R QUICKBAND
,			-				MHIFE OB	IFF INC AEFF	
			<u>.                                    </u>		<u> </u>				
ection 5					PLŲGG	HNG REC	transport of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t		
ame of	Pluggi	ng Con	tracto	r	·	· · · · · · · · · · · · · · · · · · ·	<del> </del>	License No	),
ons of C	Лау изс	ed	·	Tons of I	Roughage u	ısed	Ту	pe of roughage	
lugging	method	used	····	-			Date Plu	igged	19
ugging	арргоч	ed by:					Cement Plu	gs were placed a	s follows:
*****	<u> </u>			Basin Su	nervisor_	Ŋ	o, Depth of P	lug No. o	f Sacks Used
	FOR U	SE OF	WEDEN STREET	ELGUIZEE					COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN CO
4			:		1				
Date I	Receive	1		<u>JUL 28 195</u>	00				
			GRO!!	OFFICE ND WATER SU	SERVISOR				
		- 1	RĊ	SWELL, NEW ALE	XICO AY				3-111-
	1.	27	70		IIro ·	Ma.	we Locatio	on No. <u>12.3</u> 3	3/8 24111

From	In Feet To	Thickness in Feet	Color	Type of Material Encountered
0	3	3 8	ROWN	Sale
3	68	1	ED	SAMO
68	71		RAY	LIME
71	98		KITE	CALIONS
98	117		£0	Sand
117	129		HITE	CALICHE
129	163	34 R	<b>50</b>	SAND
163	165	2 8	ROPH	SHALE
165	189		70	SAND AND GRAVEL LIGHT WATER SAND
189	192		BHT GRAY	LIME SHELL
192	198		ID	SAND
198	213	15 3	10 513	WATER SAND - Good
213	214	1	80	SHALE
				DROVE PIPE FROM
		214-6 - 6		LS Elev 42/5
		214-6 - 6	NE FOOT IN I	RED BED
		214-6 - 6	NE FOOT IN I	LS Elev 42/5
		214-6 - 6	NE FOOT IN I	LS Elev 42/5
		214-6 - 6	NE FOOT IN I	L S Elev 42157 Depth to K Tre 2131 Elev of K Tre 40021
		214-6 - 6	NE FOOT IN I	L S Elev 42/57  Depth to K Tre 2/30  Elev of K Tre 4002/
		214-6 - 6	NE FOOT IN I	Loc. No.  Hydro. Survey X Field Check
		214-6 - 6	NE FOOT IN I	L S Elev 42/57  Depth to K Tre 2/3v  Elev of K Tre 4002v  Loc. No.  Hydro, Survey X Field Check  SOURCE OF ALTITUDE GIVEN
		214-6 - 6	NE FOOT IN I	LS Elev 42157 Depth to K Tre 2131 Elev of K Tre 40021  Loc. No. Hydro. Survey X Field Check  SOURCE OF ALTITUDE GIVEN Interpolated from Yopo, Sheet X
		214-6 - 6	NE FOOT IN I	Loc. No.  Hydro. Survey X Field Check  SOURCE OF ALTITUDE GIVEN  Interpolated from Topo. Sheet X  Determined by Inst. Leveling
		214-6 - 6	NE FOOT IN I	LS Elev 42157 Depth to K Tre 2131 Elev of K Tre 40021  Loc. No. Hydro. Survey X Field Check  SOURCE OF ALTITUDE GIVEN Interpolated from Yopo, Sheet X

aller

1-2770

17.33.18.200



#### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Ł						_	Sarana Air			
		<del> </del>	1					r rone	6.37	
			1						Ctolo bi	
<u> </u>			Uty	JA.	MAMAR V. L. L.	LEAN O	UF DIL CAM	P. WELL	2	46x 1.00
	,									
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				_					
	a - 2.	202-1								
077 010		2031								
			Drilling	wa	s comm	enced	June 1			
lat of 640	0.0202)	<u></u>	Drilling	was	comple	ted	JUNE 0			1955
	-			1	torrol		matal da		e tle	ı a
2	-		PRI	NC	IPAL WA	TER-BEAR	ING STRATA			
						De	scription of Wate	er-Bearing	Formation	
From	To	<u> </u>	1. CC r	<u> </u>				·		<u> </u>
196	214		8	_	Cuton	SAMO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	1			T						
				1					:	
•	<u>·                                      </u>				BEOOF	D OF OA	CINIC			
3			1 -			D OF CA	SING	<u> </u>		
	s   1		I			Feet	Type Shoe	-Fr		ıs To
<del></del>			- <del>  -</del>	+				-		
-			} <b>**</b> **							~
WELL	AURE	VOA C	abed Wi	i Pi	CLEA	red on.	<b>f</b>			
<del> </del>			<del> </del>	+				· · · · · · · · · · · · · · · · · · ·		·
<u> </u>			<del></del>	- 1		•	<u>'</u> ;,			
4			RECO	RD	OF MUI	DDING A	ID CEMENTING			· · · · · · · · · · · · · · · · · · ·
h in Feet	} <del>,</del>						-	Metho	ds Used	
	, -		Clay							
To	, -					TEIL			<del> </del>	
То	, -		Ne Mub	Us						
То	, -		No Mub	Us		16110				
То	, -		No Mub	Us		16110				
То	, -		No Mub	Us		TEII(				
	, -		Ne Mub	Us		SING REC	ORD			
5	H				PLNG	SING REC	•	Lic	cense No.	
5 Pluggir	ng Cor	ntra <b>ct</b> or.			PLUGG	SING REC	· · · · · · · · · · · · · · · · · · ·			•
5 f Pluggir	ng Con	atractor.			PLUGG	GING REC	· ·	Sta	te	
5 f Pluggir nd Numl Clay use	ng Corper	tractor	Tons of		PLUGO	Ging REC		ype of ro	te	
f Pluggir nd Numl Clay use	ng Comper d	tractor	Tons of		PLUGO	Ging REC	T Date Pl	ype of ro	ughage	19
5 f Pluggir nd Numl Clay use	ng Comper d	tractor	Tons of		PLUGO	Ging REC	Toate Pl	ype of ro lugged lgs were	te	19
f Pluggir nd Numl Clay use	ng Comper d	tractor	Tons of	Ron	PLUGG	Ging REC	Date Pl	ype of ro lugged lgs were	ughage	19
f Pluggir nd Numi Clay use g method g approve	ng Comper dused by:	itractor	Tons of	Ron	PLUGG	GING REC	Date Pl	ype of ro lugged lgs were	oughage placed as foll	19
f Pluggir nd Numi Clay use g method g approve	ng Comper dused by:	itractor	_Tons of	Ron	PLUGG	GING REC	Date Pl	ype of ro lugged lgs were	oughage placed as foll	19
f Pluggir nd Numl Clay use g method g approve	used by:	tractor.	Tons of	Rou	PLUGG	GING REC	Date Pl	ype of ro lugged lgs were	oughage placed as foll	19
f Pluggir nd Numi Clay use g method g approve	used by:	tractor.	Tons of  Basin S  ENGINEER	Rou oni	PLUGG	GING REC	Date Pl	ype of ro lugged lgs were	oughage placed as foll	19
f Pluggir nd Numl Clay use g method g approve	used by:	state i	Tons of	Rou ONI	PLUGO	GING REC	Date Pl	ype of ro lugged lgs were	oughage placed as foll	19
	Poundift.	Plat of 640 acres) In at top of casi Bether well is set of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of the result of	n at top of casing in feather well is shallow  Depth in Feet To To To ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214 ISS 214	Street an City	Street and I City MAL Well was de ENTREME (B) Drilling Street and I City Law Drilling was Drilling was Drilling was dether well is shallow or artesian PRINC Depth in Feet Thickness in Feet Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet I Thickness in Feet	Street and Number. City MALLAMAS Well was drilled un ENTREME GORNER (B) Drilling Contre Street and Number. City Layingto Drilling was comm Drilling was comm Drilling was comple ther well is shallow or artesian SHA  PRINCIPAL WA  PRINCIPAL WA  PRINCIPAL WA  PRINCIPAL WA  The Street and Number. City Layingto Drilling was comm Drilling was comm Brilling was comm Drilling was comm Drilling was comm Brilling was comm Drilling was comm Drilling was comm Brilling was comm Drilling was comm Brilling was comm Drilling was comm Brilling was comm Drilling was comm Brilling was comm Drilling was comm Brilling was comm Drilling was comm Brilling was comm Drilling was comm Brilling was comm Drilling was comm Brilling was comm Drilling was comm Brilling was comm Drilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling was comm Brilling w	Street and Number City MALSAMAS Well was drilled under Perm EXTREME CORNER N.E. 2  (B) Drilling Contractor. C Street and Number. Box. City Lowington Drilling was commenced. Drilling was commenced. Drilling was completed.  PRINCIPAL WATER-BEAR  PRINCIPAL WATER-BEAR  PRINCIPAL WATER-BEAR  Depth in Feet Thickness in Feet  From To Feet Thickness in De  From To Feet Thickness in Feet  From To Feet Thickness in Feet  From To Feet Thickness in Feet  RECORD OF CA  Pounds in Top Bottom Feet  Well was drilled under Perm EXTREME CORNER N.E. 2  RECORD OF CA  RECORD OF CA  RECORD OF MUDDING AN In Feet Diameter Tons No. Sacks of	Street and Number  City MALSAMAR Well was drilled under Congress Swamer Congress Swamer Congress Swamer Congress Swamer Congress Swamer Congress Swamer Congress Swamer Congress Swamer Congress Street and Number Box 379  City Lowington Drilling was commenced June 1  Drilling was commenced June 6  Pat of 640 acres) In at top of casing in feet above sea level Total deferter well is shallow or artesian SMALLOW Depth to well in the feet Thickness in Feet Thickness in Feet Thickness in Feet Tope Bottom  RECORD OF CASING  Pounds Threads In Top Bottom Feet Type Shoe  If a Pounds Threads Casen Whis Cleaner Out Tope Shoe  RECORD OF MUDDING AND CEMENTING  RECORD OF MUDDING AND CEMENTING  RECORD OF MUDDING AND CEMENTING	Street and Number  City MALJAMAS Well was drilled under Permit No. ENTREME CORNER N.E. CORNER SWE 18 TW  (B) Drilling Contractor C. Q. ALBREDGE Street and Number Box 379  City Lovington Drilling was commenced June 1 Drilling was completed June 6  Pattor 640 acres) In at top of casing in feet above sea level Total depth of water well is shallow or artesian SMALLOW Depth to water upon PRINCIPAL WATER-BEARING STRATA  Depth in Feet Thickness in Feet Description of Water-Bearing From To Description of Water-Bearing  RECORD OF CASING  Pounds Threads Depth Feet Type Shoe From Top Bottom Feet Type Shoe From Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Stra	City MALJAMAS Well was drilled under Permit No.  ENTREME CARRIES No. 12 CAMP WELL 2 and is Incense No. 12 CAMP WELL 2 and is Incense No. 12 CAMP WELL 2 and is Incense No. 12 CAMP WELL 2 and is Incense No. 12 CAMP WELL 2 and is Incense No. 12 Camp Well 2 Camp Well 2 Camp Well 2 Camp Well 2 Camp Well 2 Camp Well 2 Camp Well 2 Camp Well 2 Camp Well 2 Camp Well 2 Camp Well 2 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp Well 3 Camp

43 on 002-203-1

Depth	in Feet	Thickness in Feet	Colon	Type of Material Encountered
From	То	in Feet	Color	
				1.
96	214	18	RED	QUICK SAND
			·	
			-	
		<u> </u>		
		<u> </u>		
	· · · · <del>-</del> · · ·	<del></del>		
		<del> </del>		
		<del> </del>	<u> </u>	
<u></u>				
		ļ		
-				
		1		
· · · · · · · · · · · · · · · · · · ·				
<del>.</del>				
		<del> </del>		· ·
<del></del>	<u>i</u>	<u> </u>		
·				· · · · · · · · · · · · · · · · · · ·
·		<del> </del>		
		<del> </del>	,	
		<del> </del>		
,				

, 1/M

#### WELL RECORD

Dection	· • · · · · · · · · · · · · · · · · · ·		***************************************	(A) Own	er of wel	la.	KE	WANEE OIL	Go.	
				Street and	l Numbe	Bex	12	<b></b>	P.1 .	f nr 🐱
<u></u>	_			City	STATE	WATE	R W	ELL DRILLE	0 en 4-1947	d is locatest in the
			2	OPOL PRO	MrBled b	ıhwer '	203	MUBICIP AFRAM WES	AL USE State	d - 1
				1/4		/4		4 of Section -	g Tym	Rgr.9
			$\neg$	(B) Drilli	ing Cont	ractor	90	or aconeda	T ion	nse No.
ł				Street and	Number			DOX STY	Dice.	Inse No.
-				City	F&AING.	TSH		f-1, 14 1 3	State	lew Mexico 55
1			l	Drilling w	vas comn	nenced	L			95
l	<u> </u>			Drilling w	as comp	eted		OULT TO		19
	Plat of 640	•				1070				10
Tievatio	n at top	or casing i	n fee	t above se	level	Ħ		Total de	pth of well	
State W	netner we	ell is shall	ow o	r artesian_				Depth to we	iter upon comple	tion
Section	2			PRIN	CIPAL W	ATER-E	EAR	ING STRATA		
No.	Depth	In Feet	Thi	ckness in				· · · · · · · · · · · · · · · · · · ·		
	From	То		Feet			De	scription of Wate	r-Bearing Formatio	n .
1 2	05	215	1	3	Quio	K SAI	10			
2									-	
3									<u></u>	
4										
5										
	<u> </u>			·		<del></del> .				
Section	3				RECOR	D OF	CAS	ING		
Dia	Pounds	Thread	is	Dept	th	13		m ===	Perfo	rations
in.	it.	in		Top	Bottom	Fee	-	Type Shoe	From	To
10 3/4	40.5#			0 2	215.2	215,	i 24		n 4	
<u>-</u>			Jest			-2-8-8	•—	. ALREA		
	<b></b> _	<u> </u>	det.	. WAS DI	FILLED	4+1:	2-4	PAS GASE	D WHEN CLEAN	ED OUT
	<u> </u>	<u> </u>				<u> </u>			t.	
Section 4	<u>!</u>			RECORD	OE MUE	שאמי	λŃΙ	CEMENTING .		
	in Feet	Diamet	er l	Tons	No. Sa		AIN	CEMENTING.		
From	To	Hole in		Clay	Cem				Methods Used	·
<del></del>		<del>                                     </del>		NO MUE	USED			· · · · · · · · · · · · · · · · · · ·	······	
		1			1		-	A. y		TT -
		1	$\neg$	· · · · · · · · · · · · · · · · · · ·	<del> </del>		-		HILL	
	1						<del> </del>		00	055
		······					<del>'</del>		JUL 28	
Section 5	. , 9				PLUGG				OFFI	C E SUPERVISOR
									GRAUND WATER	M MEXICO
									State	<del>-</del>
Cons of C	lay used		тТ	ons of Rou	ighage u	sed		Тур	e of roughage	
Plugging	method u	sed					·	Date Plug	ged	19
Plugging	approved	by:					-		s were placed as	
						Γ	B.T.	Depth of Plu	ığ İ	
			Sant William	Bosin-Super			No,	From To	No of	Sacks Used
	FOR USE	OF STATE	E G	INEE ON	(v.)	test cortex.				
7	-	1		-		1000000				
Date R	eceived		IUL	28 1955		- 1	: :			
			0	FFICE	-	PRESENTATION			<del>-  </del>	
		L RO	YD W Swell,	ATER SUPERV	/ISOR	L.				TO DO NOT THE REAL PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF
	/					y,autinissi 1	•enzin	O has		33333
File No.		<u>~ / / _</u>	2	t	Jse_//	use	æ	Location	No. 12. 33.	(X 322 )

Depth in	ı Feet	Thickness	<b>7.</b> 1	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
From	То	in Feét	Color	Type of Material Encountered
202	215	13	RED	QUICK SAND
215	220	5	KED	RED BED
			······································	L S Elev 42257  Depth to K Tre 2157  Elev of K Tre 40107
				Elev of KTrc_H0101
			· · · · · · · · · · · · · · · · · · ·	
				FV 17:33:18:30233*
	<del></del>		······	Loc. No
				Tyulu, Sulvey 1 idea Green
	- :			
				SOURCE OF ALTITULE
				Interpolated from Topo. Silve:X
				Other

1-2773

17.33.18.322

WELL RECORD INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the

accurate	ly as pos	ffice of the sible who	e Sta en an	ate Enginee: v well is d	r. All sec rilled, re	tions, e paired	xce	ot Section 5. sh	all be ans	vered as	completely and d as a plugging
recora, o Section 1		on IA an	a se	ction 5 need	be comp	oleted.					į
	· · · · · · · · · · · · · · · · · · ·			(A) Owne	r of well	Hon	79.78	Black Drilli	ng Compa	<b>py</b>	
			ļ					7 4			
											76
1/20	( de sate	12001									s located in the
Spa	1 / 1 de	2.13		¥_	¥	N K	_1/4	of Section	Twp.	27.5	Rge. 33 E
201	1. 11 M. C.	CA. Abu									No. 130-183-
resid	for it is	mer laci.				-					
				City	fortage	023			St	ate <u>N</u> o	w Maxico
			- 1								19_57_
(F	lat of 640	acrés)		Drilling wa	as comple	eted		Nen	renber 30	<del></del>	19_57_
-		-	in fee	et ahove sea	level	4/2/	6	Total der	nth of wel	1 208	<b>4</b>
											n 188 ft.
•		.H 15 SHUI:	.017				· 1		cci abou c	ompiewo	···
ection 2	!		<del></del>	PRINC	CIPAL WA	ATER-BE	ARI	NG STRATA			
No.	Depth i	in Feet To	Th	ickness in Feet		•	Des	cription of Water	-Bearing Fo	ormation	
1			<u> </u>	*							
2	1.88	19 <u>1</u>	╁	6		r Sand					, -
3	203	207		5	Water	e Sand	ê.	Oravel		-	
4			ļ		·	<del></del>					<u> </u>
			<del> </del>			,					
5		l	<u> </u>								
ection 3	}				RECOR	RD OF C	CAS	NG		•	
Dia	Pounds	Thre	ads	Dep	th	Feet	i	Two Chas		Perforat	ions
in.	ft.	in		Top	Bottom	reel		Type Shoe	From	<u> </u>	То
_7	20_	20		0	208	208		Nons	21,8		208
	ļ							. 5.,			
		<u> </u>				<u> </u>	]				
ection 4	-	•		RECORD	OF MUI	DDING	ANI	CEMENTING		=	
	in Feet	Diam	eter	Tons	<del></del>	cks of	T	· OZNIZIVINI(O		<u> </u>	<u> </u>
From	To	Hole i		Clay		nent			Methods	Used	
20	208	30		1.00 Ths	1		n	ev liki hals	E average		
Ø,₩		100		-epoo amar	•			by many more	- Markar	haverier -	*
	-			:	1		1	· · · · · · · · · · · · · · · · · · ·	•		
	1.			<u> </u>			1				
				· .						·-·	
ection 5						SING R					
		g Contrac									
											•
ons of (	Clay used	l		Tons of Ro	ughage t	used	<del></del>	Ту	e of roug	hage	
lugging	method	used		<del></del>				Date Plu	gged		19
lugging	approve	d by:						Cement Plug	s were pla	ced as f	oliows:
							NT-	Depth of P	lug		
uppartisi di pantisi ka			di Relayari	Basin-Supe	SOUTH TOWNS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	november !	No.	From T	o	NO. Of S	acks Used
	FOR US	E OF STA	ele e	giveer on	1.						
				_	1)						
Date I	Received .		rtt	3 1 0 1958	101						
		1		OFFICE	1/2						_
				WATER SUPER					Side and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		*
	. ر	1~	-5		وجيبي	gamania.		·			
File No.	1-32	26			Use 22	20.1	ソ.	Locatio	n No. ZZ	_33	<u> 18.23</u> a_

#### LOG OF WELL

Depth From	in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	3	3	-	3613
P. S.	8	9	<u></u>	Calleha
8	22			loulder .
34	3.6	6		Caltone
18	26	8		Boulder
26	188	162	1	Sandy Clay Shell
188	194	6		Water Sand
19h	203	9		Sandy Clay
203	207	5		Water Sand & Gravel
207	208	1	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Rad Bad
	* * * * * * * * * * * * * * * * * * * *			
		4		L S Elev 42/4/ Dapth to K Trc 20/7
				Depth to K Trc. 2077
				Depth to K Trc 4009
				Loc. No. 17.33.18. 22113"
		<del>,</del>		Hydro, Survey Field Chack X
	<del> </del>			
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Popo Chart
				Determined by Inst. Leveling
				Other
7 .				

