REPORTS

DATE: 1977

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

CHAIRMAN OF THE BOARD
JOHN A. YATES
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DENNIS G. KINSEY

TREASURER

Mr. Mark Ashley New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

March 11, 1998

Re: Pit Closure

Dear Mark,

RECEIVED

MAR 1 3 1997

Environmental Bureau
Oil Conservation Division

Pursuant to OCD's <u>Unlined Surface Impoundment Closure Guidelines (Feb. 1993)</u>, Yates has prepared the enclosed plan for closure of pits located at recently purchased facilities in Eddy County.

Please contact me at (505) 748-4185 if you need additional information.

Sincerely,

Lisa Norton Environmental

Coordinator

enc.

cc:

Mr. Ray Smith NMOCD

District 2

811 South First Artesia, NM 88210

Yates Petroleum Corp. Artesia, New Mexico

MAR | 3 1998

M. CUNSERVATION M

Unlined Surface Impoundments

Closure Plan

for pits located in
Eddy County, New Mexico
T18&19S R26E

at

Lattion Tank Battery
Scripps Tank Battery
Williams Tank Battery
Inex Tank Battery
and

Santa Fe Land Improvement #1 SWD

Yates Petroleum Corporation (Yates) has prepared this Closure Plan pursuant to OCD's <u>Unlined Surface Impoundment Closure Guidelines (Feb. 1993</u>). The pits located at the Inex, Lattion, Scripps and Williams batteries and the Santa Fe Land Improvement #1 salt water disposal (SWD) well in Eddy County were formerly owned by H&S Oil Co. and purchased by Yates in February 1998.

1. Facility Location

The sites are located in southeastern New Mexico, approximately nine miles south-southeast of Artesia, New Mexico. The facilities are listed below and shown on Attachment 1.

- Inex Tank Battery T18S R26E, Section 26, NE 1/4
- Lattion Tank Battery T18S R26E, Section 23, SE 1/4
- Scripps Tank Battery T18S R26E, Section 25, SW 1/4
- Williams Tank Battery T18S R26E, Section 25, NE 1/4
- Santa Fe Land Improvement #1 SWD T19S R26E, Section 17, SE 1/4

2. Site and Vicinity Characteristics

The pits are located south-southeast of Artesia, New Mexico in a relatively unpopulated area of Eddy County, New Mexico and reached by unimproved roadways. The sites are associated with oil and gas production wells, piping, treatment and storage equipment and a saltwater disposal well (SWD). The facilities are scattered across a five square mile, discontinuous area with the SWD located five miles southwest of the other four locations.

3. Groundwater

Groundwater in the area of the site occurs at an approximate elevation of 3,250 feet above mean sea level (MSL). This corresponds to an approximate depth of 40 to 90 feet below ground surface (bgs) in the general area, based on ground surface elevation of 3,280 to 3,340 feet above MSL.

4. Topography / Distance to Surface Water Body

The elevation in the vicinity of the tank batteries ranges from approximately 3,280 feet above mean sea level (MSL) on the southeast portion to approximately 3,310 feet above MSL on the northwestern portion of the area. The elevation at the SWD is approximately 3,380 feet above MSL. The U.S. Geological Survey (USGS) topographic maps of the Lake McMillan North and Dayton, New Mexico quadrangles were reviewed for topographic and drainage information (USGS, 1955 and 1975, respectively). The topographic map indicates that the ground surface in the vicinity of the tank batteries slopes east-southeast toward the Pecos River. Surface water flows to the east-southeast into the Pecos River, located approximately one mile east. The prominent natural features in the vicinity include the Pecos River and associated floodplain located immediately adjacent to the east side of the tank batteries.

The topographic map indicates that the ground surface in the vicinity of the SWD is located along a surface water divide, with the ground surface on the north side of the SWD sloping north-northeast towards Fourmile Draw and the ground surface on the south side of the SWD sloping south-southeast towards North Seven Rivers. From either of these drainages surface water flows to the east-southeast into the Pecos River, located approximately four miles east of the SWD. The most prominent natural feature in the vicinity of the SWD is the Pecos River located four miles east.

5. Wellhead Protection Area

The closest public water supply well in the area is approximately two (2) miles southeast of the site at the SKP RV Park. The well serves under 101 persons.

Information on private domestic water sources in the area obtained from the State Engineers Office is attached.

6. Site Descriptions / Waste Characteristics

On September 23, 1997 Yates sampled sludge and water in each of the five pits. A description of each site follows along with a summary of those analytical results.

A. Inex Tank Battery Unlined Disposal Pit. (T18S R26E Section 26 NE 1/4)

The unlined pit is approximately 40 feet by 40 feet and located adjacent to the battery. The pit contained water and oil with petroleum saturated soils on the pit walls. A sample of the pit water/oil interface was collected for laboratory analyses to determine the total petroleum hydrocarbon (TPH) and BTEX concentrations. The laboratory was unable to identify a water phase and thus only analyzed the oil portion. The oil sample was found to contain 330,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm and 52.8 ppm of total BTEX, which exceeds the OCD Soil Guideline of 50 ppm total BTEX.

B. Lattion Tank Battery Unlined Disposal Pit. (T18S R26E Section 23 SE 1/4)

The unlined pit is approximately 40 feet by 40 feet and located adjacent to the battery. The pit contained water and oil with petroleum saturated soils on the pit walls. A sample of the pit water/oil interface was collected for laboratory analyses to determine the petroleum hydrocarbon and BTEX concentrations. The oil at the surface contained 180,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm. The water beneath the oil in the pit contained 20 parts per billion (ppb) of benzene, exceeding the New Mexico Water Quality Control Commission (NMWQCC) water quality standard of 10 ppb.

C. Scripps Tank Battery Unlined Disposal Pit. (T18S R26E Section 25 SW 1/4)

The unlined pit is approximately 40 feet by 40 feet and located adjacent to the battery. The pit contained water and oil with petroleum saturated soils on the pit walls. A soil sample from the pit wall was collected from above the liquid level in the pit. The soil collected from the pit wall contained 27,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm.

D. Williams Tank Battery Unlined Disposal Pit. (T18S R26E Section 25 NE 1/4)

The unlined pit is approximately 40 feet by 40 feet and located adjacent to the battery. The pit contained water and oil with petroleum saturated soils on the pit walls. A sample of the pit water/oil interface was collected for laboratory analyses to determine the total petroleum hydrocarbon and BTEX concentrations. The oil at the oil/water interface contained 230,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm. BTEX concentrations of the pit water did not exceed the New Mexico Water Quality Control Commission (NMWQCC) water quality standards.

E. Santa Fe Land Improvement #1 Unlined Disposal Pit. (T19S R26E Section 17 SE 1/4)

The unlined pit is approximately 20 feet by 150 feet and located adjacent to the battery. The pit contains water and oil with petroleum saturated soils on the pit walls. A sample of the pit water/oil interface was collected for laboratory analyses to determine the total petroleum hydrocarbon and BTEX concentrations. The oil at the oil/water interface contained 220,000 ppm of TPH, exceeding the OCD Soil Guidelines of 1,000 ppm. BTEX concentrations of the pit water were 81 parts per billion (ppb) of benzene, exceeding the New Mexico Water Quality Control Commission (NMWQCC) water quality standard of 10 ppb.

7. Sampling Plan

Yates has removed liquids from the pits. In order to assess the vertical and horizontal extent of contamination within and beneath each of the pits, discrete samples from the surface of the bottom elevation and approximately three (3) feet into the undisturbed soils beneath the bottom and into the side walls of the pits will be sampled. Yates proposes to perform sampling as soon as the surface has dried sufficiently to allow entry.