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

CATTON DRILLING GEMPANY

CAVEL DEFINER

L-3726

17.33./8.230

#### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1				(4) Over	n of mall	fra värretsa	a nakost Masarika	No care Comis	
			- 1	• •			ost Grunen		
			1				1 11 11 11 11 11 11 11 11 11 11 11 11		e <u> </u>
		·	;		1_111 - 7	-1 D	1 <u>C</u>	DIAN 2 P 7 C	and is located in the
									and is located in the
		Į	- 1						License No. And Addition
							<u> </u>		
									e <u>lies essec</u> 1956
(P	lat of 640 ac	res)	1	Attitud w	as compre	:veu	······································		1933
Elevation	at top of	casing in	ı feet	above sea	ı leveL		Total dej	oth of well	250
State wh	ether well	is shall	w or	artesian_	shalla	<u> </u>	Depth to wa	ter upon cor	npletion <u>190</u>
Section 2							ING STRATA	· · · ·	
].	Depth in	Foot	Thio	kness in	011712 117				
No	From	To		Feet		De	scription of Water	-Bearing Fort	nation
1						· ·		-	
	100	235		<b>4.</b> 5	- Ast	<del>dr con</del>	i (amovyki)	di (Lon	ricial)
									,
3									
4									· · · · · · · · · · · · · · · · · · ·
5									
Section 3	3				RECOR	D OF CAS	SING		
Dia	Pounds	Threa	ds	Dep		Feet	Type Shoe	ì	Perforations
in.	ft.	in		Тор	Bottom	166.	Type blide	From	To
-7	377	8		o	360	250-	20	300	250
<u> </u>	<u> </u>	<u> </u>			····		<u> </u>		
Section 4	ł			RECORI	OF MUI	DING AN	ID CEMENTING		•
Depth	ı in Feet	Diame	ter	Tons	No. Sa	cks of		SEAN-A- II	
From	To	Hole in	in,	Clay	Cen	ient		Methods Us	sea
				•					
	1								
					hi Hod	INC PEC	ODB		
Section 5						ING REC			
	Plugging								e No
	-								age
Plugging	method us	sed							19
Plugging	approved	by:					Cement Plu	gs were plac	ed as follows:
		·			·	No	Depth of P	lug	No. of Sabks Used
			Spiritonings	Basin Sup	ervisor		From .	Po P	an .1 and and 11
	FOR USE	of stat	e en	GINEER O	NLY	in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th			MAY 26 1955
		-M.	, n	0 19.	66				
Date I	Received	<u> 1444</u>	-	0 / 13			1-		OFFICE
		/				and the second			ROSWELL NEW MEXICO
######################################	_								9.0
	S.	787	5		_Use	6.1	Taasii	m No 17	33,20, 220
File No	(/)	ec V ' .			uses	<i></i>	Locatio	n 140	War and the second

1-fos-cs 20 2014

Depth From	in Feet	Thickness In Feet	Color	Type of Material Encountered
		<u> </u>		
Q	1	3		3031
	9	6		Collete
<del>9</del>	60_	- 53		Tight sand
_60	2.20	60		Send -
120	190	70	<u> </u>	Tichs Gand
190	235	45		Veter Sand
235	250	15		Sondy Clay
	-	ļ		
		1		
·				
,		<del>                                     </del>		
	<del> </del>			
	<del></del>			
		ļ		
				<u> </u>
		<del> </del>	<u></u>	

#### WELL RECORD

Section	1		41) 6					
			Street and	er of well. Number	- Prilli	oo Potroleum cr		
					- 1	•		- Texas
								and is located in the
								79 Rge. 33 E
			(B) Drilli	ing Contra	actor_gas	ten & Pertor	belg. Co.I	icense No. 170163
<u> </u>			1					
								ilea lectes
l .	-							19_56_
()	Plat of 640 ac	res)	Drilling w	as compte	etea	:WGN	·	19_56_
Elevatio	n at top of	casing i	n feet above se	a level		Total dej	oth of well.	830
State wl	hether well	is shall	ow or artesian.	Shallow	·	Depth to wa	ter upon con	npletion 360
Section :	2		PRIN	CIPAL WA	ATER-BEAR	ING STRATA		
. 1	Depth in	Feet	Thickness in				Descine Form	ntion.
No.	From	То	Feet		De	scription of Water	-Dearing rorn	auon
1	158	198	LO.	影響數	ന ടെണ്ട	wirowal		
2		***************************************		1,400	+			
3								
4								,
5								······
	9			DECOD	D OF CA	CINC		
Section	1	1	nds Dej	·····	D OF CA	I	· · ·	Perforations
Dia in.	Pounds ft.	Threa in		Bottom	Feet	Type Shoe	From	To
7	32	8	-   o	230	230	Nous	360	230
	J				House		3136	
Section -	4		RECOR	D OF MUI	NA SMICIO	O CEMENTING		
	h in Feet	Diame		No. Sa	- 15			
From	То	Hole in		Cem			Methods Us	ed
		ļ <u>.</u>			_			
				<u> </u>				
Section :	5			PLUGG	ING REC	ORD		
		Contrac	for				License	No
								ge
	-							19
	approved		•					ed as follows:
					[,;	Denth of P	lug	· · · · · · · · · · · · · · · · · · ·
		Parent land	Basin Sup		No	From 7	co v	lo. of Sacks Used
	FOR USE	of STAT	CE ENGINEER O	NLT				
			MAR 14 19	53				
Date	Received							
			O P F 1 C B LE PETAW DRUGS	PROSIVISION	100			· *
			ROSWELL, NEW M	exico (A)				
File No		3/	33	Use	oil	T.ocatio	n No. 72	31320°

Depth i	To To	Thickness in Feet	Color	Type of Material Encountered
0	8	8		- Rock
8		4	·····	- Celecho
22	20		<del></del>	Rook
20	212	92		Sand
212	<b>15</b> 8	<u>l6</u>		Sendy Clay
159	198			Enter Sand & Cruyol
198	350 <	22		Sured .
220	230	10		Park Class
		<del></del>		
				L S Elev
- 1	ļ	•		L S Elev
	· · · · · · · · · · · · · · · · · · ·			Depth to K Trc 3923
				FL 17:33:23:3/320
	· · · · · · · · · · · · · · · · · · ·			Loc. No.
				Hydro. Survey Field Check X
1	·····			Hydro. Survey Trans engage
				SOURCE OF ALTITUDE GIVEN
1				Interpolated from Topo. Sheet X
				Determined by Inst. Leveling
·····				Other
				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	· · · · · · · · · · · · · · · · · · ·			
1				

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

~		• •
		~ <del>~~~~ ~~~ ~~~ ~~~~~~~~~~~~~~~~~~~~~~</del>
Well	Driller	

1-3/33

17.33.23.310

### Form WR-23



### STATE ENGINEER OFFICE

# WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1	l: .		(A) O		·			
			Ctroot and	r of Men.	Rh: ÷Boo	llio Potrol. 758	us Co.	
		İ						New Hext co
<b></b>			Well was	deilled u	don Donn	# Nr. 1.9T		New Mexico d is located in the
		ļ	Wen was	urmeu ur Nw 1/2	SW 1/2	of Section	ا an الله الله الله الله الله الله الله الل	Rge33 E
				ng Contr	noton T	O Section		) nge33- <u>g</u> nse No <del> { }287-</del> _
.]							g tio ₄ Lice	nse No. 199 261
			City	Lovingt				New Mexico
	,				···	Sant 9	Stare	19_58_
								19 58
(P	lat of 640 ac	res)	Drinnig w	as compa				
Elevation	at top of	casing in	feet above sea	a level		Total de	pth of well.	_230_ft
State wh	ether well	is shallo	w or artesian_	9hall	,ps	Depth to wa	ter upon comple	tion 70 ft
Section 2	· } ,		PRIN	CIPAL WA	ATÉR-BEAR	NG STRATA		
No.:	Depth in	Feet To	Thickness in Feet		Des	cription of Water	-Bearing Formatio	)n
1		15	asir.					<del> </del>
2		<del>/</del>	fateli	<del></del>	<del> </del>			
3	T							
4				<del></del> -				
5				<del></del>	·+-:			· .
<u> </u>	<del></del>			<del></del>	:			<del></del>
Section 3	} 			RECOR	D OF CAS	ING		
Dia	Pounds	Thread		th Bottom	Feet	Type Shoe		prations
in.	ft.	in	Top .	Pottom			From	To
7 In.	-hole	ļ		<del></del>	no ca	sing-	<del></del>	<u> </u>
					.,.,	· · · · · · · · · · · · · · · · · · ·	<del></del>	
				<del> </del>		· · · · · · · · · · · · · · · · · · ·		
	<u> </u>	<u>                                     </u>		• • •	<u> </u>	<u>.</u>		1
Section 4			RECOR	OF MU	DING AN	D CEMENTING		
Depth	in Feet	Diamet	er Tons	No. Sa	cks of		75-41-J- 77	1
From	То	Hole in	in. Clay	Cen	ent		Methods Used	
<u> </u>								
						····		
			-					
<u></u>	<u>i</u>			<u> </u>	<u> </u>			
 				BLUCC	SING RECO			
Section 5								
								).,
	· ·							
	•		·		10		gged	
Lingand	approved	oy:	- V 2 3 →		- 1	Total Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	s were placed a	s follows:
		promoc	Basin-Sup	rvisor-	No.	From T	No. o	f Sacks Used
	FOR TIEF.	OF STATE	e engineer of				en fin di	
	FOR USE	CE OI BILL	a tam ettimatikatik	EMAPE.		3 7500		
Date I	Received		EP 26 1958	. , ,			1970 To 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1970 A 1	
			OFFICE	41				
			NO WATER SUPER		<u> </u>	1		
	,		SWELL, HEW MESOC					
File No.	1-3/	<u> 33 _</u>	<u> </u>	Use.	2 <u>0.D.</u>	Location	n No. 12.33.	23.3/0

# LOG OF WELL

Depth i	in Feet	Thickness		Type of Material Encountered				
Гоп	То	in Feet	Color	Type of material encountered :				
		Fs.		This is an old well drilled March 1956				
				and later plugged, well was 230 ft. of 7"				
				casing. We drilled out plug, clean out				
: :	;			and bailed out hole; to be used for oil we Drilling purposes				
				Drilling purposes				
-				, ,				
		·		:				
			· · ·					
,		:		-				
			-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
<u> </u>	1		,					
<del></del>	· \	)						
		1.1	<u> عسمي</u>	3				
		*						
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
ь.		<u> </u>						
			2					
·			<u>\</u>	1				
<u>.</u>			,					
-								

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Grady	Backus	
	Well Driller	

FIELD R. LOG

### STATE ENGINEER OFFICE

### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1		J.	(A) Ournor	n of avoil	DE 12	arii dheelaa aa aa aa aa aa aa aa aa aa aa aa aa	المائية المعالم	
								n Company	
				1.4		5 (5)	. 17/h.,	:	en Mexico
									is located in the
1								and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Rge. 33E
-	23		!		7.		5.4		se No. NR
ø									
<u> </u>	ļ <u>-</u>								New Kexleo
1.								· · · · · · · · · · · · · · · · · · ·	19
	<u> </u>	<del>,l</del>	- / J					4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19
•	Plat of 640 ac		- 7		,				
								oth of well	
State w	hether well	is shall	OW 01	artesian	Shallor	<b>*</b>	Depth to wat	ter upon complet	ion
Section	2	·····		PRINC	CIPAL WA	TER-BEAF	ING STRATA		
No.	Depth in From	To `	Thi	ckness in Feet		De	scription of Water	-Bearing Formation	1
1				::	as dan	ar Maria di andi m	. 7	: · · · · · · · · · · · · · · · · · · ·	
2			***************************************	-	74	ortett	at Matt Sacot		
3			1/2 .				- 1 Trans	*.	
4		<del>,</del>			<del></del>	<del></del>	+	·	:
5					· · · · · · · · · · · · · · · · · · ·		4.	· · · · · · · · · · · · · · · · · · ·	<u> </u>
			- :	· · · · · · · · · · · · · · · · · · ·	<del> </del>	<u></u>	e gastini	<del></del>	
Section	3				RECOR	D OF CA	SING		
Dia	Pounds	Threa	ds	Dept		Feet	Type Shoe	!	ations
in.	ft.	in		Top	Bottom		<u> </u>	From	То
7"	20 ₺ 23	8		0	230	230		*	:
	<del> </del>		<u></u>						
	·	<del> </del>							
<u> </u>	<u> </u>	<u> </u>		1		<u> </u>	<u>, l :</u>	<u>}</u>	<u> </u>
Section	4			RECORD	OF MUI	DING A	ND CEMENTING		
	h in Feet	Diame		Tons	No. Sa	1	······································	Methods Used	
From	То	Hole in	in.	Clay	Cem	nent			
			·	·					
19.1	-			<del></del>	<del></del>			<del></del>	
	<u> </u>		• •		-				
***	1	<u> </u>			<u> </u>				<del> </del>
Section	5			• .	PLUGG	ING REC	ORD	,	
•		Contract	tor				<u>-</u>	License No.	
								pe of roughage_	
Pluggin	g method us	ed							19
	g approved							gs were placed as	
	P abbrator			ter de	d	N	Depth of P	lug No of	Sacks Used
		*11.46	diam'r.	Basin Supe	rvisor		From 1	ro no or	
-	FOR USE	OF STAT	E DE	DINSTITUTE ON	LY		<u> </u>		
	•	<b>OFFICE</b>	137	MONE ENGIN	461				
Date	Received								·
		00.8	MIJ ,	S NOV 27	561'	West and the second			
	-			-		janasannata Panasannata			
Total - P.T.	o.	2.4			Flack All	2d. D	ľ castic	n No. 17. 33.	23 3/1
₩ъπе ти	u, <u>~~~~</u>	<u> </u>			_USCC/	<del> </del>		** *10. <u>**</u> .	

Depth in F		Thickness		
From	To	in Feet	Color	Type of Material Encountered
				See original well repord.
	_		-	
			<u> </u>	
			, a	
		9.5		
		: .		
			er en er er er er er er er er er er er er er	4.5
<u> </u>				
			: 	
	İ		*	
			· / · · · · · · · · · · · · · · · · · ·	1
·····			~***	
			· · · · · · · · · · · · · · · · · · ·	
<del></del>				
		· .		
				· · · · · · · · · · · · · · · · · · ·
			_	
				· · · · · · · · · · · · · · · · · · ·

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

PHELIPS OMER DE DIRECTOR ANY

#### STATE ENGINEER OFFICE



INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Land Commissioner's Proposed and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and Modern and M

ection :	1				412.0				Southwes	et Da		rospecto	ors No. M29
	Г	Ī	<u> </u>	$\neg$	(A) Owne				D 450	50 10	tash co.		······································
					Street and				Carlsbac			N M	
	ļ <u></u>	-							t No.				
				1					of Section				
	<u> </u>	<del> </del>	_						T. M. The				
# 5-	6-2-	153	5			_			P.O.Box				
		<u> </u>	_ _						Hobbs				
				1									
	<u> </u>				-								19 50
(1	Plat of 6	40 acr	es)		Diming w	as compre	- scu						. 13
evatio	n at top	of c	asing i	a fee	t above sea	level			Total	depth	of well	230	
ate wl	ether v	well i	is shall	o wo	r artesian_				_Depth to	water	upon comp	letion1	37 (report
ction :	2				PRIN	CIPAL WA	ATER-B	EARII	NG STRATA				
	Dept	h in E	eet	Thi	ckness in	· · · · · · · · · · · · · · · · · · ·			ription of Wa				
No.	From		То		Feet			Desc	TTUTOU OF ME	aucr-Be	THE LOLMS	40II	
ı	137		187		50	Terti	arv S	ande	and grav	els			
,		_							BAGY				
3							····		······································			······	
1		+					<del></del>				<del> </del>		
;									<u></u> :	:	<u> </u>		
<u>'                                    </u>	<del></del>			<u> </u>	<u>l</u>					<del>. ,</del>		<u></u>	<del></del>
ction :	3					RECOR	D OF	CASI	NG · ·	-			•
Dîa	Poun		Threa		Dep		Fee	t I	Type Shoe			foretlons	
in.	ft.		in		Top	Bottom					From		То
3 3/8	<u> </u>		No	ew s	eamless		194	8"	Bethleha Texas Pa		94.'2"	193	'4"
						,··	<u> </u>		TOMES THE				<del>- , , , , , , , , , , , , , , , , , , ,</del>
	ļ								, 				· :
	<u> </u>				<u> </u>		<u>.                                    </u>	<u>.</u>		·			
ction 4	Į.				RECORI	OF MUD	DING	ANI	CEMENTIN	G		F	
Depti	ı in Feet	t	Diame	ter	Tons	No. Sa		<del></del>					
From	To	,	Hole in	in.	Clay	Cem	ent			I	viethods Used	•	
								**		- T			
						, F			21	• :			
		T								:			
						21110					-		
tion 5		-				PLUGG		RECC	OKD .				
		_						···			_License I	ło	
	ś						_			<del></del>	_ State	·	
					Tons of Ro	oughage u	ised			Гуре	of roughage	·	<del></del>
	metho										;d		
gging	approv	ed b	у:						Cemènt P	lugs v	vère placed	as follows	s:
								No.	Depth of		No	of Sacks U	Ised
ine openies on		- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	agus Siritais Sir		Basin Supe	rvisor		ļ	From	То	2101		
	FOR T	JSE C	F STAT	Ė ES	GINEER ON	ILY .	No.						
			15.		han 20 -	050	NA COMPANY						
Date ]	Receive	d	De	ecem	ber 29, I	952							
							NEW PROPERTY.						
	,	, .	~ . ~										en grandere i sederamente e
_	L	16	95						_			DE 61	
le No						_Use			Loca	tion l	$N_0$ . 17.33	25.244	-7 <i>‡</i>