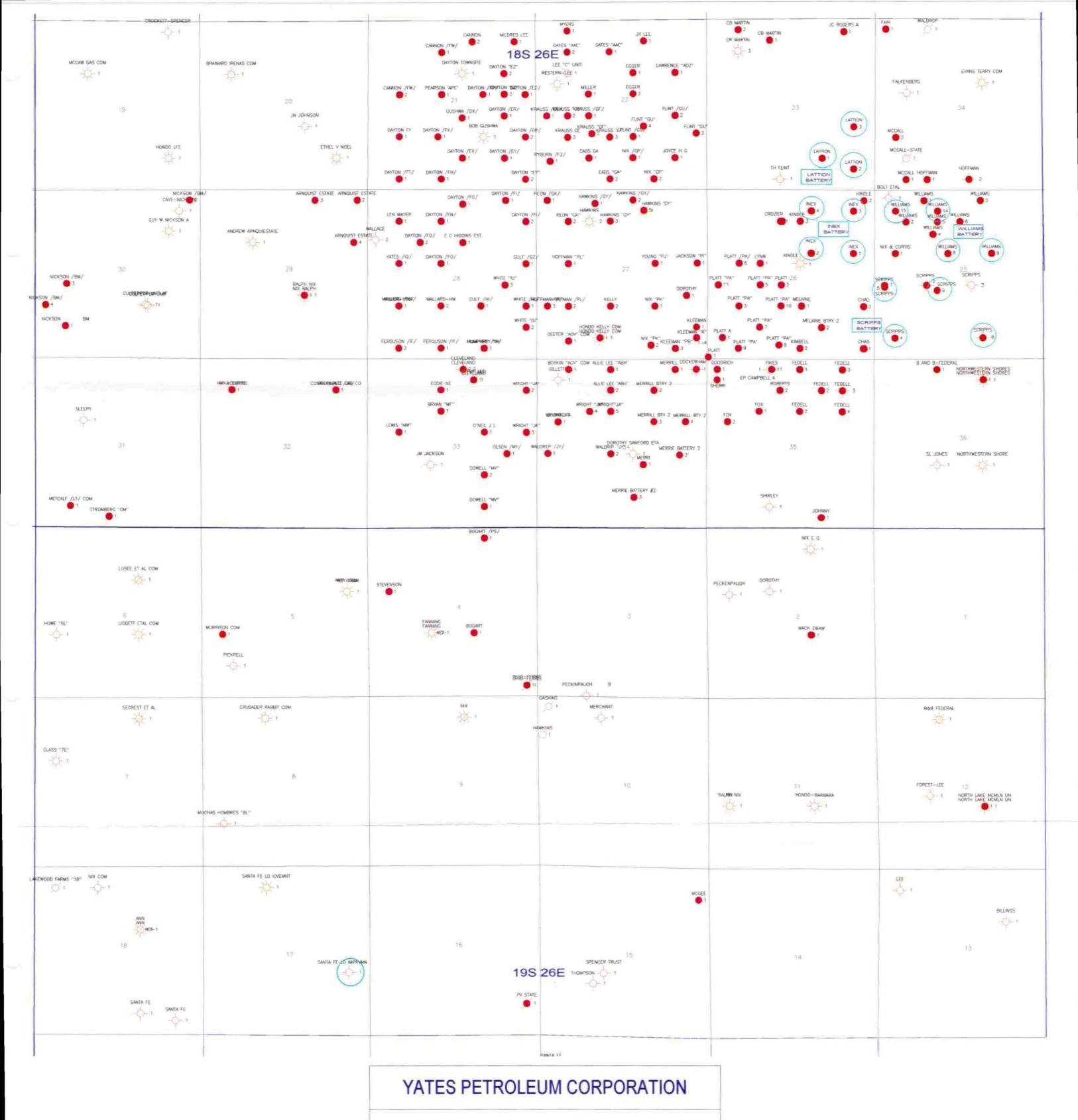
Caliche deposits are common in the area, generally occurring near the ground surface. Because caliche provides a low permeability barrier to retard vertical percolation of contaminants into the subsurface, Yates does not expect to encounter ground water contamination. If after completion of the soil sampling a reasonable probability of ground water contamination should exist based upon the level of contamination directly beneath the pits, a groundwater sampling and abatement plan will be prepared and submitted for OCD approval.

8. Soil Remediation Plan

Yates plans to bioremediate insitu any soil in the pits that contain contaminants above OCD standards by aerating and adding nutrients. Once residual contaminant concentrations meet OCD recommended soil remediation levels or if sampling determines that no contamination above standards exists, Yates will close the locations by backfilling and contouring to provide drainage away from the sites.

9. Final Closure

Upon completion of closure activities, Yates will document the closure to the OCD in a Final Closure Report. This report will describe the closure activities performed including third-party sampling to confirm that closure standards have been met.



NEW MEXICO H & S Oil Acquisition

Lisa Norton	9/22/97	S. Donaldson
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File No. RA-1296

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.

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Use Location No. 18.26.23.110

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43	85			Clay
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98	100			Clay and rock
100	110		<u> </u>	Gravel
110	113			Lime shell
113	115			Gravel
115	135			Clay and rock
135	157			Gravel
157	167			Clay
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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.

R.	I.	Willson
Well	l	Driller

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.

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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

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.

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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

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WELL RECORD

Date of R	Receipt	Octobet	.±//4	Permit No
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		Section23	, Township18	S Range 26 E NMPM; Elevation of top
casing	g above sea le	vel,	feet; diameter of	hole, 13 3/8 inches; total depth, 200 fe
depth	to water upor	n completion,	45 feet; drillin	g was commenced DEC. 29 , 19.5
and c	ompletedJ	an 8,	, 1955; name	of drilling contractor A.F.Smith
306 W	.Chisum	; Address	Artesia, NM.	; Driller's License No. WD_28
Princi	ipal Water-be	aring Strata:	•	
	Depth in From	ı Feet To	Thickness	Description of Water-bearing Formation
No. 1	45	55,	10	Sand
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TP-1346

CROTHID WATER STITERVISOR | ROCTELL ROLL SOLLOW 18, 26, 23, 410

5. Log of Well:

Depth From	in Feet	Thickness in feet	Description of Formation
0	25	25	Soil
25	45	20	clay
45	55	10	sand
55	65	10	rock
65	75	10	red_bed
75	85 -	10	broken rock
85	90	5	red bed
_90	100	10	sand and gravel
_100	120	20	red bed
120	195	75	rock
195	200	5	clay
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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.

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

(This form to be executed in triplicate)

WELL RECORD

ate of Receipt	Dec. 1 199	3	*	Permit l	No RA ?	2132-
Name of permit	_{tee,} Sander	s Terry				
treet or P. O	oute 1 Box	114	, City and State Arte	sia, N.M.	~**********	
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			ame of drilling contrac			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
306 W Chisum	Add	ress, Artesia, I	V.M. ; Dr	iller's License	3 No. WD 2	28
Principal Water-	bearing Strata:	·		ı		
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No. 2 40	55	15	Sand &	gravel		
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OFFICE GROUND WATER SUPERVISOR ROSWELL, NEW MEXICO

A 2/32-B

18:36 34:123

5. Log of Well:

Depth From	in Feet To	Thickness in feet	Description of Formation
0	18	18	Soil
18	20	2	gravel
20	40	20	red clay
8 4 0	55 ⁻	15	sand & gravel
55	65	10	red clay
65	87	22	gravel
87	105	18	red & blue clay
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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.