### LOG OF WELL

Depth :	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet		Appe of Martin Amediates
0	18			Hard crust top soil, caliche various hardness
18	28			Harder caliche fragments
28	38			Larger caliche fragments
38	50			Caliche and fine sil, approx. 20% brown sand
50	60		·	Fine dry sand, clear red brown particles
60	105			Red, brown and clean sand, few particles
				hard limestone
1.05	110			Fine sil and brown sand-quicksand
110	115			90% small clear & brown sand, trace of lime
115	130			Sil of various size, small brown & clear sa
130	135			Sil and brown and red sand
135	137			Hit water at 137; brown and clear quicksand
137	160		·	Larger particles sil-sand more ponous
160	174			Few large particles brown and clear sill &
				quarts. Small flakes of red compaction sl
174	180			Clear, brown, red and owange sand
180	185			Sand same - few $\frac{1}{2}$ " to 1" and gravel, small
				flakes of red clay
185	190			Red and brownish clay in much larger quanti-
190	200			Molid red bed, sand disappearing fast
200	225			Red bed solid, no sand encountered.
				[S Flev 4093r
				I S Elev
				Elev of KTrc_3903/
				Loc. No
				LOC. NO.
				HAGIO ZILAGA LIGIO RUGOL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

T. M. Theriac	
Well Driller	 
nt English	
SOURCE OF ALTITUDE GIVEN	-
Interpolated from Topo. Sheet 🔀	
Determined by Inst. Leveling	
Other see the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	
_	 

17.33.25.244

STATE ENGINEER OFFICE

# WELL RECORD

Ph1111 tate Lease r well

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1	•			ez circ	Or monton of	tia danta	
<u> </u>	Ţ <u> </u>	<u> </u>	(A) Owner Street and				IM CORP.	
							State Texa	
	<del>                                     </del>							
							and is	
<b> </b>							1676 License	
						ox 637		No. AD
			City	number	H	appa	State Now	Marian
1							ber 21	
	<u> </u>		_				ber 23	
Ö	Plat of 640 ac	res)	. Driming wa	a comple	ecu .		IN W.E. IV.	19-21
							pth of well 210	
State w	hether well	is shallow o	or artesian	ahe.	11ow	Depth to wa	ter upon completion	none
Section	2		PRINC	IPAL WA	TER-BEAF	ING STRATA		
No.	Depth in From	Feet Th	ickness in Feet	• •	De	scription of Water	r-Bearing Formation	
1	None							
2	130410						······································	
-3								
4				· · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
5			· · ·	···············			<u></u>	
<u> </u>		1	- 1					· · · · · · · · · · · · · · · · · · ·
Section	3		· · · · · · · · · · · · · · · · · · ·		D OF CA	SING	<del></del>	
Dia in.	Pounds ft.	Threads in	Top	Bottom	Feet	Type Shoe	Perforatio From	ns To
			<del>  : </del>		-			
	-							-
								·
		· · · · · · · · · · · · · · · · · · ·						
Section 4	4		RECORD	OF MUD	DING A	ID CEMENTING	•	
Depti	h in Feet	Diameter	Tons	No. Sa	cks of		Methods Used	·
From	То	Hole in in.	Clay	Cem	ent		Mediods Osed	
	<u>i</u>			<u>†</u>				
Section (	5			prugg	ING REC	OBD		
		Zontmoston					Y : W-	
	nd Number						License No	
			Tone of Do	unibana in	_ City		State pe of roughage	
						_		
	="			•	<del></del>		igged	
Pruggmg	g approved b	y:			I		gs were placed as fol	lows:
-		THE T	Basin Supe	fvisor	No.	Depth of P	No. of Sac	ks Used
	FOR USE (		NGINEER ON					
	1010000		3 0 1957					
Date :	Received		\	710	_			
		1	OFFICE T	VIEOR		- <del></del>		
			en" mem vickic		<u> </u>			
	, , , , , ,				Marine and the second			
File No	1-37/3	· .		Use . 2	v.P.	Locatio	m No./Z 33 28	-/47

Depth in Feet		Thickness	Color	Type of Material Encountered		
From	То	in Feet	Color	Type of Material Encountered		
o.	7	9		soil		
1	16	1.5	-	caliche		
16	210	3.94		dry sand		
.				-		
	<u>-</u>		· · · · · · · · · · · · · · · · · · ·			
			<del></del>			
				<u> </u>		
i						
			·			
1						
		· · · · · · · · · · · · · · · · · · ·				
			<u> </u>			
	* .					

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Woll Deillor

#### STATE ENGINEER OFFICE



INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

ection 1				(4) 0		RI Da	so Natural G	a Company	
			- 1	Street and	Number	P. O.	Box 1492		
				City El	Paso			State	Texas
			- 1						nd is located in the
									7S Rge. 33E ense No.
							Вож 637		ense No.
				City				State	New Mexico
				Drilling w	as comm	enced			19
	lat of 640 ac			Drilling w	as comple	ted	uly 22, 1958		19.58
		•	n feet	Lahove se	a level		Total de	oth of well	2441
ate wh	ether well	is shall	ow 01	artesian_	Shallow		Depth to wa	ter upon comp	letion 204
ction 2				PRIN	CIPAL WA	TER-BEAR	ING STRATA	-	
	Depth in	Feet	Thi	ckness in		13.	scription of Water	Desting Forms	Hati
No	From	To		Feet			scription of Water	-Dearing Forma	aon
1	185	228		43	Water	Sand			· · · · · · · · · · · · · · · · · · ·
1		and the same with the same of					-		
3			ļ. ,						
4									
j			<u> </u>						
ction 3	} 				RECOR	D OF CA	SING		· .
Dia in.	Pounds ft.	Threa		Top	oth Bottom	Feet	Type Shoe	Pe From	rforations To
5/8	16,	111	·	0	244	244		168	244
ction 4	L	-		RECOR	D OF MUD	DING A	ID CEMENTING	•	
Depth	in Feet	Diame	ter	Tons		cks of -	and the second	. Death and a Trans	
From	То	Hole in	in.	Clay	Cen	ient .	M 7. 71	Methods Used	· · · · · · · · · · · · · · · · · · ·
							<u> </u>		
	<del> </del>	<del> </del>						<u></u>	
		·				· .			
ction 5	-					SING REC	-	•	
me of	Plugging	Contrac	tor			<b>C</b> 14	2. W X	License :	No
									e
	method us								
	approved							gs were placed	·
				Basin Sup	pervisor	N	Depth of P	lue	. of Sacks Used
in a transmission processor as a	EVD TICE	OE Sarih	<u>ئىلىنى</u>	त्र वृष्टिस्तिक	Andrew Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service				A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR
	EUR USE			197210 . <del>4.12899</del> .8	A-144 L				
Date 3	Received _	301770_	AEER	ATE ENGIN	<u>'1S</u>	_			
		I S: 50	44 1	E AAM 1	gŔĮ				An at the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of
				~ = n13	- - -				,
	_			8	. 0	0.	//		29.22222

~	-
Section	3.

### LOG OF WELL

Depth in Feet		Thickness	Color	Type of Material Encountered				
From	То	in Feet	Color					
0	1	1		Soil				
1	18	17		Caliche				
18	80	62		Sand				
80	85	5		Sand rock				
85	125	40	•	Sand				
125	185	60		Tight sand and Rock				
195	228	43		Water, sand				
228	244	16		Sand and Red Clay				
				Commence and many made draw comment attack and professional file (the many manifesting to the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co				
				L S Elev				
				LS Elev				
				Depth to KTrc_394472 Elev-of KTrc394472				
				Loc. No. 17. 33, 29. 222				
			-	Loc. No.				
				Mydro. SurveyFleld Check				
				augu				
			······································	SOURCE OF ALTITUDE GIVEN				
				Interpolated from Topo. Sheet				
				Determined by Inst. Leveling				
			<del></del>	Other				
	ļ <u>.</u>	- <u>-</u>						
		<u> </u>						
			***************************************					
				and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s				
				<u> </u>				

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller	
Men Dimer	

# STATE ENGINEER OFFICE WELL RECORD

		771-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7					
il was drilled i	under Permit l	No		,	and is located	in the:	
a	14 14	14	¼ of Se	ction	Township	Range	N.M.P.?
b. Tract N	ο,	of Map No.		of t	he		
		of Block No					
d. X= the	· · · · · ·	_ feet, Y=		feet,	N.M. Coordinate S	System	Zone Gran
) Drilling Co	ontractor		-			_ License No	
ldress		·		· · · · · · · · · · · · · · · · · · ·			
							Size of holei
evation of land	l surface or _			at y	vell is	ft. Total depth of w	/ell í
ompleted well i	is 🗀 si	atlow 🗀 a	ırtesian.		Depth to water	upon completion of v	yell
		Sec	tion 2. PRIN	CIPAL WAT	ER-BEARING ST	RATA	
Depth in	Feet To	Thickness in Feet	)	Description of	of Water-Bearing F	ormation	Estimated Yield (gallons per minute)
, Floai.	10				· · · · · · · · · · · · · · · · · · ·		
					·····		
	· · · · · · · · · · · · · · · · · · ·		····				
		<u></u>		4 ND00F	AD OF OLONIO		
Diameter	Pounds	Threads		n 3. RECUE in Feet	Length	Type of Shoe	Perforations
(inches)	per foot	per in.	Тор	Bottom	(feet)	1,700 51 51100	From To
	<u> </u>	<u> </u>					
	<u> </u>						<u> </u>
			·	<u> </u>		<u> </u>	
Depth is	n Feet	Secti Hole			ODING AND CEM Cubic Feet	ENTING	
From	То	Diameter	of M	ud	of Cement	Method o	f Placement
						·	
		<u> </u>				_ <u></u>	
			Section	on 5. PLUGO	ING RECORD		
lugging Contra-	ctor					Depth in Fee	1 Cubic Feet
lugging Method ate Well Plugge	i				No.		of Cement
ugging approve					2		
		State Eng	gincer Repres	entative	3		
		<del>-</del>	EOD UND	OF COLUE	ENGINEER ON	~~ <del> </del>	
ate Received	Typed !	5/11/78	FOR USE	OFSTATE	ENGINEER ONL	. т	

Death is	n Feet	Thickness	Section 6, LOG OF HOLE
From	То	in Feet	Color and Type of Material Encountered
0	28		Caliche and gravel
28	223	,	Shale and shells
223	515		Red rock
51.5	533		Anhydrite
		V	L S Elev
			L S Elev
	·····		
	<u>.                                    </u>	<u> </u>	

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from 011 Conservation Commission files at Hobbs, N.M.

Location: 17.33.30.11000

Owner: Continental Oil Co.

MCA Unit, Battery 4 #133

Record of Casing: 10" 21 '

- 21' - 3913'

Rotary

660' FNL - 660' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

Elevation: 4039' DF

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. At the constant of the State Engineer. At the constant of the State Engineer of the State Engineer of the State Engineer of the State Engineer. At the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the c

# STATE ENGINEER OFFICE WELL RECORD

Street or I	well Post Office Ad State	dress					Owne	r's Well INO.	
l was drilled	under Permit	No			an	d is located	in the:		
a,	. ¼ ¼	¼	¼ of Se	ction	Т	ownship	Rar	ige	N.M.P.M
b. Tract N	ło,	of Map No,	**************************************		of the				
		of Block No						<u>,                                    </u>	
	, ,						System		
							License No		
dress									
		•			-				
vation of lan	d surface or _	·			ıt well is_		ft. Total depth	of well	1
mpleted well	is 📮 sl	hallow 🗆 a	irtesian.		Дер	th to water	upon completion	of well	r
		Sec	tion 2. PRIN	CIPAL W	ATER-BI	EARING ST	RATA		
Depth i	n Feet To	Thickness in Feet	;   1	Descriptio	n of Wate	er-Bearing F	ormation		ated Yield per minute)
								<u> </u>	
								<u> </u>	
	<del> </del>	<u> </u>			·····			<u>L.</u>	
Diameter	Pounds	Threads	<del></del>	n 3. REC in Feet	ORDOF	Length	Type of Ch		Perforations
(inches)	per foot	per in.	Тор	Botto	om .	(feet)	Type of She	Fre	om To
			<del> </del>	ļ.:					
				<u> </u>		<u> </u>			
				<u> </u>		<del>,</del>			
· · · · · · · · · · · · · · · · · · ·		Secti	ion 4. RECO					, <u>,</u>	
Depth From	in Feet To	Hole Diameter	Sac of M			Feet ment	Meth	od of Placem	ent .
							:	· · · · · · · · · · · · · · · · · · ·	
								·····	
		<u> </u>	·			•	·		
h	·	<del> </del>	Section	on 5. PLU	GGING I	RECORD			·
	octor						· · · · · · · · · · · · · · · · · · ·	<del> </del>	
	d		<del> </del>			No.	Depth in	Bottom	Cubic Feet of Coment
ite Well Plugg igging approv		<del></del> · · · · · ·	· · · · · · · · · · · · · · · · · · ·		·	- <u>l</u>		· · · · · · · · · · · · · · · · · · ·	
		State Eng	gincer Repres	entative	<del>_</del>	- <u>3</u>		-	
								······································	
·			FOR USE	OF STA	TE ENGI	NEER ONL	Y		
te Received	Typed 5	5/11/78	FOR USE		•		.Y FWL .		ES1

Depth i	n Feet	Thickness	Section 6, EOO OF NOLE
From	То	in Feet	Color and Type of Material Encountered
0	45		Caliche and sand
45	375		Red bed
375	1145		Red bed, red rock
3,3	1175		near beat 200 2000
			· · · · · · · · · · · · · · · · · · ·
			L S Elev
			Depth to KTrc
			L S Elev
7		,	
	<del></del>		
[		]	•
			·
	<u> </u>		
	•	}	
	<del> </del>		
	- ;	-	
		<u> </u>	
		<del></del>	
		-	
	*** · · · · · <u> </u>		
		<del> </del>	

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 17.33.30.12000

Elevation: 4057' DF

Owner: Continental Oil Co.

MCA Unit Battery 4 #134

Record of Casing: 8" - 1185'

Rotary

660' FNL - 1980' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This force should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A country possible when any well is drilled, repaired or deepends when this form is used as a plugging record, only Section 1(a) and Section a need be completed.

# STATE ENGINEER OFFICE WELL RECORD

	Street or Po	vellost Office Ac	ddress				Owner's	Well No.	
ell w	as drilled u	ınder Permit	No	<u> </u>		and is located	in the:		
:	a	1/4 1/2	4 ¼	¼ of Se	ction	Township	Range	·	N.M.P.M.
	b. Tract No	0	of Map No	),	of t	he			
•			of Block No. d in				•	·	<u>,</u>
	d. X≈ the′		_ feet, Y=		feet,	N.M. Coordinate	System		Zone in Grant.
							License No		
dre	58								
llín	g Began		Com	pleted		Type tools		_ Size of ho	olein.
vaŧ	ion of land	surface or _			at v	well is	ft. Total depth o	f well	ft.
grn	leted well i	s 📮 s	hallow 🗀	artesian.	-	Depth to water	upon completion o	f well	ft.
			- ₇		ICIPAL WAT	ER-BEARING ST	'RATA		
F	Depth in rom	. To	Thicknes in Feet	s	Description of	of Water-Bearing F	'ormation		ted Yield per minute)
		·							
-			· · · · · · · · · · · · · · · · · · ·						
		<u></u>			·				
				Section	n 3. RECOR	D OF CASING			
	nneter iches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	From	erforations n To
-					1				
				······································					
	•	· · · · · · · · · · · · · · · · · · ·			<u> </u>	<u> </u>	<u> </u>	-	
					<u> </u>		<u> </u>		
			1			DDING AND CEM	ENTING		
F	Depth in rom	To	Hole Diameter	Sac of M		Cubic Feet of Cement	Method	of Placeme	nt
			ļ ·	<u> </u>					<del></del>
			<u> </u>					4	
			<u> </u>	<u> </u>				. <u>.</u>	
						GING RECORD			
ldre	SS					No.	Depth in F		Cubic Feet
							Тор	Bottom	of Cement
	ng approve					2			
			State En	gineer Repre	sentative	3			
	•	-							
ate 1	Received	Typed	5/11/78	FOR USE	OF STATE	ENGINEER ON	.Y		
ate !	Received	Typed	5/11/78	FOR USE	•	•	.Y FWL		F\$L

			Section 6, LOG OF HOLE					
	Depth in Feet Thickness From To in Feet		Color and Type of Material Encountered					
From	То	- Ді Гесі						
0	30		Caliche					
30	85		Caliche and sand					
85	810		Red bed and red rock					
			,					
-								
			4.70					
		· .	1 S Flev 4072 DF  Depth to K Trc 55  Elev of K Trc 3987					
			Elev of K Trc 3987					
	·							
	<del>                                     </del>							
· · · · · · · · · · · · · · · · · · ·								
****	. (							
	<u> </u>	Section	7. REMARKS AND ADDITIONAL INFORMATION					
		OCCUPANT.	TABILITATE AND ADDITIONAD BY ORGENIUM					

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 17.33.30.14000 Owner: Continental Oil Co. Elevation: 4062' GL

MCA Unit Battery 4 #135 Record of Casing: 10" - 20'

Rotary

1980' FNL - 1980' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office of the State Engineer. A constant one, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepen when this form is used as a plugging record, only Section 1(a) and Section fixed be completed.

# STATE ENGINEER OFFICE WELL RECORD

Street or	Post Office Ad State	ldress					Owner	5 WEII WO	
ll was drilled	d under Permit	No			an	d is located	in the:		
а	_ ¼ ¼	1/4	¼ of S	ection	7	ownship	Rang	ge	N,M,P,M
b. Tract	No,	of Map No.		······································	of the				
c. Lot N Subdi	lo ivision, recorder	of Block No			of the Coun	ty.			
					et, N.M. (	Coordinate :	System		Zone ir
Drilling (	Contractor		· ·				License No	<u>:</u>	
iress		-				······································	· · · · · · · · · · · · · · · · · · ·		
vation of la	nd surface or			:	at well is.		ft. Total depth	of well	f1
npleted wel	_	hallow 🗀 a					upon completion	•	
		Sec	tion 2. PRII	NCIPAL W	ATER-BI	EARING ST	RATA	urenum brissonu essen u vivorum.	
· · · · · · · · · · · · · · · · · · ·	in Feet	Thickness in Feet							ited Yield per minute)
From	To	In reet			scription of Water-Bearing Formation				per minute)
	<del> </del>								
			•						
<u> </u>	<u> </u>	J		··		<del></del>			
Diamatau	Pounds	Throads		on 3. REC	ORD OF		<u> </u>	······································	Perforations
Diameter (inches)	per foot	Threads per in.	Тор		om	Length (feet)	Type of Sho	e Fro	···· ·· ₁
					<u> </u>	<del> </del>			
	· · · · · · · · · · · · · · · · · · ·	Secti	on 4. RECC	ORD OF M	UDDING	AND CEM	ENTING		
Depth From	in Feet To	Hole Diameter		cks And		Feet ment	Metho	d of Placeme	ent
11011	1								· · · · · · · · · · · · · · · · · · ·
		-						· · · · · · · · · · · · · · · · · · ·	
<u> </u>	<u> </u>						·		
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u> </u>		<del></del>		
			Secti	ion 5. PLU	GGING I	RECORD			
ugging Conti	ractor						Depth in	Feet	Cubic Feet
igging Meth	od					No.	Тор	Bottom	of Cement
ite Well Plug						- <u>l</u>		· · · · · · · · · · · · · · · · · · ·	
agging appro			incer Repre	sentative		- 3 4			
ugging appro		State Eng	intoor reopre			L			
ugging appro		State Eng	<u> </u>		TE ENGI	NEER ONL	. У		
ugging appro	Typed	<del></del>	<u> </u>	E OF STA		NEER ONL	Y FWL		FSI

Section	6.	LOG	OF	HOLE

<u></u>	<del></del>	,	Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	To	in Feet	Gold, and Type of Marie Land
0	66_	·	Sand
66	73		Rock
73	96		Sand
96	.160		Réd bed
160	270		Red sand and red bed
270	437		Red bed
437	546		Red bed and shells
546	608_		Red bed and blue shale
608	628		Red bed
628	650	,	Sand
650	791		Red bed, sand, shells, shale
791	806		Lime shells
806	1078		Shale, zed bed
-,			L S Elev
			Depth to K Trc. 96. Elev of K Trc. 3941
			. , ,

### Section 7, REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 17.33.30.31111 Owner: Continental Oil Co.

MCA Unit #197

Record of Casing: 8 5/8" -

- 128' - 3963'

Rotary

2615' FSL - 25' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

Elevation: 4037' DF

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A country one country on the State Engineer. A country of the State Engineer on the state Engineer of the State Engineer. A country of the state Engineer of the State Engineer of the State Engineer. A country of the state Engineer of the state Engineer of the state Engineer of the State Engineer. A country of the state Engineer of the State Engineer of the state Engineer of the State Engineer. A country of the state Engineer of the state Engineer of the State Engineer of the State Engineer. A country of the State Engineer of the State Engineer of the State Engineer of the State Engineer. A country of the State Engineer of the State Engineer of the State Engineer of the State Engineer. A country of the State Engineer of the State Engineer of the State Engineer of the State Engineer. A country of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the State Engineer of the Stat

# STATE ENGINEER OFFICE WELL RECORD

Owner of Street or	well Post Office Ad	dress		1			Owner'	s Well No	
City and	State								
l was drilled	under Permit I	No			and is l	located.	in the:		
a	<u> 4                                   </u>	¼	¼ of Se	ction	Towr	ıship	Rang	e	N.M.P.N
b. Tract l	No	_ of Map No.		ot	the				
	vision, recorded								
d. X≈ the		feet, Y=		fee	t, N.M. Coor	dinate S	System		Zone i
							_ License No		
							· · · · · · · · · · · · · · · · · · ·		
									~
vation of lar				aı			ft, Total depth (		
npleted well	lis ⊑ sh	iallow 🗌 a					upon completion		f
D 41-	:- Voot			CIPAL WA	TER-BEAR	ING ST	RATA		
Depth From	то То	Thickness in Feet		Description	of Water-Be	aring F	ormation		ated Yield per minute)
•									
	:								
								<del></del>	
Diameter	Pounds	Threads	<del> </del>	in Feet	DRD OF CAS		T (0)	. ]	Perforations
(inches)	per foot	per in.	Тор	Bottor	Bottom (fe		feet) Type of Sho		om To
			<del></del>	-			· · · · · · · · · · · · · · · · · · ·		
				<u> </u>			<u> </u>		
							,		
	<u></u>	Secti	on 4. RECO	RD OF MU	JDDING AN	D CEM	ENTING		
	in Feet To	Hole Diameter	Sac of M		Cubic Fee of Cemen	t	Metho	d of Placein	ent
From	10	Blanteter			- Cr Cellion	-			
			-			- 1			
	<u>-</u>			1	<del></del>	一			
	-				· · · · · · · · · · · · · · · · · · ·	-		<u> </u>	<u></u>
		-				-			
			Section	on 5, PLUC	GGING REC	ORD			
	actor				GGING REC	ORD			
dress					GGING REC	ORD No.	Depth in I	rcet Bottom	Cubic Feet of Cument
dress	od				GGING RECO	No.			
dress igging Metho to Well Plugg	od				GGING REC	No.			
dress igging Metho to Well Plugg	od		incer Repre	sentative		No.	Тор		
dress gging Metho to Well Plugg	od ged ved by:		incer Repre	sentative OF STAT	E ENGINEE	No.  1 2 3 4  R ONL	Тор	Bottom	of Cement

	Section	6.	LOG	OF	HOL	E
--	---------	----	-----	----	-----	---

<del> </del>	<u> </u>	,	Section 6. LOG OF HOLE
	in Feet	Thickness in Feet	Color and Type of Material Encountered
From	То	In Feet	
0	98		Caliche and sand
98	145		Sand and gravel
145	1171		Red rock and red bed
	<u></u>		L S Elev 4060
			L S Elev 4060  Depth to K Trc 143  Elev of K Trc 3915
	,		
***			
	•		
-		:	
		L	

### Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 17.33.30.42000

Elevation: 4060' DF

Owner: Cities Service Co.

S. M. G. S. A. Unit Tract 1 #2
Record of Casing: 8 5/8" - 1199

Rotary

1980' FSL - 660' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole,

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. Almost ons, except Section 5, shall be answered as completely and accurate possible when any well is of the State Engineer. Al sons, except Section 5, shall be answered as completely and accurate possible when an drilled, repaired or deepend when this form is used as a plugging record, only Section 1(a) and Section need be completed. possible when any well is

# FIELD ENGR. LOG

### STATE ENGINEER OFFICE

### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

<u> </u>			(4) 0	on of 17	TLE 20 2 A 2	0 1/0 1 Language	13m47733 MA	
		1	Street and	er or well.	PO BY	o saltermor c 1204	Drilling CO.	<del></del>
			1	i ivunider. Žossa _s				Texas
		<del></del>						d is located in the
1								Rge. 33 E
[		<u> </u>	(B) Deiti	ing Contr	actor Ca	0. Aldredge	G—n,≰vp w v	nse No.W D 79
			City Lo	ington		**************************************	State N	sw Mexico.
				vas comm	enced	Dec. 20		1959
j								19.60
(P	lat of 640 a	acres)	,					
levation	at top of	f casing i	n feet above se	a leveL		Total de	pth of well	226
tate wh	ether wel	ll is shalla	ow or artesian	Shallow	? 	Depth to wa	ter upon comple	etion I60 Ft
ection 2			PRIN	CIPAL W	ATER-BEAR	ING STRATA		
	Depth is	n Feet	Thickness in	<u> </u>	Do	scription of Water	r-Bearing Formation	***
No.	From	To	Feet			scription or water	r-Dearing rounded	
1	170	180	10	Bress	m water	e e e e e e e e e e e e e e e e e e e	,	· · · · · · · · · · · · · · · · · · ·
2==	183	200	17			sand & grave	1	
3			40.)	24.08	100 TAGE FAST	V Sick	Out .	
4			· · · · · · · · · · · · · · · · · · ·		······································			
5					:			
<u> </u>			<u> </u>	<u> </u>		<u>.                                    </u>		
ection 3	<u> </u>			RECOR	D OF CA	SING		
Dia	Pounds	Threa	ius 1	pth	Feet	Type Shoe		orations
in,	ft.	in	Top	Bottom	ļ		From	То
65/8	Welded	l Ri	ANE .	222	555	Nona	I76	222
		<u> </u>						ļ
				<u> </u>		<del> </del>		<u> </u>
	ļ. '		l .	<u> </u>	<u>.</u>		<u> </u>	<u>.j</u>
ection 4	Ļ		RECOR	D OF MUI	DDING AN	ID CEMENTING		
Depth	in Feet	Diame	I	1	cks of	-	Methods Used	<u>'</u>
From	То	Hole in	in. Clay	Cen	nent	6sacks of a		in bols while
		i.				well was be	eing drilled	
		•				· · · · · · · · · · · · · · · · · · ·		
	<u>i                                      </u>	1		1	ł			
ection 5				DI LIGA	SING REC	OBD .		
							•	O,
								···
							pe of roughage	
	approved	l by:			-	Cement Plu	gs were placed a	s follows:
ugging	. 79	<del></del>	Best- 6-		No	Depth of P	No. 0	of Sacks Used
iugging	<del></del>					From 1. '.		
lugging		A.	174 14 1 1-119-71		£			i
lugging	FOR USI	E OF STAT	THE ENGINEER C	NLY				
		e of stat LLICE	omilia Personemon O Vijancemon O Vijancemon	NLY	ant second			,
	FOR USI	e of stat 2014	O ABWINESSIO	TATE.				
		e of stat LLICE	O ABENENS Latinglinesso	TATE.	annien system (system)			
Plugging		sed	Basin Suj	pervisor Ut	Townson I	Cement Plu	gged gs were placed a	s follows:

LOG OF WELL

	in Feet	Thickness in Feet	Color	Type of Material Encountered
From	То			
0	. 2	2	Brown	soil
2	30	28	White	Galchie rock
30	70	40	Brown	sand
70	<u>T</u> )4Q	70	Red	sand
ILO	150	IO	White ·	Caliche
<b>I</b> 50	<b>I</b> 52	2	Red	Sandx Shale
I52	T70:	т8	Red.	Sand
170	170 180	I0	Brown	water sand
180	189	3	Red	shale
183	200	17	Brown	water sand &gravel
200	222	22	Red	Shale & sand rock
222	226	4	Red	Red bed
222		4	nou.	
·	ļ	<del> </del>		
		<u> </u>		
				L S Elev4/22
				Depth to K Tre 222x
				Elev of K Trc 3900/2
		1		
				17.33-35-32/42
	-	· · · · · · · · · · · · · · · · · · ·		
		7.		Loc. No.
	<del> </del>	<del> </del>	<u> </u>	Hydro, Survey Field Check ×
	<del> </del>	\		
<del></del>				
		<u> </u>		SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet
			L	
	_			Other Covening
	-	1		V31151
	1	1 .	<u> </u>	

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

G.O. aldredge

L-4363

17. 33.35.321

#### STATE ENGINEER OFFICE



# WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

ection	1	111 0110			-	gjir c	II ocheonet	405	
							OF 3167		
			1						TEN RETTOO
	_								is located in the
									Rge go g
			1						se No.
							.0. 79% 637		
									eu Hertog
	6	,							19
	"		Delli	ing w	oferene as	tod	organ was	在的护鬼牙 成	19.83
(	Plat of 640 ac	res)	17171	nig w	as comple		······		10
Clevatio	on at top of	casing i	n feet abo	ve se	a level	<del> </del>	Total dep	th of well	<i>733</i>
State w	hether well	is shall	ow or arti	esian	oha!	100	Depth to wat	er upon complet	ion <i>150</i>
Section					CIPAL WA	(IEK-DEAN	ING STRATA		
No.	Depth in	Feet To	Thicknes Feet	sin		De	scription of Water-	Bearing Formation	ı
	From								
1	100	230	50		ucts	r cand	-		
_2									
3									
4									
5	<del>                                     </del>		<del></del>						
Section	3		1,		RECOR	D OF CA	SING		
Dia	Pounds	Threa	ıds	Dej	pth		m Sh	Perfo	rations
in.	ft.	in		op	Bottom	Feet	Type Shoe	From	То
7	20	ž.	0	Û	ess	25.5	opera	150	233
							* • • • • •		
							1	**	
Section	4		R	ECOR	D OF MUE	DING A	ND CEMENTING		
		Diame		l'ons	No. Sa		······································		
From	th in Feet	Hole in		Clay	Cem	ent ;		Methods Used	
		-				I `	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	-	
							- :	······································	
		<del> </del>							
		-							
<del> </del>	_!	1			1	<u> </u>			
Section	5				PLUGG	ING REC	ORD		
		Contrac	tor					License No.	
Street 4	and Number					City		State	
	_								19
-	g method us g approved						•	s were placed as	
. ruggm	R abbrosed	ыy.				r <del></del>		···	1040W3.
-			Ran	in Sur	ervisor	N	Depth of Pl	l No.of	Sacks Used
arii inii lektrista kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada	SANTON CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE			and the second second	ra en Subratablishi interna Africa	<b>-</b>   -	1		***************************************
	FOR USE	of Sta	re encin	ener o	NLY	]		.	
	7;		oiozoioz Encinee	JI AI	2 /		<u> </u>		
Date	Meceived					- 1_			
	2	io :8 Wi	11891	i E91	61	L.			
		569	4			20 4.1	D 7	×- /- >> '	<b>હ</b> 5

OUD- &

### Section 6

### LOG OF WELL

Depth i	n Feet To	Thickness in Feet	Color	Type of Material Encountered
a		*		soll
ź	18	19		eeliohe
10	180	132		sond
150	200	80		Geser sand
280	222	3		eandy olsy
		,		
<u> </u>				
				·
		1		
			<del> </del>	
٠.			<del></del>	
				-
<u>.</u>				
	····			
			.,	
			<u>,</u>	
			-	
				,
		-		
ļ		1 1		- '

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

#### STATE ENGINEER OFFICE

TATELL	ロピクへひひ
WELL	RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1			/A) Oums	er of well	acina		Darrosi	
	<u> </u>							
			City		liota.	7. 72.	State _	
			Well was	drilled un	der Pern	nit No. 2-5	096 an	d is located in the
	1.9							Rge.
	1 - 36	( 位 1 1 使数 ()						ense No.
} `	280	754				od for ca		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	241	FEP	City		#			FRE SENLED
1	# 1		Drilling v	vas comm	enced	rerob is		19
	1	ř 1, 1,	Drilling w				surce la	19 👯
_	lat of 640 a	100	_		₹ 1-		of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of	233
Elevation	n at top of	casing i	n feet above se	a level	ATEX.	Total_de	Pur, or, work	
State wh	ether wel	l is shall	ow or artesian			4.	iter üpon compl	etion ***
Section 2				ICIPAL WA	TER-BEAR	ING STRATA	hijk sin at	
No.	Depth in	To	Thickness in Feet	, , ,	De	scription of Wate	r-Bearing Formati	on
1	150	0.30	* 00	3010	p none		77	
_2								
3 .	.	• •		. :				•
4					rie.			
5				٧	<del> </del>	, , , , , , , , , , , , , , , , , , ,	A.Y	***************************************
Section 3	<del></del>			RECOR	D OF CA	sing 3		
Dia	Pounds	Threa		pth	Feet	Type Shoe	4	Corations
in.	ft. 20	in		Bottom	220	and the second	From	To 23
	* L*		, , , ,	for the	#20·	chag	A CO	######################################
	ļ	_	:		<u> </u>			
	<u> </u>	<u> </u>				· · · · · · · · · · · · · · · · · · ·		
	<u> </u>	<u> </u>	. 1	1		<u> </u>	1	<u> </u>
Section 4	4		RECOR	D OF MUL	DING A	ND CEMENTING		
Deptl From	n in Feet	Diame Hole in	<b>I</b>	No. Sa Cem			Methods Used	······································
<del></del>	1	- <del> </del>		<del>-  </del>				
	-	<u> </u>						
						1 12 1 1 1 1 1	<del> </del>	
	- <del>  -</del>			_	·	.363	<del></del>	<del></del>
C45 E		·		PI 11C-6	SING REC			·
Section 5	, Plugging	Contro	ton	11000	ANO KEC	- F	Tiaongo N	O
			ĮOI		City			
							*	
	method i		TOIS OF I	ougnage c	1350		ugged	
-	-			· · · · · · · · · · · · · · · · · · ·			igs were placed :	
Flugging	approved	by:		-		Depth of 1		as follows.
		wy control with a second	Basin Su _l	ervisor	N	D.	To No.	of Sacks Used
	for usi	H SIA	TOTAL PREMIGNEER O	NLY	<b>I</b>			
T	701.	ומנבת ען נונד דד	ana arata ITSM					<del></del>
Date :	Received		3/11-2-15-3-4()		-    _	<u> </u>	·	
	90 :	3 MA 11	1 A9A E881		<u> </u>			
965) 1			-					
File No	1	505°	· · · · ·	_Use	8: W	Locati	on No. /233	35,93 332

OWD-OK

### LOG OF WELL

Depth :	in Feet	Thickness	G-1:-	There of Make -1 The					
From	То	in Feet	Color	Type of Material Encountered					
0	1 78	1		est?					
34	10	<i>17</i>		esitaha					
10	250	123		Đ-37½					
150	220	80		va tap gand					
130	233	<i>a</i>		early also					
`~	**************************************		THE REPORT OF THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PERSON AND THE PER	TO AND THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF					
		,		41201					
· <del>-</del> · · · · ·				L S Elev 4/12 0/ Depth to K 1r 233 / Elev of K 1r 238 8 7/					
				Elev of K Trc 3887/					
				Loc. No. 17.33.35, 43332					
				Hydro. SurveyField CheckX					
				nyuto. dairoj					
				DOUDDE OF ALTITUDE (WED)					
			<del></del>	SOURCE OF ALTITUDE GIVEN					
				Interpolated from Topo. Sheet					
				Determined by Inst. Leveling					
				Other					
	,								
				, , , , , , , , , , , , , , , , , , ,					
		<del>_</del> _	···						
			-						

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Wall Driller

# SECTION

TOWNSHIP 185

RANGE 32E

### STATE ENGINEER OFFICE WELL RECORD



A) Owner of	well B.	S. Frizze	11	20			Owner	's Well No		<del></del>
	D . F. CC	ddress P.O.	BOX IV	10 5 88	240			-		
/ell was drilled	under Permit	No. CP-	566		and	l is located	l in the:			
c. Lot No Subdiv	o vision, recorde	of Block No. L	13 ea	0	f the Count	Chap y.	parel	· -		
		feet, Y=			t, N.M. C	oordinate	System			Zone in Grant.
3) Drilling C	Contractor	Abbott B	ros.				License No	WD-46		· · · · · · · · · · · · · · · · · · ·
ddress P.	O. Box	637. <u>Но</u> ъъ	s, New	Mexic	o 8	8240				
rilling Began .	6/1/7	Compl	eted	6/3	/77 _{Ty}	pe tools_	Cable	Size of	hole_	8 <u>월</u> in.
evation of lar	nd susface or _			at	t well is		ft, Total depth	of well	133	ft.
ompleted well	tis 🖾 s	hallow 🗀 ar	tesian.		Dep	th to wate:	r upon completion	of well	65	ft.
		Secti	on 2. PRIN	CIPAL WA	TER-BE	ARING S	ГКАТА			<u> </u>
Depth : From	in Feet To	Thickness in Feet	I	Description	ı of Wate	r-Bearing l	⁷ олпation		mated Y ns per n	Yield ninute)
65	133	68		Sand						
			<u> </u>							
		}	<del>                                     </del>							
		<u> </u>								
Diameter	Pounds	Threads	Depth	n 3. RECC in Fect		Length	Tuna of the		Perfor	ations
(inches)	per foot	per in.	Тор	Bottor	n	(feet)	Type of Sho	F	rom	То
6 5/8	21	Welded	0	133		133	None _	- }-&	5	133
			, <u>-</u>							
		Section	n 4. RECOI	RD OF MU			ENTING			
Depth From	in Feet To	Hole Diameter	Sack of Mi	s ad	Cubic of Cen		Metho	d of Placer	nent	<u> 111-71</u>
				İ		-	Cement a	t top		
····			Section	n 5. PLUG	GING R	ECORD				
ugging Contra	actor									
ddress ugging Metho	•			w		No.	Depth in I	eet Bottom		bic Feet Cement
ate Well Plugg ugging approv	•				, <u></u>	1				
~₽Զում <b>Զ ց</b> իհել _Օ ,	———	State Engir	ieer Represe	ntative		. 3				
		Actio Digit				<u>4</u>			.L	<del></del>
ate Received	June 1	3, 1977	FOR USE							
							FWL			
File No		·					FWL Location No. <u>18</u>			