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

FIFLD ENGR. LOG

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.

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							Data 21					
		1		_					1965			
(F		acres)		Drilling w	as comple	eted	Dog Ry		19 ⁶³			
		-	in fec	ot shove se	n level		Total de	onth of well	1 60			
Ctate w	hother we	I to chal	ll ion	mantesian	Shallow	·	Denth to we	Pui ui weii	letion			
		il is sum.	.0w U					ter upon comp.	letion			
Section 2	2			PRIN	CIPAL WA	ATER-BEAF	RING STRATA					
No.	Depth ir		Thi	ickness in	1	De	escription of Water	r-Bearing Format	ion			
	From	То		Feet	l							
1	98	185		27	Gr val							
2					~~~			<u></u>				
3	+		 									
			-									
4					,							
5	1		<u></u>	1								
Section 3	: 2				RECOR	RD OF CA	SING					
	1	1 -1		Dep		1	1	Per	forations			
Dia in.	Pounds ft.	Threa		Тор	Bottom	Feet	Type Shoe	From	iorations To			
·				 		3.50		 				
16				10	160	160	None	<u> </u>	<u> 150 </u>			
					,J							
				 				-				
	<u></u>					<u>i </u>						
Section 4	1			RECORI	OF MU[ING A	UD CEMENTING					
		Diame	-ton	Tons	D OF MUDDING AND CEMENTING No. Sacks of							
From	in Feet	Hole in		Clay	Cem			Methods Used				
	-			 	-							
	-			 	-							
	-			 	+							
					1:							
	<u> </u>			!	1 -	I						
Section 5	j				PLUGE	SING REC	ORD					
		Contrac	itar		j			License N	Го			
Name or	Lingania	Conn ac	101			City		Ctata				
	-				1 1				10			
					1				19			
'lugging	approved	by:			A COLUMN TO THE PARTY OF THE PA		Cement Plus	gs were placed a	as follows:			
						No	Depth of P	No.	of Sacks Used			
				Basin Supe	rvisor		From T	Го				
	FOR USF			GINEER ON	NLY							
	لااكت		ICIVI.	311								
Date F	Received U	1990 84	بهابد	on Viji jirgasa Viji jirgasa j	<u></u>	_						
				933 h961	A Commercial Control of the Control							
	^ : 1 -		N	IAPL FEI								
	KA-10	11,014	H	2132 L ml.A-S				18 5	- \ . / . \			
File No.	RA-13	3466	- ('or	1-H-1	Use	VV	<u> Locatio</u>	n No. 10. 26	6.24.130			

Section 6

LOG OF WELL

•	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet		
	28	28		Clay
28	57	9		Gement Rock
57	98	61		Sand
98	125	27		Gravel.
125	130	5	The second secon	- 01ay
130	155	25		Rook
155	160	5		Anhydrite
<u></u>			 	
	<u> </u>			
		· · · · · · · · · · · · · · · · · · ·		
) :				
	-			
			·	
		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

GROUND WATER SUPERVISOR ROSWELL, NEW MENICO

251. Location No. 18. 26.24.15/ File No. 84-3900

Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered
Ø	5	5/		45:0
~	115	/110		Ac d Clay
	145	30		red sans
-,	145	515		red bed
	660	155		pock
	435	20		hrokan pock
	845	XO	·	line
	,			
0	5	2		Rail
5	1/5	110		red Clay
115	145	30		red said
45	6.60	515		red had
160	815	155		pock
15	835	20		broken rock
35	845	10		line
	-	P-11-1W-7		· · · · · · · · · · · · · · · · · · ·
	- · · · ·			
	-			
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			·	

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

WELL RECORD

File No.

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, (P.O. Box 1079) Santa Fe, New Mexico, unless the well is situated in the Roswell Artesian Basin, in which case it should be filed in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

low or artes	sian in cha	aracter. This r	eport mu	st be sul	oscribed and	i sworn to i	peiore a No	tary Pub	lic.	•
		 	1	•	•					
			Owne	r of we	u	_ sande	ra Texi	r. y		
NW	/ 		Stree	t and N	umber	Houte	1,	r. 114		
	`_i_l_		Post	Office		Artes	ia, Nev	v nexi	00	
			1						A-1210-A	
	!		1		William I					
			1						of Section 24	
SY	Y	S.E				•			t	
			Drilli	ng Cont	tractor	I N .	Gray.	•••••		•
		<u> </u>	L							
	(Plat of 640 cate Well /	•	Post	Office		Artes	ia. New	Mexi	ÇQ	
Drilling was	s commend	ed Dec	-				· ·		7 1	
		•				_	_			
		166			77. 4 7.4 7		• • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • •
	or well			•				•		
Sec. 2	36	Δ			ATER-BEAI			(1750	al ·	
		to49								.
									& Gravel	
			_						& Gravel	
5	_		-						& Gravel	
No. 5, from	1.20	to 14	5 , ₇	Chicknes	s in feet :	25	Formation	, Sand	& Gravel	
Sec. 3				RECO	RD OF CA	SING		(cla	y streaks)
DIAMETER IN INCHES	POUNDS PER FOO		NAME MANUFA		FEET OF CASING	TYPE OF SHOE	PERFO	RATED	PURPOSE	-
18"06		8			166'5"		37	 		
10 01	<u> </u>				700.2.	· · · · · · · · · · · · · · · · · · ·	37	166		
<u> </u>										
		_								
								اسسيا		
Sec. 4		,	REC	ord of	MUDDING	AND CEM	ENTING		*	
DIAMETE HOLE IN I		NUMBER OF S	- 1	Mi	ETHODS US	ED	SPECIFIC		TONS O	
HOLE IN	HORES	OF CEME!	<u>'</u>	···			OF M		CLAY US	
						•				
		·			······································					
Sec. 5			D7 1	IGGING	RECORD	OF OLD W	PT 7			
-	tait in the	. 16						Tana and in)	
	•	_								
									· · · · · · · · · · · · · · · · · · ·	
					•					
	•						•		e	
				• • • • • • • •	was p	ugging app	roved by A	irtesian V	Vell Supervisor	
		ced as follows								
									CONTRACTOR CONTRACTOR	7
							E E	E-0 100		
									3 1953	
No. 5 was pl	aced at		· • • • • • • • • • • • • • • • • • • •	:		er of sacks	of cement	used	TCE	
			· •		(OVER)		ARTES	IAN WEL	L SUPERVISOR EW MEXICO	

RA-2132-2

9-1 -1 111

A

Sec. 6		OG OF WELL	
FROM (depth in feet)	TO (depth in feet)	THICKNESS IN FEET	CLASSIFICATION OF FORMATION
_0	35	35	Soil & clay
		13	Gravel
39	49		
49	54	. b	C.19. y
5.4	64	10	sand & Gravel
64	70	6	Clay
70	88	18	Sand & gravel
88	90	8	Clay
		12	Sand & Gravel
90	102		
102	180	18	Clay
120	145	25	Sand & Gravel
			(with olay streaks)
145	166	21	Clay 5 rook
	·		
		,	
		<u> </u>	
·			
		·	

I, pelief, the foregoing information is a tope determined from all available reco	rue and correct record	I of the well for wi	hich report is here	eby made, insofar as ca	n
SUBSCRIBED AND SWORN TO BE	FORE ME this	Signed .	n. 12	ay	•
day of	, A. D., 19	Position		/	•
		. •		m	

Notary Public Street and Number 1007 Mol St.

My Commission Expires Post Office Control of the Street and Number 1007 Mol St.

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) Owr	ner of well	1	Sanders Term	Ā				
			Street an	d Number	Ro	Sanders Terry oute 1 Box 11/	4				
]	City	Artesia			State	N.M.			
			Well was	s drilled u	nder Peri	mit No. RA_3409	9 and	i is located in the			
			NE 7	SE 1/4	NE 4	4 of Section	24 Twp. 185	Rge. 26E			
	-		(B) Drill	ling Contr	actor A.	F.Smith		nse NdVD_28			
ŀ					~~/	17 1 01 1		— 			
ļ 	-		City A	rtesia,	*****************		State	N . M .			
			Drilling	was comm	enced	F_b.13	**************************************	19 <u>56</u> 1956			
			Drilling ,	was compl	eted	Feb.21		19 ⁵⁶			
•	(Plat of 640	•									
							pth of well 175				
State w	hether we	ll is shall	ow or artesian	shall	Low	Depth to wa	ter upon comple	tion18!			
Section				NCIPAL W	ATER-BEAF	RING STRATA					
No. Depth in Feet Thickness in Feet			Thickness in Feet		Description of Water-Bearing Formation						
1				Dril	led fro	m 105 to 175'	Crevi	e e			
2											
3				 	un line	r /// 1t. 10"	liner				
4	 			 							
5				 	·						
<u></u>	11		<u> </u>	<u> </u>							
Section	1				RD OF CA	SING	l Donate				
Dia in.	Pounds ft.	Threa		epth Bottom	Feet	Type Shoe	From	rations ! To			
	+					-		1			
		Top	of lo" Line	851	 	-	85	162'			
						_					
				 	 	-		-			
			I				<u> </u>				
Section	4		RECOR	ND OF MUI	DDING AN	ND CEMENTING					
	h in Feet	Diame Hole in		No. Sa Cem	acks of	Methods Used					
From	То	Hole III	in. Ciay		lent						
						, , , , , , , , , , , , , , , , , , ,					
	_										
											
	<u> </u>							X			
Section (5			PLUGE	SING REC	ORD		•			
		- Mantegal	4a				Tigenes No				
		_									
					_	*		**************************************			
	•							10			
	•				~ · · · · · · · · · · · · · · · · · · ·			19			
Plugging	g approved	by:					gs were placed as	follows:			
		gener car	Basin Sup	pervisor	No	Depth of Pl	lug Fo No. of	Sacks Used			
	FOR USI		TE ENGINEER O								
l			•								
Date	Received _		1750 10 10	<u> </u>							
			OFFICE	i							
		E	DUND WARE 1 13	PPRVISOR	<u> </u>						
			ROSWELL, RUW ME	Wico O							
File No	NA-3	W29		Use		Locatio	n No. 18. 26	24. 242			

Copy to D7 2-27-56

	in Feet	Thickness in Feet	Color	Type of Material Encountered
From	То	III Feet		
_105	120	15	. white	rock
_120	155	35		red bed
155	160	5	gray	broken rock
160	175	15	white	rock
				Contract to the second
		······································		
-				
	ļ			
 				
				
		- 1		
			:	
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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

File No. RA-1820

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	-	on in and	i Section 5 need	-			**. *	-				
	T		1									****
			L L									
												Mexico
			!									located in the
	-									-		٠٥،
			1 ' '	_								
	- -											Mexico
												19.40
			_									19 40
	Plat of 640	-	_	_								
			n feet above se ow or artesian.							•		
Section 2	2		PRIN	CIPAL WA	ATER-BEAL	RING	STRAT	ΓA				
No.	Depth i		Thickness in Feet	OII AL W					r-Beari	ng Format	ion	
	From To		1000									
1	211	215	4	Sa	and				·			
2	786	795	9	SE	and				•		· 	
3												
4									_			
5												
Section 3	3			RECOR	D OF CA	SING	; 					
Dia	Pounds	Threa	ds Dej	<u> </u>	Feet	1	Type Sh	ioe			foration	
in.	ft.	in	Тор	Bottom					-	From		То
10	40	8			500		Reg.					
81	32	8			910	_	Texas	3				
	<u> </u>		1		<u> </u>	<u> </u>						
Section 4	4		RECOR	D OF MUE	DDING AI	ND C	EMENT	ING				
Depth From	n in Feet	Diame Hole in		No. Sa Cem		Methods Used						
	+	10	3	30	,	Halliburton					····	
		10 8 1		50			allibu					
		-4										
									~			· · · · · · · · · · · · · · · · · ·
		•		· · · · · · · · · · · · · · · · · · ·							**************************************	
Section 5					SING REC							
			tor									
					_							
	=		Tons of R					-				
_												
Plugging	approved	by:			-		lement	Plug	s wer	e placed	as follo	ows:
			Basin Sup	omricon	No).	Depth		lug 'o	No.	of Sack	cs Used
***	· · · · · · · · · · · · · · · · · · ·	an a	Basin Bup	et visor	-		10111		0			
	FOR USE	E OF STAT	E ENGINEER OF	NLY		-				· · · · · · · · · · · · · · · · · · ·		
D-4- *	Daac! 1		ı									
Date 1	neceived					_ _						
					I				Zona do maio			

Location No. 18.26.24.330

LOG OF WELL

Depth	Depth in Feet	Thickness	Colon	Type of Material Encountered		
From	То	in Feet	Color	Type of Material Encountered		
0	5	5		soil		
5	30	25		gyp		
30	50	20	<u> </u>	sand & gyp		
50	75	25		sand		
75	1 03	28	·	gyp and sand		
103	130	27		gyp rock and sand		
	190	60		gyp_rock		
190	200	10		sand		
200	211	11		rock		
211	215	4		sand		
215	440	25		, ~ gyp		
440	490	50		gyp with streaks of red bed		
490	500	10		hard rock (set 10" casing)		
500	540	40		rock-light colored		
540	590	50		colored rock		
590	615	25		white chalk rock		
615	670	55		red sand		
670	705	35		rock		
705	731	25		grey sand & rock		
731	780	49		red sand		
780	782	2	 	lime rock-hard		
782	786	4		hard rock		
786	795	9		sand		
795	878	83		lime rock		
878	885	7		grey sandy lime		
885	895	10	Į.	red sand		
895	903	 8 		lime-set 8¼" pipe at 902'		
903	988	85		grey lime		
988	994	6	j	sand		
994	1005			lime & anhydrate		
1005	1022	17	_	grey sandy lime - oil		
1022	1032	10		red sand		
1032	1033	 -		grey lime		
Total o	epth of l	ole	·			
						
		ļ				
		 				
		1				
		ļ				
		1	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.