Section 6. LOG OF HOLE Depth in Feet Thickness Color and Type of Material Encountered in Feet From ·.. 2 0 2 Surface soil 2 26 24 Caliche 59 65 Sand-tight 91 26 65 Sand-water 16 91 107 Sand-tight 107 129 22 Sand-water 129 133 4 Sandy clay STA

The undersigned here by certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbatt.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office of the State Engineer. A constant in the state of the State Engineer. A constant in the state of the State Engineer. A constant in the state of the state Engineer. A constant in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state



# STATE ENGINEER OFFICE WELL RECORD

Street or	Post Office A	irgil Lin ddress Z Fay Robbs	e L. K	lein.	P.O.	Box 150	Owne	r's Well No	
•		t No. CP-							
							185 Rar	32K	
c. Lot No Subdit	o	of Block No ed inLe	a		of the Cou	nty.			* *
							System		Zone in
the		·			-				S Grant.
B) Drilling (	Contractor	Abbott Br	os. Dr	illin	g	· · · · · · · · · · · · · · · · · · ·	License No	WD-46	\$5
ddress	P.O. Bo	x 637, Ho	bbs, N	lew Me	xíco	88240			<u> </u>
rilling Began .	7/17/9	2 Comp	Jeted E	3/7/92	1	ype tools	Cable	Size of h	ele <u>10</u> in.
levation of lar	nd surface or .				at well is	i	ft. Total depth	of well 52	24 ' ft.
ompleted wel		shallow 🗆 a					upon completion		
Ciaptotod aci						EARING ST			
Depth	in Feet	Thickness	.10R Z. FRI		•				ated Yield
From	То	in Feet	-	Descripti	юп от жа	ter-Bearing F	Omation	(gallons	per minute)
460	517	57	Sa	ınd					
	<u> </u>	<u> </u>	Sect	ion 3 RFI	CORDO	CASING			
Diameter	Pounds	Threads		h in Feet		Length	Type of Sho	ne I	erforations
(inches)	per foot	per in.	Тор	Bott	Bottom (feet)		Fro		
9 5/8	33	Welded	0	125		125		No	ne
5½	15	Welded	0	527		527		459	524
		Section	on 4. REC	ORD OF	MUDDIN	G AND CEM	ENTING		
Depth From	in Feet To	Hole Diameter		cks Mud		c Feet ement	Metho	od of Placeme	ent
									,
					<del> </del>				
i					+				
			1						
					.l				
	NATIONAL PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PRO		Sect	tion 5, PLI	DGGING	RECORD			
					DGGING	RECORD		<b>D</b>	
ddress			····		DGGING	RECORD	Depth in	Feet Bottom	Cubic Feet
ddress lugging Metho late Well Plugs	od				UGGING	No.			
ddress lugging Metho Date Well Plugs	od					No. 1 2 3			
Address Plugging Metho Date Well Plugg	od		neer Repr	esentative		No.  1 2 3 4	Top		
Address lugging Metho	ged yed by:	State Engi	neer Repr	esentative		No. 1 2 3	Top		
Address Plugging Metho Date Well Plugg Plugging appro	ged yed by:		neer Repr	esentative	ATE ENG	No.  1 2 3 4  INEER ONL	Top	Bottom	of Cement

			Section 6. LOG OF HOLE			
	Depth in Feet Thickness in Feet		Color and Type of Material Encountered			
From	То	in reet				
0	6	6	Top soil			
6	21	15	Caliche			
21	94	73	Red and brown clay			
94	100	6	Grey sand (Water cased off with 9 5/8" pipe)			
100	402	302	Red bed with brown & blue streaks			
402	456	54	Red clay			
456	460	4	Brown clay			
460	489	29	Sand W/clay streaks (WATER)			
489	493	4	Red clay			
493	517	24	Sand W/clay streaks			
517	524	7	Red Bed			
		{				
***************************************						
	<u> </u>					
<del></del>		<u> </u>				
		<u> </u>				
	1	1	₽.			

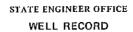
Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abhotts
Driller J.B.

INSTAUCTIONS: This foin should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer executions, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deal when this form is used as a plugging record, only Section 1(a) and Section 2 d be completed.





Street or		Carl	shad Hwy		.ne	Owne	r s well No		
City and	Post Office Ad State	Idress Hobb	s, NM 88	240					
Vell was drilled	l under Permit	No	Cp672		_ and is located	in the:		•	
	1/ 1/	SE 12 S	SE Mofee	ation 7	Township	18S Ran	32E	NMPI	
					_		_		
c. Lot No Subdiv	a vision, recorder	of Block No d in	Lea	of the	county.	······································	<del></del>		
						System			
a) Drilling C	Contractor		Larry's l	Drilling		License No	WD882		
ddress			2601 W.B	ender, Hob	bs,NM 8824	0			
						tricone			
		_							
levation of lan	nd surface or			at we	□ is	ft. Total depth	of well_54U_	f	
ompleted well	lis 🛣 s!	hallow 🗀 a	ırtesian,		Depth to water	upon completion	of well	<u>460</u> f	
		Sec	tion 2, PRIN	CIPAL WATE	R-BEARING ST	TRATA			
Depth i		Thickness in Feet	I	Description of	Water-Bearing I	ormation	Estimated Yield (gallons per minute)		
From	To								
498	510	12		clay & gra	vel, small	amt. of san	d 12		
	<u> </u>	<u> </u>							
	Pounds	Threads		n 3. RECORD	Length		Pe	rforations	
Diameter 1	nches) per foot per in, Top Bottom		Bottom	(feet)	Type of Sho	е	From To		
Diameter (inches)	•								
	per foot 160PVC		-1	540	541	Ì	480	540	
(inches)	•			540	341		480	540	
(inches)	•			540	341		480	540	
(inches)	•			540	341		480	540	
(inches) 65/8	160PVC		-1	RD OF MUDD	ING AND CEM	ENTING	480	540	
(inches) 65/8 Depth	160PVC		-1 on 4. RECOF	RD OF MUDD					
(inches) 65/8	160PVC	Section Hole	-1 on 4, RECOF	RD OF MUDD	ING AND CEM				
(inches) 65/8 Depth	160PVC	Section Hole	-1 on 4, RECOF	RD OF MUDD	ING AND CEM				
(inches) 65/8 Depth	160PVC	Section Hole	-1 on 4, RECOF	RD OF MUDD	ING AND CEM				
(inches) 65/8 Depth	160PVC	Section Hole	-1 on 4, RECOF	RD OF MUDD	ING AND CEM				
(inches) 65/8 Depth	160PVC	Section Hole	-1 on 4, RECOF	RD OF MUDD is Co aid of	ING AND CEM				
Depth From	160PVC in Feet To	Secti Hole Diameter	on 4, RECOI	RD OF MUDD is Co	ING AND CEM				
Depth From	160PVC in Feet To	Section Hole Diameter	on 4, RECON	RD OF MUDD is Cr id of	ING AND CEM Libic Feet Cement	Metho	d of Placemen	t	
Depth From ugging Contraddress ugging Metho	160PVC in Feet To	Secti Hole Diameter	on 4, RECOF	RD OF MUDD  S Co  and of	ING AND CEM Libic Feet Cement  GRECORD  No.		d of Placemen		
Depth From lugging Contra ddress lugging Metho ate Well Plugg	160PVC in Feet To actord	Secti Hole Diameter	on 4, RECOF	RD OF MUDD  S Co  and of	ING AND CEM Libic Feet Cement  Cement  No.	Metho	d of Placemen	t Cubic Feet	
Depth From ugging Contraddress ugging Metho	160PVC in Feet To actord	Sectic Hole Diameter	on 4. RECON	RD OF MUDD S Coud of	ING AND CEM Libic Feet Cement  RG RECORD  No. 1 2 3	Metho	d of Placemen	t Cubic Feet	
Depth From ugging Contraddress ugging Metho	160PVC in Feet To actord	Sectic Hole Diameter	on 4, RECOF	RD OF MUDD S Coud of	ING AND CEM Libic Feet Cement  IG RECORD  No.  1 2	Metho	d of Placemen	t Cubic Feet	
Depth From  ddress ugging Metho ate Well Plugging approv	in Feet To  actor d ged red by:	Sective Hole Diameter	on 4, RECOI Sack of Mu Section	RD OF MUDD IS Crud of	ING AND CEM Libic Feet Cement  RG RECORD  No. 1 2 3	Depth in l	d of Placemen	t Cubic Feet	
Depth From dugging Contra	in Feet To  actor d ged red by:	Sectic Hole Diameter	on 4, RECOI Sack of Mu Section	RD OF MUDD  S Could of old of old old old old old old old old old old	ING AND CEM Libic Feet Cement  IG RECORD  No.  1 2 3 4  IGINEER ONL	Depth in l	d of Placemen	t Cubic Feet of Cement	

Depth in	Feet	Thickness	
From	То	in Feet	Color and Type of Material Encountered
0	6	6	blovnesd
6	12	6	gray & white send
12	16	4	soft caliche
16	64	48	brown alsy
64	150	86	red eleg
130	120	70	breva eley
220	498	278	red clay with stricks of brown & gray clay
498	510	12	seell gravel, brove clay
520	082	30	bresn & red eley
- 1			
	<del></del>		
		<u> </u>	· •
	]		
	-		

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This formula be executed in triplicate, preferably typewritten, and submit of the State Engineer. As ons, except Section 5, shall be answered as completely and accidentialled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 1.

appropriate district office possible when any well is need be completed.

			STATE ENGINEER OFFICE WELL RECORD								
(A) Owner of Street or City and	well Di Post Office Ad State	lly Wi siss malgan	Section 1.	~			N Owne	r's Well No.	TH	<u>#</u> /	
	i under Permit i										
a. 5E	4 5W 4	NE 4 M	¼ of Sec	tion	<i>/6</i> _ 1	'ownship.	185 Rai	nge _ 32	E	_N,M,P,M,	
b. Tract	No	of Map No.			of the						
c. Lot N Subdi	o	of Block No I in	L-100-1-11		of the Coun	ty.					
		_ feet, Y=		fe	et, N.M. C	Coordinate	System			Zone in Grant.	
(B) Drilling (	Contractor	Lary -	Felk	ins			License No		_		
Address	Hobbs	1, 2, 5	22,								
Drilling Began	9/3/91	Comp	leted _9/3	/91	Ту	pe tools 4	Rolany	Size of	ی نے hole	5/4 in.	
							ft. Total depth				
Completed wel		nallow 🔲 ar					er upon completion		_		
			ion 2. PRINC	CIPAL W	ATER-BE	ARING S	STRATA	T =		<del></del>	
From	Depth in Feet Thickness in Feet			Description of Water-Bearing For				rmation Estimated Yiel rmation (gallons per min			
_					•						
					•		<u> </u>				
							r. 1 · 11. · 10 · 10 · 10 · 10 · 10 · 10				
L	<u> </u>	L	Sastina	. 2 DEC	ORD OF	CASING		J			
Diameter	Pounds	Threads	Depth i		-	Length	Type of Sho	ne	Perfor	ations	
(inches)	per foot	per in.	Тор	Botto	m	(feet)	1,700 01 011	Fr	om	То	
		Section	on 4, RECOF	RD OF M	UDDING	AND CE	MENTING				
Depth From	Depth in Feet Hole From To Diameter				Sacks Cubic Feet of Mud of Cement			Method of Placement			
11011				of wad of Cent							
					~						
							<del></del>				
	*	<u> </u>	<u> </u>					·····			
Plugging Cont-	actor		Section	n 5. PLU	gging r	ECORD					
Address	actor					- No.	Depth in			bic Feet	
Plugging Method Date Well Plug						-   10.	Тор	Bottom	of	Cement	
Plugging appro	-					- 3					
	_	State Engi	neer Represe	ntative	,	4	1		· ·		
<del></del>	·							······································			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL ____ FSL____