--S--O. S. Brewer Well 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			 1	(A) Owne	er of well	Pai	ıl & Johnie F	Rogers		
				Street and	i Number.	Rout	te 1 Box 10/4			
ļ				City	Arte	sia		State		
			ļ	EZSW 4	SE 1/4	4	4 of Section2	0and 2418S	Rge. 26E	
	1							Licen		
				Street and	i Number.	 e c i s	306 W.Chisum	A	N.M.	
				City			Augus	State st 21	19 57	
				_			August ?	24	19 5	
_ ((Plat of 640) acres)		_				4	•	
Elevatio	on at top	of casing	in feet	t above se	a level domes	tic	Total de	epth of well 1	.10.	
State w	hether w	ell is shall	low or	artesium.			Deput to tre	ater upon complet	tion351	
Section	2			PRIN	ICIPAL WA	ATER-BEAR	RING STRATA	-		
No.	Depth From	pth in Feet Thickness in Feet				Description of Water-Bearing Formation				
1	50	85	3	5	sand	<u>l</u>				
2										
3										
4										
5										
Section	3		_		RECOF	RD OF CAS	SING			
Dia	Pounds	ls Thre	ads	Der		1:		Perfo	rations	
in.	ft.	in		Тор	Bottom	Feet	Type Shoe	From	То	
7'	11					941		731	941	
				<u> </u> !	<u> </u>	<u> </u>				
<u>.</u>			!	 	<u> </u>					
· · · · · · · · · · · · · · · · · · ·	<u> </u>				<u> </u>					
Section	4			RECOR	D OF MU	DDING AN	ND CEMENTING			
	th in Feet	Diam Hole i	I	Tons Clay	No. Sa			Methods Used		
From	То	11010	п ш.	Ciay		lent				
	-						-			
				 						
	<u> </u>									
Section						SING REC				
								License No.		
								State		
								pe of roughage ugged		
	g approve							gs were placed as		
) "FF					Γ.	Depth of P	Plug		
				Basin Sup	ervisor	No). \	To No. of	Sacks Used	
	FOR U	SE OF ST	TE EN	CHERTO						
			CED	3 1957	,					
Date	Received	-				-				
l	:	GRO		FFICE VATER SUPER	≀VISOR					
	Py			L, NEW MEXICO				1		
File No	×14	-37	20	1	_Use	Stech	L Locatic	on No. 18,26	1.24, 431	

Depth	in Feet	Thickness		
From	То	in Feet	Color	Type of Material Encountered
0	45	45	·	rock
45	110	-65		sand
	<u> </u>			
			. •	
			<u> </u>	
·				
		1		
	1			
	 			
	 		· · · · · · · · · · · · · · · · · · ·	
····				
		 		
•				<u> </u>
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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 RECORD

File No. <u>RA-1524</u>

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, (P.O. Box 1079) Santa Fe, New Mexico, unless the well is situated in the Roswell Artesian Basin, in which case it should be filed in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

Sec. 1							•		•	
	1] _{~~}	ner of we	11' 15.	. w. 7 <i>3</i> 19.				
		N.E	1				-			
NW		N.E	1			-				
						-	_		7and	
			1					_		
				is located in the NEW NW W of Section 25					· ·	
		S.E	1	Township / 8 13, Range 2.6 6						
			Dril	Drilling Contractor						
· I————————————————————————————————————	Plat of 640 a	cres)	Stre	et and Nu	ımber	.007 Mis	souri.	st	•••••	
Loc	cate Well Ac	curately	Pos	Office .	. .	rtesia,	NM.		• • • • • • • • • • • • • • • • • • • •	
Drilling was	commence	d	lay. 2	7 19	64 . Drilli	ng was com	pleted	June 4	1964	
Elevation at	top of casin	g in feet ab	ove sea	level			· · · · · · · · · · · ·		•	
State whether	er well is si	hallow or as	tesian .	Shallo	w				•••••	
Total depth	of well	100 ·····		feet.						
Sec. 2			PRINC	CIPAL W	ATER-BEAR	RING STRA	TA		•	
No. 1, from	44	to68	3 . ,	Thicknes	s in feet .	24,	Formation	sand.	& Gravel	
No. 2, from	68	to76	. ,	Thickness	s in feet .	8,	Formation	sand.		
No. 3, from	76	to 100) ,	Thickness	s in feet .		Formation	sand.	& Gravel	
No. 4, from		to	,	Thickness	s in feet .	· · · · · · · · · •	Formation		• • • • • • • • • • • • • • • • • • • •	
No. 5, from		to	,	Thicknes	s in feet		Formation			
Sec. 3				RECO	RD OF CA	BING				
DIAMETER	POUNDS	THREADS	NAN	E OF	FEET OF	TYPE OF	PERFORATED			
IN INCHES	PER FOOT	PER INCH	1		CASING	SHOE	FROM	то	PURPOSE	
16"00		Welded			101'	bablew	43	101		
·										
								 		
Sec. 4		<u>بدو ناز کا ۱۳۰۰ میزر نید ا</u>	RE	CORD OF	MUDDING	AND CEM	ENTING			
HOLE IN I		UMBER OF		M	ETHODS US	ED	SPECIFIC OF M		TONS OF CLAY USED	
<u> </u>										
					····					
Sec. 5			P	LUGGING	RECORD	OF OLD WI	ELL.			
	ed in the		•					Township		
Well is locat			· · · · · · · ·	4	¼ of	Section	· · · · · · · · · · · · · · · · · · ·			
Well is locat		Name of plu	gging co		¼ of	Section	· · · · · · · · · · · · · · · · · · ·	•••••		
Well is locat Range Street and N Tons of clay		Name of plu	gging co	ontractor .		Section	. Type of	roughage	••••••••••••••••••••••••••••••••••••••	
Well is locat Range Street and N Tons of clay		Name of plu	gging co	ontractor .		Section	. Type of	roughage		
Well is locat Range Street and N Tons of clay Cement plugs	umber used	Name of plu	gging co	ontractor .	Post C	Section Office lugging app	Type of	roughage rtesian W	••••••••••••••••••••••••••••••••••••••	
Well is locat Range Street and N Tons of clay Cement plugs No. 1 was pl	// Jumber used s were place	Name of plu	gging co	ontractor .	Post C	Section Office lugging app er of sacks	Type of roved by A	roughage	/ell Supervisor	
Well is locat Range Street and N Tons of clay Cement plugs No. 1 was pl No. 2 was p	Tumber used s were place aced at	Name of plu	gging co	roughage	Post Consequence Was profeet Numb	Section Office lugging app er of sacks	Type of roved by A of cement of cement	roughage rtesian W usep	••••••••••••••••••••••••••••••••••••••	
Well is locat Range Street and N Tons of clay Cement plugs No. 1 was pl No. 2 was pl No. 3 was pl	used s were place aced at	Name of plu	gging co	roughage	Post Consumer with the second	Section Office lugging app er of sacks er of sacks	Type of roved by A of cement of cement of cement	roughage rtesian W used	TILED	
Well is locat Range Street and N Tons of clay Cement plugs No. 1 was pl No. 2 was p No. 3 was pl No. 4 was pl	used s were place aced at elaced at aced at	Name of plu	gging co	roughage	Post Control was properties. Was properties. Numb feet Numb feet Numb feet Numb	Section Office lugging app er of sacks er of sacks er of sacks	Type of roved by A of cement of cement of cement of cement	roughage rtesian W used used	/ell Supervisor	

RA-1524

10 11 38 112

ROSWELL NEW MEXICO

FROM (depth in feet)	TO (depth in feet)	THICKNESS IN FEET	CLASSIFICATION OF FORMATION
0	12	12	Soil & Caleche
		32	Clay
12	60		Sand & France
44	68	2 <u>4</u> 8	Sand & James
68	76		
76	100	24	Sand & Gravel
		·	
	-		
	<u> </u>	·	
	 		·
	· · · · · · · · · · · · · · · · · · ·		
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en e			nt to the heat of my knowledge and

		the state of the s	
I ,		do solemnly swear that, to	the best of my knowledge and
	ormation is a true and correct reco available records. WORN TO BEFORE ME this		•
day of	, A. D., 19	. Position	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			the large saw how
A TOP A MATERIAL AND A MATERIAL AN	Notary Public	Street and Number	
•	res		

Section 1

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.

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						-		i is located in the
							-	Rge. 26E
			1 '	_				nse No
			1					r o r f và núm a ag và r eag o p f TV 45 f V n 1119 4 6 Sau
1		Ì						19 07
	Plat of 640		Drilling	was comple	eted	J	uly 15.	19.07
						Total do	mah of swall 86	kg †
							pth of well 86	
State wi	nether we	eli is shall	low or artesial	1		Dеріп іо wa	ter upon comple	:UON
Section 2	2		PRI	NCIPAL WA	ATER-BEAR	NG STRATA		
37.	Depth	in Feet	Thickness in		Des	cription of Wate	r-Bearing Formatio	n
No.	From	То	Feet					-
1								
2				1				
3				-		,, 		
	· · · · · · · · · · · · · · · · · · ·	ļ						
4	· · · · · · · · · · · · · · · · · · ·				······································	_ _		
5	····	<u> </u>		1		w		
Section 3	3			RECOR	D OF CAS	ING		
	1	l	. l m	epth	1		Perfo	orations
Dia in.	Pounds Threads ft. in			Bottom	Feet	Type Shoe	From	To
				625	625			
6	 		0	635	635			
								
	<u> </u>		<u> </u>		<u> </u>			1
Section 4	4		RECO	RD OF MU	DDING AN	D CEMENTING		
		Diam				D CEMENTING		
	in Feet	Diam Hole i	eter Tons	No. Sa	cks of	D CEMENTING	Methods Used	
Deptl	n in Feet		eter Tons	No. Sa	cks of	D CEMENTING	Methods Used	
Deptl	n in Feet		eter Tons	No. Sa	cks of	D CEMENTING	Methods Used	
Deptl	n in Feet		eter Tons	No. Sa	cks of	D CEMENTING	Methods Used	
Deptl	n in Feet		eter Tons	No. Sa	cks of	D CEMENTING	Methods Used	
Deptl	n in Feet		eter Tons	No. Sa	cks of	D CEMENTING	Methods Used	
Depth From	n in Feet		eter Tons	No. Sa Cem	cks of		Methods Used	
Depth From	To To	Hole in	eter Tons n in. Clay	No. Sa Cem	cks of hent	DRD		
Depth From Section 5	To To	Hole in	eter Tons n in. Clay	No. Sa Cem	ecks of hent	DRD	License No	
Depth From Section 5	To To To Pluggin, and Numb	g Contracter	eter Tons n in. Clay	No. Sa Cerr	BING RECO	ORD	License No	
Depth From Section 5	To To To Plugging and Numb	g Contrac	eter Tons n in. Clay ttor	PLUGG	GING RECO	DRD Ty	License No Statepe of roughage	
Pepti From Section 5 Jame of Street ar	To T	g Contracter	eter Tons n in. Clay ttor	PLUGG	GING RECO	DRD Ty	License No State pe of roughage	19
Pepti From Section 5 Jame of Street ar	To To To Plugging and Numb	g Contracter	eter Tons n in. Clay ttor	PLUGG	GING RECO	DRD Ty Date Plu	License No State pe of roughage agged gs were placed as	19
From Section 5 Jame of Street ar	To T	g Contracter	eter Tons Clay	PLUGG	GING RECO	DRD Ty Date Plu Cement Plu Depth of P	License No State pe of roughage gged gs were placed as	19
From Section 5 Jame of Street ar	To T	g Contracter	eter Tons n in. Clay ttor	PLUGG	GING RECO	DRD Ty Date Plu Cement Plu	License No State pe of roughage agged gs were placed as	19s follows:
Depth From Section 5 Vame of Street ar Cons of Plugging	Plugging and Numb	g Contracter used by:	eter Tons Clay	PLUGG Roughage u	GING RECO	DRD Ty Date Plu Cement Plu Depth of P	License No State pe of roughage gged gs were placed as	19s follows:
From Section 5 Vame of Street ar Cons of Slugging	Plugging and Numb	g Contracter used by:	eter Tons n in. Clay eter Tons of Basin St	PLUGG Roughage u	GING RECO	DRD Ty Date Plu Cement Plu Depth of P	License No State pe of roughage gged gs were placed as	19 s follows:
Depth From Section 5 Vame of Street ar Plugging	Plugging and Numb	g Contracter used by:	eter Tons of Tons of	PLUGG Roughage u	GING RECO	DRD Ty Date Plu Cement Plu Depth of P	License No State pe of roughage gged gs were placed as	follows:

Location No. 18.26.26.330

Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered						
0	100		soil, clay and gravel							
100	869			rock all the way						
	,									
				i						
				·						
				ig .						
		,								
				\$. \$.						
				<u> </u>						
				\$						
				į.						

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**

EIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner o Street or City and	f well Post Office A State	ddress RR' Artesia, l	P. Box New Mex	110-A ico 882	210	Owne	r's Well No.	NA-/L4L	
		t No. KARA-				ed in the:			
a. <u>W</u>	¥ SW	% <u>SE</u> %	¼ of S	ection 26	Township	18-S Ran	ge26-1	EN.M.P.M.	
b. Tract	No	of Map No.	*	of th	1e				
		of Block No							
						Custom	i	Zone in	
the			•	1001, 1	V.M. COOIGINAGE	e System		Zone in Grant.	
						License No	WD-74	19	
Address	Rt. 1	Box 199A	Ar	tesia, P	lew Mexic	o 88210			
Drilling Began	9-20-83	3 Comp	leted 10-	<u>30-83</u>	Type tools_	Cable	Size of I	hole <u>8"</u> in.	
Elevation of la	nd surface or -			at w	ell is	ft. Total depth	of well	102 ft.	
Completed wel	lis 🔼 s	shallow 🗀 ai	tesian.		Depth to water	er upon completion	of well	<u>55</u> _ft.	
Donath	in Front		ion 2. PRIN	CIPAL WATE	ER-BEARING S	TRATA	F-4:		
From	in Feet To	Thickness in Feet		Description of	Water-Bearing	Estimated Yield (gallons per minute)			
55	98	43	С	oarse Sa	ind & Pea	x Gravel	40		
	r				OF CASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Sho	oe Perforations From To		
7	23	weld-in	0	102	102	None		60 102	
			n 4. RECO		DING AND CEN	MENTING			
Depth From	in Feet To	Hole Diameter	Sac of M	1	Cubic Feet of Cement	Metho	d of Placem	ent	
				l			•		
			Section	on 5. PLUGGI	NG RECORD				
						T			
	od				No.	Top Depth in I	Bottom	Cubic Feet of Cement	
Plugging appro		,	······································	-	1 2				
			neer Repres	entative	<u>3</u> 4				
Date Received	Novemb	er 8,1983	FOR USE	OF STATE E	NGINEER ON	LY			
ate Received	Movemb	0,1500				FWL _			
File No	RA-7242-E	xploratory	· · · · · · · · · · · · · · · · · · ·	UseExp	loratory	Location No. 18.2	6.26.433	343	

	Section 6, LOG OF HOLE							
	ı in Feet	Thickness	Color and Type of Material Encountered					
From	То	in Feet						
0	55	55	White Clay					
55	98	43	Tan Coarse Sand & Pea Gravel					
98	102	4	Tan Clay					
		·						
								
		 						
		ļ						
	<u> </u>							
	· · · · · · · · · · · · · · · · · · ·							
		J						

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well was gravel packed with 4yds 5/8" Pea Gravel. This well was bailer tested at approx. 40 gallons per minute. a $\frac{1}{2}$ " steel plate cap was welded to top of casing.