File No. None Use EXP Location No 18.32.16, 223433

			• Section 6, LOG OF HOLE
Depth	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	Color and Type of Material Encountered
0	20	20	Sand
20	36	16	Sand - Some gravel, sed clay  Ned clay and sand
36	42	4	sand, some gravel, red clay
42	70	28	red clay and sand
70	79	9	red clay, some gronel
79	85	6	red clay and sand red clay, some grown
85	94	9	sand and grand
94	100	6	Sand and grand
Market and the second of			
<u></u>			
	-		
	***************************************		
			~~~

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All so, except Section 5, shall be answered as completely and accurately ssible when any well is drilled, repaired or deepened this form is used as a plugging record, only Section 1(a) and Section be completed.

Driller





STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

	f wellT Post Office Ad State	dress c/o Box 692	Glenn's Tatum,	New Mer	xico	Servi 88267	ce, Inc.		0	
'elt was drilled	d under Permit	No. CP	-677		and	is located	l in the:			
a	_ ¼ W½ ¼	<u>NW</u> %_	NW ¼ of S	ection 26	То	wnship 🛚	18-S. R	inge32	E_E	N.M.P.N
b. Tract	No	_ of Map No.		of	the					
	ovision, recorded									<u></u>
							System			
) Drilling C	Contractor Gl	aW a¹nne	ter Wel	l Servi	ice		License No	WD 4	21	·
ldress Bo	х 692 Та	atum, Ne	w Mexic	0 88267	7					
							Rotary			
vation of la	nd surface or _			at	well is		ft. Total dept	h of well	700	f
inpleted wel	lis 🗓 sh	allow 🗀 a	rtesian.		Depth	to water	r upon completio	n of well _		f1
Depth	in Feet		·	ICIPAL WA	TER-BEA	RING ST	TRATA	I7-4	timated Yi	
From	To	Thickness in Feet		Description	of Water-	Bearing F	Formation		ons per min	
			I	ry Hole	·····	<u>-</u>				-
										• • • • • • • • • • • • • • • • • • • •
					,	···				
			Section	n 3. RECOI	RD OF CA	ASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom		ength feet)	Type of Sh	O-E	Perforat From	ions To
,										
					-					
	<u> </u>	Section	on 4. RECO	RD OF MUI	DDING A	ND CEM	ENTING	1		
Depth From	in Feet To	Hole Diameter	Sac of M	ks	Cubic Fe	eet		od of Place	ement	
		s pluged	 					•		•
	WCII WAS	pragea	W.C. 011 C	and and	мии				······	
				-			<u> </u>			
			Section	on 5. PLUGO	GING REG	CORD				
	actor					No.	Depth in	Feet	Cubi	Feet
	d ed					1	Тор	Bottom	of C	ement
igging approv	ved by:					2 3				
		State Engi	ineer Ropres	entative		4				
			FOR USE	OF STATE	ENGINE	ER ONL	Y			
.ta D'	Morr 15	1095								
ite Received	May 15,	1985		Qu	ıad		FWL .		FSL	

Depth	in Feet	Thickness	Section 6. LOG OF HOLE
From	То	in Feet	Color and Type of Material Encountered
.0	12	12	sand-loose
12	24	12	clay
24	47	23	caleche
47	58	11	sand
-58	84	26	sandy clay
_84	102	18	red clay sticky
102	116_	14-1-	sand and gravel
116	L/IZ	26	red clay sticky
142	315	173	brown clay
315	325	10	purple clay
325	378	53	red clay
_378	408	30	pink red clay
408	440	32	brown shale and blue streaks
<u>44</u> 0	500	60	brown shale-grainey
500	530	30	sand rock -fine
530	545	15	brown shale
545	605	60	sand rock-medium
_605	_616	11	brown shale
-616	675	59	sand rock
-675	700	25	red shale
	p	<u> </u>	
	· · · · · · · · · · · · · · · · · · ·	-	

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: 10 should be executed in triplicate, preferably typewritten, and su sections, except Section 5, shall be answered as completely and of the State Enginee drilled, repaired or deep and. When this form is used as a plugging record, only Section 1(a) and

the appropriate district office ely as possible when any well is ion 5 need be completed.

Driller





STATE ENGINEER OFFICE WELL RECORD

Section 1, GENERAL INFORMATION

A) Owner of	well		Corpora				0	wner's Wel	l No	
Street or	Post Office A	לכל ב dress	East Pir	ma St.						
City and	State	10050	п, А	55/12						
Vell was drilled	l under Permit	No. 0-1	3-0D2		an	d is located	l in the:			
		4 NW 14 NW						D	32 E	NMDM
										IN ,IVI ,I' ,IVI ,
b. Tract	No	of Map No			of the					
		of Block No								
Subdit	viston, recorde	d in			Coun	ty.				
		_ feet, Y=			et, N.M. (Coordinate				Zone in Grant.
3) Drilling C	Contractor	Boyles Br	05.				License No	o		
		1624 Pione		d, Salt	Lake (ity, U	ah 84104	·		
rilling Began .	May 31, 1	977 Compl	eted	22, 1	977 Ty	pe tools		Si	ze of hole_	in.
									201	^
levation of lar	nd surface or _			i	ii weii is		II. 10tar 0	eptn oi wei	1	1t,
ompleted well	lis 🗀 s	hallow 🗀 ar	tesian.		Dep	th to wate:	upon comple	tion of wel	1	ft.
		Secti	on 2. PRIN	ICIPAL W	ATER-BE	ARING 5	ΓRATA			
Depth	in Feet	Thickness	1						Estimated	
From	То	in Feet		Descriptio	n of Wate	r-Bearing 1	rormation	(g	allons per	minute)
274			TF	RC						
575			TF	RS						
			Section	on 3. REC	ORD OF	CASING				
Diamoter	Pounds	Threads	Depth	in Feet		Length	Type of	Shoe	Perfo	rations
(inches)	per foot	per in.	Top	Botto	m	(feet)	From To			
7			0	20						
41/2	9½		0	1199	5					
12			<u>-</u>							
	·						l <u>.</u>			
		Sectio	n 4. RECO	RD OF M			ENTING			
Depth From	in Feet To	Hole Diameter	Sac of M		Cubic of Cer		М	ethod of P	Iacement	
1105		E 7/0			10		Displac			· <u>·</u> ·
1195		5 7/8			- 10	<u>'</u>	DISPIAC	ement		
			·							
Х										
	_			on 5, PLU	GGING R	ECORD				
		oyles Bros. 624 Pioneer		it lake	City	`lt r				
DD =		acement	Nu, Je	IL LONG	5 01 Ly 1	No.	Top	in Feet Botto		ubic Feet f Cement
idress	a Displ			<u></u>			0	2040	,,,, ,	165
idress ugging Metho		22, 1977	/ _	/ /		2				
ddress ugging Metho ate Well Plugg	ed June	1	1	7						
ddress ugging Metho ite Well Plugg	ed June	mus It	leer Repre	entative		- 3				
ddress ugging Metho ate Well Plugg	ed June	1	ton X neer Kepre	entative						
ddress ugging Metho ate Well Plugg ugging approv	ged June	nun State Engir	0		'E ENGIN	- 3	Y			
ddress ugging Metho ate Well Plugg ugging approv	ed June	nun State Engir	0	OF STAT		3 4 IEER ONL		П.	FSI	
ugging Contra ddress ugging Metho ate Well Plugg ugging approv	July 20,	nun State Engir	0	OF STAT		3 4 IEER ONL	Y FW			

Depth i	n Feet	Thickness	Section 6. LOG OF HOLE
rom	То	in Feet	Color and Type of Material Encountered
1			
	•	}	
Ì		}	
		 	
		i l	
		j	
}			
}			
1			
	·····		
-			
-			
		-	

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This for hould be executed in triplicate, preferably typewritten, and submitted appropriate district office of the State Engineer. A tions, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepen. When this form is used as a plugging record, only Section 1(a) and Section sheed be completed.

SECTION

TOWNSHIP 185

RANGE 33E

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of Street or	well Oxy U	SA Inc.	3ox 5625	0			Ow	ner's Well A	ło	
•	State Midla	•								
Well was drilled			-	•						
â	_ ¼ ¼	14_9	W_ 14 of Se	ction <u>4</u>	To	qidznwo	_18S I	Range	33E	_N,M,P,M,
b. Tract	No	of Map No	•	of	the					
c. Lot No Subdiv	o vision, recorded	of Block No I in		of	the _ Count	у.				
					i, N.M. C	oordinate S				
(B) Drilling C	Contractor D	ubose Dr	illing	Inc.			_ License No.	WD-1	107	
Address 5407	N. Gold	er, Ode	ssa, Te	xas 79	764	···-				
Drilling Began .										2_3/4 _{in.}
Elevation of lar			-							
Completed well		nallow 🗀 :		A1			upon complet			
Completed wen	119 1 91			ODIT WA				ion or welt.		
Depth	in Feet	Thickness	tion 2. PRIN					E	stimated Y	ield
From	То	in Feet		Jescription	or water	r-Bearing F	ormation	(gai	lons per m	inute)
			AB	SENT						
										
								Ш		
			Sectio	n 3. RECO	RD OF C	CASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Botton		Length (feet)	Type of S	Shoe	Perfor. From	ations To
			-							
								· · · · · ·		
L		Senti	on 4, RECO	D OF MI	IDDING.	AND CENT				
. Depth		Hole	Sach	cs	Cubic	Feet		thod of Pla	cement	
From	To	Diameter	of M	ud	of Cen	nent			· · · · · · · · · · · · · · · · · · ·	
			1		······································					
										
			<u> </u>	<u> </u>						
			Sectio	n 5. PLUG	GING R	ECORD				
Plugging Contra	actorDı	ıbose Dr	${\tt illingIn}$	тс.		·				
Plugging Metho	d Back f	ill with	cutting			No.	Depth Top	in Feet Botton		bic Feet Cement
Date Well Plugg Plugging approv	ved hv:				······································	1 2				
	Ken	Fraquez State Eng	ineer Repres	entative		3				
						TED ONL				
Date Received	May 16,	1991	FUR USE			EER ONL				
		_		-			FWI	· ——	FSL.	
File No	CP-758-Exp	Loratory		Use	EXP	I	Location No	18,33	4.3423	3
							,	ب تن م	292 E	

Section 6. LOG OF HOLE Depth in Feet Thickness Color and Type of Material Encountered in Feet From То Surface soil 27 caliche 59 18 purple / grey clay 65 clay and shale conclomerate purple and g 90 25 prown clay wint rgrey stringers __90__ 120 30 120 190 Brown clay 1,90 195 color change to light brown clay 250 280 195 no water, back fill hele with cutsings -

Section 7. REMARKS AND ADDITIONAL INFORMATION

901X3** *** 301X1 **91,** 67 (8)

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

1 echos che

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All pans, except Section 5, shall be answered as completely and accurately possible when any well is drilled, repaired or deepen this form is used as a plugging record, only Section 1(a) and Section be completed.

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGR. LOG

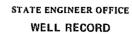
(A)	Ownerof	well B.	J. Wooll	Section 1. .ey			nd & Grayel	Wall No	
(A)	Stroat or 1	Post Office Add State Eun	For BOX	770			O 7151 S	TEN NO.	****
Well	was drilled	under Permit N	n CP-546	5		_ and is located	in the:		
							18-S Range	33E	
	a. NE	4 <u>NE</u> 4	<u> </u>	¼ of Sec	tion9	Township	Range	e	N.M.P.M
	c. Lot No	isian recorded	f Block No	Lea	of the	ounty			
						.M. Coordinate S	System		Zone in Grant.
(日)	Drilling C	ontractor	7. L. Va	an Noy			License No. WI)-208	
Addı	ress	Box 74	Oil Cent	ter, New	v Mexico	88266	**		
							Spudder		
				, ,					
Eleva	ation of lan	d surface or			at we	ll is	ft. Total depth o	f well 90	ft.
Com	pleted well	is 🗆 sha	aliow 🗀 ar	tesian,		Depth to water	upon completion o	of well	ft
						R-BEARING ST			
	Depth i	n Feet	Thickness			· · · · · · · · · · · · · · · · · · ·	····	Estimate	d Yield
	From	To	in Feet	L	escription of	Water-Bearing F	ormation	(gallons pe	r minute)
	70	85	15	fi	ne water	sand.			
						**			
		Ì							
				Saction	3 PECOPI	OF CASING			
I	Diameter	Pounds	Threads	Depth		Length	Type of Shoe	Per	forations
<u> </u>	(inches)	per foot	per in,	Тор	Bottom	(feet)	Type of Silve	From	То
6	5/8"	welde	i	0	90	90	none	70	85
-				·- 					
L			·		,]			
			Section	on 4. RECOI	RD OF MUDI	DING AND CEM	ENTING		
-	Depth From	in Feet To	Hole Diameter	Sack of Mi		Cubic Feet of Cement	Method	of Placemen	t
<u></u>									
1				1					
				ļ					
_				<u> </u>					
				Sectio	n 5. PLUGGI	NG RECORD			
		actor				NG RECORD	Don'th in E		
Add Plug	lress ging Metho	d				NG RECORD	Depth in F	Feet Bottom	Cubic Feet of Cement
Add Plug Date	lress ging Metho e Well Plugg	d				No. 1			
Add Plug Date	lress ging Metho	d				No.			
Add Plug Date	lress ging Metho e Well Plugg	d				No. 1 2			
Add Plug Date Plug	lress gging Metho e Well Plugg gging approv	ededed by:	State Eng	ineer Repress	entative	No. 1 2 3	Тор		
Add Plug Date Plug	lress ging Metho e Well Plugg	od ged ved by: October	State Eng - 2, 1978	FOR USE	entative	No. 1 2 3 4 NGINEER ONL	Тор	Bottom	of Cement

			Section 6, LOG OF HOLE
Depth	in Feet	Thickness	Color and Type of Material Encountered
From	To	in Feet	
0	5	5	top soil
5	30	25	caliche
30	65	35	brown sand rock
65	70	5	hard rock
70	85	15	fine water sand
85	90	5	red bed.
			L S Elev
			Depth to KTrc62
			Elev of K Trc 3893
			Loc. No. 18,33,9, 4224/ Hydro. Survey Field Check <u>FB</u>
			Hydro. SurveyField Check FB
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet X
	-		Determined by Inst. Leveling
			Other
	1		

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INETRUCTIONS: This for sould be executed in triplicate, preferably typewritten, and submitted appropriate district office of the State Engineer. At soons, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepened When this form is used as a plugging record, only Section 1(a) and Section need be completed.



Section 1, GENERAL INFORMATION

Street or City and	Post Office A	ddress _ c/o 692 Tatum	arvey Yates Glenn's Wa 1, N.M. 88	ter Wel 267	l Serv	ice, Inc.	er's Well No.	
'ell was drille	d under Permit	No. CP-	7 02	and	is located	in the:		
a	¼ <u>SE</u> ;	4 <u>NW</u> 4	SW1/4 of Section	<u>11</u> T	ownship <u>1</u>	8-S. Ra	nge <u>33-</u>	EN.M.P.
b. Tract	No.	of Map No		of the		- William I and a second		
c. Lot N Subdi	lo vision, recorde	of Block No		of the	y.			·
d. X≂	······································	feet, Y=		feet, N.M. C	oordinate S	System		Zone
the			ter Well S	·				Gran
			.M. 88267					
			leted _10/21/					
		•						
ompleted wel			tesian.			upon completion		
		Secti	ion 2. PRINCIPAL		W/ARAW/FARIETTAAA			
Depth From	in Feet To	Thickness in Feet	Descrip	tion of Wate	-Bearing F	ormation		nated Yield s per minute)
52	8.2	30	grav	el			40	
							,	
Diameter	Pounds	Th	Section 3, R					
(inches)	per foot	Threads per in.	Depth in Fee Top Bo		ength (feet)	Type of She	oe Fr	Perforations om To
6 5/8	.158				-		50	90
Depth	in Feet	Section Hole	n 4. RECORD OF Sacks	MUDDING .		ENTING		
From	To	Diameter	of Mud	of Cen		Metho	od of Placen	nent
				-			·	
	L	11					<u> </u>	
ugging Contr	actor		Section 5, PI		CORD			
					No.	Depth in		Cubic Feet
ite Well Plugg	ged				1	Тор	Bottom	of Cement
igging appro	ved by:				3			
	·	State Engin	eer Representativ		4			
								
te Received	October	27, 1986	FOR USE OF ST	ATE ENGIN	EER ONLY	7		

			Section 6. LOG OF HOLE
Depth	in Feet	Thickness .	
From	То	in Feet	Color and Type of Material Encountered
_0	<u> 2</u>	2	soil
		1	
_ 2	24	_22	calecche
01	5 0	20	
_24	52	28	sand
_ 52	82	30	gravel
	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	<u></u>	1 81.8 A 6 T
_82	100	18	red clay
		1-2	100 0407
	<u></u>		
		1	
		}	
	ļ		
	1	.	
	ļ		
	-		
~			!
			;
-		† 	
		<u> </u>	
	<u> </u>		
	l. 5	<u> </u>	
]		
		<u></u>	<u></u>
		<u> </u>	
		 	
		ĺ	
		 	
-		<u> </u>	
		<u> </u>	
			· - · · · · · · · · · · · · · · · ·
l	-	[
	. ,		
			• •

Section 7. REMARKS AND ADDITIONAL INFORMATION

ひと野島

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to propriate district office of the State Engineer. All street Section 5, shall be answered as completely and accurately sible when any well is drilled, repaired or deepened. The mis form is used as a plugging record, only Section 1(a) and Section 5 get be completed.



STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

'eli was driiled	under Permit 1	vo. CP-	-701		and i	s located	in the:		
a	4 E ¹ 4	NW ½ S	<u>SW</u> ¼ of Se	ection 11	Tov	wnship	18-S. Ra	nge <u>33-1</u>	E. N.M.P.M
b, Tract l	No	_ of Map No.		of	the	-			
	rision, recorded								
							-		Zone in
									Of all the
_					_				
									ole <u>9.7/8.</u> in.
		_							1t.
	is 🖾 sh						-		ft
- Inplotted woll	. 13		tion 2. PRIN	***************************************				il OI Well	
Depth i		Thickness		Description					ated Yield
From	To OI.	in Feet							per minute)
54	84	30		gravel			- , , , , , , , , , , , , , , , , , , ,	40	
								-	
			_	<u> </u>					
	1							1	
Diameter	Pounds	Threads		n 3. RECOI in Feet	Lo	ength	Type of Sh	00 1	erforations
(inches)	per foot	per in.	Тор	Bottom	(feet)	1700 01 011	Fro	т То
6 5/8	.156			 			1		90
									<u> </u>
									<u> </u>
Depth i	n Feet		on 4, RECO Sac					od of Placeme	
From	To	Diameter	of M	ud	of Ceme		мец	od of Placeme	ent
			+				***	····	
			 						· · · · · ·
		·	<u> </u>						
			Section	on 5. PLUGO	GING RE	CORD			
Address	ictor						Depth in	ı Feet	Cubic Feet
	d					No.	Тор	Bottom	of Cement
Plugging approv						2			
neguis appro-		State Eng	ineer Repres	entative		4			
Togging approv		····	FOR USE	OF STATE	ENGINE	ER ONL			***************************************
	Oatobo	- 97 10d	K OUL	or orner					
Date Received	Octobe	r 27, 198	6				FWL		FSL

			Section 6, LOG OF HOLE
	ı in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	Color and Type of Material Encountries
00	2	2	soil
2	22	20	caleche
22	54	34	sand
54	84	30	gravel
84	100	16	red clay
		1	
			
			·
	1.		
-			
	<u> </u>		
		ļ	
			
	<u> </u>	<u></u>	
			>

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: The sould be executed in triplicate, preferably typewritten, and submine appropriate district office of the State Engineers consider the State Engineers when any well is drilled, repaired or deepens. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE WELL RECORD

HELD ENGR. LOG

Section 1. GENERAL INFORMATION

.) Owner of	well	. Wooley	.0.Box 20	9-7		Own	ner's Well No		
Street or I City and S	Post Office Add	iress							
			•		and is located				
a,	_ ¼ ¼ .	_ <u>SW_</u> ¼	SWL ¼ of Se	tion	Township	85 R	ange33 <u>E</u>		_N,M.P.M
b. Tract l	No	of Map No.		of t	he				
c. Lot No), C	f Block No		of ti	he County,		······································		7-11-1
								•	
		feet, Y=		feet, i	N.M. Coordinate S	ystem			Zone i: Grant
) Drilling C	ontractor	Lar	ry's Dril	eling .	~~~	License No			
					lobbs, NM 882				
					Type toolsb				
evation of lan	d surface or			at w	vell is	ft. Total dep	th of well7.9	}	f
mpleted well	is 🔼 sh	allow 🗀 as	rtesian.		Depth to water	upon completic	on of well _6()	f
		Sect	ion 2. PRIN	CIPAL WAT	ER-BEARING ST	RATA			
Depth i From	n Feet To	Thickness in Feet	1	Description o	of Water-Bearing F	ormation	Estim (gallons	ated Y	
60	80	20	s a	nd & gra	uø l				
				20.000	s gravet 60				
		····					-,	······	
			Section	n 3, RECOR	D OF CASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (fect)	Type of S	пое —	Perfora om	tions To
6 5/8	160PV		<i>+</i> 1	79	80				
				.,				60	79
	'								
D 41.	. F				DING AND CEM	ENTING			
Depth From	To	Hole Diameter	Sack of Mu		Cubic Feet of Cement	Met	hod of Placem	ent	
E							· · ·		
			1				 -		
			t.						
		_ .			ING RECORD				
ngging Contra	actor					Denth i	n Feet	Cul	nic Feet
ngging Contra dress	d				No.	Depth Top	in Feet Bottom		nic Feet Cement
ugging Contra ddress ugging Metho ite Well Plngg	d				No. 1 2				
ugging Contra ddress ——— ugging Metho	d			-	No.				
ngging Contra ldress ngging Metho ite Well Plngg	d		neer Repress	entative	No. 1 2 3 4	Тор			
ugging Contra ddress ugging Metho ite Well Plngg	dedved by:		neer Repress	entative	No. 1 2 3	Top	Bottom	of	Cement

			Section 6. LOG OF HOLE	
	in Feet	Thickness	Color and Type of Material Encountered	
From	То	in Feet		
0	2	2	blow sand	
2	15	13	caliche	
15	59	44	sand	
##W 59	79	20	gravel	
79	80	1	gray yellow clay	
			·	
			:	
			L S Elev	
			L S Elev	
			C/CV UI Namena and 11 tomas managery	
			In No. 1 33 12, 333341	
			Lac. No. 35 12.03334 Hydro, SurveyField Check 45	
			The state of the s	
·	<u> </u>		SO FACE OF AUTITUDE GIVEN	
	, , , ,	ļ	Interpolated from Topo, Sheet X	
	<u> </u>		Determined by Inst. Leveling	
			Other	
				•
<u></u>				
		}		
	-			
	!	<u> </u>	<u> </u>	

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form of the State Engineer. Al drilled, repaired or deepen should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office ons, except Section 5, shall be answered as completely and accurate ossible when any well is then this form is used as a plugging record, only Section 1(a) and Section 5, and be completed.

STATE ENGINEER OFFICE



INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1	,			A) Our	or of well		APP DESCRIPTION OF THE	- Montradia esta	-	
			s	treet and	n or wert Number	211	-Yabba Bri Lappar - Lill	lling the	isania	
									-Now-Monteo-	
							•		and is located in the	
							•		35Rge335	
		<u> </u>							icense No.	
	-	Ì					lest Vechin		رري	
									— How Hoxigo —	
	1								1955	
			┛┖	rilling w	as comple	eted	May 30		19 .5 5	
(P)	lat of 640	acres) of cooling (-20 <u>1</u>	
tota uzh	ether we	il is chall	out or	artesian	in President	en Haritan	Depth to wai	er upon com	pletion 150	
		ili ia bilali	JW 01				NG STRATA	-Port Cort		
ection 2			L (This is		ICIPAL WA			······································	**************************************	
No	Depth :	n Feet To	I	kness in Peet		Des	cription of Water	-Bearing Form	ation	
1	150_	205		55	Water	-sands				
2						- 42-4				
3			}							
4						F .				
5			 							
					PECOB	D OF CAS	ING	•		
ection 3	5					OF CAS	i i		eriorations	
Dia in.	Pounds	Three in	1.	Тор	pth Bottom	Feet	Type Shoe	Type Shoe From To		
6	20	8		 _		C) as set	50 - 55 N	150	205	
<u></u>	List.			0	205	205	TODS	8,00	203	
<i>-</i>					 	4				
~					<u> </u>					
	·	<u>'</u>	·			.l		<u> </u>		
Section 4	<u> </u>			RECOR	D OF MUI	DDING AN	D CEMENTING	·	 	
	in Feet	Diam Hole in	- 1	Tons Clay		ncks of nent		Methods Use	eđ.	
From	To	11016 1	ш.	—————						
	-									
								TET	TRD	
	- 							1 1/2 1/2	LED	
								1111	29 1955	
Section 5	5				PLUGO	SING REC	ORD		OFFICE	
Vame of	Pluggin	g Contrac	tor					l.License	Mox.	
treet ar	nd Numb	ег				City		State S	ELL KON KONCO	
							Ту			
Plugging	method	used					Date Plu	ıgged	19	
lugging	approve	d by:					Cement Plu	gs were place	ed as follows:	
				- <u></u>		No	Depth of P	1 N	Io. of Sacks Used	
			entropontilo	Basin Su	pe r visor	_	From	ro -		
					NIT V	1	_			
	FOR US	SE OF STA	TE EN	GINEER (мы	§	l l	I	ł	
			TE EN	GINEER C	455					
 Date	FOR US		te en e. 2	GINEER O	9 <i>55</i>					
Date :			te en	GINEER O	955	TO A CHARLES AND				
Date			te en e	9 /	955					
Date :	Received		TE EN	GINEER (955 Use	Oil	Locatio	on No./L	33.12. 440	

_	ı in Feet	Thickness In Feet	Color	Type of Material Encountered
From	То	III 1. Sect		
Q	10		white	- Jalliobe and rook
_30	40		-white-	- callfolm and rook
-W)	80	40-	_ros	dry sand
\$0	160	-80	white	coarse ned
160	200/		¥9å	water conde
200	205	5-	344	02.07
				L S Elev
				L S Elev
				Depth to K
	<u> </u>	-		
				Inc. No. 18.33,12, 4/2/12.21
	-			Hydro. Survey Field Check 4'
				SOURCE OF ALTITUDE GIVEN
	-			Interpolated from Topo. Sheet X
			<u> </u>	Determined by Inst. Leveling
	-		1	Other
	_		1	Villet
		_		
			11:	
		.	 	·
			[

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

EIELD ENGR. LOG

(A) Owner of v Street or P	ost Office Ad	ldress P.	O.Box 207	1		Owner	's Well No	·····		
•	tate		bbs, NM 8	•	<u></u>					
Well was drilled										
a	14 14	NW 44	<u>MW</u> ¼ of Sec	tion <u>13</u>	_ Township1	8S Rang	ge33 <u>E</u>	N,M,P.1		
b. Tract N	Io	of Map No.		of the				·		
c. Lot No	·	of Block No		of the						
Subdivi	ision, recorded	d in	Lea	C	ounty,					
						System				
		Larry	's Drilli	ng			D8 82	Giai		
B) Drilling Co	ontractor	2601 (W. Benden	. Ho	bbs, NM	License No				
Address						,— <u>,— ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				
rilling Began	5-10-8	2 Comp	leted 5=	10-82	. Type tools	button bit	Size of hole.	97/8-		
levation of land	d surface or _			at well	is	ft. Total depth	of well			
Completed well	is 🔼 sl	hallow 🔲 a:	rtesian.		Depth to water	upon completion	60 of well			
		Sect	tion 2. PRING	CIPAL WATER	-BEARING ST	RATA		- WERTHER BOTTON		
Depth in		Thickness in Feet	Г	Description of V	Vater-Bearing F	ormation	Estimated (gallons per			
70	70 00 10							mmute)		
			341	nd & grave			40			
	 -									
								······································		
		_			•					
			Section	1 3. RECORD	OF CASING					
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	Perfe From	orations To		
6 5/8	160PVC		+1	82	83		70	80		
										
								1		
						<u> </u>				
Depth i	n Feet	Section Hole	on 4, RECOL		NG AND CEMI					
From	То	Diameter	of Mu		Cement	Metho	d of Placement			
		1								
lugging Contra	ctor			n 5. PLUGGIN	G RECORD					
Address		_	•		No.	Depth in I		ubic Feet		
lugging Method Jate Well Plugge	ed	•			1	Тор	Bottom (of Cement		
lugging approve	ed by:			·	3					
·		State Engi	ineer Repress	ntative	4					
	_			OF STATE EN	GINEER ONL	Υ		-		
Date Received	Septemb	er 24, 198	2	Quad	107.2.0	FWL _	FS	L		
File No	CP-623				ATD T C'AT		18,33,13,11			
						Dooution to.	18.33.2.			

Section 6. LOG OF HOLE								
Depth	Depth in Feet Thickness		Color and Type of Material Encountered					
From	То	in Feet	Color and Type of Material Encountered					
0	6	6	blow sand					
6	11	55	caliche					
11	70_	59	sand					
70	80 RT	10XXX	gravel & sand					
88		2	red bed					
			L S Elev					
			Loc. No. 18. 33. 13. 11112 Hydro. Survey Field Check FB					
			SOURCE OF ALTITUDE GIVEN Interpolated from Topo. Sheet & Determined-by Inst. Leveling Other					
			1					
		`						
	<u> </u>							
	; = ;							
	<u> </u>	<u></u>						

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. At the constant one, except Section 5, shall be answered as completely and accurate the possible when any well is drilled, repaired or deepend of the completed.

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of Street or City and	Post Office A	Address C/O G BOX 692	lenn's Tatum,	Water We N.M. 882	ll Servi 67	ce, Inc.	r's Well No		
Well was drilled	l under Permi	it No	CP <u></u> _(89	_ and is located	l in the:			
a	_ ¼	4 <u>NE 4 N</u>	W 1/4 of Se	ction 13	Township _	18-S. Ran	ge <u>33-1</u>	N,M,P,M	
							_		
		_ of Block No ed in					VF. s. t .		
d, X= the		feet, Y=		feet, N.	M. Coordinate	System		Zone ir	
(B) Drilling C	ontractor	Glenn!s	Water	Well Ser	vice	License NoW	D_421		
AddressBC	x 692 T	atum, N.M	88267	<u> </u>		· · · · · · · · · · · · · · · · · · ·			
Orilling Began .	12/7/85	Comp	leted 12/	7/85	. Type tools	rotary	Size of he	ole 9 7/8 in	
levation of lar	nd surface or			at wel	1 is	ft. Total depth	of well	100 ft	
ompleted well	lis 🎦	shallow 🗀 a	rtesian.		Depth to water	r upon completion	of well	ft	
B. d.	-		ion 2, PRIN	CIPAL WATER	R-BEARING ST	TRATA			
Depth From	To	Thickness in Feet	l	escription of \	Vater-Bearing F		ted Yield ber minute)		
70	95	25		gravel		120			
				···					
							· · · · · · · · · · · · · · · · · · ·		
Diameter	Pounds	93		a 3. RECORD		1			
(inches)	per foot	Threads per in.	Depth Top	Bottom	Length (feet)	Type of Shoo	Perforations From To		
102	.142	steel da	sing				65	100	
		<u> </u>							
Denth i	in Feet	Section Hole		RD OF MUDDI					
From	То	Diameter	of Mi		Cement	Method	d of Placeme	nt	
								 	
								···-	
luuring Canton	unton.			n 5. PLUGGIN	G RECORD				
ddress					No.	Depth in I		Cubic Feet	
ate Well Plugg	ed					Тор	Bottom	of Cement	
lugging approv	ed by:	State Brain	neer Represe	ntativo					
<u> </u>		_							
ate Received	Decemb	er 13, 1985		OF STATE EN					
		. •		_		FWL			
File No	CP-689			Use0	WD	Location No. 1	8.33.13.1 33.75	/ .	

Section 6.3 OG OF BOLL

			Section 6. FOG OF BOLL						
Depth	in Feet	Thickness in Feet	Color and Type of Material Encountered						
From	To	in Feet	Cofor and Type of Material Encountered						
0	5	5	_sand						
5	29	24	caleche						
29	-65		sand						
65	95	30	gravel						
95	100	5	yellow clay						
·									
	ļ								
	-								
		<u> </u>							
- U.S									
WAR									
		1	EE TOTAL						
			2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6						
	J		- Commence of the commence of						

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This for the state Engineer. All the executed in triplicate, preferably typewritten, and submitted to propriate district office of the State Engineer. All the executed is shall be answered as completely and accurately assible when any well is defined repaired or deepened. The form is used as a plugging received, only Section 1(a) and Section 1.

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of Street or	f well Post Office Ad State	dress	P.O.BO	x 1832	01:0		O#	vner's Well I	No,	
-										
Well was drilled	d under Permit	No. CP-7	69-EXPL	ORATOR'	Y and i	s located	in the:			
ā	¼ <u>NW</u> ¼	_NW_ 14	NE_ 14 of Se	ction	13 _{To}	wnship	<u> 18s</u>	Range	33 _E	N.M.P.I
b. Tract	No	of Map No.	·	ol	f the					
	o, vision, recorded								,	
										_
										Zone Gran
B) Drilling C	Contractor	LARR	Y'S DRII	LL ING,	INC.		License No.	wd882	2	
ddress		2116	W. BENI	DER HO	OBBS,	NM 88	240	<u> </u>		
5. Drilling Began	-6-92	Com	5-(6-92	Туре	tools	BUTTON B	IT Size	of hole_	97/8
levation of la	nd surface or _			at	well is		ft. Total der	oth of well_	·····	115
ompleted well		iallow 🗆 a					upon complet			
		Sec	tion 2, PRIN	CIPAL WA	~D~~WULL-WATE					
Depth From	in Feet To	Thickness in Feet		Description	of Water-l	Bearing F	ormation		stimated	
80	115	35	SAI	ND & SANDSTONE			- ``-	(gallons per minute)		
- 60				<u> </u>						
								_	 -	
							·			
1	<u> </u>		Section	n 3. RECO	RD OF CA	SING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth	in Feet	Le	ngth feet)	Type of S	Shoe		rations
6 5/8	160 _P vc	por in.	<u>Тор</u> ()	Botton 115		15			90	110
0 2/0	100140			117		<u> </u>			30	110
			······································	 						
	<u>[, </u>	South	on 4. RECO	DD OF W	<u></u>		T. 18011.16	L		L
	in Feet	Hole Diameter	Sack	ks	Cubic Fe	et		thod of Pla	cement	
From	То	Dianteter	of M	ua	of Ceme	nt				
							 _			
				1						
lugging Co-s	actor			n 5. PLUG	GING REC	CORD				
ddress						No.	Depth	in Feet	Ci	ıbic Feet
ate Well Plugg	ed					1	Тор	Bottom	01	Cement
lugging approv	ved by: ———					3				
*************************************		State Eng.	ineer Represe	entative	<u> </u>	4				
ate Received	May 21,	1992	FOR USE	OF STATE						
ATC MCCCIVED										
Aic Received							FWL			

			Section 6. LOG OF HOLE
	in Feet To	Thickness in Feet	Color and Type of Material Encountered
From	12	12	SAND
12	21	9	CALICHE
21	36	15	SAND & GRAVFI
36	52	16	KXXXXAN SAND, RED & GRAY CLAY
52	66	14	RIO SAND & SOME CLAY
66	85	19	SAND & SOME GRAVEL
85	110	25	SAND & GRAVEL
110	115	05	RED BED
<u> </u>			
<u> </u>			
	<u> </u>		
	 		.92 87A
		Section	792 TIATE ENGINEER OFFICE ROSWELL, NEW MEXICO

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. Appropriate on this form is used as a plugging record, only Section 1(a) and Section of the completed.

STATE ENGINEER OFFICE



WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	_		section o need	•		<u>.</u>			
			i					7	
						1471			
	7 0					•	_	Cexas	
	YY@							d is located in the Rge. 33E	
								ense No.WD99	
İ			Street and	Number.	Box	56			
			I			•		Yew Mexico	
								19 68	
(1	Plat of 640 ac	res)	—I Drilling w	as comple	etedJ.ı	11y 12,		19.68	
•		•	feet shove se	a level		Total do	oth of wall	170	
						_		etion 130	
Section :				CIPAL WA	ATER-BEAR	ING STRATA			
No.	Depth in From	To	Thickness in Feet		De	scription of Water	-Bearing Formati	on	
1				Clean	ed out	old well.			
3									
4									
5									
Section :	3			RECOR	D OF CAS	SING			
Dia	Pounds	Threads	Deg	oth	Feet	Type Shoe	Perf	orations	
in.	ft.	in	Top	Bottom		Type Since	From	То	
6	10	-					-		
		ļ							
Section 4	4	1	RECOR	D OF MU		D CEMENTING	·	1	
	n in Feet	Diameter		No. Sa		- CLIVILIANIAO		·	
From	To	Hole in i	1	Cen		Methods Used			
	†					· · · · · · · · · · · · · · · · · · ·			
	1								
	_			57.110.0					
Section 5		.			SING REC				
								0	
								19	
	approved l								
		-					s were placed a	E 10H0M2;	
		energia anticipata e sulfac	Basin Sup	ervîsor	No	Depth of PI		of Sacks Used	
	FOR USE		ENGINEER OF	TX-7					
			f	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
Date 1	Received		· · · · · · · · · · · · · · · · · · ·	·					
		JUI	L 2 2 1968						
1		1							
	,	1	OFFICE WATER SUFFRY					4122	

Section 6

LOG OF WELL

рерии и	n Feet	Thickness in Feet	Color	Type of Material Encountered			
From	To	in Feet	Color	1,50 01 214,0144 214,021,1401			
				Clared our old wall			
				Cleaned out old well.			
		ļ					
							
	. <u></u>	ļ	<u> </u>				
				21.7.7.			
							
		 					
-							
		<u> </u>					
		 					
		}					
			· · · · · · · · · · · · · · · · · · ·				
		ļ					
		<u> </u>					
		}					
		<u> </u>					
			 				
		{ [
		1					
		<u>.</u>					

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Wall Driller





STATE ENGINEER OFFICE



WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record only Section 1A and Section 5 need be completed.

Section :		ur ite ann	section 5 need	•		TT - m7 5 4				
	Т					. H. Elliso				
			1			Route B.				
	<u> </u>							New Mexico		
			NE 4	N E co	rner	4 of Section 30	Twp.18	nd is located in the S Rge33 E		
		j						ense No.W D 99		
1		1				Box56				
	<u> </u>							New Mexico		
1						March 29				
	Plat of 840 a	nree)	Drilling w	as compl	eted	March 30		19 57		
•		•	foot phone so	n lovol		Total da		100		
								etion 35		
Section 2	2		PRIN	CIPAL W.	ATER-BEA!	RING STRATA				
i	Depth ir	Feet	Thickness in		ח	nomination of Montes	. D			
No.	From	To	Feet		D	escription of Water	-nearing Format	ion		
1	70	97	27	Pad	aand a	nd sand roc	k			
2			Pag [Send o	III J.VIII TOO	<u> </u>			
3										
4										
5										
1.										
Section 3	3 			RECO	RD OF CA	SING		·		
Dia in.	Pounds ft.	Thread			Feet	Type Shoe	i	Perforations		
المر ة م	-	in	Top	Bottom			From	То		
6/8	20_	none	0	100	100	none	75	100		
· · · · · · · · · · · · · · · · · · ·						_		 		
	 					 -		_		
Section 4	1		BECOBI	D OE MIII	DDING A	ID CEMENTING	<u> </u>	<u> </u>		
		Diamete				ND CEMENTING				
From	in Feet	Hole in i		ř	acks of nent	Methods Used				
	 									
·				 						
		 								
	- 1	1								
	·····		·		<u></u>					
Section 5					SING REC					
								o		
								19		
Plugging	approved	by:			<u></u>	Cement Plug	s were placed a	s follows:		
			Basin Sup	ervisor	N	Depth of P	o No.	of Sacks Used		
	FOR USE	OF STATE	ENGINEER OF	NLY						
								AM		
Date 1	Received _						422	17 W		
								0.0105		
					L			WATE THE TOTAL		
	1	11 11		Л	St.	nti v v stala komisila sila sila sila sila sila sila sila	KC.W			
File No.	<u>6-3</u>	75,4_		_Use (Location	n No. /4.33	30.220		

LOG OF WELL

Depth in Feet		Thickness	Color	Type of Material Encountered				
Ogrom	1 ^{To}	in Feet	Brown	Soil Soil				
1	25	24	White	Cleachie and rock				
25	50	25	Grey	Sandy shale				
50	97	47	Red	Sand and sand rock				
7	100	3	Brown	Quartsite				
				L S Elev Depth to KTrc Elev of KTrc				
<u></u>								

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

APPLICATION FOR PERMIT DNCS ENVIRONMENTAL SOLUTIONS

VOLUME II: FACILITY MANAGEMENT PLANS SECTION 8: VADOSE ZONE MONITORING PLAN

ATTACHMENT II.8.B

VADOSE ZONE MONITORING FORM

(TYPICAL)

ATTACHMENT II.8.B

Vadose Zone Monitoring Form (Typical)

DNCS Environmental Solutions

Monitoring Personnel	
Weather Information	
Date and Amount of Last Precipitation:	
Temp:	°F
Wind Speed:	mph
Wind Direction:	
Barometric Pressure:	inches mercury (Hg)
Weather Conditions:	
Equipment Information	
Monitoring Equipment Used:	Monitoring Equipment Used:
Date and Time Last Calibrated:	Date and Time Last Calibrated:

W. II	Monitoring	Total Well Depth (fbtoc)	Depth Water	Field Parameter Measurement			Water	Sample Collected?		Observations	
Well I.D.	Date (dd/mm/yy)			Temperature (°C)	pH (standard units)	Specific Conductance (mS/cm)	Methane (%) or (% LEL)	Volume Removed (gallons)	Y	N	(e.g., color, odor, clarity, etc.)
VM-1											
VM-2											
VM-3											
VM-4											
VM-5											
VM-6											
VM-7											
VM-8											
VM-9											
VM-10											

Notes:

- fmsl: feet above mean sea level
- fbtoc: feet below top of PVC casing

APPLICATION FOR PERMIT DNCS ENVIRONMENTAL SOLUTIONS

VOLUME II: LANDFILL MANAGEMENT PLANS SECTION 9: LEACHATE MANAGEMENT PLAN

TABLE OF CONTENTS

Section	n No. Title	Page
1.0	INTRODUCTION	II.9-1
1.1	~	
1.2	Description	II.9-1
1.3		
2.0	LEACHATE COLLECTION SYSTEM	II.9-3
3.0	LEACHATE GENERATION	II.9-4
4.0	LEACHATE MONITORING	II.9-5
5.0	LEACHATE DISPOSAL	II.9-6
6.0	LEAK DETECTION MONITORING	II.9-8
	LIST OF FIGURES	
Figure	e No. Title	Page
II.9.1	SITE LOCATION MAP	II.9-2
	LIST OF ATTACHMENTS	
Attachi	ment No. Title	
II.9.A	LEACHATE MONITORING FORM (TYPICAL)	
II.9.B		TION
	FORM (TYPICAL)	
II.9.C	POTENTIAL GEOMEMBRANE LINER LEAKAG	E

APPLICATION FOR PERMIT DNCS ENVIRONMENTAL SOLUTIONS

VOLUME II: LANDFILL MANAGEMENT PLANS

SECTION 9: LEACHATE MANAGEMENT PLAN

1.0 INTRODUCTION

DNCS Environmental Solutions (DNCS Facility) is a proposed Surface Waste Management

Facility for oil field waste processing and disposal services. The proposed DNCS Facility is

subject to regulation under the New Mexico Oil and Gas Rules, specifically 19.15.36 NMAC,

administered by the Oil Conservation Division (OCD). The Facility is designed in compliance

with 19.15.36 NMAC, and will be constructed and operated in compliance with a Surface

Waste Management Facility Permit issued by the OCD. The Facility is owned by, and will be

constructed and operated by, DNCS Properties, LLC.

1.1 **Site Location**

The DNCS site is located approximately 10.5 miles east of the US 82/NM 529 intersection and

6.3 miles south of Maljamar in unincorporated Lea County, New Mexico (NM). The DNCS

site is comprised of a 562-acre ± tract of land located south of NM 529 in portions of Section

31, Township 17 South, Range 33 East; and in the northern half of Section 6, Township 18

South, Range 33 East, Lea County, NM (Figure II.9.1). Site access will be provided via the

south side of NM 529.

1.2 **Description**

The DNCS Facility is a proposed new Surface Waste Management Facility that will include

two main component;, a liquid oil field waste Processing Area (177 acres ±), and an oil field

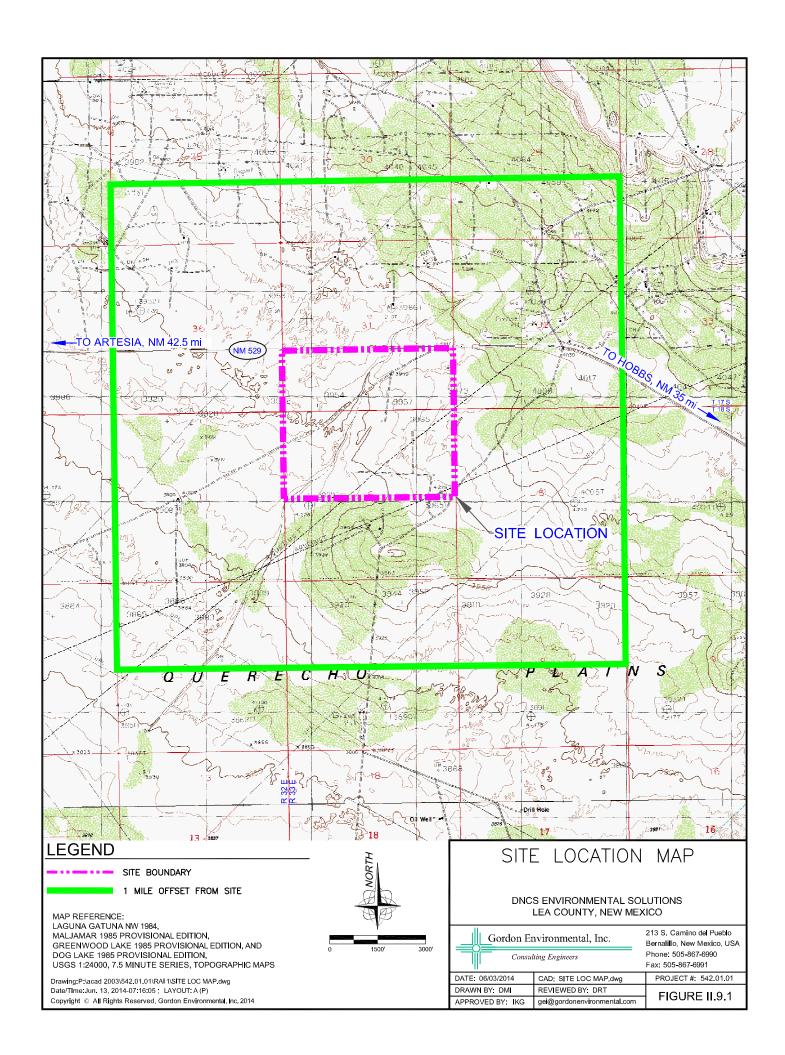
waste Landfill (318 acres ±). Oil field wastes are anticipated to be delivered to the DNCS

Facility from oil and gas exploration and production operations in southeastern NM and west

Texas. The **Permit Plans, Sheet 3** identifies the locations of the Processing Area and Landfill

facilities.

II.9-1



1.3 Purpose

A leachate management plan must be developed per 19.15.36.8.C.(12) NMAC that describes the anticipated amount and quality of fluids collected, along with the proposed management, storage and disposal technologies. This Leachate Management Plan (the Plan) details the procedures that will be used to manage contact waters generated at the DNCS Facility Landfill during the permit period and following closure. This Plan has been developed to address the design and performance requirements of 19.15.36.14 NMAC, and addresses the following items:

- 1. Projected amounts and rates of leachate generation
- 2. Expected duration of leachate generation
- 3. Leachate disposal options
- 4. Proposed treatment and disposal methods

2.0 LEACHATE COLLECTION SYSTEM

The leachate collection system designed for the DNCS Landfill meets or exceeds the minimum design and performance standards specified in 19.15.36.14 NMAC, specifically:

- 1. The minimum design slope on the landfill liner is 2.8%; and the minimum slope on the leachate piping system is 2.0%.
- 2. The leachate piping system will consist of perforated and solid pipe with a minimum diameter of 6 inches.
- 3. Both schedule 80 polyvinyl chloride (PVC) and standard dimension ration (SDR) 11 high density polyethylene (HDPE) piping are demonstrated to meet the site-specific performance standards.
- 4. The protective soil layer (minimum 24 inches of pervious soil) will provide both protection for the liner and leachate flow to the piping and extraction system.
- 5. There is a geonet leak detection layer and secondary 60 mil HDPE below the primary liner and leak collections system.

Each new cell will be outfitted with perforated leachate collection piping that is enveloped in aggregate and geotextile to promote flow while minimizing the intrusion of fines. The cell floor and liner system will be sloped at 45° to each pipe, and leachate will flow through the protective soil layer (PSL).

Permanent leachate sumps are designed for each cell at the DNCS Landfill. Temporary sumps and cleanout risers may also be installed as filling progresses in each cell. Therefore, each cell is designed with its own collection piping. Two solid pipe risers will provide access to each permanent leachate sump at the toe of the slope:

- The leachate extraction riser will be used to measure leachate levels in the leachate sump, and to provide access for a submersible pump to remove accumulated fluids.
- A cleanout riser is connected with a pipe elbow to the collection pipe to facilitate cleaning or flushing if necessary.

Compliance with the design standards of 19.15.36.14 NMAC is demonstrated in the **Permit Plans** (**Volume III.1**). The performance standards specified in the same subsections are addressed as follows:

- 1. The Liner Construction Quality Assurance (CQA) Plan (**Volume II.7**) specifies the materials and installation techniques which will be used for construction of the leachate collection system and protective soil layer.
- 2. The performance of the design and the specified materials are documented to meet OCD requirements in the following Landfill Engineering Calculations:
 - Pipe Loading Calculations (Volume III.5)
 - Geosynthetic Applications and Compatibility Documentation (**Volume III.6**)
 - Settlement Calculations (Volume III.9)

3.0 LEACHATE GENERATION

Leachate in the permanent extraction risers will be measured monthly and after significant rainfall events. The storage capacity in each sump is approximately 1,500 gallons. The maximum head accumulation on the liner is not to exceed 12 inches per 19.15.36.14.F NMAC. Fluid levels on the cell floor will be maintained below the regulatory threshold through regular pumping as recorded and reported to OCD. DNCS will maintain a record of actual leachate generation and management volumes, using a form similar to the one provided as **Attachment II.9.A** to track the amount of leachate removed from the sumps throughout a given year at the Facility.

Leachate production is projected to approach zero because of the solid nature of the waste and the paint filter restriction. Therefore, leachate generation is attributable solely to precipitation; and particularly fluids from precipitation in the very early stages of cell development.

The leachate generation rate decreases to nearly zero following the placement of the first lift of waste on the liner. This has been calculated in the HELP Model (Volume III.4) and confirmed through experience at other facilities. As demonstrated in the HELP Model, the field capacity of the waste and the local evaporation rate far exceed the volume of rainfall experienced at the site, and therefore liquids do not typically reach the leachate collection system. As discussed in detail in the Operations, Inspection, and Management Plan (Volume II.1), routine site operation procedures will dictate that a loose lift of waste (approximately 5 feet thick) be placed over the entire floor of a newly constructed cell as soon as practical. This process will protect the liner and leachate collection system; and reduce the generation of contact water, which is stormwater collected within the cell footprint. During the post-closure care period, the site will have been capped and vegetated (Permit Plans); and leachate production is modeled to decline to near zero.

4.0 LEACHATE MONITORING

Routine monitoring of leachate levels and extraction of leachate from the sumps will ensure that the fluid accumulation on the liner will not exceed the regulatory 12-inch threshold. Procedures to ensure leachate does not accumulate on the liner will include the following:

- The level of the leachate in the sumps will be monitored at least monthly, and leachate will typically be extracted on a minimum quarterly basis; or as needed to maintain <12 inches of head on the liner.
- The leachate will be extracted from the sumps with portable submersible pumps, vacuum trucks, or other suitable devices.
- In the future, the leachate sumps may be equipped with remote level sensors and/or dedicated submersible pumps, if routine leachate removal is required.

The Leachate Monitoring Form provided as **Attachment II.9.A** is a template for monitoring levels and extraction data, as well as the disposal technique used.

5.0 LEACHATE DISPOSAL

DNCS is requesting approval to recirculate leachate over lined areas of the landfill during the active life of the DNCS Facility. The following procedures will be adhered to when performing recirculation of leachate at DNCS:

- On an as-needed basis (initially anticipated to be quarterly), leachate will be pumped from the sump(s) with a portable or permanent submersible pump or vacuum to a tank truck, equipped with appropriate fluid transfer hoses, and will be transported to the active cell. Prior to applying daily cover to the cell, the leachate will be sprayed onto the exposed waste. Cover will be placed after the recirculation activities are complete.
- For the most effective recirculation, and to avoid short-circuiting, the leachate will be applied only in areas where the cell surface is at least 10 feet above the liner system. In addition, the leachate will be applied on cells upgradient in the collection system whenever possible. No leachate recirculation will be conducted within 50 feet of the solid waste boundary.
- Monitoring and recirculation activities will be documented on the Leachate Monitoring Form (**Attachment II.9.A**). The information will be maintained in the Facility Operating Record.

Leachate recirculation will be accomplished via similar collection, transport, and application methods in future cells. Alternatively, leachate may be applied directly to waste deposits in lined cells with pumps and hoses attached directly to the collection system. DNCS is seeking OCD's approval of additional leachate management alternatives that include, but are not limited to:

- disposal onsite through the Produced Water processing/evaporation process
- use of dilute leachate for dust control over lined cells
- disposal offsite at a OCD-approved facility

Disposal of leachate onsite through the Produced Water evaporation process will be accomplished by pumping leachate directly from the sump with a submersible pump or extraction hose to a tanker truck, equipped with appropriate fluid transfer hoses. The leachate will be transferred to the Produced Water Load-Out Station and unloaded into the Produced Water Receiving tanks for processing with the routine waste stream.

The use of dilute leachate for dust control over lined cells will be accomplished as follows:

- Leachate will be diluted with collected stormwater to minimize the potential for odors.
- The leachate application method will consist of spraying the dilute leachate with the site's water wagon, or similar type vehicle.
- The application of leachate will be conducted only over lined cell areas.
- Leachate will be sprayed evenly and thinly over lined cell areas to provide for effective dust control and evaporation, and to minimize the potential of recirculation through the waste.
- To enhance safety, leachate will be sprayed only when personnel are not near the spray surface. In addition, leachate will not be sprayed on windy days.
- If there are any issues regarding the potential composition of the leachate (for example, leachate being generated by some means other than heavy rainfall on a new cell), leachate may be analyzed prior to beneficial use in consultation with OCD.

Disposal of leachate offsite at a POTW or OCD-permitted liquids processing facility following closure may be conducted by pumping leachate directly from the sump with a submersible pump or extraction hose to a tanker truck, equipped with appropriate fluid transfer hoses. If the leachate is required to be sampled and analyzed by the disposal facility, the parameters to be analyzed will be determined in consultation with the POTW. Prior to transport, leachate samples will be collected and analyzed to demonstrate compliance with the disposal facility's leachate acceptance criteria for analytical parameters and concentrations. Prior to disposal, the Leachate Management Plan may be updated with OCD approval to reflect the analytical parameters and concentrations, as well as transport methods specified by the selected disposal facility. The updated Plan will be submitted to OCD for approval as an administrative change to the existing Plan prior to implementation of disposal activities. The analytical test results for leachate disposal at the off-site Facility will be maintained in the Facility Operating Record.

Following closure, the most effective treatment and disposal technology for leachate (if produced) will be determined and implemented with the approval of OCD. This disposal technology may include hauling off-site for treatment at an OCD-approved Facility. Leachate monitoring during post-closure will be conducted at least semi-annually. Leachate management information will continue to be documented and maintained in the Facility Operating Record.

6.0 LEAK DETECTION MONITORING

Routine inspection of the leak detection system and sump in each of the Landfill cells and evaporation ponds will be conducted on at least a monthly basis; and documented on the Leachate Monitoring Form (Attachment II.9.A), or the Pond Integrity/Leak Detection Inspection Form (Attachment II.9.B). At a minimum, the following items will be documented:

- Inspection date, time, and conditions
- Inspector identification
- Depth of liquids in sump
- Sump and piping condition and status
- Volume collected

Prior to placing a newly constructed landfill cell or evaporation pond (or an evaporation pond that has undergone repair or cleaning) into service, liquids will be removed from above the primary liner and from the leak detection system. Once in service, it is anticipated liquid may be present at all times due to condensation and nominal leakage through the primary liner. The sumps are 2 feet deep and have a capacity of approximately 1,500 gallons (gal) using a porosity of 0.40 for the granular material.

Attachment II.9.C is a summary table from an authoritative publication on potential geomembrane liner leakage for 40 mil HDPE lined ponds. As shown on the table, the combined projected permeation/pinhole leakage rate ranges from 9.5 to 138 gal/acre/day. Using a very conservative value of 75 gal/acre/day for the combined leakage/permeation rate (Attachment II.9.C), this provides 16 days of storage at a depth of 2 ft in the sump. The rate of 75 gal/acre/day is considered very conservative as it is based on 40 mil HDPE (vs. the actual 60 mil); a fluid depth of 10 ft; and a high number of large pin-holes. Considering that the Landfill leachate collection system is designed to maintain less than 1 ft of liquid on the liner this is and extremely conservative analysis for the Landfill.

The liquid levels in the leak detection sumps will be monitored at least monthly and immediately after the cells or ponds are put into service, and documented. In the event and excessive liquid level [i.e., > corrective action level (ACL)] is observed in a leak detection

system, OCD will be notified within 24 hours. If this liquid level is observed in a Landfill cell the Facility will initiate corrective action which may include but is not limited to:

- Additional sump liquid level monitoring and pumping frequencies
- Liquids analytical testing and submittal of results to OCD
- Enhanced vadose zone monitoring (if applicable)

If this liquid level is observed in an evaporation pond, the affected pond area will be drained. Prior to placing the pond back into service, the Facility will initiate corrective action which may include but is not limited to:

- Actions undertaken to locate source of leakage
- Repair procedures
- Additional sump liquid level monitoring and pumping frequencies
- Liquids testing and submittal of results to OCD
- Groundwater monitoring (if required)

Any liquids recovered from the Leak Detection Sump will be disposed of in the same manner as leachate generated from the landfill cells.

APPLICATION FOR PERMIT DNCS ENVIRONMENTAL SOLUTIONS

VOLUME II: LANDFILL MANAGEMENT PLANS SECTION 9: LEACHATE MANAGEMENT PLAN

ATTACHMENT II.9.A LEACHATE MONITORING FORM (TYPICAL)

ATTACHMENT II.9.A Leachate Monitoring Form (Typical) DNCS Environmental Solutions

	Leachate Lev	vel Data			Pumping Data		
Date	Sump I.D.	Time	Monitored By	Date	Company	Volume Pumped (gal)	Notes

APPLICATION FOR PERMIT DNCS ENVIRONMENTAL SOLUTIONS

VOLUME II: LANDFILL MANAGEMENT PLANS SECTION 9: LEACHATE MANAGEMENT PLAN

ATTACHMENT II.9.B POND INTEGRITY/LEAK DETECTION INSPECTION FORM (TYPICAL)

ATTACHMENT II.9.B

Pond Integrity/Leak Detection Inspection Form (Typical) **DNCS Environmental Solutions**

				Page of
<u>Date:</u>			Inspector(s):	
<u>Time:</u>				
Weather:				
Temperature		deg. F	Precipitation (last 24 hours)	inches
Skies				
Wind Speed		mph		
Wind Direction		(direction blowing from)		
			as been taken. "S" indicates rovided on attached pages.	
		It	em	
Location	Erosion	Vegetation Established	Vectors	Sample
		Leak Detection System		
		Defic	ciency	
	Riser #	Depth of	Structural	
		H ₂ O	Defect	
		<u> </u>	<u> </u>	
NOTES:				

APPLICATION FOR PERMIT DNCS ENVIRONMENTAL SOLUTIONS

VOLUME II: LANDFILL MANAGEMENT PLANS SECTION 9: LEACHATE MANAGEMENT PLAN

ATTACHMENT II.9.C POTENTIAL GEOMEMBRANE LINER LEAKAGE

Title: Leakage Through Liners Constructed with Geomembranes - Part 1. Geomembrane Liners

Written by: J.P. Giroud and R. Bonaparte

Published in: Geotextiles and Geomembranes Volume: 8 Issue: 2 Pages: 27 to 67

Phone: +31 20-485-3757 ~ Web Site: http://www.elsevier.com

How impermeable are 'impermeable liners'? All liners leak, including geomembranes, but how much? What are the mechanisms of leakage through liners constructed with geomembranes? To answer these questions, a detailed review of leakage mechanisms, published and unpublished data, and analytical studies has been carried out with the goal of providing practical design recommendations. In particular, it appears that a composite liner (i.e. geomembrane on low-permeability soil) is more effective in reducing the rate of leakage through the liner than either a geomembrane alone or a soil liner (low-permeability soil layer) alone. However, the paper shows that the effectiveness of composite liners depends on the quality of the contact between the geomembrane and the underlying low-permeability soil layer.

Table 1
Calculated Leakage Rates Due to Pinholes and Holes in a Geomembrane

Water depth on top of the geomembrane, $h_{\scriptscriptstyle W}$									
	Defect Diameter	0.003 m (0.01 ft)	0.03 m (0.1 ft)	0.3 m (1 ft)	3 m (10 ft)	30 m (100 ft)			
Pinholes	0.1 mm (0.004 in)	0.006 (0.0015)	0.06 (0.015)	0.6 (0.15)	6 (1.5)	60 (15)			
	0.3 mm (0.012 in)	0.5 (0.1)	5 (1)	50 (13)	500 (130)	5000 (1 300)			
Holes ^a	2 mm (0.08 in)	40 (10)	130 (30)	400 (100)	1300 (300)	4000 (1 000)			
	11.3 mm (0.445 in)	1 300 (300)	4 000 (1 000)	13 000 (3 000)	40 000 (10 000)	130 000 (30 000)			
	Values of leakage rate in liters/day (gallons/day)								

Table 2
Calculated Unitized Leakage Rates Due to Permeation of Water Through an HDPE Geomembrane

Water depth on top of the geomembrane, $h_{_{\! W}}$								
	0 m (0 ft)	0.003 m (0.01 ft)	0.03 m (0.1 ft)	0.3 m (1 ft)	3 m (10 ft)	>10 m (>30 ft)		
Coefficient of migration, $m_g(m^2/s)$	0	9x10 ⁻²⁰	9x10 ⁻¹⁸	9x10 ⁻¹⁶	9x10 ⁻¹⁴	3x10 ⁻¹³		
Unitized leakage rate,q _q (m/s) (lphd) (gpad)	0 0 0	9x10 ⁻¹⁷ 8x10 ⁻⁵ 8x10 ⁻⁶	9x10 ⁻¹⁵ 0.008 0.0008	9x10 ⁻¹³ 0.8 0.08	9x10 ⁻¹¹ 80 8	3x10 ⁻¹⁰ 260 28		

Notes: These values of utilized leakage rates were calculated using eqn (5) and assuming a geomembrane thickness of 1 mm (40 mils). The coefficients of migration used to calculate the unitized leakage rates in this table were obtained from eqns (19) and (20), with $C_1 = 1 \times 10^{-22} \text{ m}^4 \text{ kg}^{-2} \text{s}^3$, n = 2, and $m_{\text{qmax}} = 3 \times 10^{-13} \text{ m}^2/\text{s}$.

The water depths used here correspond to the typical values defined in Section1.3.6. (To use eqn (19), it is necessary to know the pressure difference, Δ p. According to eqn (1), water depths, $h_{\rm W}$, are approximately equal to hydraulic head differences, Δ h, which are related by eqn (12) to pressure differences, Δ p.)



geosynthetica.net is a free technical information resource for all geosynthetics users and industry members. Technical information is available regarding geomembranes, woven & nonwoven geotextiles, geogrids, geosynthetic clay liners (gcls), geocomposites, geocells, geotextile tubes, geonets, geofoam and all other forms of geosynthetics. As well, the site covers many different applications including environmental & hazardous waste containment, landfill, mining, agriculture, aquaculture, construction, transportation, erosion control, reinforcement, barriers, drainage and filtration. Please use the navigation bar above to search for standards, specifications, technical guidance tools, calendar of events, industry resources, directory, news, employment opportunities, resin pricing and much more!

©2008 Geosynthetica.net. All Rights Reserved. tel: +1-561-655-2060, fax: +1-561-655-9922 info@geosynthetica.net

Privacy Policy | CSS

Home About Advertise Buyer's Guide Calendar Employment Links News Pubs/Tech Docs Resin Specifications Standards Directory