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 5 ns, except Section 5, shall be answered as completely and a ura' 's possible when any well is drilled, repaired or deepened this form ted as a plugging record, only Section 1(a) an

jed be completed.

STATE ENGINEER OFFICE **WELL RECORD**

FIELD ENGR. LOC

Section 1. GENERAL INFORMATION

(A) Owner o Street or City and	Post Office A	Address R.	ert C. Gr R. T. Box esia, NM	110-A		Owner		
Well was drille	d under Permi	it No. RA-72	43-Explor	atory	and is located	d in the:		
						8-S Ran	ne 26-E	NMPM
					-	Nan	_	,
		-						
c. Lot N Subdi	loivision, record	_ of Block No. ed in		of t	County.			
d. X= the		feet, Y=		feet,	N.M. Coordinate	System		Zone in Grant.
(B) Drilling (Contractor	Hughes	Drilling	Company	w	License No	WD-749	
Address		Rt. 1 B	ox 199A	Artesia,	NM 88210			
Drilling Began	July 1,	1984 _{Com}	pleted July	y 25, 1 98	34 Type tools	Cable	Size of he	ole 8 in.
	•	,	•		-	ft. Total depth		
Completed wel		shallow .				r upon completion		
Joinpieted wei	11 15 62			an			or well	II.
Depth	in Feet	Se Thicknes	s		ER-BEARING S		Estima	ted Yield
From	То	in Feet		Description of Water-Bearing Formation				per minute)
60	68	8	8 Brown Clay & Sand					
68	80	12	Yel	low Sand	& Clay			
80	90	10	Sand	d & Pea G	iravel			
			Sectio	n 3. RECOR	D OF CASING			
Diameter	Pounds	Threads		in Feet	Length Type o		; 	erforations
(inches)	per foot	per in.	Тор	Bottom	(feet)		Fron	
7	24	Weld-In	0	110	110	None	45	110
	- P - 1				DING AND CEM	IENTING		
From	in Feet To	Hole Diameter	Sack of M		Cubic Feet of Cement	Method	of Placemen	nt
	I							
				n 5, PLUGG	ING RECORD			
						Depth in F	eet	Cubic Feet
lugging Metho	od				No.	Тор	Bottom	of Cement
Date Well Plug Tugging appro					$\frac{1}{2}$			
meering appro		State E-			3			
		State En	gineer Represe	entative	4			
			FOR USE	OF STATE I	ENGINEER ONL	.Y		
ate Received	July 27	, 1904		• Qua	106.3.2	FWL		FSL
TOTAL R	RA-7243-Ex	ploratory		-		Location No. 18		
rue No	1- 12 LA			Use		Location No		

Section 6, LOG OF HOLE Depth in Feet Color and Type of Material Encountered From in Feet To 0 Brown Dirt 2 2 2 58 White Clay 60 60 8 68 Brown Clay & Sand 68 12 Yellow Sand and Clay 80 80 90 10 Tan×Sand & Pea Gravel

Tan Sand & Clay

90

.

20

110

Section 7. REMARKS AND ADDITIONAL INFORMATION

This Well was gravel packed with $3\frac{1}{2}$ yards of 3/8" Orla Pea Gravel & welded a cap on casing.

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 a spossible when any well is drilled, repaired or deepens on this form is a plugging record, only Section 1(a) and one of the appropriate district office of the state Engineer. All one of the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a possible when any well is not present the state Engineer is a present the state Engineer is a present the state Engineer is a possible when any well is not present the state Engineer is a present the s

STATE ENGINEER OFFICE

FIELD FILER. LUG

WELL RECORD

Section	1	GENER/	Δľ	INFOR	MA	TIO	N
Section	1.	GENERA	۱L	INFUR	JVLA	UIU	N

(A) Owner of	wellRo	bert Lyni	n Barne	s		Owner's	Well No. RA-	7219	
Street or	Post Office A	_{ddress} <u>Rt.</u> Artesia	T ROX	190-A					
					and is located				
a. W =	<u>₩_E</u> }_!	% SE 4_	¼ of Se	ection <u>26</u>	Township _	18-S Range	26-E	N.M.P.M	
b. Tract	No	of Map No.		of th	e				
c. Lot No	o	of Block No.		of th	e				
Subdiv	ision, recorde	ed in Eddy		(County.				
				feet, N	I.M. Coordinate	System			
		lughed Dri		Composer			- alia		
-						License NoWI			
Address	H	t. 1 Box	199A	Artesia	, New Mex	ico 88210			
Orilling Began	8-25-83	Comp	leted 9-	2-83	Type tools	Cable	. Size of hole_	_8in.	
Elevation of lan	id surface or			at we	ell is	_ ft. Total depth of	well	110 ft.	
Completed well						upon completion of			
completed wen	.15 === 8						well		
Depth i	n Feet	Sect Thickness	ion 2. PRIN	CIPAL WATE	R-BEARING ST	RATA	Estimated	Y ield	
From	То	in Feet	Description of Water Description						
50	85	35	St	and & Pe	a Gravel		30		
 		1							
J	D 1	T		n 3. RECORD	T		Doctor		
Diameter (inches)	Pounds per foot	Threads per in.	Тор	in Feet Bottom	Length (feet)	Type of Shoe	Perforations From To		
6 5/8"	n/a	weld-in	0	110	110	None	70	110	
		<u> </u>		<u> </u>				l	
Depth i	n Feet	Section Hole	on 4. RECO		UNG AND CEM				
From	То	Diameter	of M		f Cement	Method o	f Placement		
1.		<u>. I </u>							
w ·				n 5. PLUGGIÌ	NG RECORD				
ddress						Depth in Fee	t Cu	bic Feet	
					No.			Cement	
lugging approv					$ \frac{1}{2}$				
		State Éngi	neer Represe	entative	3 4				
·							1		
ate Received	Septembe	er 7, 1983	FUK USE		NGINEER ONL				
	RA-7219			Quad		FWL			
File No				Use	THAN I HOU	SE Location No. 18.2	6.26.4441	3	

	Section 6, LOG OF HOLE						
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered				
0	3	3 .	Brown Dirt				
_3	40	37	White Clay				
40	50	10	White Sandy Clay				
_50	85	35	Sand & Pea Gravel				
85	110	25	Tan Clay				
							
·							
	·						

Section 7. REMARKS AND ADDITIONAL INFORMATION

Gravel Pakked with 4 yds 5/8" Pea gravel

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 s as possible when any well is rs, except Section 5, shall be answered as completely and a ed as a plugging record, only Section 1(a) and Se drilled, repaired or deepened zed be completed.

FIELD ENGR. LOG

'ile No. KA-5037

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	L		(A) Own	er of well	m E	Tarlan	& Orll	lugeo.	
			Street an	d Number	3	612 x	/ nua	Ú.	
1			City				State	Zef.	
			Well was	drilled w	nder, Perm	it No. KA	ar	Def.	
ļ			71E 4	21114	SE 4	of Section	7 Twp. 19	Rge. 24	
 	 		(B) Drill	ling Contr	actor 4	1.7. An	reth Lice	ense No. W. 12	
1			Street on	d Mumbon	K	01 1102	<u>'</u>		
<u> </u>			City	109	tese	4 1	State	M.M 19 60 19 64	
Ì		1	Drilling	was comm	enced	dest	14	19 60	
<u>L</u>			Drilling v	vas comple	eted	" 2	8	1960	
	Plat of 640 a								
Elevation	n at top of	casing i	n feet above se	a level		Total dep	oth of well	475	
State wh	ether well	is shall	ow or artesian	Shall	or	Depth to wat	ter upon compl	etion <u>132</u>	
Section 2	2		<u> </u>	ICIPAL W	ATER-BEAR	NG STRATA			
No.	Depth in	To	Thickness in Feet		Des	cription of Water	-Bearing Formati	on	
1	150	13-	75		0 0	1			
	50	232	02		acet			**************************************	
							· · · · · · · · · · · · · · · · · · ·		
3									
4									
5					N	····			
Section 3	3			RECOR	D OF CAS	ING			
Dia	Pounds	Threa	ds De	pth	Feet	Type Shoe		orations	
in.	ft.	in	Top	Bottom			From	То	
711		ļ		·	232	more	202	232	
		ļ							
		ļ							
		<u> </u>		<u> </u>	<u> </u>			<u> </u>	
Section 4	<u> </u>		RECOR	D OF MU	DING AN	D CEMENTING			
Depth	in Feet	Diame	ter Tons	No. Sa	cks of		Methods Used	· · · · · · · · · · · · · · · · · · ·	
From	То	Hole in	in. Clay	Cem	ent	Methods Osed			
-									
ection 5				PLUGG	SING RECO	ORD			
same of	Plugging	Contract	tor				License N	0	
ons of C	Clay used		Tons of R	oughage u	ısed	Тур	e of roughage		
								19	
lugging	approved	b y:				Cement Plug	s were placed a	s follows:	
			Dode Com		No.	Depth of Pl	ug No. (of Sacks Used	
-), याचे 'अर	Basin Sup		- 7	From T	υ		
	FOR USE	OF STAT	E ENGINEER O	NLY		\ <u></u>			
_	Received _	サンファ コーレー コートラー コート コート コート コート コート コート コート コー	1872[[]			ļ			
Date F	Received :::	-0 077	MANA TAR	Y	-	<u> </u>			
	35	8 MA O	1387 NON S			<u> </u>			
			1301			والمرابع والمرابع والمرابع والمرابع			

_Use___

0 WD Location No. 19. 26.17.210

Depth in Feet From To		Thickness in Feet	Color	Type of Material Encountered
0	65	65		Onp
65	150	85		I red Clas
150	232	82		Paul
232	475-	243		red Clay
				, 0
-				
				i 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.

Well Driller

WELL RECOR

File No.____

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, (P.O. Box 1079) Santa Fe, New Mexico, unless the well is situated in the Roswell Artesian Bosin, in which case it should be filed in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

4	ian in ch	aracter. This r	eport mus	t be sub	oscribed and	sworn to b	efore a No	tary Publ	lic.			
Sec. 1						•		ŧ.	,			
		ri)	Owne	ന വിയല്	11 D	a aa	nden					
NN	NWNE				Owner of well R. G. Gooden							
			Post	Post Office Artesia, N. Nex.								
<u> </u>			1									
	.		Well was drilled under Permit No									
		C E	06.83									
1000		5.E	B .						· ·			
			i .	_				•				
	Plat of 64			Street and Number 317. W. Dallag								
	•	Accurately .				· · · · ·			• • • • • • • • • • • • • • • • • • • •			
Drilling was	commen	cedAUE	•19	19	.49Drilli	ng was com	plet ed	Espt.	.20 19.49.			
	_	-					•					
					TTOM			· · · · · · · · · ·				
Total depth	of well .	162	1 0	eet.		٠	,	•				
Sec. 2			Princi	PAL W	ATER-BEAF	ING STRA	TA					
						•	•					
		•	•									
No. 3, from		to		Thickness	s in feet		Formation	ı				
No. 5, from		to	.	l'hicknes (s in feet		Formation	.				
Sec. 3				RECO	RD OF CA	BING			•			
DIAMETER	POUND		NAME		FEET OF	TYPE OF	PERFO	RATED	PURPOSE			
IN INCHES	PER FO	PER INCH	MANUFA	CTURER	CASING	SHOE	FROM	то				
14"					162							
						·						
L	. در بالنابات الموس											
Sec. 4			REC	ORD OF	MUDDING	AND CEM	enting					
DIAMETE HOLE IN I		NUMBER OF S		M	ETHODS US	ED	SPECIFIC OF M		TONS OF			
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Sec. 5	4	_ •4			RECORD							
									B			
									/ell Supervisor			
		aced as follows		•••••	was p	regging app	loved by r	TI CC21WII A	reil Supervisor			
	_				feet Numb	er of each-	of camont	11804	· · · · · · · · · · · · · · · · · · ·			
No. 2 was a	olaced at	1	• • • • • • • • •	• • • • • • •	feet Numb	or of coals	of cement	uscu				
No. 5 was p		••••••		• • • • • • •	Acet Mumb	OF DECKS	or cement	used	· · · · · · · · · · · · · · · · · · ·			

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RA-1210

18,26 23. 213

FROM (depth in feet)	TO (depth in feet)	THICKNESS IN FEET	CLASSIFICATION OF FORMATION
,"			
0	12		\$011
13	A8		Gray Clay
48	152		Sand & Gravel
152	162		Send, Gravel & Cla
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162 test o	casing Prefer	ited 110 feet	
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belief, the foregoing inform	ation is a true and correct r	do solemnly swear thecord of the well for which	hat, to the best of my ki th report is hereby made, i	nowledge and insofar as can
oe determined from all ava SUBSCRIBED AND SWO	RN TO BEFORE ME this?	the Signed	C Dray	
day of Februar	, A, D., 19.	7.9. Position		
<i>ئے</i>	Notary Public	Street and Number	,	्र ६ ०,५५
	6-18-52			

WELL RECORD

-	•••••••••••		**	******	Permit No!	(A 1270	,~ ~ ~
Name of perm	itee, Charles	R.Martin	•••••				Ti
Street or P. O	Route 1		, City and Sta	Artesi	a, New M	xico	
	nd description: The						1/4
	of Section						
	a level,						
depth to water	upon completion, March 18	.22 feet; di	rilling was con	menced	A.F.Sm	1 ith	.9
			•				_
306W.chisum	; Address	, Artesia, N	, PI.	; Driller's	License No.		_~
2. Principal Water	r-bearing Strata:	•				† }	
Dep From	th in Feet	Thickness	Des	cription of Water	r-bearing Forms	tion	
No. 1 40	45	5		Gravel		·	,
No. 2 65	75	10		sand		•	
No. 3	125	10		grave	e1		
No. 4							
No. 5							
Diameter Pound in inches per f		of Casing or Liner op Bottom	Feet of Casing	Type of Shoe	From	Perforation To	
13"	10		132	baker	20	132	S
		•••••••••••••••••••••••••••••••••••••••				i 1	
			:			******	
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. If above constru	ction replaces old w	ell to be abandon	ed, give locati	on:	.1/4.		4
	, Township		; 1	name and add	dress of plug	ging contr	actor

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RA-1296-5-2

5. Log of Well:

Depth From	in Feet	Thickness in feet	Description of Formation
0	40	40	Soil
40	45	5.	gravel
45	65	20	red bed
65	75	10	Sand
75	95	20	sand & gravel
95	100.	5	rock
100	115	1,5	yellow clay
115	125	10	gravel
125	150	25	clay
	• · · · · · · · · · · · · · · · · · · ·		
	·		

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.

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

FILED

APR 12 1954

O F F I C E
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO